

Table 1. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.314	0.333	0.320	0.305	0.307	0.310	0.314	0.315	0.315	0.315	0.315	0.313	0.312
Kerosene	0.009	0.012	0.013	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016
Liquefied Petroleum Gas	0.031	0.030	0.031	0.028	0.028	0.028	0.029	0.029	0.029	0.030	0.030	0.030	0.030
Petroleum Subtotal	0.354	0.375	0.364	0.348	0.350	0.354	0.358	0.360	0.360	0.361	0.361	0.360	0.359
Natural Gas	0.183	0.201	0.195	0.194	0.196	0.198	0.201	0.202	0.204	0.205	0.207	0.207	0.207
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 1/	0.024	0.027	0.026	0.025	0.025	0.025	0.025	0.025	0.025	0.024	0.024	0.024	0.024
Electricity	0.152	0.155	0.153	0.157	0.160	0.164	0.168	0.170	0.171	0.172	0.174	0.174	0.176
Delivered Energy	0.714	0.757	0.739	0.725	0.732	0.742	0.752	0.756	0.760	0.763	0.766	0.765	0.765
Electricity Related Losses	0.283	0.286	0.270	0.272	0.276	0.281	0.289	0.294	0.298	0.308	0.315	0.314	0.318
Total	0.997	1.044	1.009	0.996	1.008	1.023	1.042	1.050	1.057	1.071	1.081	1.079	1.084
Commercial													
Distillate Fuel	0.076	0.080	0.079	0.077	0.079	0.080	0.082	0.083	0.083	0.083	0.084	0.084	0.085
Residual Fuel	0.008	0.008	0.006	0.009	0.011	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.010
Kerosene	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Liquefied Petroleum Gas	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Motor Gasoline 2/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Petroleum Subtotal	0.094	0.099	0.096	0.098	0.101	0.102	0.103	0.104	0.104	0.105	0.105	0.106	0.106
Natural Gas	0.137	0.141	0.140	0.136	0.138	0.141	0.143	0.146	0.148	0.149	0.151	0.152	0.153
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 3/	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Electricity	0.180	0.180	0.179	0.183	0.188	0.194	0.200	0.205	0.209	0.214	0.217	0.221	0.224
Delivered Energy	0.419	0.427	0.422	0.424	0.435	0.444	0.453	0.461	0.469	0.475	0.481	0.486	0.491
Electricity Related Losses	0.336	0.333	0.315	0.316	0.324	0.332	0.345	0.356	0.364	0.382	0.393	0.397	0.405
Total	0.755	0.760	0.737	0.740	0.758	0.777	0.798	0.817	0.833	0.857	0.874	0.883	0.896
Industrial 4/													
Distillate Fuel	0.017	0.019	0.019	0.019	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
Liquefied Petroleum Gas	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Petrochemical Feedstocks	0.049	0.048	0.046	0.049	0.050	0.051	0.054	0.055	0.055	0.055	0.055	0.054	0.053
Residual Fuel	0.052	0.074	0.075	0.074	0.071	0.072	0.071	0.071	0.071	0.070	0.069	0.069	0.068
Motor Gasoline 2/	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Other Petroleum 5/	0.049	0.049	0.050	0.050	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.049
Petroleum Subtotal	0.189	0.210	0.210	0.211	0.209	0.210	0.213	0.215	0.215	0.214	0.213	0.211	0.211
Natural Gas	0.150	0.139	0.141	0.144	0.143	0.145	0.147	0.150	0.151	0.152	0.153	0.154	0.156
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Natural Gas Subtotal	0.150	0.139	0.141	0.144	0.143	0.145	0.147	0.150	0.151	0.152	0.153	0.154	0.156
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Renewable Energy 7/	0.139	0.140	0.148	0.153	0.154	0.155	0.158	0.160	0.161	0.162	0.163	0.164	0.166
Electricity	0.076	0.075	0.077	0.079	0.079	0.079	0.081	0.082	0.082	0.083	0.083	0.083	0.084
Delivered Energy	0.557	0.568	0.582	0.591	0.589	0.594	0.603	0.610	0.613	0.616	0.617	0.617	0.621
Electricity Related Losses	0.141	0.138	0.137	0.136	0.136	0.136	0.139	0.142	0.143	0.148	0.150	0.150	0.152
Total	0.698	0.706	0.718	0.727	0.725	0.730	0.743	0.753	0.756	0.764	0.768	0.767	0.773
Transportation													
Distillate Fuel 8/	0.160	0.163	0.171	0.179	0.183	0.189	0.195	0.202	0.207	0.212	0.216	0.221	0.226
Jet Fuel 9/	0.068	0.067	0.070	0.072	0.074	0.076	0.077	0.079	0.081	0.083	0.085	0.086	0.088
Motor Gasoline 2/	0.782	0.790	0.805	0.821	0.838	0.857	0.876	0.894	0.911	0.926	0.941	0.956	0.971
Residual Fuel	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Liquefied Petroleum Gas	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003

Table 1. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.008 1.025	0.009 1.035	0.009 1.061	0.008 1.087	0.009 1.112	0.009 1.138	0.009 1.165	0.009 1.192	0.009 1.216	0.009 1.238	0.009 1.260	0.009 1.280	0.009 1.302
Pipeline Fuel Natural Gas	0.008	0.008	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
Compressed Natural Gas	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity Delivered Energy	0.004 1.038	0.004 1.048	0.004 1.076	0.004 1.103	0.004 1.128	0.004 1.155	0.004 1.183	0.004 1.210	0.004 1.235	0.004 1.258	0.004 1.280	0.004 1.301	0.005 1.323
Electricity Related Losses	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008
Total	1.045	1.055	1.083	1.110	1.135	1.162	1.190	1.218	1.243	1.266	1.288	1.309	1.332
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.567	0.595	0.589	0.580	0.588	0.598	0.609	0.617	0.623	0.628	0.633	0.636	0.641
Kerosene	0.012	0.016	0.018	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.021
Jet Fuel 9/ Liquefied Petroleum Gas	0.068 0.046	0.067 0.045	0.070 0.046	0.072 0.044	0.074 0.044	0.076 0.045	0.077 0.045	0.079 0.046	0.081 0.046	0.083 0.047	0.085 0.047	0.086 0.048	0.088 0.048
Motor Gasoline 2/ Petrochemical Feedstocks	0.797 0.049	0.804 0.048	0.820 0.046	0.836 0.049	0.853 0.050	0.871 0.051	0.890 0.054	0.909 0.055	0.925 0.055	0.940 0.055	0.955 0.055	0.970 0.054	0.985 0.053
Residual Fuel	0.066	0.087	0.086	0.088	0.088	0.087	0.086	0.086	0.085	0.085	0.084	0.084	0.083
Other Petroleum 12/ Petroleum Subtotal	0.056 1.662	0.057 1.719	0.057 1.732	0.057 1.744	0.056 1.772	0.057 1.805	0.057 1.839	0.058 1.870	0.058 1.896	0.058 1.918	0.058 1.939	0.058 1.957	0.058 1.978
Natural Gas	0.471	0.482	0.478	0.476	0.480	0.487	0.495	0.501	0.507	0.512	0.516	0.519	0.522
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.000 0.008	0.000 0.008	0.000 0.009	0.000 0.010	0.000 0.010	0.000 0.010	0.000 0.010	0.000 0.010	0.000 0.010	0.000 0.010	0.000 0.010	0.000 0.011	0.000 0.011
Natural Gas Subtotal	0.479	0.490	0.487	0.485	0.490	0.497	0.505	0.511	0.517	0.522	0.527	0.529	0.533
Metallurgical Coal Steam Coal	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005
Net Coal Coke Imports Coal Subtotal	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005	0.000 0.005
Renewable Energy 13/ Liquid Hydrogen	0.170 0.000	0.174 0.000	0.181 0.000	0.185 0.000	0.186 0.000	0.187 0.000	0.189 0.000	0.191 0.000	0.192 0.000	0.193 0.000	0.195 0.000	0.195 0.000	0.197 0.000
Electricity Delivered Energy	0.412 2.728	0.413 2.800	0.413 2.819	0.423 2.843	0.431 2.883	0.442 2.935	0.452 2.992	0.460 3.038	0.467 3.077	0.473 3.111	0.479 3.144	0.483 3.170	0.488 3.200
Electricity Related Losses	0.767	0.764	0.728	0.731	0.743	0.757	0.780	0.800	0.812	0.846	0.866	0.869	0.884
Total	3.495	3.565	3.547	3.573	3.626	3.692	3.772	3.838	3.889	3.957	4.011	4.039	4.084
Electric Power 14/													
Distillate Fuel	0.007	0.023	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007
Residual Fuel Petroleum Subtotal	0.101 0.109	0.109 0.132	0.081 0.086	0.084 0.089	0.083 0.088	0.088 0.094	0.093 0.099	0.103 0.109	0.102 0.108	0.111 0.117	0.124 0.131	0.128 0.135	0.142 0.149
Natural Gas	0.348	0.331	0.325	0.321	0.326	0.349	0.372	0.385	0.397	0.403	0.408	0.416	0.418
Steam Coal	0.195	0.194	0.203	0.209	0.214	0.218	0.220	0.220	0.220	0.220	0.220	0.220	0.220
Nuclear Power	0.368	0.361	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
Renewable Energy/Other 15/ Electricity Imports	0.140 0.020	0.142 0.018	0.142 0.016	0.148 0.018	0.150 0.026	0.150 0.018	0.150 0.023	0.150 0.028	0.150 0.035	0.150 0.060	0.150 0.068	0.150 0.062	0.150 0.066
Total	1.179	1.177	1.141	1.154	1.174	1.198	1.233	1.260	1.279	1.319	1.345	1.352	1.372
Total Energy Consumption													
Distillate Fuel	0.574	0.618	0.594	0.586	0.593	0.604	0.615	0.624	0.630	0.635	0.640	0.643	0.648
Kerosene	0.012	0.016	0.018	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.021
Jet Fuel 9/ Liquefied Petroleum Gas	0.068 0.046	0.067 0.045	0.070 0.046	0.072 0.044	0.074 0.044	0.076 0.045	0.077 0.045	0.079 0.046	0.081 0.046	0.083 0.047	0.085 0.047	0.086 0.048	0.088 0.048
Motor Gasoline 2/ Petrochemical Feedstocks	0.797 0.049	0.804 0.048	0.820 0.046	0.836 0.049	0.853 0.050	0.871 0.051	0.890 0.054	0.909 0.055	0.925 0.055	0.940 0.055	0.955 0.055	0.970 0.054	0.985 0.053
Residual Fuel	0.167	0.197	0.167	0.171	0.170	0.175	0.178	0.189	0.187	0.195	0.208	0.211	0.225
Other Petroleum 12/ Petroleum Subtotal	0.056 1.771	0.057 1.851	0.057 1.818	0.057 1.833	0.056 1.860	0.057 1.898	0.057 1.938	0.058 1.979	0.058 2.004	0.058 2.035	0.058 2.070	0.058 2.091	0.058 2.126
Natural Gas	0.819	0.813	0.803	0.796	0.806	0.836	0.867	0.886	0.904	0.915	0.924	0.935	0.940

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	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipeline Natural Gas	0.008	0.008	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
Natural Gas Subtotal	0.827	0.820	0.812	0.806	0.816	0.846	0.877	0.896	0.915	0.925	0.935	0.946	0.951
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.199	0.199	0.209	0.214	0.219	0.223	0.225	0.225	0.225	0.225	0.225	0.225	0.225
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.199	0.199	0.209	0.214	0.219	0.223	0.225	0.225	0.225	0.225	0.225	0.225	0.225
Nuclear Power	0.368	0.361	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
Renewable Energy 16/	0.309	0.316	0.323	0.333	0.335	0.337	0.339	0.341	0.342	0.343	0.344	0.345	0.347
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.020	0.018	0.016	0.018	0.026	0.018	0.023	0.028	0.035	0.060	0.068	0.062	0.066
Total	3.495	3.565	3.547	3.573	3.626	3.692	3.772	3.838	3.889	3.957	4.011	4.039	4.084
Energy Use & Related Statistics													
Delivered Energy Use	2.728	2.800	2.819	2.843	2.883	2.935	2.992	3.038	3.077	3.111	3.144	3.170	3.200
Total Energy Use	3.495	3.565	3.547	3.573	3.626	3.692	3.772	3.838	3.889	3.957	4.011	4.039	4.084
Population (millions)	14.165	14.234	14.308	14.382	14.456	14.530	14.603	14.678	14.754	14.831	14.910	14.989	15.070

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	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.311	0.310	0.307	0.305	0.302	0.300	0.297	0.295	0.293	0.292	0.289	-0.6%
Kerosene	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.014	0.014	0.014	0.8%
Liquefied Petroleum Gas	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.4%
Petroleum Subtotal	0.358	0.357	0.354	0.352	0.349	0.348	0.344	0.342	0.340	0.338	0.335	-0.5%
Natural Gas	0.207	0.208	0.208	0.209	0.209	0.210	0.210	0.211	0.212	0.213	0.214	0.3%
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.2%
Renewable Energy 1/	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	-0.8%
Electricity	0.177	0.179	0.181	0.183	0.184	0.187	0.188	0.190	0.192	0.195	0.196	1.1%
Delivered Energy	0.766	0.769	0.767	0.766	0.766	0.768	0.766	0.766	0.767	0.769	0.768	0.1%
Electricity Related Losses	0.323	0.329	0.324	0.325	0.327	0.325	0.325	0.326	0.328	0.323	0.327	0.6%
Total	1.089	1.098	1.090	1.092	1.092	1.093	1.091	1.092	1.094	1.092	1.095	0.2%
Commercial												
Distillate Fuel	0.085	0.086	0.086	0.087	0.087	0.088	0.088	0.089	0.089	0.090	0.091	0.6%
Residual Fuel	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	1.7%
Kerosene	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.2%
Liquefied Petroleum Gas	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.4%
Motor Gasoline 2/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.3%
Petroleum Subtotal	0.107	0.108	0.108	0.109	0.109	0.110	0.111	0.111	0.112	0.113	0.113	0.6%
Natural Gas	0.155	0.156	0.158	0.159	0.160	0.162	0.163	0.165	0.167	0.168	0.171	0.9%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0%
Renewable Energy 3/	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.0%
Electricity	0.227	0.231	0.235	0.240	0.244	0.248	0.253	0.258	0.263	0.268	0.274	1.9%
Delivered Energy	0.496	0.502	0.509	0.515	0.521	0.527	0.534	0.541	0.549	0.557	0.565	1.3%
Electricity Related Losses	0.414	0.424	0.421	0.427	0.433	0.432	0.438	0.443	0.448	0.445	0.456	1.4%
Total	0.909	0.926	0.930	0.942	0.953	0.960	0.972	0.984	0.997	1.002	1.021	1.4%
Industrial 4/												
Distillate Fuel	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.021	0.5%
Liquefied Petroleum Gas	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.6%
Petrochemical Feedstocks	0.053	0.052	0.052	0.051	0.050	0.049	0.049	0.048	0.048	0.047	0.046	-0.2%
Residual Fuel	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.067	0.067	0.067	-0.5%
Motor Gasoline 2/	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.5%
Other Petroleum 5/	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.048	0.047	0.047	0.047	-0.2%
Petroleum Subtotal	0.210	0.208	0.208	0.208	0.208	0.207	0.206	0.206	0.205	0.205	0.204	-0.1%
Natural Gas	0.157	0.159	0.161	0.163	0.166	0.169	0.171	0.174	0.177	0.180	0.183	1.3%
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Natural Gas Subtotal	0.157	0.159	0.161	0.163	0.166	0.169	0.171	0.174	0.177	0.180	0.183	1.3%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.1%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.1%
Renewable Energy 7/	0.168	0.168	0.170	0.173	0.175	0.177	0.180	0.181	0.183	0.185	0.187	1.3%
Electricity	0.084	0.084	0.084	0.085	0.086	0.086	0.086	0.087	0.087	0.088	0.088	0.8%
Delivered Energy	0.623	0.623	0.628	0.634	0.639	0.644	0.648	0.652	0.658	0.662	0.666	0.7%
Electricity Related Losses	0.153	0.154	0.151	0.152	0.152	0.150	0.150	0.149	0.149	0.146	0.147	0.3%
Total	0.776	0.777	0.779	0.785	0.791	0.794	0.798	0.802	0.807	0.808	0.813	0.6%
Transportation												
Distillate Fuel 8/	0.230	0.234	0.239	0.244	0.249	0.254	0.258	0.263	0.268	0.274	0.279	2.5%
Jet Fuel 9/	0.089	0.090	0.091	0.092	0.094	0.095	0.095	0.096	0.097	0.097	0.098	1.7%
Motor Gasoline 2/	0.985	0.999	1.013	1.026	1.039	1.052	1.065	1.080	1.096	1.113	1.131	1.6%
Residual Fuel	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	-0.3%
Liquefied Petroleum Gas	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	6.4%

Table 1. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	1.1%
Petroleum Subtotal	1.322	1.341	1.361	1.381	1.400	1.419	1.438	1.458	1.480	1.504	1.528	1.8%
Pipeline Fuel Natural Gas	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	1.9%
Compressed Natural Gas	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.009	9.0%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.7%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	1.8%
Delivered Energy	1.344	1.363	1.384	1.405	1.424	1.443	1.463	1.483	1.506	1.530	1.555	1.8%
Electricity Related Losses	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.3%
Total	1.353	1.372	1.393	1.413	1.433	1.452	1.472	1.492	1.515	1.539	1.564	1.8%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	0.645	0.649	0.651	0.654	0.658	0.661	0.663	0.667	0.671	0.676	0.679	0.6%
Kerosene	0.021	0.021	0.020	0.020	0.020	0.020	0.020	0.019	0.019	0.018	0.018	0.6%
Jet Fuel 9/	0.089	0.090	0.091	0.092	0.094	0.095	0.095	0.096	0.097	0.097	0.098	1.7%
Liquefied Petroleum Gas	0.049	0.049	0.049	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.053	0.7%
Motor Gasoline 2/	1.000	1.014	1.028	1.041	1.054	1.067	1.081	1.095	1.111	1.129	1.147	1.6%
Petrochemical Feedstocks	0.053	0.052	0.052	0.051	0.050	0.049	0.049	0.048	0.048	0.047	0.046	-0.2%
Residual Fuel	0.083	0.083	0.083	0.083	0.084	0.084	0.084	0.083	0.083	0.083	0.083	-0.2%
Other Petroleum 12/	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.1%
Petroleum Subtotal	1.997	2.014	2.032	2.050	2.067	2.084	2.099	2.117	2.137	2.160	2.181	1.1%
Natural Gas	0.526	0.530	0.534	0.538	0.543	0.548	0.553	0.558	0.564	0.571	0.576	0.8%
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Pipeline Natural Gas	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	1.9%
Natural Gas Subtotal	0.536	0.540	0.545	0.549	0.554	0.560	0.564	0.569	0.576	0.582	0.588	0.8%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.0%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.0%
Renewable Energy 13/	0.198	0.199	0.201	0.203	0.205	0.207	0.209	0.211	0.213	0.215	0.216	1.0%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	0.493	0.499	0.505	0.512	0.519	0.526	0.532	0.540	0.548	0.557	0.564	1.4%
Delivered Energy	3.229	3.257	3.288	3.319	3.350	3.382	3.411	3.443	3.479	3.519	3.554	1.1%
Electricity Related Losses	0.898	0.915	0.904	0.913	0.920	0.916	0.922	0.928	0.934	0.923	0.938	0.9%
Total	4.128	4.172	4.192	4.232	4.270	4.298	4.333	4.371	4.414	4.442	4.493	1.1%
Electric Power 14/												
Distillate Fuel	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	-6.0%
Residual Fuel	0.135	0.132	0.129	0.134	0.136	0.132	0.133	0.133	0.130	0.131	0.127	0.7%
Petroleum Subtotal	0.142	0.139	0.136	0.141	0.143	0.138	0.139	0.139	0.136	0.137	0.133	0.0%
Natural Gas	0.424	0.428	0.448	0.461	0.473	0.474	0.484	0.495	0.507	0.530	0.522	2.1%
Steam Coal	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.249	1.2%
Nuclear Power	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.1%
Renewable Energy/Other 15/	0.155	0.177	0.178	0.179	0.181	0.182	0.184	0.185	0.187	0.187	0.187	1.3%
Electricity Imports	0.082	0.081	0.059	0.055	0.054	0.059	0.059	0.059	0.064	0.037	0.043	4.1%
Total	1.391	1.414	1.410	1.425	1.439	1.442	1.455	1.467	1.482	1.480	1.503	1.1%
Total Energy Consumption												
Distillate Fuel	0.652	0.656	0.658	0.661	0.664	0.668	0.670	0.673	0.677	0.682	0.685	0.5%
Kerosene	0.021	0.021	0.020	0.020	0.020	0.020	0.020	0.019	0.019	0.018	0.018	0.6%
Jet Fuel 9/	0.089	0.090	0.091	0.092	0.094	0.095	0.095	0.096	0.097	0.097	0.098	1.7%
Liquefied Petroleum Gas	0.049	0.049	0.049	0.050	0.050	0.051	0.051	0.052	0.052	0.052	0.053	0.7%
Motor Gasoline 2/	1.000	1.014	1.028	1.041	1.054	1.067	1.081	1.095	1.111	1.129	1.147	1.6%
Petrochemical Feedstocks	0.053	0.052	0.052	0.051	0.050	0.049	0.049	0.048	0.048	0.047	0.046	-0.2%
Residual Fuel	0.218	0.215	0.212	0.217	0.220	0.215	0.216	0.216	0.213	0.214	0.210	0.3%
Other Petroleum 12/	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.1%
Petroleum Subtotal	2.138	2.153	2.167	2.190	2.210	2.222	2.238	2.256	2.273	2.296	2.313	1.0%
Natural Gas	0.949	0.958	0.982	0.999	1.016	1.022	1.037	1.053	1.071	1.101	1.098	1.4%

Table 1. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Pipeline Natural Gas	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	1.9%
Natural Gas Subtotal	0.960	0.968	0.993	1.010	1.027	1.034	1.048	1.065	1.083	1.113	1.110	1.4%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.254	1.1%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.254	1.1%
Nuclear Power	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.1%
Renewable Energy 16/	0.353	0.376	0.379	0.382	0.386	0.390	0.393	0.396	0.400	0.402	0.403	1.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	0.082	0.081	0.059	0.055	0.054	0.059	0.059	0.059	0.064	0.037	0.043	4.1%
Total	4.128	4.172	4.192	4.232	4.270	4.298	4.333	4.371	4.414	4.442	4.493	1.1%
Energy Use & Related Statistics												
Delivered Energy Use	3.229	3.257	3.288	3.319	3.350	3.382	3.411	3.443	3.479	3.519	3.554	1.1%
Total Energy Use	4.128	4.172	4.192	4.232	4.270	4.298	4.333	4.371	4.414	4.442	4.493	1.1%
Population (millions)	15.152	15.235	15.318	15.402	15.487	15.573	15.661	15.751	15.842	15.936	16.033	0.5%

Table 1. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) New England

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products

6/ Represents natural gas used in the field gathering and processing plant machinery

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004); 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
Energy Consumption														
Residential														
Distillate Fuel	0.394	0.420	0.398	0.384	0.387	0.390	0.395	0.395	0.395	0.394	0.394	0.392	0.390	
Kerosene	0.019	0.025	0.028	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034	
Liquefied Petroleum Gas	0.041	0.041	0.042	0.039	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	
Petroleum Subtotal	0.453	0.486	0.468	0.454	0.457	0.462	0.468	0.470	0.471	0.472	0.473	0.471	0.471	
Natural Gas	0.858	0.946	0.896	0.894	0.898	0.909	0.922	0.930	0.940	0.949	0.955	0.952	0.950	
Coal	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
Renewable Energy 1/ Electricity	0.074 0.418	0.082 0.421	0.078 0.420	0.077 0.432	0.076 0.440	0.076 0.450	0.075 0.459	0.074 0.462	0.073 0.465	0.072 0.467	0.072 0.469	0.071 0.470	0.070 0.472	
Delivered Energy	1.806	1.939	1.865	1.860	1.875	1.900	1.927	1.939	1.952	1.963	1.972	1.966	1.965	
Electricity Related Losses	1.017	1.004	1.063	1.091	1.105	1.106	1.116	1.138	1.145	1.159	1.167	1.177	1.191	
Total	2.823	2.943	2.928	2.952	2.980	3.006	3.043	3.077	3.097	3.122	3.138	3.143	3.156	
Commercial														
Distillate Fuel	0.147	0.152	0.152	0.145	0.148	0.152	0.155	0.158	0.159	0.159	0.160	0.161	0.162	
Residual Fuel	0.057	0.054	0.046	0.050	0.055	0.055	0.052	0.052	0.052	0.053	0.053	0.053	0.053	
Kerosene	0.009	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.012	0.012	0.012	
Liquefied Petroleum Gas	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
Motor Gasoline 2/ Petroleum Subtotal	0.002 0.222	0.003 0.226	0.003 0.220	0.002 0.217	0.002 0.225	0.002 0.229	0.002 0.229	0.002 0.232	0.002 0.233	0.002 0.234	0.002 0.235	0.002 0.236	0.002 0.237	
Natural Gas	0.649	0.668	0.657	0.617	0.624	0.636	0.648	0.656	0.663	0.668	0.672	0.675	0.677	
Coal	0.021	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
Renewable Energy 3/ Electricity	0.019 0.517	0.018 0.509	0.018 0.512	0.018 0.525	0.018 0.539	0.018 0.557	0.018 0.574	0.018 0.586	0.018 0.597	0.018 0.606	0.018 0.610	0.018 0.615	0.018 0.621	
Delivered Energy	1.427	1.444	1.429	1.399	1.428	1.462	1.491	1.514	1.533	1.547	1.557	1.566	1.574	
Electricity Related Losses	1.259	1.212	1.294	1.324	1.353	1.368	1.395	1.443	1.469	1.503	1.517	1.540	1.565	
Total	2.686	2.657	2.723	2.723	2.781	2.830	2.886	2.957	3.001	3.050	3.074	3.106	3.139	
Industrial 4/														
Distillate Fuel	0.047	0.051	0.052	0.052	0.048	0.047	0.047	0.047	0.046	0.046	0.046	0.047	0.047	
Liquefied Petroleum Gas	0.033	0.032	0.032	0.032	0.030	0.030	0.030	0.030	0.030	0.031	0.031	0.031	0.031	
Petrochemical Feedstocks	0.141	0.138	0.133	0.140	0.144	0.147	0.154	0.157	0.160	0.159	0.158	0.155	0.153	
Residual Fuel	0.019	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.022	0.022	
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.022 0.461 0.722	0.022 0.462 0.726	0.022 0.475 0.736	0.022 0.476 0.743	0.021 0.464 0.729	0.021 0.471 0.739	0.021 0.475 0.749	0.022 0.480 0.759	0.021 0.480 0.760	0.022 0.484 0.764	0.022 0.485 0.763	0.022 0.483 0.760	0.022 0.486 0.763	
Natural Gas	0.406	0.370	0.377	0.383	0.416	0.417	0.424	0.429	0.434	0.437	0.440	0.443	0.444	
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.007 0.414	0.007 0.377	0.005 0.382	0.005 0.388	0.005 0.421	0.005 0.423	0.006 0.430	0.006 0.435	0.006 0.440	0.007 0.443	0.007 0.447	0.007 0.450	0.007 0.452	
Metallurgical Coal	0.179	0.184	0.194	0.184	0.179	0.173	0.168	0.163	0.156	0.153	0.149	0.145	0.142	
Steam Coal	0.112	0.115	0.113	0.116	0.116	0.116	0.117	0.117	0.118	0.118	0.118	0.118	0.118	
Net Coal Coke Imports	0.004	0.003	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006	0.006	
Coal Subtotal	0.295	0.302	0.315	0.307	0.300	0.296	0.292	0.287	0.280	0.277	0.273	0.269	0.265	
Renewable Energy 7/ Electricity	0.080 0.279	0.080 0.275	0.085 0.285	0.088 0.291	0.088 0.291	0.089 0.295	0.091 0.300	0.092 0.304	0.093 0.305	0.093 0.307	0.094 0.309	0.095 0.309	0.096 0.312	
Delivered Energy	1.790	1.761	1.803	1.816	1.830	1.841	1.862	1.876	1.878	1.885	1.886	1.883	1.887	
Electricity Related Losses	0.679	0.656	0.722	0.733	0.731	0.724	0.728	0.748	0.752	0.762	0.767	0.775	0.786	
Total	2.469	2.417	2.525	2.549	2.562	2.565	2.589	2.625	2.630	2.648	2.653	2.657	2.673	
Transportation														
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.483 0.373 1.840 0.111	0.493 0.364 1.858 0.106	0.518 0.382 1.894 0.095	0.539 0.392 1.916 0.095	0.550 0.402 1.949 0.095	0.564 0.414 1.986 0.095	0.582 0.421 2.024 0.095	0.599 0.431 2.061 0.094	0.611 0.445 2.093 0.094	0.624 0.456 2.121 0.094	0.635 0.465 2.149 0.094	0.646 0.472 2.177 0.093	0.658 0.479 2.205 0.093	0.658 0.479 2.205 0.093
Liquefied Petroleum Gas	0.002	0.003	0.003	0.004	0.006	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.020 2.829	0.025 2.849	0.025 2.917	0.025 2.971	0.025 3.026	0.025 3.089	0.025 3.153	0.025 3.216	0.025 3.275	0.025 3.328	0.025 3.376	0.026 3.421	0.026 3.469
Pipeline Fuel Natural Gas	0.048	0.046	0.045	0.045	0.044	0.044	0.046	0.045	0.045	0.046	0.046	0.046	0.046
Compressed Natural Gas	0.002	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.008	0.008	0.009	0.009	0.010
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.013	0.013
Delivered Energy	2.890	2.908	2.978	3.031	3.086	3.151	3.216	3.281	3.341	3.394	3.444	3.490	3.539
Electricity Related Losses	0.026	0.026	0.028	0.028	0.028	0.028	0.028	0.029	0.029	0.030	0.031	0.031	0.032
Total	2.916	2.934	3.005	3.059	3.115	3.179	3.245	3.310	3.370	3.424	3.475	3.521	3.571
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.071	1.117	1.119	1.120	1.133	1.154	1.179	1.199	1.211	1.224	1.236	1.245	1.257
Kerosene	0.031	0.040	0.044	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.050	0.050	0.050
Jet Fuel 9/	0.373	0.364	0.382	0.392	0.402	0.414	0.421	0.431	0.445	0.456	0.465	0.472	0.479
Liquefied Petroleum Gas	0.082	0.081	0.083	0.081	0.082	0.083	0.085	0.086	0.087	0.089	0.091	0.092	0.094
Motor Gasoline 2/	1.864	1.882	1.919	1.940	1.972	2.010	2.047	2.085	2.117	2.145	2.173	2.201	2.229
Petrochemical Feedstocks	0.141	0.138	0.133	0.140	0.144	0.147	0.154	0.157	0.160	0.159	0.158	0.155	0.153
Residual Fuel	0.187	0.182	0.164	0.167	0.171	0.171	0.169	0.169	0.169	0.169	0.169	0.169	0.169
Other Petroleum 12/ Petroleum Subtotal	0.478 4.226	0.483 4.287	0.496 4.340	0.496 4.384	0.485 4.437	0.492 4.519	0.495 4.600	0.501 4.677	0.501 4.740	0.505 4.798	0.506 4.848	0.504 4.888	0.508 4.939
Natural Gas	1.915	1.987	1.933	1.898	1.943	1.968	2.000	2.022	2.045	2.061	2.075	2.079	2.081
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.007 0.048	0.007 0.046	0.005 0.045	0.005 0.045	0.005 0.044	0.005 0.044	0.006 0.046	0.006 0.045	0.006 0.045	0.007 0.046	0.007 0.046	0.007 0.046	0.007 0.046
Natural Gas Subtotal	1.971	2.040	1.984	1.948	1.992	2.017	2.051	2.073	2.097	2.114	2.128	2.133	2.135
Metallurgical Coal	0.179	0.184	0.194	0.184	0.179	0.173	0.168	0.163	0.156	0.153	0.149	0.145	0.142
Steam Coal	0.135	0.141	0.138	0.141	0.140	0.141	0.142	0.142	0.142	0.142	0.142	0.142	0.142
Net Coal Coke Imports	0.004	0.003	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006	0.006
Coal Subtotal	0.319	0.328	0.339	0.332	0.325	0.320	0.317	0.312	0.304	0.301	0.297	0.293	0.290
Renewable Energy 13/ Liquid Hydrogen	0.172 0.000	0.181 0.000	0.182 0.000	0.184 0.000	0.183 0.000	0.183 0.000	0.184 0.000	0.185 0.000	0.184 0.000	0.185 0.000	0.185 0.000	0.184 0.000	0.185 0.000
Electricity	1.225	1.216	1.228	1.259	1.282	1.314	1.344	1.365	1.379	1.392	1.401	1.407	1.417
Delivered Energy	7.913	8.053	8.074	8.106	8.220	8.354	8.496	8.610	8.704	8.789	8.859	8.905	8.965
Electricity Related Losses	2.981	2.898	3.107	3.177	3.218	3.226	3.267	3.359	3.395	3.455	3.481	3.523	3.573
Total	10.894	10.950	11.182	11.283	11.438	11.580	11.763	11.969	12.099	12.244	12.340	12.428	12.539
Electric Power 14/													
Distillate Fuel	0.039	0.072	0.057	0.079	0.078	0.079	0.081	0.084	0.085	0.087	0.053	0.054	0.057
Residual Fuel	0.124	0.191	0.241	0.241	0.241	0.241	0.194	0.196	0.196	0.196	0.192	0.193	0.194
Petroleum Subtotal	0.163	0.263	0.299	0.320	0.319	0.320	0.275	0.280	0.280	0.283	0.244	0.246	0.251
Natural Gas	0.590	0.426	0.549	0.537	0.532	0.544	0.622	0.655	0.679	0.708	0.758	0.799	0.842
Steam Coal	1.514	1.514	1.509	1.566	1.604	1.635	1.666	1.734	1.754	1.772	1.787	1.796	1.807
Nuclear Power	1.543	1.511	1.561	1.564	1.575	1.575	1.576	1.577	1.578	1.578	1.579	1.580	1.580
Renewable Energy/Other 15/ Electricity Imports	0.359 0.037	0.382 0.018	0.401 0.016	0.430 0.019	0.443 0.028	0.447 0.019	0.446 0.025	0.446 0.029	0.450 0.037	0.446 0.063	0.443 0.071	0.443 0.065	0.442 0.069
Total	4.206	4.114	4.335	4.436	4.500	4.540	4.611	4.723	4.774	4.847	4.882	4.930	4.991
Total Energy Consumption													
Distillate Fuel	1.110	1.189	1.176	1.199	1.210	1.232	1.260	1.283	1.296	1.311	1.288	1.298	1.314
Kerosene	0.031	0.040	0.044	0.048	0.048	0.048	0.049	0.049	0.050	0.050	0.050	0.050	0.050
Jet Fuel 9/	0.373	0.364	0.382	0.392	0.402	0.414	0.421	0.431	0.445	0.456	0.465	0.472	0.479
Liquefied Petroleum Gas	0.082	0.081	0.083	0.081	0.082	0.083	0.085	0.086	0.087	0.089	0.091	0.092	0.094
Motor Gasoline 2/	1.864	1.882	1.919	1.940	1.972	2.010	2.047	2.085	2.117	2.145	2.173	2.201	2.229
Petrochemical Feedstocks	0.141	0.138	0.133	0.140	0.144	0.147	0.154	0.157	0.160	0.159	0.158	0.155	0.153
Residual Fuel	0.311	0.373	0.405	0.409	0.413	0.413	0.363	0.365	0.365	0.365	0.361	0.362	0.362
Other Petroleum 12/ Petroleum Subtotal	0.478 4.390	0.483 4.551	0.496 4.639	0.496 4.705	0.485 4.756	0.492 4.839	0.495 4.875	0.501 4.956	0.501 5.020	0.505 5.081	0.506 5.092	0.504 5.135	0.508 5.189
Natural Gas	2.505	2.413	2.482	2.435	2.475	2.512	2.622	2.676	2.724	2.770	2.833	2.879	2.923

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.007	0.007	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007
Pipeline Natural Gas	0.048	0.046	0.045	0.045	0.044	0.044	0.046	0.045	0.045	0.046	0.046	0.046	0.046
Natural Gas Subtotal	2.560	2.466	2.533	2.485	2.524	2.561	2.674	2.728	2.776	2.822	2.886	2.932	2.977
Metallurgical Coal	0.179	0.184	0.194	0.184	0.179	0.173	0.168	0.163	0.156	0.153	0.149	0.145	0.142
Steam Coal	1.649	1.654	1.648	1.707	1.745	1.776	1.808	1.875	1.897	1.914	1.929	1.938	1.948
Net Coal Coke Imports	0.004	0.003	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006	0.006
Coal Subtotal	1.832	1.841	1.849	1.898	1.929	1.955	1.983	2.045	2.059	2.073	2.084	2.089	2.096
Nuclear Power	1.543	1.511	1.561	1.564	1.575	1.575	1.576	1.577	1.578	1.578	1.579	1.580	1.580
Renewable Energy 16/	0.531	0.562	0.583	0.613	0.626	0.630	0.631	0.634	0.630	0.627	0.628	0.627	0.627
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.037	0.018	0.016	0.019	0.028	0.019	0.025	0.029	0.037	0.063	0.071	0.065	0.069
Total	10.894	10.950	11.182	11.283	11.438	11.580	11.763	11.969	12.099	12.244	12.340	12.428	12.539
Energy Use & Related Statistics													
Delivered Energy Use	7.913	8.053	8.074	8.106	8.220	8.354	8.496	8.610	8.704	8.789	8.859	8.905	8.965
Total Energy Use	10.894	10.950	11.182	11.283	11.438	11.580	11.763	11.969	12.099	12.244	12.340	12.428	12.539
Population (millions)	40.125	40.274	40.430	40.585	40.739	40.891	41.041	41.195	41.350	41.507	41.667	41.830	41.994

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025	
Energy Consumption													
Residential													
Distillate Fuel	0.388	0.387	0.383	0.379	0.375	0.373	0.368	0.365	0.361	0.359	0.354	-0.8%	
Kerosene	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	1.5%	
Liquefied Petroleum Gas	0.048	0.049	0.050	0.050	0.051	0.052	0.053	0.054	0.054	0.055	0.056	1.5%	
Petroleum Subtotal	0.470	0.470	0.467	0.464	0.461	0.459	0.455	0.453	0.450	0.449	0.445	-0.4%	
Natural Gas	0.948	0.950	0.948	0.947	0.946	0.948	0.946	0.946	0.949	0.954	0.953	0.0%	
Coal	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-1.2%	
Renewable Energy 1/ Electricity	0.069 0.476	0.068 0.480	0.067 0.483	0.067 0.487	0.066 0.490	0.065 0.495	0.064 0.498	0.063 0.503	0.062 0.508	0.062 0.514	0.061 0.517	-1.4% 0.9%	
Delivered Energy	1.965	1.971	1.968	1.967	1.965	1.970	1.965	1.967	1.971	1.980	1.978	0.1%	
Electricity Related Losses	1.210	1.217	1.223	1.233	1.233	1.256	1.264	1.275	1.295	1.307	1.319	1.2%	
Total	3.174	3.188	3.190	3.200	3.198	3.226	3.230	3.243	3.266	3.287	3.297	0.5%	
Commercial													
Distillate Fuel	0.163	0.164	0.165	0.165	0.166	0.167	0.168	0.169	0.170	0.171	0.172	0.5%	
Residual Fuel	0.053	0.053	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.1%	
Kerosene	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.3%	
Liquefied Petroleum Gas	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.4%	
Motor Gasoline 2/ Petroleum Subtotal	0.002 0.238	0.002 0.239	0.002 0.240	0.002 0.241	0.002 0.242	0.002 0.243	0.002 0.244	0.002 0.245	0.002 0.246	0.003 0.247	0.003 0.248	0.0% 0.4%	
Natural Gas	0.679	0.682	0.687	0.690	0.692	0.695	0.698	0.702	0.707	0.712	0.717	0.3%	
Coal	0.022	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	-0.3%	
Renewable Energy 3/ Electricity	0.018 0.627	0.018 0.635	0.018 0.644	0.018 0.652	0.018 0.660	0.018 0.668	0.018 0.677	0.018 0.687	0.018 0.697	0.018 0.708	0.018 0.719	0.0% 1.6%	
Delivered Energy	1.584	1.596	1.610	1.622	1.633	1.645	1.658	1.673	1.690	1.707	1.724	0.8%	
Electricity Related Losses	1.595	1.608	1.629	1.652	1.660	1.695	1.720	1.743	1.778	1.802	1.833	1.9%	
Total	3.179	3.204	3.239	3.274	3.293	3.340	3.378	3.416	3.468	3.509	3.557	1.3%	
Industrial 4/													
Distillate Fuel	0.048	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.2%	
Liquefied Petroleum Gas	0.032	0.031	0.032	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034	0.4%	
Petrochemical Feedstocks	0.151	0.150	0.149	0.148	0.145	0.142	0.140	0.138	0.137	0.135	0.133	-0.2%	
Residual Fuel	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.0%	
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.022 0.485 0.760	0.022 0.485 0.758	0.022 0.485 0.759	0.023 0.487 0.760	0.023 0.490 0.762	0.023 0.492 0.763	0.023 0.495 0.765	0.023 0.495 0.764	0.024 0.496 0.764	0.024 0.495 0.763	0.024 0.496 0.763	0.5% 0.3% 0.2%	
Natural Gas	0.448	0.450	0.456	0.462	0.469	0.475	0.482	0.488	0.496	0.503	0.511	1.5%	
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.008 0.455	0.008 0.458	0.008 0.464	0.008 0.470	0.008 0.477	0.008 0.484	0.008 0.490	0.008 0.497	0.008 0.504	0.008 0.512	0.008 0.519	0.4% 1.5%	
Metallurgical Coal	0.138	0.135	0.132	0.128	0.125	0.122	0.120	0.117	0.114	0.111	0.109	-2.4%	
Steam Coal	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.116	0.116	0.0%	
Net Coal Coke Imports	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.007	4.0%	
Coal Subtotal	0.262	0.258	0.255	0.252	0.249	0.246	0.243	0.240	0.237	0.234	0.232	-1.2%	
Renewable Energy 7/ Electricity	0.097 0.312	0.097 0.311	0.098 0.313	0.100 0.316	0.101 0.318	0.103 0.320	0.104 0.320	0.105 0.322	0.106 0.324	0.107 0.326	0.108 0.327	1.4% 0.8%	
Delivered Energy	1.885	1.883	1.889	1.899	1.908	1.914	1.922	1.928	1.936	1.943	1.949	0.5%	
Electricity Related Losses	0.793	0.788	0.792	0.800	0.800	0.811	0.814	0.817	0.827	0.830	0.835	1.1%	
Total	2.679	2.671	2.682	2.698	2.708	2.726	2.735	2.744	2.763	2.773	2.785	0.6%	
Transportation													
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.669 0.485 2.231 0.093	0.677 0.489 2.256 0.092	0.689 0.495 2.281 0.092	0.701 0.500 2.303 0.092	0.712 0.506 2.325 0.092	0.723 0.510 2.347 0.092	0.733 0.512 2.370 0.092	0.743 0.514 2.394 0.091	0.756 0.516 2.422 0.091	0.768 0.518 2.452 0.091	0.780 0.519 2.484 0.091	0.785 0.519 2.484 0.091	2.1% 1.6% 1.3% -0.7%
Liquefied Petroleum Gas	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	6.6%	

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/	0.026	0.026	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.029	0.029	0.7%
Petroleum Subtotal	3.512	3.549	3.592	3.633	3.672	3.709	3.744	3.782	3.824	3.869	3.913	1.5%
Pipeline Fuel Natural Gas	0.047	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.1%
Compressed Natural Gas	0.010	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	6.8%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	6.3%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	1.6%
Delivered Energy	3.583	3.621	3.665	3.706	3.746	3.783	3.818	3.856	3.899	3.944	3.989	1.4%
Electricity Related Losses	0.033	0.033	0.034	0.034	0.035	0.035	0.036	0.037	0.037	0.038	0.039	1.9%
Total	3.615	3.654	3.698	3.741	3.780	3.818	3.854	3.893	3.936	3.982	4.028	1.5%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	1.267	1.275	1.285	1.294	1.303	1.313	1.320	1.329	1.339	1.351	1.359	0.9%
Kerosene	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.050	1.0%
Jet Fuel 9/	0.485	0.489	0.495	0.500	0.506	0.510	0.512	0.514	0.516	0.518	0.519	1.6%
Liquefied Petroleum Gas	0.095	0.096	0.097	0.099	0.100	0.102	0.103	0.104	0.105	0.107	0.108	1.3%
Motor Gasoline 2/	2.256	2.281	2.305	2.328	2.351	2.372	2.395	2.420	2.448	2.478	2.510	1.3%
Petrochemical Feedstocks	0.151	0.150	0.149	0.148	0.145	0.142	0.140	0.138	0.137	0.135	0.133	-0.2%
Residual Fuel	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.167	0.167	0.167	0.167	-0.4%
Other Petroleum 12/	0.506	0.507	0.508	0.510	0.513	0.515	0.519	0.519	0.520	0.520	0.521	0.3%
Petroleum Subtotal	4.979	5.017	5.058	5.098	5.137	5.173	5.208	5.243	5.284	5.327	5.368	1.0%
Natural Gas	2.085	2.093	2.102	2.111	2.118	2.130	2.137	2.149	2.165	2.182	2.194	0.5%
Lease and Plant Fuel 6/	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.4%
Pipeline Natural Gas	0.047	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.1%
Natural Gas Subtotal	2.139	2.148	2.157	2.166	2.174	2.185	2.192	2.204	2.219	2.237	2.249	0.4%
Metallurgical Coal	0.138	0.135	0.132	0.128	0.125	0.122	0.120	0.117	0.114	0.111	0.109	-2.4%
Steam Coal	0.142	0.141	0.141	0.141	0.141	0.141	0.141	0.140	0.140	0.140	0.140	0.0%
Net Coal Coke Imports	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.007	4.0%
Coal Subtotal	0.286	0.282	0.279	0.276	0.273	0.270	0.267	0.264	0.261	0.258	0.255	-1.1%
Renewable Energy 13/	0.185	0.184	0.185	0.185	0.186	0.187	0.187	0.188	0.188	0.189	0.189	0.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	1.428	1.439	1.453	1.468	1.482	1.497	1.509	1.526	1.544	1.562	1.578	1.2%
Delivered Energy	9.017	9.071	9.132	9.194	9.252	9.312	9.363	9.425	9.496	9.574	9.640	0.8%
Electricity Related Losses	3.631	3.646	3.678	3.719	3.727	3.797	3.834	3.872	3.937	3.978	4.026	1.5%
Total	12.648	12.717	12.809	12.913	12.980	13.109	13.197	13.296	13.433	13.552	13.666	1.0%
Electric Power 14/												
Distillate Fuel	0.056	0.056	0.059	0.061	0.062	0.063	0.064	0.066	0.067	0.067	0.068	-0.3%
Residual Fuel	0.193	0.193	0.194	0.238	0.254	0.254	0.254	0.253	0.253	0.254	0.254	1.3%
Petroleum Subtotal	0.249	0.249	0.253	0.299	0.316	0.316	0.318	0.319	0.320	0.321	0.322	0.9%
Natural Gas	0.893	0.919	0.962	0.973	0.970	1.036	1.027	1.012	1.011	1.022	1.018	4.0%
Steam Coal	1.808	1.810	1.814	1.816	1.826	1.839	1.896	1.964	2.042	2.118	2.180	1.7%
Nuclear Power	1.580	1.580	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	0.3%
Renewable Energy/Other 15/	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.441	0.441	0.7%
Electricity Imports	0.086	0.085	0.062	0.058	0.056	0.062	0.062	0.062	0.067	0.039	0.045	4.1%
Total	5.059	5.085	5.131	5.187	5.209	5.294	5.343	5.397	5.480	5.540	5.604	1.4%
Total Energy Consumption												
Distillate Fuel	1.323	1.332	1.343	1.355	1.366	1.376	1.384	1.394	1.406	1.418	1.427	0.8%
Kerosene	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.050	1.0%
Jet Fuel 9/	0.485	0.489	0.495	0.500	0.506	0.510	0.512	0.514	0.516	0.518	0.519	1.6%
Liquefied Petroleum Gas	0.095	0.096	0.097	0.099	0.100	0.102	0.103	0.104	0.105	0.107	0.108	1.3%
Motor Gasoline 2/	2.256	2.281	2.305	2.328	2.351	2.372	2.395	2.420	2.448	2.478	2.510	1.3%
Petrochemical Feedstocks	0.151	0.150	0.149	0.148	0.145	0.142	0.140	0.138	0.137	0.135	0.133	-0.2%
Residual Fuel	0.362	0.361	0.362	0.406	0.422	0.421	0.422	0.421	0.421	0.421	0.422	0.6%
Other Petroleum 12/	0.506	0.507	0.508	0.510	0.513	0.515	0.519	0.519	0.520	0.520	0.521	0.3%
Petroleum Subtotal	5.229	5.266	5.311	5.397	5.453	5.489	5.526	5.562	5.604	5.648	5.690	1.0%
Natural Gas	2.978	3.013	3.064	3.084	3.089	3.166	3.164	3.161	3.176	3.204	3.213	1.3%

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.4%
Pipeline Natural Gas	0.047	0.047	0.047	0.048	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.1%
Natural Gas Subtotal	3.032	3.067	3.119	3.140	3.144	3.221	3.219	3.216	3.230	3.260	3.268	1.3%
Metallurgical Coal	0.138	0.135	0.132	0.128	0.125	0.122	0.120	0.117	0.114	0.111	0.109	-2.4%
Steam Coal	1.950	1.952	1.955	1.957	1.967	1.980	2.037	2.104	2.183	2.258	2.320	1.5%
Net Coal Coke Imports	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.007	4.0%
Coal Subtotal	2.094	2.093	2.093	2.092	2.099	2.109	2.163	2.228	2.303	2.376	2.435	1.3%
Nuclear Power	1.580	1.580	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	0.3%
Renewable Energy 16/	0.627	0.627	0.626	0.627	0.628	0.629	0.629	0.629	0.629	0.630	0.629	0.5%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	0.086	0.085	0.062	0.058	0.056	0.062	0.062	0.062	0.067	0.039	0.045	4.1%
Total	12.648	12.717	12.809	12.913	12.980	13.109	13.197	13.296	13.433	13.552	13.666	1.0%
Energy Use & Related Statistics												
Delivered Energy Use	9.017	9.071	9.132	9.194	9.252	9.312	9.363	9.425	9.496	9.574	9.640	0.8%
Total Energy Use	12.648	12.717	12.809	12.913	12.980	13.109	13.197	13.296	13.433	13.552	13.666	1.0%
Population (millions)	42.161	42.329	42.498	42.669	42.841	43.015	43.192	43.374	43.561	43.754	43.951	0.4%

Table 2. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Middle Atlantic

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
Energy Consumption														
Residential														
Distillate Fuel	0.058	0.059	0.055	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.053	0.053	0.052	
Kerosene	0.003	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
Liquefied Petroleum Gas	0.134	0.131	0.134	0.123	0.125	0.129	0.132	0.134	0.136	0.138	0.140	0.141	0.143	
Petroleum Subtotal	0.195	0.193	0.194	0.182	0.184	0.188	0.191	0.193	0.195	0.197	0.198	0.199	0.200	
Natural Gas	1.452	1.521	1.439	1.443	1.449	1.472	1.502	1.524	1.546	1.563	1.577	1.577	1.578	
Coal	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
Renewable Energy 1/ Electricity	0.073 0.630	0.077 0.623	0.074 0.625	0.074 0.656	0.074 0.665	0.074 0.676	0.074 0.690	0.074 0.699	0.074 0.708	0.074 0.715	0.074 0.724	0.074 0.729	0.074 0.736	
Delivered Energy	2.352	2.417	2.334	2.358	2.374	2.412	2.459	2.492	2.525	2.552	2.577	2.582	2.590	
Electricity Related Losses	1.437	1.471	1.625	1.655	1.650	1.687	1.719	1.738	1.742	1.756	1.766	1.775	1.778	
Total	3.788	3.888	3.960	4.013	4.024	4.099	4.178	4.230	4.267	4.307	4.343	4.357	4.369	
Commercial														
Distillate Fuel	0.050	0.054	0.057	0.060	0.064	0.068	0.073	0.077	0.080	0.082	0.084	0.087	0.090	
Residual Fuel	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Liquefied Petroleum Gas	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
Motor Gasoline 2/ Petroleum Subtotal	0.007 0.082	0.007 0.086	0.006 0.088	0.006 0.091	0.007 0.096	0.007 0.101	0.007 0.105	0.007 0.110	0.006 0.112	0.007 0.115	0.007 0.117	0.007 0.120	0.007 0.123	
Natural Gas	0.727	0.739	0.723	0.716	0.726	0.742	0.759	0.773	0.786	0.796	0.804	0.810	0.815	
Coal	0.020	0.021	0.021	0.021	0.021	0.021	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
Renewable Energy 3/ Electricity	0.018 0.625	0.018 0.610	0.018 0.617	0.018 0.642	0.018 0.658	0.018 0.676	0.018 0.695	0.018 0.712	0.018 0.727	0.018 0.742	0.018 0.756	0.018 0.770	0.018 0.783	
Delivered Energy	1.471	1.474	1.467	1.488	1.518	1.558	1.598	1.633	1.664	1.691	1.715	1.738	1.759	
Electricity Related Losses	1.426	1.442	1.603	1.619	1.633	1.687	1.731	1.769	1.789	1.821	1.844	1.874	1.892	
Total	2.897	2.917	3.070	3.107	3.151	3.244	3.329	3.402	3.453	3.513	3.560	3.612	3.651	
Industrial 4/														
Distillate Fuel	0.146	0.148	0.147	0.149	0.149	0.149	0.150	0.150	0.150	0.150	0.150	0.150	0.151	
Liquefied Petroleum Gas	0.093	0.089	0.091	0.092	0.089	0.089	0.090	0.091	0.091	0.092	0.092	0.093	0.094	
Petrochemical Feedstocks	0.187	0.201	0.196	0.206	0.206	0.207	0.213	0.217	0.220	0.221	0.222	0.221	0.222	
Residual Fuel	0.014	0.015	0.015	0.015	0.028	0.028	0.028	0.029	0.029	0.029	0.029	0.029	0.029	
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.043 0.652 1.135	0.043 0.628 1.124	0.044 0.650 1.143	0.043 0.646 1.151	0.043 0.703 1.218	0.043 0.697 1.213	0.043 0.697 1.221	0.043 0.703 1.221	0.043 0.696 1.233	0.044 0.694 1.229	0.044 0.694 1.230	0.044 0.686 1.223	0.044 0.680 1.218	0.045 0.679 1.219
Natural Gas	1.252	1.180	1.198	1.223	1.228	1.242	1.268	1.288	1.315	1.333	1.345	1.352	1.364	
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.018 1.270	0.018 1.198	0.011 1.209	0.011 1.234	0.010 1.238	0.010 1.252	0.010 1.278	0.010 1.298	0.010 1.325	0.011 1.344	0.011 1.356	0.011 1.363	0.011 1.374	
Metallurgical Coal	0.323	0.331	0.346	0.327	0.315	0.304	0.294	0.283	0.271	0.264	0.256	0.249	0.242	
Steam Coal	0.332	0.338	0.339	0.343	0.336	0.337	0.339	0.339	0.340	0.340	0.339	0.339	0.338	
Net Coal Coke Imports	0.045	0.038	0.081	0.061	0.050	0.044	0.042	0.039	0.032	0.031	0.030	0.027	0.025	
Coal Subtotal	0.701	0.707	0.766	0.731	0.701	0.685	0.674	0.661	0.643	0.635	0.625	0.615	0.606	
Renewable Energy 7/ Electricity	0.214 0.699	0.213 0.689	0.231 0.719	0.238 0.738	0.241 0.743	0.245 0.750	0.250 0.764	0.255 0.779	0.258 0.786	0.261 0.793	0.265 0.800	0.268 0.804	0.272 0.813	
Delivered Energy	4.019	3.931	4.068	4.092	4.140	4.144	4.187	4.225	4.241	4.263	4.269	4.267	4.284	
Electricity Related Losses	1.593	1.628	1.869	1.862	1.843	1.871	1.904	1.935	1.933	1.947	1.950	1.956	1.962	
Total	5.612	5.559	5.937	5.954	5.983	6.015	6.091	6.160	6.174	6.210	6.218	6.223	6.247	
Transportation														
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.795 0.320 2.605 0.003	0.812 0.312 2.631 0.003	0.853 0.328 2.682 0.003	0.883 0.335 2.707 0.003	0.897 0.343 2.735 0.003	0.916 0.352 2.777 0.003	0.942 0.357 2.821 0.003	0.966 0.364 2.865 0.003	0.966 0.364 2.903 0.003	0.982 0.374 2.935 0.003	0.998 0.383 2.968 0.003	1.012 0.389 3.000 0.003	1.024 0.393 3.033 0.003	1.040 0.398 3.033 0.003
Liquefied Petroleum Gas	0.003	0.004	0.004	0.006	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.010	0.010	

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.030 3.756	0.034 3.795	0.034 3.903	0.034 3.968	0.034 4.019	0.034 4.088	0.034 4.165	0.034 4.240	0.034 4.305	0.034 4.362	0.035 4.415	0.035 4.464	0.035 4.518
Pipeline Fuel Natural Gas	0.068	0.064	0.068	0.067	0.065	0.065	0.065	0.066	0.066	0.066	0.067	0.067	0.067
Compressed Natural Gas	0.002	0.003	0.004	0.005	0.005	0.006	0.007	0.007	0.008	0.008	0.009	0.010	0.010
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014
Delivered Energy	3.838	3.875	3.987	4.052	4.103	4.172	4.250	4.327	4.392	4.451	4.505	4.555	4.610
Electricity Related Losses	0.027	0.029	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034	0.035
Total	3.866	3.904	4.019	4.084	4.135	4.205	4.283	4.360	4.426	4.485	4.539	4.590	4.645
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.048	1.073	1.113	1.146	1.164	1.188	1.219	1.247	1.265	1.283	1.299	1.314	1.333
Kerosene	0.005	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Jet Fuel 9/	0.320	0.312	0.328	0.335	0.343	0.352	0.357	0.364	0.374	0.383	0.389	0.393	0.398
Liquefied Petroleum Gas	0.253	0.246	0.251	0.243	0.243	0.247	0.252	0.256	0.258	0.261	0.264	0.266	0.269
Motor Gasoline 2/	2.655	2.681	2.732	2.757	2.785	2.826	2.871	2.916	2.953	2.986	3.019	3.051	3.085
Petrochemical Feedstocks	0.187	0.201	0.196	0.206	0.206	0.207	0.213	0.217	0.220	0.221	0.222	0.221	0.222
Residual Fuel	0.020	0.020	0.019	0.019	0.032	0.033	0.033	0.033	0.034	0.034	0.034	0.034	0.034
Other Petroleum 12/ Petroleum Subtotal	0.680 5.168	0.660 5.198	0.682 5.328	0.678 5.392	0.735 5.516	0.729 5.590	0.729 5.682	0.735 5.775	0.729 5.841	0.727 5.904	0.719 5.954	0.713 6.001	0.712 6.060
Natural Gas	3.433	3.443	3.364	3.386	3.408	3.461	3.536	3.592	3.654	3.701	3.735	3.749	3.766
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.018 0.068	0.018 0.064	0.011 0.068	0.011 0.067	0.010 0.065	0.010 0.065	0.010 0.065	0.010 0.066	0.010 0.066	0.011 0.066	0.011 0.067	0.011 0.067	0.011 0.067
Natural Gas Subtotal	3.518	3.526	3.442	3.464	3.483	3.535	3.611	3.667	3.730	3.778	3.812	3.827	3.844
Metallurgical Coal	0.323	0.331	0.346	0.327	0.315	0.304	0.294	0.283	0.271	0.264	0.256	0.249	0.242
Steam Coal	0.354	0.362	0.362	0.367	0.359	0.360	0.361	0.362	0.363	0.363	0.362	0.361	0.361
Net Coal Coke Imports	0.045	0.038	0.081	0.061	0.050	0.044	0.042	0.039	0.032	0.031	0.030	0.027	0.025
Coal Subtotal	0.723	0.730	0.789	0.754	0.724	0.708	0.697	0.684	0.666	0.658	0.648	0.638	0.629
Renewable Energy 13/ Liquid Hydrogen	0.305 0.000	0.308 0.000	0.323 0.000	0.331 0.000	0.333 0.000	0.337 0.000	0.342 0.000	0.347 0.000	0.350 0.000	0.354 0.000	0.357 0.000	0.360 0.000	0.365 0.000
Electricity	1.966	1.935	1.974	2.049	2.079	2.116	2.162	2.203	2.235	2.265	2.294	2.317	2.347
Delivered Energy	11.680	11.697	11.856	11.990	12.136	12.286	12.494	12.676	12.822	12.957	13.066	13.143	13.244
Electricity Related Losses	4.483	4.571	5.130	5.168	5.157	5.277	5.387	5.475	5.498	5.558	5.594	5.639	5.668
Total	16.163	16.268	16.986	17.158	17.293	17.563	17.880	18.151	18.320	18.515	18.660	18.782	18.912
Electric Power 14/													
Distillate Fuel	0.026	0.034	0.041	0.042	0.042	0.043	0.044	0.045	0.045	0.045	0.046	0.047	0.048
Residual Fuel	0.001	0.003	0.005	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Petroleum Subtotal	0.027	0.037	0.046	0.047	0.044	0.046	0.047	0.048	0.048	0.048	0.050	0.050	0.050
Natural Gas	0.313	0.204	0.386	0.391	0.386	0.384	0.397	0.437	0.469	0.519	0.523	0.550	0.583
Steam Coal	4.488	4.691	4.940	5.077	5.098	5.246	5.380	5.465	5.491	5.545	5.609	5.641	5.666
Nuclear Power	1.529	1.490	1.645	1.612	1.618	1.619	1.628	1.629	1.630	1.631	1.632	1.633	1.633
Renewable Energy/Other 15/ Electricity Imports	0.094 -0.003	0.096 -0.013	0.098 -0.011	0.103 -0.013	0.109 -0.019	0.112 -0.013	0.114 -0.017	0.119 -0.020	0.120 -0.026	0.122 -0.044	0.124 -0.049	0.128 -0.045	0.130 -0.048
Total	6.449	6.505	7.104	7.217	7.236	7.393	7.549	7.678	7.733	7.822	7.888	7.957	8.014
Total Energy Consumption													
Distillate Fuel	1.075	1.107	1.153	1.188	1.206	1.231	1.263	1.292	1.310	1.329	1.346	1.361	1.381
Kerosene	0.005	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Jet Fuel 9/	0.320	0.312	0.328	0.335	0.343	0.352	0.357	0.364	0.374	0.383	0.389	0.393	0.398
Liquefied Petroleum Gas	0.253	0.246	0.251	0.243	0.243	0.247	0.252	0.256	0.258	0.261	0.264	0.266	0.269
Motor Gasoline 2/	2.655	2.681	2.732	2.757	2.785	2.826	2.871	2.916	2.953	2.986	3.019	3.051	3.085
Petrochemical Feedstocks	0.187	0.201	0.196	0.206	0.206	0.207	0.213	0.217	0.220	0.221	0.222	0.221	0.222
Residual Fuel	0.021	0.022	0.024	0.024	0.035	0.035	0.035	0.036	0.037	0.037	0.037	0.037	0.037
Other Petroleum 12/ Petroleum Subtotal	0.680 5.196	0.660 5.235	0.682 5.373	0.678 5.438	0.735 5.561	0.729 5.636	0.729 5.728	0.735 5.823	0.729 5.889	0.727 5.952	0.719 6.004	0.713 6.051	0.712 6.111
Natural Gas	3.746	3.647	3.750	3.777	3.793	3.846	3.933	4.029	4.124	4.220	4.259	4.299	4.350

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.018	0.018	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011
Pipeline Natural Gas	0.068	0.064	0.068	0.067	0.065	0.065	0.065	0.066	0.066	0.066	0.067	0.067	0.067
Natural Gas Subtotal	3.832	3.730	3.829	3.855	3.869	3.920	4.008	4.104	4.200	4.297	4.336	4.377	4.427
Metallurgical Coal	0.323	0.331	0.346	0.327	0.315	0.304	0.294	0.283	0.271	0.264	0.256	0.249	0.242
Steam Coal	4.842	5.052	5.302	5.443	5.457	5.605	5.742	5.827	5.853	5.908	5.971	6.002	6.027
Net Coal Coke Imports	0.045	0.038	0.081	0.061	0.050	0.044	0.042	0.039	0.032	0.031	0.030	0.027	0.025
Coal Subtotal	5.210	5.421	5.729	5.831	5.823	5.953	6.077	6.149	6.157	6.203	6.257	6.278	6.295
Nuclear Power	1.529	1.490	1.645	1.612	1.618	1.619	1.628	1.629	1.630	1.631	1.632	1.633	1.633
Renewable Energy 16/	0.399	0.405	0.421	0.434	0.442	0.448	0.456	0.466	0.470	0.476	0.481	0.488	0.494
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	-0.003	-0.013	-0.011	-0.013	-0.019	-0.013	-0.017	-0.020	-0.026	-0.044	-0.049	-0.045	-0.048
Total	16.163	16.268	16.986	17.158	17.293	17.563	17.880	18.151	18.320	18.515	18.660	18.782	18.912
Energy Use & Related Statistics													
Delivered Energy Use	11.680	11.697	11.856	11.990	12.136	12.286	12.494	12.676	12.822	12.957	13.066	13.143	13.244
Total Energy Use	16.163	16.268	16.986	17.158	17.293	17.563	17.880	18.151	18.320	18.515	18.660	18.782	18.912
Population (millions)	45.734	45.928	46.116	46.298	46.475	46.648	46.814	46.981	47.146	47.309	47.472	47.634	47.795

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.051	0.050	0.048	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.036	-2.1%
Kerosene	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1.8%
Liquefied Petroleum Gas	0.144	0.146	0.147	0.148	0.149	0.150	0.151	0.151	0.152	0.154	0.154	0.8%
Petroleum Subtotal	0.200	0.201	0.200	0.200	0.200	0.200	0.199	0.198	0.197	0.197	0.196	0.1%
Natural Gas	1.576	1.578	1.574	1.571	1.566	1.564	1.554	1.551	1.550	1.553	1.547	0.1%
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-1.0%
Renewable Energy 1/	0.074	0.074	0.074	0.074	0.073	0.073	0.073	0.072	0.072	0.072	0.072	-0.3%
Electricity	0.744	0.753	0.759	0.766	0.773	0.782	0.787	0.795	0.804	0.814	0.821	1.3%
Delivered Energy	2.596	2.609	2.609	2.614	2.614	2.621	2.615	2.619	2.625	2.639	2.638	0.4%
Electricity Related Losses	1.779	1.791	1.808	1.809	1.813	1.804	1.793	1.782	1.780	1.793	1.800	0.9%
Total	4.375	4.400	4.417	4.423	4.428	4.425	4.408	4.401	4.405	4.432	4.438	0.6%
Commercial												
Distillate Fuel	0.093	0.096	0.099	0.102	0.105	0.108	0.111	0.114	0.117	0.120	0.123	3.8%
Residual Fuel	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-0.5%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1.3%
Liquefied Petroleum Gas	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.4%
Motor Gasoline 2/	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.0%
Petroleum Subtotal	0.126	0.129	0.132	0.135	0.138	0.141	0.144	0.147	0.151	0.154	0.158	2.8%
Natural Gas	0.819	0.827	0.835	0.843	0.849	0.855	0.862	0.870	0.880	0.890	0.901	0.9%
Coal	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	-0.1%
Renewable Energy 3/	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.0%
Electricity	0.798	0.813	0.830	0.845	0.860	0.876	0.893	0.911	0.929	0.948	0.967	2.1%
Delivered Energy	1.782	1.808	1.836	1.862	1.886	1.911	1.937	1.967	1.998	2.031	2.064	1.5%
Electricity Related Losses	1.908	1.935	1.977	1.995	2.018	2.022	2.034	2.041	2.058	2.089	2.122	1.8%
Total	3.690	3.743	3.813	3.857	3.905	3.932	3.972	4.008	4.056	4.120	4.186	1.7%
Industrial 4/												
Distillate Fuel	0.153	0.153	0.154	0.156	0.157	0.158	0.159	0.161	0.162	0.163	0.165	0.5%
Liquefied Petroleum Gas	0.094	0.094	0.095	0.096	0.096	0.097	0.098	0.098	0.099	0.100	0.101	0.5%
Petrochemical Feedstocks	0.221	0.219	0.220	0.221	0.221	0.221	0.221	0.221	0.221	0.220	0.219	0.4%
Residual Fuel	0.030	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.032	3.6%
Motor Gasoline 2/	0.045	0.046	0.046	0.046	0.047	0.047	0.048	0.048	0.049	0.050	0.050	0.7%
Other Petroleum 5/	0.687	0.697	0.701	0.716	0.726	0.732	0.738	0.740	0.745	0.758	0.777	1.0%
Petroleum Subtotal	1.229	1.239	1.246	1.266	1.279	1.287	1.295	1.300	1.307	1.322	1.343	0.8%
Natural Gas	1.365	1.372	1.387	1.403	1.417	1.428	1.438	1.451	1.466	1.475	1.485	1.1%
Lease and Plant Fuel 6/	0.011	0.010	0.010	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	-2.7%
Natural Gas Subtotal	1.376	1.382	1.398	1.414	1.428	1.439	1.448	1.462	1.476	1.485	1.495	1.0%
Metallurgical Coal	0.235	0.229	0.223	0.216	0.210	0.204	0.199	0.193	0.188	0.183	0.178	-2.8%
Steam Coal	0.338	0.337	0.337	0.337	0.337	0.336	0.336	0.335	0.335	0.335	0.334	-0.1%
Net Coal Coke Imports	0.024	0.022	0.021	0.020	0.018	0.017	0.014	0.013	0.012	0.010	0.009	-6.4%
Coal Subtotal	0.597	0.588	0.580	0.573	0.565	0.557	0.549	0.542	0.535	0.528	0.521	-1.4%
Renewable Energy 7/	0.275	0.277	0.282	0.286	0.291	0.295	0.299	0.303	0.306	0.309	0.312	1.7%
Electricity	0.819	0.822	0.830	0.840	0.850	0.856	0.861	0.866	0.873	0.878	0.883	1.1%
Delivered Energy	4.295	4.308	4.336	4.379	4.413	4.435	4.453	4.472	4.496	4.522	4.554	0.7%
Electricity Related Losses	1.957	1.954	1.976	1.985	1.994	1.976	1.962	1.941	1.933	1.934	1.938	0.8%
Total	6.253	6.262	6.312	6.364	6.407	6.411	6.414	6.413	6.429	6.456	6.492	0.7%
Transportation												
Distillate Fuel 8/	1.051	1.060	1.074	1.088	1.100	1.112	1.121	1.132	1.146	1.159	1.171	1.7%
Jet Fuel 9/	0.401	0.404	0.407	0.410	0.413	0.415	0.416	0.416	0.416	0.416	0.415	1.3%
Motor Gasoline 2/	3.064	3.091	3.119	3.144	3.168	3.191	3.216	3.243	3.273	3.307	3.343	1.1%
Residual Fuel	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-1.0%
Liquefied Petroleum Gas	0.010	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012	5.3%

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/ Petroleum Subtotal	0.035 4.565	0.035 4.603	0.036 4.649	0.036 4.692	0.036 4.732	0.037 4.769	0.037 4.804	0.037 4.843	0.038 4.887	0.038 4.935	0.039 4.983	0.6% 1.2%
Pipeline Fuel Natural Gas	0.067	0.067	0.068	0.069	0.070	0.069	0.070	0.070	0.070	0.071	0.072	0.5%
Compressed Natural Gas	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.013	0.013	6.4%
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	6.1% N/A
Electricity	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.017	0.017	1.5%
Delivered Energy	4.657	4.697	4.744	4.788	4.829	4.866	4.902	4.942	4.987	5.036	5.085	1.2%
Electricity Related Losses	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	1.1%
Total	4.692	4.732	4.780	4.824	4.866	4.903	4.939	4.978	5.023	5.073	5.122	1.2%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	1.348	1.359	1.376	1.393	1.408	1.422	1.434	1.448	1.465	1.481	1.496	1.5%
Kerosene	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.3%
Jet Fuel 9/	0.401	0.404	0.407	0.410	0.413	0.415	0.416	0.416	0.416	0.416	0.415	1.3%
Liquefied Petroleum Gas	0.272	0.274	0.276	0.278	0.280	0.282	0.284	0.285	0.287	0.289	0.291	0.8%
Motor Gasoline 2/	3.116	3.144	3.172	3.197	3.222	3.245	3.270	3.298	3.329	3.364	3.400	1.1%
Petrochemical Feedstocks	0.221	0.219	0.220	0.221	0.221	0.221	0.221	0.221	0.221	0.220	0.219	0.4%
Residual Fuel	0.034	0.034	0.035	0.035	0.036	0.036	0.036	0.036	0.035	0.036	0.036	2.8%
Other Petroleum 12/ Petroleum Subtotal	0.720 6.120	0.731 6.172	0.734 6.228	0.750 6.293	0.761 6.349	0.767 6.397	0.773 6.442	0.776 6.488	0.781 6.542	0.794 6.608	0.813 6.679	1.0% 1.1%
Natural Gas	3.771	3.787	3.808	3.829	3.844	3.859	3.866	3.885	3.908	3.931	3.945	0.6%
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.011 0.067	0.010 0.067	0.010 0.068	0.011 0.069	0.011 0.070	0.011 0.069	0.011 0.070	0.010 0.070	0.010 0.070	0.010 0.071	0.010 0.072	-2.7% 0.5%
Natural Gas Subtotal	3.849	3.865	3.886	3.909	3.924	3.939	3.946	3.965	3.989	4.012	4.027	0.6%
Metallurgical Coal	0.235	0.229	0.223	0.216	0.210	0.204	0.199	0.193	0.188	0.183	0.178	-2.8%
Steam Coal	0.360	0.360	0.360	0.359	0.359	0.359	0.358	0.358	0.357	0.357	0.357	-0.1%
Net Coal Coke Imports	0.024	0.022	0.021	0.020	0.018	0.017	0.014	0.013	0.012	0.010	0.009	-6.4%
Coal Subtotal	0.619	0.611	0.603	0.595	0.587	0.580	0.571	0.564	0.557	0.550	0.543	-1.3%
Renewable Energy 13/ Liquid Hydrogen	0.368 0.000	0.370 0.000	0.374 0.000	0.379 0.000	0.383 0.000	0.387 0.000	0.391 0.000	0.394 0.000	0.397 0.000	0.400 0.000	0.402 0.000	1.2% N/A
Electricity	2.375	2.403	2.433	2.466	2.498	2.530	2.557	2.589	2.622	2.658	2.688	1.5%
Delivered Energy	13.331	13.421	13.524	13.643	13.742	13.834	13.907	13.999	14.107	14.228	14.341	0.9%
Electricity Related Losses	5.679	5.715	5.797	5.825	5.862	5.837	5.825	5.800	5.807	5.853	5.897	1.2%
Total	19.010	19.136	19.321	19.468	19.605	19.671	19.732	19.800	19.914	20.081	20.238	1.0%
Electric Power 14/												
Distillate Fuel	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	1.5%
Residual Fuel	0.003	0.003	0.003	0.003	0.008	0.008	0.008	0.008	0.008	0.008	0.008	5.1%
Petroleum Subtotal	0.051	0.050	0.051	0.051	0.056	0.056	0.056	0.056	0.055	0.055	0.056	1.9%
Natural Gas	0.623	0.659	0.728	0.774	0.821	0.834	0.855	0.874	0.923	0.972	1.020	7.6%
Steam Coal	5.678	5.684	5.711	5.722	5.737	5.732	5.724	5.713	5.717	5.726	5.751	0.9%
Nuclear Power	1.633	1.654	1.654	1.654	1.654	1.654	1.654	1.654	1.654	1.654	1.654	0.5%
Renewable Energy/Other 15/ Electricity Imports	0.129 -0.059	0.129 -0.058	0.129 -0.043	0.131 -0.040	0.131 -0.039	0.134 -0.043	0.135 -0.043	0.134 -0.043	0.125 -0.046	0.130 -0.027	0.136 -0.031	1.6% 4.1%
Total	8.054	8.118	8.230	8.292	8.360	8.368	8.382	8.389	8.429	8.511	8.586	1.3%
Total Energy Consumption												
Distillate Fuel	1.396	1.406	1.423	1.440	1.456	1.471	1.482	1.496	1.512	1.529	1.544	1.5%
Kerosene	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	1.3%
Jet Fuel 9/	0.401	0.404	0.407	0.410	0.413	0.415	0.416	0.416	0.416	0.416	0.415	1.3%
Liquefied Petroleum Gas	0.272	0.274	0.276	0.278	0.280	0.282	0.284	0.285	0.287	0.289	0.291	0.8%
Motor Gasoline 2/	3.116	3.144	3.172	3.197	3.222	3.245	3.270	3.298	3.329	3.364	3.400	1.1%
Petrochemical Feedstocks	0.221	0.219	0.220	0.221	0.221	0.221	0.221	0.221	0.221	0.220	0.219	0.4%
Residual Fuel	0.037	0.037	0.038	0.038	0.043	0.043	0.043	0.043	0.043	0.043	0.044	3.1%
Other Petroleum 12/ Petroleum Subtotal	0.720 6.170	0.731 6.222	0.734 6.278	0.750 6.344	0.761 6.405	0.767 6.453	0.773 6.498	0.776 6.543	0.781 6.597	0.794 6.664	0.813 6.735	1.0% 1.2%
Natural Gas	4.394	4.446	4.536	4.603	4.665	4.693	4.721	4.759	4.832	4.903	4.966	1.4%

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.011	0.010	0.010	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	-2.7%
Pipeline Natural Gas	0.067	0.067	0.068	0.069	0.070	0.069	0.070	0.070	0.070	0.071	0.072	0.5%
Natural Gas Subtotal	4.472	4.524	4.615	4.683	4.745	4.774	4.802	4.839	4.912	4.984	5.047	1.4%
Metallurgical Coal	0.235	0.229	0.223	0.216	0.210	0.204	0.199	0.193	0.188	0.183	0.178	-2.8%
Steam Coal	6.038	6.044	6.070	6.082	6.096	6.090	6.082	6.071	6.074	6.083	6.108	0.9%
Net Coal Coke Imports	0.024	0.022	0.021	0.020	0.018	0.017	0.014	0.013	0.012	0.010	0.009	-6.4%
Coal Subtotal	6.297	6.295	6.313	6.318	6.324	6.312	6.295	6.277	6.274	6.276	6.294	0.7%
Nuclear Power	1.633	1.654	1.654	1.654	1.654	1.654	1.654	1.654	1.654	1.654	1.654	0.5%
Renewable Energy 16/	0.497	0.499	0.503	0.509	0.514	0.522	0.526	0.528	0.522	0.530	0.538	1.3%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	-0.059	-0.058	-0.043	-0.040	-0.039	-0.043	-0.043	-0.043	-0.046	-0.027	-0.031	4.1%
Total	19.010	19.136	19.321	19.468	19.605	19.671	19.732	19.800	19.914	20.081	20.238	1.0%
Energy Use & Related Statistics												
Delivered Energy Use	13.331	13.421	13.524	13.643	13.742	13.834	13.907	13.999	14.107	14.228	14.341	0.9%
Total Energy Use	19.010	19.136	19.321	19.468	19.605	19.671	19.732	19.800	19.914	20.081	20.238	1.0%
Population (millions)	47.955	48.112	48.267	48.419	48.569	48.717	48.865	49.015	49.166	49.318	49.473	0.3%

Table 3. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East North Central

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.024	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002
Liquefied Petroleum Gas	0.115	0.109	0.113	0.103	0.104	0.106	0.108	0.110	0.111	0.112	0.113	0.114	0.115
Petroleum Subtotal	0.140	0.132	0.136	0.125	0.127	0.129	0.131	0.133	0.134	0.136	0.137	0.137	0.138
Natural Gas	0.471	0.478	0.476	0.484	0.488	0.495	0.506	0.511	0.518	0.522	0.526	0.525	0.523
Coal	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
Renewable Energy 1/	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Electricity	0.320	0.320	0.319	0.336	0.342	0.350	0.357	0.362	0.368	0.374	0.382	0.387	0.393
Delivered Energy	0.955	0.955	0.956	0.971	0.982	0.999	1.019	1.032	1.045	1.057	1.070	1.074	1.080
Electricity Related Losses	0.806	0.854	0.843	0.890	0.916	0.949	0.954	0.943	0.942	0.938	0.937	0.937	0.935
Total	1.761	1.809	1.799	1.861	1.898	1.948	1.973	1.975	1.987	1.995	2.007	2.011	2.015
Commercial													
Distillate Fuel	0.028	0.029	0.031	0.031	0.033	0.035	0.037	0.039	0.040	0.041	0.042	0.043	0.044
Residual Fuel	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquefied Petroleum Gas	0.017	0.016	0.016	0.016	0.016	0.017	0.017	0.016	0.016	0.017	0.017	0.017	0.017
Motor Gasoline 2/	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Petroleum Subtotal	0.055	0.056	0.056	0.056	0.058	0.061	0.063	0.065	0.066	0.067	0.068	0.069	0.070
Natural Gas	0.301	0.298	0.297	0.291	0.294	0.298	0.304	0.308	0.313	0.316	0.318	0.320	0.321
Coal	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Electricity	0.299	0.298	0.300	0.313	0.321	0.330	0.338	0.345	0.353	0.361	0.369	0.377	0.385
Delivered Energy	0.671	0.670	0.672	0.679	0.691	0.707	0.723	0.737	0.749	0.762	0.773	0.784	0.793
Electricity Related Losses	0.754	0.795	0.793	0.828	0.858	0.895	0.902	0.899	0.903	0.904	0.906	0.913	0.916
Total	1.425	1.466	1.465	1.506	1.549	1.602	1.625	1.636	1.653	1.666	1.679	1.696	1.709
Industrial 4/													
Distillate Fuel	0.142	0.144	0.143	0.144	0.145	0.145	0.146	0.146	0.146	0.146	0.146	0.146	0.147
Liquefied Petroleum Gas	0.118	0.112	0.114	0.115	0.114	0.114	0.116	0.117	0.117	0.118	0.119	0.119	0.120
Petrochemical Feedstocks	0.023	0.025	0.024	0.026	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.028	0.028
Residual Fuel	0.008	0.010	0.010	0.010	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Motor Gasoline 2/	0.040	0.040	0.041	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042
Other Petroleum 5/	0.251	0.242	0.250	0.247	0.264	0.261	0.261	0.263	0.261	0.260	0.258	0.256	0.256
Petroleum Subtotal	0.582	0.573	0.582	0.583	0.602	0.600	0.603	0.607	0.605	0.606	0.605	0.604	0.607
Natural Gas	0.428	0.410	0.421	0.429	0.443	0.448	0.456	0.463	0.474	0.480	0.484	0.488	0.493
Lease and Plant Fuel 6/	0.041	0.041	0.040	0.041	0.040	0.039	0.039	0.041	0.042	0.044	0.047	0.048	0.048
Natural Gas Subtotal	0.469	0.451	0.461	0.470	0.483	0.487	0.496	0.504	0.516	0.524	0.530	0.536	0.541
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.213	0.227	0.237	0.240	0.234	0.235	0.235	0.236	0.236	0.236	0.235	0.235	0.235
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.213	0.227	0.237	0.240	0.234	0.235	0.235	0.236	0.236	0.236	0.235	0.235	0.235
Renewable Energy 7/	0.088	0.087	0.096	0.098	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.106	0.107
Electricity	0.258	0.255	0.267	0.274	0.277	0.280	0.285	0.290	0.293	0.296	0.298	0.300	0.303
Delivered Energy	1.610	1.593	1.644	1.665	1.695	1.701	1.720	1.739	1.753	1.766	1.774	1.780	1.794
Electricity Related Losses	0.649	0.679	0.706	0.724	0.741	0.760	0.761	0.755	0.750	0.741	0.732	0.726	0.722
Total	2.259	2.272	2.349	2.388	2.437	2.461	2.481	2.494	2.504	2.507	2.506	2.506	2.515
Transportation													
Distillate Fuel 8/	0.467	0.477	0.502	0.521	0.530	0.542	0.559	0.574	0.585	0.596	0.606	0.614	0.625
Jet Fuel 9/	0.138	0.134	0.141	0.145	0.149	0.152	0.155	0.158	0.162	0.165	0.168	0.170	0.172
Motor Gasoline 2/	1.242	1.254	1.279	1.295	1.321	1.350	1.379	1.406	1.430	1.450	1.470	1.490	1.510
Residual Fuel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Liquefied Petroleum Gas	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.016 1.867	0.018 1.887	0.018 1.943	0.018 1.982	0.018 2.022	0.018 2.067	0.018 2.116	0.018 2.162	0.018 2.201	0.019 2.236	0.019 2.268	0.019 2.299	0.019 2.332
Pipeline Fuel Natural Gas	0.099	0.094	0.099	0.099	0.097	0.094	0.093	0.092	0.092	0.093	0.093	0.093	0.094
Compressed Natural Gas	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Delivered Energy	1.972	1.988	2.049	2.089	2.127	2.170	2.218	2.265	2.304	2.340	2.373	2.404	2.439
Electricity Related Losses	0.013	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Total	1.985	2.002	2.063	2.103	2.141	2.186	2.233	2.280	2.319	2.354	2.388	2.419	2.454
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.661	0.673	0.698	0.718	0.730	0.745	0.764	0.782	0.793	0.805	0.815	0.825	0.837
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Jet Fuel 9/	0.138	0.134	0.141	0.145	0.149	0.152	0.155	0.158	0.162	0.165	0.168	0.170	0.172
Liquefied Petroleum Gas	0.252	0.239	0.245	0.237	0.237	0.241	0.244	0.247	0.249	0.251	0.253	0.255	0.257
Motor Gasoline 2/	1.289	1.302	1.327	1.342	1.367	1.397	1.426	1.454	1.477	1.498	1.518	1.538	1.559
Petrochemical Feedstocks	0.023	0.025	0.024	0.026	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.028	0.028
Residual Fuel	0.011	0.013	0.013	0.012	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Other Petroleum 12/ Petroleum Subtotal	0.267 2.643	0.260 2.648	0.268 2.718	0.264 2.746	0.281 2.808	0.279 2.858	0.279 2.913	0.281 2.967	0.279 3.006	0.279 3.045	0.276 3.078	0.275 3.109	0.275 3.147
Natural Gas	1.200	1.187	1.197	1.207	1.228	1.245	1.269	1.287	1.309	1.323	1.333	1.338	1.344
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.041 0.099	0.041 0.094	0.040 0.099	0.041 0.099	0.040 0.097	0.039 0.094	0.039 0.093	0.041 0.092	0.042 0.092	0.044 0.093	0.047 0.093	0.048 0.093	0.048 0.094
Natural Gas Subtotal	1.340	1.322	1.335	1.347	1.364	1.378	1.402	1.420	1.443	1.460	1.473	1.479	1.486
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.228	0.243	0.253	0.256	0.250	0.250	0.251	0.251	0.252	0.251	0.251	0.250	0.250
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.228	0.243	0.253	0.256	0.250	0.250	0.251	0.251	0.252	0.251	0.251	0.250	0.250
Renewable Energy 13/ Liquid Hydrogen	0.115 0.000	0.114 0.000	0.123 0.000	0.126 0.000	0.126 0.000	0.127 0.000	0.129 0.000	0.130 0.000	0.131 0.000	0.132 0.000	0.133 0.000	0.133 0.000	0.135 0.000
Electricity	0.881	0.879	0.890	0.928	0.946	0.965	0.986	1.004	1.020	1.037	1.055	1.070	1.088
Delivered Energy	5.207	5.207	5.320	5.404	5.495	5.578	5.680	5.772	5.851	5.924	5.990	6.042	6.105
Electricity Related Losses	2.222	2.342	2.356	2.455	2.531	2.619	2.631	2.612	2.611	2.598	2.590	2.590	2.588
Total	7.429	7.549	7.676	7.859	8.025	8.197	8.312	8.384	8.462	8.523	8.580	8.633	8.693
Electric Power 14/													
Distillate Fuel	0.019	0.023	0.021	0.023	0.023	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.026
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001
Petroleum Subtotal	0.019	0.024	0.021	0.023	0.023	0.024	0.024	0.024	0.025	0.025	0.026	0.026	0.027
Natural Gas	0.076	0.068	0.117	0.115	0.111	0.111	0.113	0.123	0.129	0.140	0.154	0.163	0.178
Steam Coal	2.379	2.532	2.486	2.594	2.690	2.792	2.825	2.816	2.827	2.833	2.834	2.835	2.836
Nuclear Power	0.474	0.461	0.473	0.474	0.474	0.474	0.474	0.474	0.474	0.475	0.475	0.475	0.475
Renewable Energy/Other 15/ Electricity Imports	0.140 0.016	0.147 -0.010	0.157 -0.009	0.187 -0.010	0.193 -0.015	0.194 -0.010	0.194 -0.013	0.195 -0.016	0.196 -0.020	0.196 -0.034	0.196 -0.039	0.196 -0.035	0.196 -0.037
Total	3.103	3.221	3.246	3.384	3.477	3.584	3.617	3.616	3.630	3.635	3.645	3.660	3.675
Total Energy Consumption													
Distillate Fuel	0.680	0.697	0.719	0.741	0.753	0.768	0.788	0.806	0.817	0.829	0.840	0.850	0.863
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Jet Fuel 9/	0.138	0.134	0.141	0.145	0.149	0.152	0.155	0.158	0.162	0.165	0.168	0.170	0.172
Liquefied Petroleum Gas	0.252	0.239	0.245	0.237	0.237	0.241	0.244	0.247	0.249	0.251	0.253	0.255	0.257
Motor Gasoline 2/	1.289	1.302	1.327	1.342	1.367	1.397	1.426	1.454	1.477	1.498	1.518	1.538	1.559
Petrochemical Feedstocks	0.023	0.025	0.024	0.026	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.028	0.028
Residual Fuel	0.012	0.014	0.013	0.012	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.018	0.018
Other Petroleum 12/ Petroleum Subtotal	0.267 2.663	0.260 2.672	0.268 2.740	0.264 2.769	0.281 2.832	0.279 2.882	0.279 2.937	0.281 2.991	0.279 3.030	0.279 3.069	0.276 3.103	0.275 3.135	0.275 3.174
Natural Gas	1.276	1.255	1.314	1.323	1.339	1.355	1.382	1.409	1.438	1.463	1.487	1.502	1.522

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.041	0.041	0.040	0.041	0.040	0.039	0.039	0.041	0.042	0.044	0.047	0.048	0.048
Pipeline Natural Gas	0.099	0.094	0.099	0.099	0.097	0.094	0.093	0.092	0.092	0.093	0.093	0.093	0.094
Natural Gas Subtotal	1.416	1.390	1.453	1.462	1.475	1.489	1.515	1.543	1.573	1.600	1.627	1.643	1.664
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	2.606	2.775	2.739	2.850	2.940	3.042	3.076	3.067	3.079	3.085	3.085	3.086	3.087
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	2.606	2.775	2.739	2.850	2.940	3.042	3.076	3.067	3.079	3.085	3.085	3.086	3.087
Nuclear Power	0.474	0.461	0.473	0.474	0.474	0.474	0.474	0.474	0.474	0.475	0.475	0.475	0.475
Renewable Energy 16/	0.255	0.261	0.281	0.313	0.319	0.321	0.323	0.325	0.326	0.328	0.329	0.329	0.331
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.016	-0.010	-0.009	-0.010	-0.015	-0.010	-0.013	-0.016	-0.020	-0.034	-0.039	-0.035	-0.037
Total	7.429	7.549	7.676	7.859	8.025	8.197	8.312	8.384	8.462	8.523	8.580	8.633	8.693
Energy Use & Related Statistics													
Delivered Energy Use	5.207	5.207	5.320	5.404	5.495	5.578	5.680	5.772	5.851	5.924	5.990	6.042	6.105
Total Energy Use	7.429	7.549	7.676	7.859	8.025	8.197	8.312	8.384	8.462	8.523	8.580	8.633	8.693
Population (millions)	19.506	19.608	19.712	19.814	19.913	20.011	20.105	20.200	20.293	20.386	20.478	20.570	20.661

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.022	0.022	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.020	0.020	-0.5%
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	2.8%
Liquefied Petroleum Gas	0.116	0.116	0.116	0.117	0.117	0.117	0.117	0.118	0.118	0.118	0.119	0.4%
Petroleum Subtotal	0.139	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.141	0.141	0.3%
Natural Gas	0.522	0.523	0.523	0.523	0.522	0.522	0.519	0.518	0.517	0.518	0.516	0.4%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.9%
Renewable Energy 1/	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.0%
Electricity	0.399	0.405	0.410	0.415	0.420	0.427	0.431	0.437	0.443	0.450	0.455	1.6%
Delivered Energy	1.085	1.093	1.097	1.102	1.107	1.114	1.114	1.119	1.125	1.134	1.137	0.8%
Electricity Related Losses	0.950	0.968	0.969	0.975	0.976	0.982	0.980	0.983	1.002	1.032	1.045	0.9%
Total	2.035	2.062	2.066	2.078	2.083	2.095	2.095	2.102	2.127	2.165	2.182	0.9%
Commercial												
Distillate Fuel	0.045	0.046	0.047	0.047	0.048	0.049	0.050	0.051	0.052	0.053	0.054	2.8%
Residual Fuel	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-1.8%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.5%
Liquefied Petroleum Gas	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.2%
Motor Gasoline 2/	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	-0.1%
Petroleum Subtotal	0.071	0.072	0.073	0.074	0.074	0.075	0.076	0.077	0.078	0.079	0.080	1.7%
Natural Gas	0.322	0.324	0.326	0.328	0.330	0.330	0.331	0.333	0.335	0.337	0.339	0.6%
Coal	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	-0.1%
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.393	0.401	0.409	0.417	0.426	0.434	0.443	0.452	0.461	0.471	0.481	2.2%
Delivered Energy	0.803	0.814	0.826	0.837	0.847	0.858	0.868	0.880	0.892	0.905	0.919	1.4%
Electricity Related Losses	0.934	0.957	0.968	0.981	0.989	0.999	1.007	1.017	1.045	1.081	1.106	1.5%
Total	1.738	1.771	1.793	1.818	1.836	1.856	1.875	1.897	1.937	1.986	2.025	1.5%
Industrial 4/												
Distillate Fuel	0.149	0.149	0.150	0.151	0.153	0.154	0.155	0.156	0.158	0.159	0.160	0.5%
Liquefied Petroleum Gas	0.121	0.121	0.122	0.123	0.124	0.125	0.126	0.127	0.128	0.129	0.129	0.7%
Petrochemical Feedstocks	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.4%
Residual Fuel	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.014	0.014	0.015	1.9%
Motor Gasoline 2/	0.042	0.042	0.043	0.043	0.043	0.044	0.044	0.045	0.045	0.046	0.047	0.7%
Other Petroleum 5/	0.259	0.263	0.265	0.270	0.275	0.278	0.281	0.283	0.285	0.291	0.298	0.9%
Petroleum Subtotal	0.613	0.616	0.621	0.630	0.637	0.643	0.648	0.652	0.658	0.666	0.676	0.8%
Natural Gas	0.494	0.497	0.503	0.510	0.514	0.517	0.520	0.525	0.530	0.532	0.538	1.2%
Lease and Plant Fuel 6/	0.048	0.044	0.043	0.048	0.050	0.050	0.047	0.046	0.047	0.047	0.047	0.7%
Natural Gas Subtotal	0.541	0.540	0.546	0.557	0.564	0.567	0.568	0.571	0.576	0.580	0.585	1.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.234	0.234	0.234	0.234	0.233	0.233	0.233	0.233	0.232	0.232	0.232	0.1%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.234	0.234	0.234	0.234	0.233	0.233	0.233	0.233	0.232	0.232	0.232	0.1%
Renewable Energy 7/	0.108	0.108	0.109	0.111	0.112	0.113	0.114	0.115	0.116	0.117	0.117	1.4%
Electricity	0.305	0.307	0.310	0.314	0.317	0.320	0.321	0.323	0.325	0.328	0.330	1.2%
Delivered Energy	1.801	1.806	1.820	1.845	1.863	1.875	1.884	1.894	1.908	1.922	1.940	0.9%
Electricity Related Losses	0.726	0.732	0.733	0.738	0.737	0.735	0.730	0.727	0.737	0.751	0.758	0.5%
Total	2.528	2.538	2.553	2.583	2.601	2.610	2.614	2.621	2.645	2.673	2.698	0.8%
Transportation												
Distillate Fuel 8/	0.633	0.639	0.649	0.659	0.667	0.676	0.683	0.691	0.700	0.710	0.718	1.9%
Jet Fuel 9/	0.174	0.175	0.177	0.179	0.181	0.182	0.182	0.183	0.183	0.184	0.184	1.4%
Motor Gasoline 2/	1.529	1.546	1.563	1.579	1.594	1.609	1.625	1.642	1.661	1.681	1.703	1.4%
Residual Fuel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.8%
Liquefied Petroleum Gas	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	4.9%

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/	0.019	0.020	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.022	0.022	1.0%
Petroleum Subtotal	2.361	2.386	2.415	2.443	2.469	2.494	2.518	2.544	2.573	2.604	2.634	1.5%
Pipeline Fuel Natural Gas	0.094	0.094	0.096	0.098	0.100	0.101	0.101	0.101	0.102	0.102	0.102	0.4%
Compressed Natural Gas	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	8.2%
Renewable Energy (E85) 11/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.4%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	1.6%
Delivered Energy	2.469	2.494	2.526	2.556	2.584	2.610	2.634	2.661	2.690	2.721	2.752	1.5%
Electricity Related Losses	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.9%
Total	2.484	2.510	2.541	2.571	2.600	2.625	2.650	2.677	2.707	2.738	2.769	1.5%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	0.848	0.855	0.867	0.879	0.890	0.900	0.909	0.919	0.931	0.942	0.953	1.6%
Kerosene	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	1.8%
Jet Fuel 9/	0.174	0.175	0.177	0.179	0.181	0.182	0.182	0.183	0.183	0.184	0.184	1.4%
Liquefied Petroleum Gas	0.258	0.259	0.260	0.262	0.264	0.265	0.266	0.267	0.268	0.270	0.271	0.6%
Motor Gasoline 2/	1.578	1.595	1.613	1.629	1.645	1.660	1.677	1.694	1.713	1.734	1.756	1.4%
Petrochemical Feedstocks	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.4%
Residual Fuel	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	1.2%
Other Petroleum 12/	0.278	0.282	0.284	0.290	0.295	0.298	0.301	0.303	0.306	0.312	0.319	0.9%
Petroleum Subtotal	3.183	3.214	3.248	3.286	3.321	3.352	3.382	3.413	3.449	3.490	3.531	1.3%
Natural Gas	1.344	1.350	1.359	1.368	1.373	1.377	1.378	1.384	1.390	1.396	1.402	0.8%
Lease and Plant Fuel 6/	0.048	0.044	0.043	0.048	0.050	0.050	0.047	0.046	0.047	0.047	0.047	0.7%
Pipeline Natural Gas	0.094	0.094	0.096	0.098	0.100	0.101	0.101	0.101	0.102	0.102	0.102	0.4%
Natural Gas Subtotal	1.486	1.489	1.499	1.514	1.523	1.528	1.527	1.531	1.539	1.545	1.551	0.7%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.250	0.249	0.249	0.249	0.249	0.248	0.248	0.248	0.248	0.247	0.247	0.1%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.250	0.249	0.249	0.249	0.249	0.248	0.248	0.248	0.248	0.247	0.247	0.1%
Renewable Energy 13/	0.136	0.136	0.137	0.138	0.140	0.141	0.142	0.142	0.143	0.144	0.145	1.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity	1.104	1.119	1.135	1.152	1.169	1.187	1.202	1.219	1.237	1.256	1.273	1.7%
Delivered Energy	6.158	6.207	6.268	6.340	6.402	6.457	6.501	6.554	6.616	6.683	6.748	1.2%
Electricity Related Losses	2.625	2.673	2.685	2.709	2.718	2.731	2.733	2.744	2.800	2.881	2.926	1.0%
Total	8.784	8.880	8.953	9.049	9.120	9.187	9.234	9.297	9.416	9.563	9.674	1.1%
Electric Power 14/												
Distillate Fuel	0.027	0.027	0.027	0.027	0.028	0.029	0.028	0.028	0.029	0.030	0.036	1.9%
Residual Fuel	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.0%
Petroleum Subtotal	0.027	0.027	0.028	0.028	0.028	0.029	0.029	0.029	0.030	0.031	0.036	1.9%
Natural Gas	0.182	0.184	0.197	0.201	0.205	0.205	0.200	0.203	0.204	0.202	0.196	4.9%
Steam Coal	2.895	2.955	2.956	2.992	3.013	3.044	3.066	3.089	3.162	3.246	3.314	1.2%
Nuclear Power	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.1%
Renewable Energy/Other 15/	0.196	0.196	0.196	0.196	0.196	0.198	0.198	0.200	0.202	0.203	0.203	1.5%
Electricity Imports	-0.047	-0.046	-0.033	-0.031	-0.030	-0.034	-0.033	-0.034	-0.036	-0.021	-0.024	4.1%
Total	3.729	3.792	3.820	3.861	3.888	3.918	3.936	3.963	4.037	4.136	4.199	1.2%
Total Energy Consumption												
Distillate Fuel	0.874	0.882	0.894	0.907	0.918	0.929	0.937	0.947	0.960	0.973	0.989	1.6%
Kerosene	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	1.8%
Jet Fuel 9/	0.174	0.175	0.177	0.179	0.181	0.182	0.182	0.183	0.183	0.184	0.184	1.4%
Liquefied Petroleum Gas	0.258	0.259	0.260	0.262	0.264	0.265	0.266	0.267	0.268	0.270	0.271	0.6%
Motor Gasoline 2/	1.578	1.595	1.613	1.629	1.645	1.660	1.677	1.694	1.713	1.734	1.756	1.4%
Petrochemical Feedstocks	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.4%
Residual Fuel	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	1.1%
Other Petroleum 12/	0.278	0.282	0.284	0.290	0.295	0.298	0.301	0.303	0.306	0.312	0.319	0.9%
Petroleum Subtotal	3.211	3.241	3.276	3.314	3.349	3.382	3.411	3.442	3.479	3.520	3.567	1.3%
Natural Gas	1.526	1.535	1.557	1.570	1.578	1.582	1.578	1.587	1.594	1.599	1.598	1.1%

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.048	0.044	0.043	0.048	0.050	0.050	0.047	0.046	0.047	0.047	0.047	0.7%
Pipeline Natural Gas	0.094	0.094	0.096	0.098	0.100	0.101	0.101	0.101	0.102	0.102	0.102	0.4%
Natural Gas Subtotal	1.668	1.673	1.696	1.716	1.728	1.733	1.727	1.734	1.742	1.748	1.747	1.0%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	3.145	3.204	3.205	3.241	3.262	3.293	3.314	3.336	3.410	3.494	3.561	1.1%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	3.145	3.204	3.205	3.241	3.262	3.293	3.314	3.336	3.410	3.494	3.561	1.1%
Nuclear Power	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.1%
Renewable Energy 16/	0.332	0.332	0.333	0.334	0.336	0.339	0.340	0.343	0.345	0.347	0.347	1.3%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	-0.047	-0.046	-0.033	-0.031	-0.030	-0.034	-0.033	-0.034	-0.036	-0.021	-0.024	4.1%
Total	8.784	8.880	8.953	9.049	9.120	9.187	9.234	9.297	9.416	9.563	9.674	1.1%
Energy Use & Related Statistics												
Delivered Energy Use	6.158	6.207	6.268	6.340	6.402	6.457	6.501	6.554	6.616	6.683	6.748	1.2%
Total Energy Use	8.784	8.880	8.953	9.049	9.120	9.187	9.234	9.297	9.416	9.563	9.674	1.1%
Population (millions)	20.751	20.840	20.928	21.014	21.099	21.183	21.266	21.350	21.434	21.519	21.604	0.4%

Table 4. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West North Central

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.090	0.092	0.086	0.082	0.082	0.082	0.082	0.081	0.081	0.080	0.079	0.078	0.077
Kerosene	0.019	0.023	0.025	0.027	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027
Liquefied Petroleum Gas	0.090	0.090	0.093	0.085	0.087	0.090	0.092	0.094	0.096	0.098	0.100	0.102	0.103
Petroleum Subtotal	0.199	0.205	0.204	0.195	0.195	0.198	0.201	0.202	0.203	0.205	0.206	0.206	0.207
Natural Gas	0.455	0.493	0.492	0.512	0.531	0.551	0.573	0.587	0.603	0.617	0.631	0.641	0.650
Coal	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/ Electricity	0.056 1.072	0.060 1.090	0.059 1.115	0.059 1.148	0.059 1.174	0.059 1.209	0.059 1.246	0.059 1.275	0.059 1.304	0.059 1.333	0.059 1.364	0.059 1.388	0.059 1.415
Delivered Energy	1.782	1.850	1.872	1.916	1.961	2.018	2.079	2.124	2.171	2.215	2.262	2.295	2.332
Electricity Related Losses	2.143	2.142	2.067	2.105	2.142	2.188	2.239	2.282	2.317	2.331	2.364	2.384	2.399
Total	3.926	3.992	3.939	4.021	4.104	4.205	4.318	4.406	4.488	4.546	4.626	4.679	4.731
Commercial													
Distillate Fuel	0.087	0.091	0.093	0.091	0.094	0.098	0.101	0.104	0.107	0.109	0.111	0.113	0.115
Residual Fuel	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Kerosene	0.004	0.005	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007
Liquefied Petroleum Gas	0.015	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016
Motor Gasoline 2/ Petroleum Subtotal	0.006 0.118	0.006 0.122	0.006 0.124	0.006 0.122	0.006 0.127	0.006 0.131	0.006 0.134	0.006 0.137	0.006 0.140	0.006 0.142	0.006 0.144	0.006 0.146	0.006 0.149
Natural Gas	0.352	0.363	0.362	0.363	0.374	0.387	0.400	0.410	0.420	0.429	0.437	0.445	0.452
Coal	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Renewable Energy 3/ Electricity	0.016 0.906	0.019 0.909	0.019 0.937	0.019 0.959	0.019 0.990	0.019 1.028	0.019 1.064	0.019 1.099	0.019 1.133	0.019 1.167	0.019 1.201	0.019 1.235	0.019 1.269
Delivered Energy	1.403	1.425	1.454	1.475	1.522	1.576	1.629	1.678	1.724	1.769	1.813	1.857	1.901
Electricity Related Losses	1.811	1.786	1.737	1.758	1.807	1.860	1.913	1.968	2.013	2.041	2.081	2.121	2.152
Total	3.214	3.211	3.191	3.233	3.329	3.436	3.543	3.646	3.737	3.809	3.894	3.978	4.053
Industrial 4/													
Distillate Fuel	0.147	0.153	0.154	0.155	0.153	0.153	0.153	0.154	0.154	0.154	0.154	0.155	0.157
Liquefied Petroleum Gas	0.056	0.054	0.056	0.058	0.057	0.057	0.058	0.059	0.059	0.060	0.061	0.061	0.062
Petrochemical Feedstocks	0.132	0.147	0.144	0.153	0.152	0.153	0.157	0.161	0.164	0.166	0.168	0.170	0.172
Residual Fuel	0.083	0.122	0.126	0.124	0.117	0.116	0.115	0.118	0.119	0.119	0.120	0.122	0.124
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.055 0.380 0.852	0.055 0.380 0.911	0.056 0.402 0.938	0.056 0.397 0.942	0.055 0.379 0.913	0.056 0.375 0.909	0.056 0.373 0.913	0.056 0.375 0.923	0.056 0.375 0.926	0.056 0.374 0.933	0.057 0.377 0.940	0.057 0.380 0.946	0.058 0.381 0.958
Natural Gas	0.597	0.546	0.548	0.561	0.574	0.579	0.592	0.599	0.606	0.612	0.616	0.618	0.619
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.014 0.611	0.014 0.560	0.010 0.558	0.010 0.572	0.010 0.586	0.014 0.593	0.015 0.608	0.016 0.615	0.015 0.621	0.016 0.627	0.016 0.631	0.016 0.633	0.017 0.636
Metallurgical Coal	0.060	0.061	0.064	0.061	0.058	0.056	0.054	0.053	0.050	0.049	0.047	0.046	0.045
Steam Coal	0.296	0.293	0.289	0.294	0.295	0.297	0.299	0.299	0.300	0.301	0.300	0.300	0.300
Net Coal Coke Imports	0.005	0.004	0.012	0.011	0.010	0.010	0.010	0.011	0.009	0.010	0.010	0.010	0.011
Coal Subtotal	0.361	0.358	0.365	0.366	0.364	0.363	0.363	0.362	0.360	0.359	0.358	0.357	0.356
Renewable Energy 7/ Electricity	0.489 0.550	0.496 0.555	0.521 0.579	0.533 0.592	0.536 0.594	0.542 0.599	0.550 0.611	0.558 0.623	0.562 0.628	0.567 0.637	0.573 0.645	0.578 0.651	0.584 0.661
Delivered Energy	2.863	2.881	2.961	3.005	2.992	3.005	3.044	3.081	3.097	3.124	3.148	3.165	3.195
Electricity Related Losses	1.100	1.091	1.073	1.086	1.083	1.083	1.098	1.115	1.116	1.113	1.118	1.119	1.121
Total	3.963	3.972	4.034	4.091	4.076	4.088	4.142	4.196	4.213	4.237	4.266	4.283	4.316
Transportation													
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.951 0.341 3.312 0.087	0.972 0.333 3.344 0.083	1.021 0.350 3.409 0.074	1.068 0.361 3.465 0.075	1.096 0.371 3.542 0.075	1.130 0.381 3.635 0.076	1.173 0.388 3.733 0.076	1.214 0.397 3.832 0.076	1.246 0.408 3.922 0.077	1.279 0.418 4.007 0.077	1.309 0.426 4.091 0.077	1.337 0.433 4.177 0.078	1.370 0.440 4.264 0.078
Liquefied Petroleum Gas	0.004	0.004	0.005	0.006	0.008	0.009	0.009	0.010	0.011	0.011	0.012	0.012	0.013

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.038 4.732	0.042 4.777	0.043 4.900	0.043 5.018	0.043 5.136	0.044 5.274	0.044 5.424	0.045 5.574	0.046 5.709	0.046 5.838	0.047 5.962	0.048 6.084	0.049 6.212
Pipeline Fuel Natural Gas	0.075	0.071	0.066	0.068	0.068	0.070	0.073	0.074	0.076	0.077	0.079	0.080	0.081
Compressed Natural Gas	0.003	0.004	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.012	0.013
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.001 0.000	0.001 0.000
Electricity	0.014	0.014	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019
Delivered Energy	4.823	4.867	4.986	5.107	5.226	5.368	5.522	5.674	5.812	5.943	6.071	6.195	6.326
Electricity Related Losses	0.028	0.028	0.027	0.028	0.028	0.029	0.029	0.030	0.031	0.031	0.031	0.032	0.032
Total	4.852	4.895	5.014	5.135	5.255	5.397	5.551	5.704	5.843	5.974	6.102	6.227	6.358
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.275	1.308	1.354	1.396	1.424	1.462	1.510	1.554	1.587	1.621	1.653	1.682	1.718
Kerosene	0.024	0.031	0.033	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
Jet Fuel 9/	0.341	0.333	0.350	0.361	0.371	0.381	0.388	0.397	0.408	0.418	0.426	0.433	0.440
Liquefied Petroleum Gas	0.164	0.161	0.168	0.164	0.168	0.170	0.174	0.178	0.181	0.185	0.188	0.190	0.194
Motor Gasoline 2/	3.372	3.405	3.471	3.527	3.604	3.697	3.795	3.894	3.985	4.070	4.155	4.240	4.328
Petrochemical Feedstocks	0.132	0.147	0.144	0.153	0.152	0.153	0.157	0.161	0.164	0.166	0.168	0.170	0.172
Residual Fuel	0.176	0.210	0.205	0.203	0.197	0.197	0.196	0.199	0.201	0.202	0.203	0.204	0.207
Other Petroleum 12/ Petroleum Subtotal	0.416 5.901	0.421 6.015	0.442 6.167	0.438 6.278	0.420 6.371	0.416 6.512	0.415 6.671	0.418 6.836	0.417 6.978	0.422 7.118	0.425 7.253	0.427 7.382	0.432 7.526
Natural Gas	1.407	1.406	1.408	1.442	1.485	1.525	1.573	1.606	1.639	1.668	1.695	1.715	1.735
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.014 0.075	0.014 0.071	0.010 0.066	0.010 0.068	0.012 0.068	0.014 0.070	0.015 0.073	0.016 0.074	0.015 0.076	0.016 0.077	0.016 0.079	0.016 0.080	0.017 0.081
Natural Gas Subtotal	1.496	1.492	1.484	1.520	1.566	1.609	1.662	1.696	1.730	1.761	1.790	1.811	1.833
Metallurgical Coal	0.060	0.061	0.064	0.061	0.058	0.056	0.054	0.053	0.050	0.049	0.047	0.046	0.045
Steam Coal	0.308	0.306	0.302	0.308	0.309	0.310	0.312	0.312	0.313	0.314	0.313	0.313	0.313
Net Coal Coke Imports	0.005	0.004	0.012	0.011	0.010	0.010	0.010	0.011	0.009	0.010	0.010	0.010	0.011
Coal Subtotal	0.373	0.371	0.378	0.379	0.377	0.376	0.376	0.376	0.373	0.372	0.371	0.369	0.369
Renewable Energy 13/ Liquid Hydrogen	0.561 0.000	0.576 0.000	0.599 0.000	0.611 0.000	0.614 0.000	0.620 0.000	0.628 0.000	0.636 0.000	0.640 0.000	0.645 0.000	0.652 0.000	0.656 0.000	0.662 0.000
Electricity	2.541	2.569	2.646	2.715	2.774	2.851	2.937	3.014	3.083	3.154	3.228	3.293	3.364
Delivered Energy	10.871	11.023	11.274	11.503	11.702	11.967	12.275	12.557	12.804	13.051	13.293	13.512	13.753
Electricity Related Losses	5.083	5.047	4.903	4.977	5.061	5.160	5.279	5.395	5.476	5.515	5.594	5.655	5.705
Total	15.954	16.070	16.177	16.480	16.763	17.126	17.554	17.952	18.280	18.566	18.888	19.167	19.458
Electric Power 14/													
Distillate Fuel	0.048	0.094	0.113	0.119	0.121	0.126	0.131	0.132	0.133	0.133	0.135	0.139	0.142
Residual Fuel	0.377	0.413	0.431	0.431	0.426	0.426	0.424	0.425	0.424	0.425	0.425	0.425	0.429
Petroleum Subtotal	0.424	0.507	0.544	0.550	0.547	0.552	0.555	0.558	0.557	0.557	0.559	0.564	0.571
Natural Gas	0.742	0.699	0.590	0.607	0.627	0.650	0.712	0.772	0.856	0.924	1.007	1.087	1.142
Steam Coal	4.171	4.154	4.099	4.177	4.290	4.430	4.551	4.671	4.719	4.757	4.806	4.826	4.847
Nuclear Power	2.061	2.021	2.073	2.087	2.088	2.089	2.094	2.094	2.098	2.101	2.120	2.141	2.166
Renewable Energy/Other 15/ Electricity Imports	0.226 0.000	0.236 0.000	0.244 0.000	0.270 0.000	0.282 0.000	0.289 0.000	0.304 0.000	0.314 0.000	0.329 0.000	0.331 0.000	0.330 0.000	0.330 0.000	0.342 0.000
Total	7.624	7.616	7.550	7.692	7.835	8.010	8.216	8.409	8.559	8.670	8.822	8.948	9.069
Total Energy Consumption													
Distillate Fuel	1.323	1.402	1.467	1.515	1.546	1.589	1.641	1.686	1.720	1.754	1.788	1.821	1.860
Kerosene	0.024	0.031	0.033	0.036	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
Jet Fuel 9/	0.341	0.333	0.350	0.361	0.371	0.381	0.388	0.397	0.408	0.418	0.426	0.433	0.440
Liquefied Petroleum Gas	0.164	0.161	0.168	0.164	0.168	0.170	0.174	0.178	0.181	0.185	0.188	0.190	0.194
Motor Gasoline 2/	3.372	3.405	3.471	3.527	3.604	3.697	3.795	3.894	3.985	4.070	4.155	4.240	4.328
Petrochemical Feedstocks	0.132	0.147	0.144	0.153	0.152	0.153	0.157	0.161	0.164	0.166	0.168	0.170	0.172
Residual Fuel	0.552	0.623	0.636	0.635	0.623	0.623	0.620	0.625	0.625	0.626	0.628	0.629	0.636
Other Petroleum 12/ Petroleum Subtotal	0.416 6.325	0.421 6.522	0.442 6.711	0.438 6.918	0.420 7.064	0.416 7.266	0.415 7.466	0.418 7.666	0.417 7.866	0.422 8.066	0.425 8.266	0.427 8.466	0.432 8.666
Natural Gas	2.148	2.104	1.997	2.048	2.112	2.175	2.285	2.378	2.494	2.592	2.702	2.802	2.877

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.014	0.014	0.010	0.010	0.012	0.014	0.015	0.016	0.015	0.016	0.016	0.016	0.017
Pipeline Natural Gas	0.075	0.071	0.066	0.068	0.068	0.070	0.073	0.074	0.076	0.077	0.079	0.080	0.081
Natural Gas Subtotal	2.238	2.190	2.074	2.126	2.193	2.259	2.373	2.468	2.586	2.685	2.797	2.898	2.975
Metallurgical Coal	0.060	0.061	0.064	0.061	0.058	0.056	0.054	0.053	0.050	0.049	0.047	0.046	0.045
Steam Coal	4.479	4.460	4.401	4.485	4.599	4.740	4.863	4.984	5.032	5.071	5.119	5.139	5.160
Net Coal Coke Imports	0.005	0.004	0.012	0.011	0.010	0.010	0.010	0.011	0.009	0.010	0.010	0.010	0.011
Coal Subtotal	4.544	4.525	4.478	4.557	4.667	4.806	4.928	5.047	5.092	5.129	5.177	5.196	5.216
Nuclear Power	2.061	2.021	2.073	2.087	2.088	2.089	2.094	2.094	2.098	2.101	2.120	2.141	2.166
Renewable Energy 16/	0.787	0.812	0.843	0.881	0.897	0.909	0.932	0.949	0.969	0.976	0.981	0.986	1.005
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	15.954	16.070	16.177	16.480	16.763	17.126	17.554	17.952	18.280	18.566	18.888	19.167	19.458
Energy Use & Related Statistics													
Delivered Energy Use	10.871	11.023	11.274	11.503	11.702	11.967	12.275	12.557	12.804	13.051	13.293	13.512	13.753
Total Energy Use	15.954	16.070	16.177	16.480	16.763	17.126	17.554	17.952	18.280	18.566	18.888	19.167	19.458
Population (millions)	53.680	54.453	55.189	55.921	56.651	57.376	58.094	58.815	59.534	60.252	60.970	61.688	62.404

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.075	0.074	0.072	0.070	0.067	0.065	0.063	0.060	0.058	0.055	0.053	-2.5%
Kerosene	0.026	0.026	0.026	0.025	0.025	0.024	0.024	0.023	0.023	0.022	0.022	-0.3%
Liquefied Petroleum Gas	0.105	0.107	0.108	0.110	0.111	0.113	0.114	0.115	0.116	0.118	0.119	1.3%
Petroleum Subtotal	0.207	0.207	0.206	0.205	0.203	0.202	0.200	0.198	0.197	0.195	0.193	-0.3%
Natural Gas	0.660	0.672	0.680	0.689	0.697	0.708	0.716	0.726	0.737	0.750	0.757	2.0%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-1.3%
Renewable Energy 1/	0.059	0.059	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	-0.2%
Electricity	1.441	1.469	1.491	1.515	1.540	1.568	1.590	1.616	1.643	1.674	1.697	2.0%
Delivered Energy	2.367	2.408	2.436	2.469	2.500	2.538	2.565	2.599	2.636	2.678	2.706	1.7%
Electricity Related Losses	2.397	2.404	2.392	2.374	2.362	2.349	2.337	2.330	2.316	2.309	2.292	0.3%
Total	4.764	4.811	4.829	4.843	4.862	4.887	4.902	4.929	4.952	4.987	4.999	1.0%
Commercial												
Distillate Fuel	0.117	0.119	0.121	0.123	0.125	0.127	0.129	0.132	0.134	0.136	0.139	1.9%
Residual Fuel	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	-0.3%
Kerosene	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	1.0%
Liquefied Petroleum Gas	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	1.0%
Motor Gasoline 2/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.4%
Petroleum Subtotal	0.151	0.153	0.156	0.158	0.160	0.162	0.164	0.167	0.169	0.172	0.174	1.6%
Natural Gas	0.460	0.468	0.477	0.485	0.493	0.500	0.509	0.518	0.529	0.539	0.550	1.9%
Coal	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.0%
Renewable Energy 3/	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.0%
Electricity	1.304	1.340	1.378	1.412	1.447	1.483	1.521	1.561	1.602	1.645	1.689	2.9%
Delivered Energy	1.945	1.992	2.041	2.086	2.130	2.176	2.225	2.277	2.331	2.387	2.443	2.5%
Electricity Related Losses	2.169	2.193	2.210	2.212	2.220	2.222	2.237	2.250	2.259	2.269	2.281	1.1%
Total	4.114	4.185	4.251	4.298	4.351	4.398	4.461	4.527	4.589	4.656	4.725	1.8%
Industrial 4/												
Distillate Fuel	0.158	0.159	0.160	0.162	0.164	0.166	0.167	0.169	0.170	0.172	0.173	0.6%
Liquefied Petroleum Gas	0.062	0.062	0.063	0.064	0.065	0.065	0.066	0.066	0.067	0.067	0.067	1.0%
Petrochemical Feedstocks	0.172	0.172	0.174	0.176	0.178	0.179	0.181	0.182	0.183	0.184	0.185	1.1%
Residual Fuel	0.126	0.125	0.126	0.129	0.131	0.133	0.134	0.133	0.133	0.133	0.134	0.4%
Motor Gasoline 2/	0.059	0.059	0.059	0.060	0.061	0.061	0.062	0.062	0.063	0.063	0.064	0.6%
Other Petroleum 5/	0.387	0.386	0.389	0.394	0.400	0.405	0.409	0.411	0.413	0.416	0.419	0.4%
Petroleum Subtotal	0.964	0.962	0.972	0.985	0.999	1.010	1.019	1.023	1.029	1.035	1.043	0.6%
Natural Gas	0.619	0.623	0.629	0.635	0.640	0.644	0.649	0.655	0.662	0.668	0.674	1.0%
Lease and Plant Fuel 6/	0.017	0.016	0.017	0.018	0.018	0.018	0.017	0.018	0.017	0.017	0.018	0.9%
Natural Gas Subtotal	0.636	0.639	0.647	0.653	0.658	0.662	0.666	0.673	0.679	0.686	0.692	1.0%
Metallurgical Coal	0.044	0.042	0.041	0.040	0.039	0.038	0.037	0.036	0.035	0.034	0.033	-2.8%
Steam Coal	0.300	0.300	0.301	0.301	0.302	0.302	0.302	0.302	0.303	0.303	0.304	0.2%
Net Coal Coke Imports	0.011	0.012	0.013	0.013	0.014	0.015	0.015	0.016	0.016	0.017	0.017	6.8%
Coal Subtotal	0.355	0.354	0.354	0.355	0.355	0.354	0.354	0.354	0.354	0.354	0.354	-0.1%
Renewable Energy 7/	0.591	0.594	0.602	0.611	0.621	0.629	0.637	0.645	0.652	0.659	0.665	1.3%
Electricity	0.667	0.670	0.679	0.690	0.698	0.706	0.713	0.720	0.729	0.738	0.746	1.4%
Delivered Energy	3.213	3.220	3.255	3.294	3.330	3.361	3.389	3.415	3.444	3.473	3.500	0.9%
Electricity Related Losses	1.110	1.096	1.090	1.081	1.071	1.057	1.048	1.038	1.028	1.018	1.008	-0.4%
Total	4.322	4.316	4.345	4.375	4.401	4.419	4.437	4.453	4.472	4.491	4.508	0.6%
Transportation												
Distillate Fuel 8/	1.398	1.421	1.453	1.485	1.515	1.545	1.571	1.600	1.633	1.665	1.697	2.6%
Jet Fuel 9/	0.446	0.452	0.458	0.465	0.471	0.476	0.480	0.483	0.487	0.490	0.492	1.8%
Motor Gasoline 2/	4.349	4.430	4.512	4.591	4.669	4.747	4.828	4.913	5.004	5.102	5.203	2.0%
Residual Fuel	0.078	0.078	0.079	0.079	0.079	0.079	0.080	0.080	0.080	0.080	0.081	-0.1%
Liquefied Petroleum Gas	0.013	0.014	0.014	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.017	6.6%

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/	0.049	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.058	0.059	1.6%
Petroleum Subtotal	6.333	6.445	6.567	6.687	6.803	6.916	7.030	7.149	7.277	7.412	7.548	2.1%
Pipeline Fuel Natural Gas	0.082	0.083	0.084	0.084	0.085	0.084	0.083	0.083	0.082	0.083	0.083	0.7%
Compressed Natural Gas	0.013	0.014	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	7.3%
Renewable Energy (E85) 11/	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	7.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	N/A
Electricity	0.019	0.020	0.020	0.021	0.021	0.021	0.022	0.022	0.023	0.023	0.024	2.3%
Delivered Energy	6.448	6.562	6.687	6.808	6.925	7.039	7.152	7.272	7.401	7.538	7.675	2.1%
Electricity Related Losses	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.6%
Total	6.480	6.594	6.719	6.840	6.957	7.071	7.185	7.304	7.433	7.570	7.708	2.1%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	1.748	1.773	1.807	1.840	1.872	1.903	1.931	1.961	1.995	2.029	2.061	2.1%
Kerosene	0.035	0.035	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.031	0.030	0.0%
Jet Fuel 9/	0.446	0.452	0.458	0.465	0.471	0.476	0.480	0.483	0.487	0.490	0.492	1.8%
Liquefied Petroleum Gas	0.196	0.199	0.202	0.204	0.207	0.210	0.212	0.214	0.216	0.218	0.220	1.4%
Motor Gasoline 2/	4.413	4.495	4.578	4.657	4.736	4.815	4.896	4.981	5.073	5.171	5.273	2.0%
Petrochemical Feedstocks	0.172	0.172	0.174	0.176	0.178	0.179	0.181	0.182	0.183	0.184	0.185	1.1%
Residual Fuel	0.210	0.209	0.210	0.213	0.216	0.218	0.219	0.218	0.218	0.219	0.220	0.2%
Other Petroleum 12/	0.434	0.434	0.438	0.444	0.451	0.457	0.462	0.465	0.468	0.472	0.476	0.6%
Petroleum Subtotal	7.655	7.768	7.901	8.034	8.165	8.291	8.413	8.537	8.672	8.814	8.958	1.8%
Natural Gas	1.752	1.777	1.801	1.824	1.845	1.869	1.890	1.916	1.945	1.975	1.999	1.6%
Lease and Plant Fuel 6/	0.017	0.016	0.017	0.018	0.018	0.018	0.017	0.018	0.017	0.017	0.018	0.9%
Pipeline Natural Gas	0.082	0.083	0.084	0.084	0.085	0.084	0.083	0.083	0.082	0.083	0.083	0.7%
Natural Gas Subtotal	1.850	1.876	1.902	1.926	1.948	1.970	1.990	2.016	2.044	2.075	2.100	1.6%
Metallurgical Coal	0.044	0.042	0.041	0.040	0.039	0.038	0.037	0.036	0.035	0.034	0.033	-2.8%
Steam Coal	0.313	0.313	0.314	0.314	0.314	0.315	0.315	0.315	0.316	0.316	0.316	0.2%
Net Coal Coke Imports	0.011	0.012	0.013	0.013	0.014	0.015	0.015	0.016	0.016	0.017	0.017	6.8%
Coal Subtotal	0.368	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	-0.1%
Renewable Energy 13/	0.669	0.673	0.681	0.689	0.699	0.707	0.715	0.723	0.730	0.737	0.743	1.2%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	N/A
Electricity	3.431	3.499	3.568	3.638	3.706	3.779	3.846	3.920	3.998	4.081	4.157	2.2%
Delivered Energy	13.973	14.182	14.419	14.656	14.886	15.115	15.331	15.563	15.811	16.075	16.325	1.8%
Electricity Related Losses	5.708	5.724	5.725	5.699	5.686	5.660	5.654	5.651	5.635	5.629	5.614	0.5%
Total	19.681	19.907	20.144	20.355	20.571	20.775	20.985	21.213	21.446	21.704	21.939	1.4%
Electric Power 14/												
Distillate Fuel	0.146	0.146	0.149	0.150	0.151	0.156	0.163	0.153	0.154	0.152	0.151	2.2%
Residual Fuel	0.429	0.428	0.415	0.390	0.391	0.389	0.389	0.388	0.387	0.385	0.384	-0.3%
Petroleum Subtotal	0.575	0.575	0.564	0.540	0.542	0.545	0.552	0.541	0.540	0.537	0.535	0.2%
Natural Gas	1.178	1.232	1.281	1.318	1.361	1.392	1.378	1.362	1.351	1.360	1.359	3.1%
Steam Coal	4.862	4.890	4.920	4.944	4.948	4.958	5.021	5.115	5.190	5.267	5.339	1.1%
Nuclear Power	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	0.3%
Renewable Energy/Other 15/	0.350	0.352	0.353	0.362	0.367	0.370	0.374	0.377	0.377	0.372	0.363	2.0%
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.1%
Total	9.139	9.223	9.293	9.338	9.392	9.440	9.500	9.570	9.633	9.710	9.771	1.1%
Total Energy Consumption												
Distillate Fuel	1.894	1.919	1.956	1.990	2.023	2.060	2.094	2.114	2.149	2.181	2.212	2.1%
Kerosene	0.035	0.035	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.031	0.030	0.0%
Jet Fuel 9/	0.446	0.452	0.458	0.465	0.471	0.476	0.480	0.483	0.487	0.490	0.492	1.8%
Liquefied Petroleum Gas	0.196	0.199	0.202	0.204	0.207	0.210	0.212	0.214	0.216	0.218	0.220	1.4%
Motor Gasoline 2/	4.413	4.495	4.578	4.657	4.736	4.815	4.896	4.981	5.073	5.171	5.273	2.0%
Petrochemical Feedstocks	0.172	0.172	0.174	0.176	0.178	0.179	0.181	0.182	0.183	0.184	0.185	1.1%
Residual Fuel	0.639	0.637	0.625	0.603	0.607	0.607	0.608	0.606	0.605	0.604	0.603	-0.1%
Other Petroleum 12/	0.434	0.434	0.438	0.444	0.451	0.457	0.462	0.465	0.468	0.472	0.476	0.6%
Petroleum Subtotal	8.230	8.342	8.465	8.574	8.707	8.836	8.965	9.078	9.212	9.352	9.493	1.7%
Natural Gas	2.930	3.010	3.083	3.142	3.206	3.261	3.268	3.279	3.297	3.335	3.359	2.1%

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.017	0.016	0.017	0.018	0.018	0.018	0.017	0.018	0.017	0.017	0.018	0.9%
Pipeline Natural Gas	0.082	0.083	0.084	0.084	0.085	0.084	0.083	0.083	0.082	0.083	0.083	0.7%
Natural Gas Subtotal	3.028	3.108	3.184	3.244	3.309	3.362	3.369	3.380	3.396	3.436	3.460	2.1%
Metallurgical Coal	0.044	0.042	0.041	0.040	0.039	0.038	0.037	0.036	0.035	0.034	0.033	-2.8%
Steam Coal	5.174	5.203	5.234	5.258	5.262	5.273	5.336	5.431	5.505	5.583	5.656	1.1%
Net Coal Coke Imports	0.011	0.012	0.013	0.013	0.014	0.015	0.015	0.016	0.016	0.017	0.017	6.8%
Coal Subtotal	5.229	5.257	5.287	5.311	5.315	5.325	5.388	5.482	5.556	5.634	5.706	1.1%
Nuclear Power	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	0.3%
Renewable Energy 16/	1.019	1.025	1.033	1.051	1.066	1.077	1.089	1.099	1.107	1.109	1.106	1.4%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	N/A
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.1%
Total	19.681	19.907	20.144	20.355	20.571	20.775	20.985	21.213	21.446	21.704	21.939	1.4%
Energy Use & Related Statistics												
Delivered Energy Use	13.973	14.182	14.419	14.656	14.886	15.115	15.331	15.563	15.811	16.075	16.325	1.8%
Total Energy Use	19.681	19.907	20.144	20.355	20.571	20.775	20.985	21.213	21.446	21.704	21.939	1.4%
Population (millions)	63.117	63.828	64.534	65.236	65.934	66.627	67.319	68.010	68.701	69.393	70.084	1.2%

Table 5. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) South Atlantic

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Kerosene	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Liquefied Petroleum Gas	0.048	0.045	0.046	0.041	0.041	0.042	0.042	0.042	0.042	0.043	0.043	0.043	0.043
Petroleum Subtotal	0.054	0.052	0.053	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.050	0.050	0.050
Natural Gas	0.210	0.220	0.216	0.223	0.226	0.231	0.236	0.239	0.242	0.244	0.245	0.245	0.245
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Electricity	0.374	0.362	0.361	0.368	0.370	0.375	0.381	0.385	0.388	0.392	0.396	0.398	0.401
Delivered Energy	0.664	0.660	0.655	0.665	0.670	0.680	0.692	0.699	0.705	0.711	0.717	0.719	0.721
Electricity Related Losses	0.922	0.883	0.921	0.965	0.980	1.016	1.031	1.022	1.029	1.029	1.026	1.026	1.033
Total	1.586	1.543	1.576	1.631	1.650	1.696	1.724	1.721	1.734	1.740	1.743	1.745	1.754
Commercial													
Distillate Fuel	0.019	0.020	0.022	0.022	0.023	0.025	0.027	0.028	0.029	0.030	0.032	0.033	0.034
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Liquefied Petroleum Gas	0.009	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Motor Gasoline 2/	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Petroleum Subtotal	0.030	0.030	0.032	0.032	0.034	0.036	0.037	0.039	0.040	0.041	0.043	0.044	0.045
Natural Gas	0.146	0.147	0.145	0.153	0.157	0.162	0.166	0.170	0.173	0.176	0.178	0.181	0.183
Coal	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Electricity	0.268	0.264	0.272	0.280	0.290	0.300	0.310	0.320	0.330	0.340	0.350	0.360	0.370
Delivered Energy	0.457	0.455	0.464	0.480	0.495	0.512	0.528	0.543	0.557	0.571	0.585	0.599	0.612
Electricity Related Losses	0.661	0.644	0.695	0.734	0.767	0.812	0.840	0.851	0.874	0.893	0.906	0.927	0.953
Total	1.118	1.099	1.159	1.214	1.261	1.324	1.368	1.394	1.431	1.464	1.491	1.526	1.566
Industrial 4/													
Distillate Fuel	0.066	0.069	0.069	0.070	0.069	0.069	0.069	0.069	0.069	0.069	0.070	0.070	0.071
Liquefied Petroleum Gas	0.054	0.052	0.055	0.056	0.055	0.055	0.056	0.057	0.057	0.058	0.058	0.059	0.059
Petrochemical Feedstocks	0.097	0.108	0.106	0.112	0.112	0.112	0.116	0.118	0.121	0.122	0.124	0.124	0.126
Residual Fuel	0.008	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.014	0.014	0.014	0.015	0.017
Motor Gasoline 2/	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027
Other Petroleum 5/	0.297	0.300	0.314	0.313	0.324	0.324	0.326	0.331	0.323	0.319	0.316	0.315	0.317
Petroleum Subtotal	0.548	0.565	0.581	0.588	0.597	0.598	0.604	0.614	0.609	0.608	0.609	0.609	0.617
Natural Gas	0.495	0.456	0.459	0.469	0.477	0.481	0.491	0.495	0.510	0.524	0.532	0.537	0.540
Lease and Plant Fuel 6/	0.026	0.026	0.021	0.022	0.022	0.023	0.023	0.022	0.021	0.021	0.020	0.019	0.020
Natural Gas Subtotal	0.522	0.482	0.479	0.491	0.499	0.504	0.513	0.517	0.531	0.545	0.552	0.556	0.559
Metallurgical Coal	0.065	0.066	0.069	0.066	0.063	0.061	0.059	0.057	0.054	0.053	0.051	0.050	0.049
Steam Coal	0.177	0.177	0.176	0.179	0.179	0.178	0.179	0.179	0.180	0.180	0.180	0.180	0.180
Net Coal Coke Imports	0.005	0.004	0.013	0.012	0.011	0.010	0.011	0.012	0.010	0.010	0.011	0.011	0.012
Coal Subtotal	0.247	0.248	0.258	0.257	0.251	0.249	0.249	0.248	0.244	0.243	0.242	0.241	0.240
Renewable Energy 7/	0.291	0.293	0.307	0.314	0.317	0.320	0.325	0.330	0.332	0.336	0.339	0.342	0.346
Electricity	0.404	0.408	0.425	0.435	0.436	0.441	0.450	0.459	0.463	0.469	0.475	0.480	0.487
Delivered Energy	2.012	1.996	2.050	2.085	2.100	2.112	2.142	2.168	2.180	2.201	2.217	2.229	2.250
Electricity Related Losses	0.996	0.996	1.085	1.140	1.155	1.194	1.218	1.219	1.226	1.233	1.232	1.237	1.257
Total	3.008	2.992	3.136	3.225	3.255	3.306	3.360	3.387	3.406	3.433	3.449	3.466	3.507
Transportation													
Distillate Fuel 8/	0.472	0.482	0.507	0.527	0.537	0.549	0.567	0.583	0.594	0.606	0.616	0.624	0.636
Jet Fuel 9/	0.162	0.158	0.166	0.171	0.175	0.180	0.184	0.188	0.194	0.199	0.203	0.205	0.208
Motor Gasoline 2/	1.118	1.129	1.151	1.167	1.188	1.214	1.240	1.265	1.287	1.306	1.326	1.345	1.364
Residual Fuel	0.014	0.013	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Liquefied Petroleum Gas	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.015 1.783	0.017 1.801	0.017 1.854	0.017 1.895	0.017 1.932	0.018 1.975	0.018 2.022	0.018 2.068	0.018 2.108	0.018 2.144	0.018 2.177	0.019 2.208	0.019 2.242
Pipeline Fuel Natural Gas	0.074	0.071	0.078	0.080	0.081	0.082	0.087	0.090	0.090	0.092	0.092	0.091	0.092
Compressed Natural Gas	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity Delivered Energy	0.005 1.862	0.005 1.878	0.005 1.939	0.005 1.982	0.005 2.020	0.005 2.065	0.005 2.118	0.005 2.168	0.005 2.207	0.005 2.246	0.005 2.280	0.005 2.310	0.006 2.346
Electricity Related Losses	0.011	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Total	1.874	1.889	1.951	1.995	2.032	2.078	2.132	2.181	2.221	2.260	2.294	2.324	2.360
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.561	0.575	0.601	0.621	0.632	0.646	0.666	0.684	0.696	0.708	0.720	0.730	0.743
Kerosene	0.004	0.005	0.005	0.006	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006
Jet Fuel 9/	0.162	0.158	0.166	0.171	0.175	0.180	0.184	0.188	0.194	0.199	0.203	0.205	0.208
Liquefied Petroleum Gas	0.111	0.107	0.110	0.108	0.107	0.107	0.109	0.110	0.111	0.112	0.113	0.113	0.114
Motor Gasoline 2/	1.144	1.156	1.178	1.194	1.215	1.240	1.267	1.292	1.314	1.334	1.353	1.372	1.392
Petrochemical Feedstocks	0.097	0.108	0.106	0.112	0.112	0.112	0.116	0.118	0.121	0.122	0.124	0.124	0.126
Residual Fuel	0.023	0.025	0.023	0.023	0.025	0.025	0.025	0.026	0.026	0.026	0.027	0.027	0.030
Other Petroleum 12/ Petroleum Subtotal	0.312 2.415	0.316 2.449	0.331 2.520	0.330 2.564	0.340 2.611	0.341 2.658	0.343 2.713	0.348 2.771	0.340 2.807	0.336 2.843	0.334 2.878	0.333 2.911	0.335 2.954
Natural Gas	0.852	0.823	0.822	0.847	0.862	0.876	0.896	0.907	0.929	0.948	0.960	0.968	0.974
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.026 0.074	0.026 0.071	0.021 0.078	0.022 0.080	0.022 0.081	0.023 0.082	0.023 0.087	0.022 0.090	0.021 0.090	0.021 0.092	0.020 0.092	0.019 0.091	0.020 0.092
Natural Gas Subtotal	0.953	0.921	0.920	0.948	0.965	0.981	1.006	1.020	1.039	1.060	1.073	1.079	1.086
Metallurgical Coal	0.065	0.066	0.069	0.066	0.063	0.061	0.059	0.057	0.054	0.053	0.051	0.050	0.049
Steam Coal	0.187	0.188	0.187	0.190	0.188	0.189	0.190	0.190	0.191	0.191	0.191	0.191	0.191
Net Coal Coke Imports	0.005	0.004	0.013	0.012	0.011	0.010	0.011	0.012	0.010	0.010	0.011	0.011	0.012
Coal Subtotal	0.257	0.259	0.269	0.268	0.262	0.260	0.260	0.259	0.255	0.254	0.253	0.252	0.251
Renewable Energy 13/ Liquid Hydrogen	0.319 0.000	0.322 0.000	0.336 0.000	0.344 0.000	0.346 0.000	0.350 0.000	0.355 0.000	0.360 0.000	0.362 0.000	0.365 0.000	0.369 0.000	0.372 0.000	0.376 0.000
Electricity Delivered Energy	1.051 4.996	1.038 4.988	1.062 5.108	1.088 5.212	1.101 5.285	1.121 5.369	1.146 5.480	1.169 5.577	1.186 5.649	1.206 5.729	1.226 5.799	1.243 5.856	1.263 5.930
Electricity Related Losses	2.590	2.535	2.714	2.852	2.914	3.036	3.103	3.105	3.143	3.168	3.178	3.205	3.257
Total	7.585	7.523	7.822	8.064	8.199	8.404	8.583	8.682	8.792	8.897	8.977	9.061	9.188
Electric Power 14/													
Distillate Fuel	0.024	0.034	0.021	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Residual Fuel	0.021	0.023	0.011	0.012	0.011	0.012	0.013	0.014	0.016	0.016	0.018	0.018	0.021
Petroleum Subtotal	0.045	0.057	0.032	0.034	0.034	0.036	0.037	0.038	0.040	0.040	0.042	0.042	0.046
Natural Gas	0.300	0.200	0.342	0.325	0.306	0.297	0.361	0.399	0.442	0.484	0.496	0.530	0.583
Steam Coal	2.360	2.388	2.456	2.596	2.669	2.736	2.763	2.748	2.758	2.762	2.769	2.769	2.785
Nuclear Power	0.714	0.699	0.722	0.734	0.745	0.828	0.828	0.828	0.828	0.828	0.835	0.845	0.845
Renewable Energy/Other 15/ Electricity Imports	0.221 0.000	0.229 0.000	0.224 0.000	0.250 0.000	0.261 0.000	0.261 0.000	0.261 0.000	0.261 0.000	0.261 0.000	0.261 0.000	0.261 0.000	0.261 0.000	0.261 0.000
Total	3.641	3.573	3.776	3.940	4.014	4.157	4.249	4.273	4.329	4.374	4.404	4.448	4.521
Total Energy Consumption													
Distillate Fuel	0.586	0.609	0.622	0.644	0.655	0.670	0.690	0.707	0.720	0.732	0.744	0.754	0.768
Kerosene	0.004	0.005	0.005	0.006	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006
Jet Fuel 9/	0.162	0.158	0.166	0.171	0.175	0.180	0.184	0.188	0.194	0.199	0.203	0.205	0.208
Liquefied Petroleum Gas	0.111	0.107	0.110	0.108	0.107	0.107	0.109	0.110	0.111	0.112	0.113	0.113	0.114
Motor Gasoline 2/	1.144	1.156	1.178	1.194	1.215	1.240	1.267	1.292	1.314	1.334	1.353	1.372	1.392
Petrochemical Feedstocks	0.097	0.108	0.106	0.112	0.112	0.112	0.116	0.118	0.121	0.122	0.124	0.124	0.126
Residual Fuel	0.044	0.047	0.034	0.035	0.036	0.037	0.038	0.040	0.042	0.042	0.044	0.045	0.051
Other Petroleum 12/ Petroleum Subtotal	0.312 2.460	0.316 2.506	0.331 2.551	0.330 2.599	0.340 2.645	0.341 2.693	0.343 2.750	0.348 2.809	0.340 2.846	0.336 2.883	0.334 2.920	0.333 2.953	0.335 3.000
Natural Gas	1.152	1.023	1.164	1.171	1.168	1.173	1.257	1.306	1.371	1.432	1.456	1.498	1.557

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.026	0.026	0.021	0.022	0.022	0.023	0.023	0.022	0.021	0.021	0.020	0.019	0.020
Pipeline Natural Gas	0.074	0.071	0.078	0.080	0.081	0.082	0.087	0.090	0.090	0.092	0.092	0.091	0.092
Natural Gas Subtotal	1.253	1.120	1.262	1.273	1.271	1.277	1.367	1.418	1.482	1.544	1.569	1.608	1.669
Metallurgical Coal	0.065	0.066	0.069	0.066	0.063	0.061	0.059	0.057	0.054	0.053	0.051	0.050	0.049
Steam Coal	2.547	2.576	2.643	2.786	2.857	2.925	2.952	2.939	2.949	2.953	2.960	2.960	2.976
Net Coal Coke Imports	0.005	0.004	0.013	0.012	0.011	0.010	0.011	0.012	0.010	0.010	0.011	0.011	0.012
Coal Subtotal	2.617	2.647	2.726	2.864	2.931	2.996	3.023	3.007	3.013	3.016	3.022	3.021	3.036
Nuclear Power	0.714	0.699	0.722	0.734	0.745	0.828	0.828	0.828	0.828	0.828	0.835	0.845	0.845
Renewable Energy 16/	0.541	0.551	0.560	0.594	0.607	0.610	0.616	0.621	0.623	0.627	0.630	0.633	0.637
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	7.585	7.523	7.822	8.064	8.199	8.404	8.583	8.682	8.792	8.897	8.977	9.061	9.188
Energy Use & Related Statistics													
Delivered Energy Use	4.996	4.988	5.108	5.212	5.285	5.369	5.480	5.577	5.649	5.729	5.799	5.856	5.930
Total Energy Use	7.585	7.523	7.822	8.064	8.199	8.404	8.583	8.682	8.792	8.897	8.977	9.061	9.188
Population (millions)	17.263	17.376	17.481	17.582	17.681	17.776	17.868	17.960	18.049	18.136	18.222	18.307	18.389

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	-2.1%
Kerosene	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	1.2%
Liquefied Petroleum Gas	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	-0.3%
Petroleum Subtotal	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.049	0.049	0.049	-0.3%
Natural Gas	0.244	0.245	0.244	0.244	0.243	0.243	0.241	0.240	0.240	0.240	0.238	0.4%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.9%
Renewable Energy 1/	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.024	0.024	0.024	-0.1%
Electricity	0.403	0.406	0.407	0.409	0.411	0.413	0.414	0.416	0.418	0.421	0.422	0.7%
Delivered Energy	0.723	0.727	0.728	0.729	0.730	0.732	0.731	0.732	0.733	0.736	0.735	0.5%
Electricity Related Losses	1.038	1.056	1.064	1.100	1.134	1.186	1.229	1.284	1.316	1.349	1.365	2.0%
Total	1.762	1.783	1.792	1.829	1.864	1.918	1.960	2.016	2.049	2.085	2.099	1.4%
Commercial												
Distillate Fuel	0.035	0.036	0.037	0.039	0.040	0.041	0.042	0.043	0.045	0.046	0.047	3.9%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.1%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1.4%
Liquefied Petroleum Gas	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.7%
Motor Gasoline 2/	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.6%
Petroleum Subtotal	0.046	0.047	0.049	0.050	0.051	0.052	0.053	0.055	0.056	0.057	0.059	3.1%
Natural Gas	0.186	0.189	0.193	0.195	0.198	0.201	0.204	0.207	0.211	0.215	0.219	1.8%
Coal	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.0%
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.380	0.391	0.402	0.413	0.425	0.436	0.448	0.461	0.474	0.487	0.501	3.0%
Delivered Energy	0.627	0.642	0.658	0.673	0.688	0.703	0.719	0.737	0.755	0.774	0.794	2.6%
Electricity Related Losses	0.979	1.016	1.051	1.111	1.172	1.250	1.330	1.422	1.491	1.561	1.622	4.3%
Total	1.605	1.658	1.708	1.784	1.860	1.954	2.049	2.158	2.246	2.335	2.416	3.6%
Industrial 4/												
Distillate Fuel	0.071	0.071	0.072	0.073	0.074	0.075	0.075	0.076	0.077	0.077	0.078	0.6%
Liquefied Petroleum Gas	0.060	0.060	0.061	0.061	0.062	0.063	0.063	0.064	0.064	0.064	0.065	1.0%
Petrochemical Feedstocks	0.127	0.126	0.128	0.129	0.131	0.132	0.133	0.134	0.134	0.135	0.136	1.1%
Residual Fuel	0.017	0.017	0.017	0.018	0.019	0.019	0.018	0.018	0.018	0.018	0.019	2.6%
Motor Gasoline 2/	0.027	0.027	0.028	0.028	0.028	0.028	0.029	0.029	0.029	0.029	0.030	0.6%
Other Petroleum 5/	0.323	0.328	0.334	0.341	0.348	0.354	0.358	0.360	0.363	0.368	0.373	1.0%
Petroleum Subtotal	0.624	0.630	0.639	0.651	0.662	0.671	0.676	0.680	0.685	0.693	0.700	1.0%
Natural Gas	0.539	0.543	0.548	0.551	0.555	0.558	0.563	0.568	0.573	0.577	0.581	1.1%
Lease and Plant Fuel 6/	0.018	0.017	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	-2.2%
Natural Gas Subtotal	0.558	0.560	0.565	0.568	0.572	0.575	0.579	0.584	0.589	0.593	0.597	1.0%
Metallurgical Coal	0.047	0.046	0.045	0.043	0.042	0.041	0.040	0.039	0.038	0.037	0.036	-2.8%
Steam Coal	0.180	0.180	0.180	0.180	0.181	0.181	0.181	0.181	0.181	0.182	0.182	0.1%
Net Coal Coke Imports	0.012	0.013	0.014	0.014	0.015	0.016	0.016	0.017	0.018	0.018	0.019	6.8%
Coal Subtotal	0.239	0.238	0.238	0.238	0.238	0.238	0.237	0.237	0.236	0.236	0.236	-0.2%
Renewable Energy 7/	0.350	0.352	0.357	0.363	0.369	0.374	0.379	0.384	0.388	0.393	0.396	1.4%
Electricity	0.492	0.494	0.501	0.509	0.515	0.521	0.526	0.531	0.537	0.543	0.549	1.4%
Delivered Energy	2.264	2.275	2.301	2.330	2.355	2.377	2.397	2.414	2.435	2.458	2.479	1.0%
Electricity Related Losses	1.266	1.284	1.309	1.369	1.422	1.493	1.560	1.637	1.689	1.740	1.776	2.7%
Total	3.530	3.559	3.610	3.699	3.777	3.871	3.956	4.052	4.124	4.198	4.255	1.6%
Transportation												
Distillate Fuel 8/	0.644	0.651	0.661	0.671	0.680	0.689	0.696	0.704	0.714	0.723	0.732	1.9%
Jet Fuel 9/	0.211	0.213	0.215	0.218	0.220	0.222	0.223	0.223	0.224	0.225	0.225	1.6%
Motor Gasoline 2/	1.382	1.399	1.416	1.432	1.447	1.462	1.478	1.494	1.513	1.533	1.553	1.5%
Residual Fuel	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.011	-0.7%
Liquefied Petroleum Gas	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	6.3%

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/ Petroleum Subtotal	0.019 2.272	0.019 2.297	0.020 2.327	0.020 2.356	0.020 2.383	0.020 2.408	0.021 2.433	0.021 2.458	0.021 2.487	0.022 2.518	0.022 2.548	1.1% 1.6%
Pipeline Fuel Natural Gas	0.093	0.091	0.093	0.093	0.094	0.092	0.091	0.091	0.091	0.092	0.094	1.3%
Compressed Natural Gas	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	8.6%
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	6.5% N/A
Electricity	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	1.6%
Delivered Energy	2.377	2.401	2.433	2.462	2.490	2.515	2.538	2.564	2.593	2.625	2.656	1.6%
Electricity Related Losses	0.014	0.015	0.015	0.016	0.016	0.017	0.018	0.019	0.020	0.021	0.021	2.9%
Total	2.391	2.416	2.448	2.478	2.507	2.532	2.556	2.583	2.613	2.645	2.677	1.6%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	0.754	0.761	0.773	0.786	0.797	0.807	0.816	0.826	0.837	0.849	0.860	1.8%
Kerosene	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1.0%
Jet Fuel 9/	0.211	0.213	0.215	0.218	0.220	0.222	0.223	0.223	0.224	0.225	0.225	1.6%
Liquefied Petroleum Gas	0.115	0.115	0.116	0.117	0.118	0.119	0.119	0.120	0.120	0.120	0.121	0.6%
Motor Gasoline 2/	1.411	1.427	1.445	1.461	1.476	1.492	1.507	1.524	1.543	1.563	1.584	1.4%
Petrochemical Feedstocks	0.127	0.126	0.128	0.129	0.131	0.132	0.133	0.134	0.134	0.135	0.136	1.1%
Residual Fuel	0.029	0.029	0.029	0.030	0.031	0.031	0.030	0.030	0.030	0.030	0.031	1.0%
Other Petroleum 12/ Petroleum Subtotal	0.341 2.992	0.346 3.024	0.352 3.065	0.360 3.107	0.367 3.146	0.374 3.181	0.378 3.212	0.380 3.242	0.383 3.277	0.389 3.317	0.394 3.356	1.0% 1.4%
Natural Gas	0.976	0.984	0.992	0.998	1.003	1.009	1.015	1.023	1.032	1.040	1.046	1.1%
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.018 0.093	0.017 0.091	0.017 0.093	0.017 0.093	0.017 0.094	0.017 0.092	0.016 0.091	0.016 0.091	0.016 0.091	0.016 0.092	0.016 0.094	-2.2% 1.3%
Natural Gas Subtotal	1.087	1.092	1.101	1.108	1.114	1.118	1.122	1.130	1.139	1.148	1.156	1.0%
Metallurgical Coal	0.047	0.046	0.045	0.043	0.042	0.041	0.040	0.039	0.038	0.037	0.036	-2.8%
Steam Coal	0.190	0.191	0.191	0.191	0.191	0.192	0.192	0.192	0.192	0.192	0.193	0.1%
Net Coal Coke Imports	0.012	0.013	0.014	0.014	0.015	0.016	0.016	0.017	0.018	0.018	0.019	6.8%
Coal Subtotal	0.250	0.249	0.249	0.249	0.249	0.248	0.248	0.247	0.247	0.247	0.247	-0.2%
Renewable Energy 13/ Liquid Hydrogen	0.380 0.000	0.382 0.000	0.387 0.000	0.392 0.000	0.398 0.000	0.403 0.000	0.408 0.000	0.413 0.000	0.417 0.000	0.422 0.000	0.425 0.000	1.3% N/A
Electricity	1.281	1.297	1.317	1.338	1.356	1.376	1.394	1.414	1.435	1.458	1.479	1.6%
Delivered Energy	5.990	6.045	6.119	6.194	6.263	6.327	6.384	6.447	6.516	6.593	6.663	1.3%
Electricity Related Losses	3.298	3.371	3.438	3.596	3.745	3.947	4.137	4.362	4.517	4.671	4.784	2.9%
Total	9.288	9.416	9.557	9.790	10.008	10.274	10.521	10.809	11.033	11.263	11.447	1.9%
Electric Power 14/												
Distillate Fuel	0.025	0.025	0.025	0.027	0.028	0.030	0.032	0.035	0.036	0.038	0.039	0.6%
Residual Fuel	0.021	0.022	0.023	0.025	0.028	0.028	0.028	0.028	0.028	0.027	0.027	0.8%
Petroleum Subtotal	0.046	0.047	0.048	0.052	0.056	0.059	0.060	0.063	0.064	0.065	0.066	0.7%
Natural Gas	0.633	0.700	0.752	0.778	0.831	0.823	0.824	0.841	0.830	0.863	0.878	7.0%
Steam Coal	2.791	2.812	2.845	2.994	3.101	3.328	3.532	3.759	3.942	4.083	4.199	2.6%
Nuclear Power	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.9%
Renewable Energy/Other 15/ Electricity Imports	0.264 0.000	0.264 0.000	0.265 0.000	0.265 0.000	0.265 0.000	0.268 0.000	0.269 0.000	0.268 0.000	0.270 0.000	0.273 0.000	0.275 0.000	0.8% N/A
Total	4.579	4.668	4.755	4.934	5.101	5.323	5.530	5.776	5.952	6.129	6.263	2.6%
Total Energy Consumption												
Distillate Fuel	0.778	0.786	0.799	0.813	0.825	0.838	0.849	0.861	0.874	0.887	0.899	1.8%
Kerosene	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1.0%
Jet Fuel 9/	0.211	0.213	0.215	0.218	0.220	0.222	0.223	0.223	0.224	0.225	0.225	1.6%
Liquefied Petroleum Gas	0.115	0.115	0.116	0.117	0.118	0.119	0.119	0.120	0.120	0.120	0.121	0.6%
Motor Gasoline 2/	1.411	1.427	1.445	1.461	1.476	1.492	1.507	1.524	1.543	1.563	1.584	1.4%
Petrochemical Feedstocks	0.127	0.126	0.128	0.129	0.131	0.132	0.133	0.134	0.134	0.135	0.136	1.1%
Residual Fuel	0.050	0.051	0.052	0.055	0.059	0.059	0.058	0.058	0.058	0.058	0.058	0.9%
Other Petroleum 12/ Petroleum Subtotal	0.341 3.038	0.346 3.071	0.352 3.113	0.360 3.158	0.367 3.202	0.374 3.240	0.378 3.272	0.380 3.305	0.383 3.342	0.389 3.382	0.394 3.422	1.0% 1.4%
Natural Gas	1.609	1.684	1.744	1.776	1.835	1.832	1.840	1.864	1.863	1.903	1.924	2.9%

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.018	0.017	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	-2.2%
Pipeline Natural Gas	0.093	0.091	0.093	0.093	0.094	0.092	0.091	0.091	0.091	0.092	0.094	1.3%
Natural Gas Subtotal	1.720	1.792	1.854	1.886	1.946	1.941	1.947	1.971	1.969	2.011	2.034	2.7%
Metallurgical Coal	0.047	0.046	0.045	0.043	0.042	0.041	0.040	0.039	0.038	0.037	0.036	-2.8%
Steam Coal	2.981	3.003	3.036	3.186	3.293	3.520	3.724	3.951	4.134	4.275	4.392	2.5%
Net Coal Coke Imports	0.012	0.013	0.014	0.014	0.015	0.016	0.016	0.017	0.018	0.018	0.019	6.8%
Coal Subtotal	3.041	3.061	3.094	3.243	3.350	3.577	3.780	4.007	4.189	4.330	4.446	2.4%
Nuclear Power	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.9%
Renewable Energy 16/	0.643	0.646	0.652	0.657	0.666	0.671	0.677	0.681	0.687	0.695	0.700	1.1%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Total	9.288	9.416	9.557	9.790	10.008	10.274	10.521	10.809	11.033	11.263	11.447	1.9%
Energy Use & Related Statistics												
Delivered Energy Use	5.990	6.045	6.119	6.194	6.263	6.327	6.384	6.447	6.516	6.593	6.663	1.3%
Total Energy Use	9.288	9.416	9.557	9.790	10.008	10.274	10.521	10.809	11.033	11.263	11.447	1.9%
Population (millions)	18.470	18.549	18.625	18.699	18.771	18.840	18.908	18.975	19.041	19.107	19.171	0.4%

Table 6. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) East South Central

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Liquefied Petroleum Gas	0.034	0.032	0.034	0.031	0.032	0.033	0.034	0.035	0.036	0.036	0.037	0.038	0.038
Petroleum Subtotal	0.035	0.033	0.034	0.032	0.033	0.034	0.035	0.036	0.036	0.037	0.038	0.039	0.039
Natural Gas	0.379	0.378	0.367	0.377	0.383	0.392	0.403	0.410	0.417	0.424	0.430	0.432	0.435
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 1/	0.020	0.019	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Electricity	0.636	0.653	0.654	0.680	0.694	0.709	0.728	0.742	0.757	0.770	0.785	0.796	0.809
Delivered Energy	1.069	1.082	1.074	1.109	1.129	1.154	1.185	1.206	1.230	1.251	1.273	1.287	1.303
Electricity Related Losses	1.364	1.373	1.108	1.166	1.190	1.209	1.243	1.255	1.287	1.313	1.345	1.363	1.375
Total	2.433	2.456	2.182	2.275	2.319	2.364	2.427	2.462	2.517	2.563	2.618	2.650	2.678
Commercial													
Distillate Fuel	0.030	0.031	0.032	0.031	0.033	0.034	0.036	0.038	0.038	0.039	0.039	0.040	0.041
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Liquefied Petroleum Gas	0.014	0.013	0.014	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014
Motor Gasoline 2/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Petroleum Subtotal	0.051	0.050	0.052	0.051	0.052	0.054	0.056	0.058	0.059	0.059	0.060	0.060	0.061
Natural Gas	0.308	0.299	0.297	0.296	0.304	0.313	0.322	0.329	0.335	0.341	0.346	0.350	0.354
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Renewable Energy 3/	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Electricity	0.510	0.515	0.521	0.535	0.551	0.569	0.589	0.607	0.625	0.643	0.661	0.678	0.695
Delivered Energy	0.871	0.867	0.873	0.884	0.910	0.939	0.970	0.996	1.022	1.046	1.068	1.091	1.113
Electricity Related Losses	1.094	1.084	0.883	0.917	0.945	0.971	1.005	1.027	1.063	1.095	1.131	1.161	1.182
Total	1.965	1.951	1.756	1.801	1.855	1.910	1.975	2.024	2.084	2.141	2.199	2.252	2.295
Industrial 4/													
Distillate Fuel	0.184	0.191	0.193	0.194	0.191	0.191	0.192	0.193	0.192	0.193	0.193	0.194	0.196
Liquefied Petroleum Gas	1.750	1.680	1.747	1.804	1.782	1.773	1.807	1.839	1.848	1.871	1.892	1.906	1.932
Petrochemical Feedstocks	0.560	0.621	0.610	0.647	0.646	0.647	0.667	0.683	0.697	0.705	0.713	0.718	0.727
Residual Fuel	0.014	0.018	0.019	0.019	0.019	0.019	0.018	0.028	0.030	0.030	0.037	0.045	0.076
Motor Gasoline 2/	0.043	0.043	0.044	0.044	0.043	0.043	0.044	0.044	0.044	0.044	0.045	0.045	0.045
Other Petroleum 5/	1.282	1.340	1.371	1.388	1.425	1.476	1.524	1.550	1.452	1.361	1.333	1.318	1.330
Petroleum Subtotal	3.833	3.894	3.983	4.095	4.105	4.150	4.252	4.337	4.263	4.203	4.214	4.227	4.306
Natural Gas	3.255	2.993	3.010	3.078	3.144	3.160	3.203	3.224	3.369	3.500	3.570	3.621	3.640
Lease and Plant Fuel 6/	0.521	0.520	0.531	0.543	0.544	0.560	0.575	0.596	0.594	0.610	0.613	0.604	0.603
Natural Gas Subtotal	3.776	3.513	3.541	3.621	3.689	3.720	3.778	3.820	3.964	4.109	4.183	4.225	4.243
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.096	0.095	0.094	0.096	0.096	0.097	0.097	0.097	0.098	0.098	0.098	0.098	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.096	0.095	0.094	0.096	0.096	0.097	0.097	0.097	0.098	0.098	0.098	0.098	0.098
Renewable Energy 7/	0.281	0.279	0.293	0.300	0.302	0.306	0.311	0.315	0.317	0.321	0.324	0.327	0.331
Electricity	0.533	0.536	0.557	0.570	0.572	0.595	0.608	0.618	0.622	0.631	0.639	0.645	0.661
Delivered Energy	8.520	8.318	8.469	8.682	8.764	8.867	9.046	9.188	9.264	9.361	9.457	9.522	9.638
Electricity Related Losses	1.144	1.128	0.943	0.977	0.982	1.014	1.039	1.047	1.059	1.074	1.094	1.105	1.124
Total	9.664	9.446	9.413	9.659	9.746	9.881	10.085	10.235	10.323	10.436	10.551	10.627	10.763
Transportation													
Distillate Fuel 8/	1.000	1.021	1.073	1.121	1.148	1.181	1.225	1.265	1.297	1.329	1.358	1.385	1.418
Jet Fuel 9/	0.859	0.838	0.880	0.909	0.939	0.972	0.995	1.023	1.061	1.094	1.122	1.145	1.168
Motor Gasoline 2/	2.018	2.038	2.077	2.116	2.157	2.209	2.264	2.321	2.373	2.422	2.471	2.520	2.571
Residual Fuel	0.183	0.174	0.156	0.157	0.158	0.159	0.160	0.161	0.161	0.162	0.162	0.163	0.163
Liquefied Petroleum Gas	0.003	0.004	0.004	0.005	0.006	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.009

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.030 4.093	0.041 4.115	0.042 4.232	0.042 4.349	0.042 4.449	0.043 4.569	0.044 4.693	0.044 4.821	0.045 4.945	0.046 5.060	0.046 5.168	0.047 5.269	0.048 5.377
Pipeline Fuel Natural Gas	0.173	0.165	0.153	0.157	0.159	0.161	0.169	0.173	0.172	0.176	0.177	0.176	0.179
Compressed Natural Gas	0.001	0.002	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.008	0.008	0.009
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011
Delivered Energy	4.276	4.291	4.396	4.519	4.621	4.744	4.878	5.011	5.133	5.254	5.363	5.464	5.576
Electricity Related Losses	0.018	0.018	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019
Total	4.294	4.310	4.411	4.535	4.637	4.761	4.894	5.028	5.151	5.272	5.382	5.483	5.595
Delivered Energy Consumption, All Sectors													
Distillate Fuel	1.214	1.243	1.297	1.346	1.371	1.407	1.453	1.496	1.527	1.560	1.591	1.619	1.655
Kerosene	0.006	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Jet Fuel 9/	0.859	0.838	0.880	0.909	0.939	0.972	0.995	1.023	1.061	1.094	1.122	1.145	1.168
Liquefied Petroleum Gas	1.802	1.729	1.798	1.853	1.833	1.826	1.861	1.894	1.905	1.928	1.951	1.966	1.993
Motor Gasoline 2/	2.067	2.087	2.128	2.166	2.206	2.259	2.314	2.371	2.423	2.472	2.522	2.571	2.622
Petrochemical Feedstocks	0.560	0.621	0.610	0.647	0.646	0.647	0.667	0.683	0.697	0.705	0.713	0.718	0.727
Residual Fuel	0.196	0.193	0.175	0.176	0.176	0.177	0.178	0.188	0.191	0.192	0.199	0.208	0.239
Other Petroleum 12/ Petroleum Subtotal	1.307 8.011	1.374 8.093	1.406 8.302	1.423 8.527	1.460 8.639	1.512 8.807	1.561 9.036	1.587 9.252	1.489 9.302	1.399 9.360	1.372 9.479	1.358 9.594	1.371 9.784
Natural Gas	3.943	3.673	3.677	3.754	3.835	3.869	3.934	3.969	4.129	4.271	4.353	4.412	4.437
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.521 0.173	0.520 0.165	0.531 0.153	0.543 0.157	0.544 0.159	0.560 0.161	0.575 0.169	0.596 0.173	0.594 0.172	0.610 0.176	0.613 0.177	0.604 0.176	0.603 0.179
Natural Gas Subtotal	4.637	4.357	4.361	4.454	4.538	4.590	4.677	4.738	4.895	5.057	5.143	5.192	5.219
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.097	0.096	0.094	0.096	0.096	0.097	0.097	0.097	0.098	0.098	0.098	0.098	0.098
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.097	0.096	0.094	0.096	0.096	0.097	0.097	0.097	0.098	0.098	0.098	0.098	0.098
Renewable Energy 13/ Liquid Hydrogen	0.303 0.000	0.300 0.000	0.314 0.000	0.322 0.000	0.324 0.000	0.328 0.000	0.333 0.000	0.337 0.000	0.340 0.000	0.343 0.000	0.347 0.000	0.349 0.000	0.353 0.000
Electricity	1.688	1.713	1.742	1.795	1.826	1.883	1.935	1.977	2.014	2.054	2.095	2.131	2.176
Delivered Energy	14.736	14.559	14.813	15.194	15.424	15.705	16.078	16.402	16.649	16.912	17.162	17.364	17.630
Electricity Related Losses	3.620	3.604	2.949	3.076	3.133	3.211	3.304	3.346	3.426	3.500	3.588	3.647	3.701
Total	18.356	18.163	17.762	18.271	18.557	18.916	19.382	19.748	20.075	20.412	20.750	21.011	21.331
Electric Power 14/													
Distillate Fuel	0.021	0.030	0.019	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.021	0.022	0.022
Residual Fuel	0.020	0.030	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.021
Petroleum Subtotal	0.041	0.060	0.038	0.038	0.039	0.039	0.040	0.040	0.040	0.041	0.041	0.042	0.043
Natural Gas	2.158	1.941	1.561	1.615	1.627	1.700	1.827	1.942	2.042	2.152	2.276	2.369	2.466
Steam Coal	2.330	2.544	2.279	2.364	2.432	2.479	2.493	2.453	2.453	2.455	2.456	2.455	2.454
Nuclear Power	0.687	0.677	0.691	0.703	0.706	0.708	0.710	0.712	0.729	0.731	0.732	0.734	0.735
Renewable Energy/Other 15/ Electricity Imports	0.092 0.000	0.095 0.000	0.122 0.000	0.151 0.000	0.156 0.000	0.169 0.000	0.168 0.000	0.176 0.000	0.177 0.000	0.177 0.000	0.177 0.000	0.179 0.000	0.179 0.000
Total	5.308	5.317	4.691	4.871	4.959	5.094	5.239	5.323	5.440	5.554	5.683	5.778	5.877
Total Energy Consumption													
Distillate Fuel	1.235	1.273	1.316	1.365	1.391	1.427	1.473	1.517	1.548	1.581	1.612	1.641	1.677
Kerosene	0.006	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Jet Fuel 9/	0.859	0.838	0.880	0.909	0.939	0.972	0.995	1.023	1.061	1.094	1.122	1.145	1.168
Liquefied Petroleum Gas	1.802	1.729	1.798	1.853	1.833	1.826	1.861	1.894	1.905	1.928	1.951	1.966	1.993
Motor Gasoline 2/	2.067	2.087	2.128	2.166	2.206	2.259	2.314	2.371	2.423	2.472	2.522	2.571	2.622
Petrochemical Feedstocks	0.560	0.621	0.610	0.647	0.646	0.647	0.667	0.683	0.697	0.705	0.713	0.718	0.727
Residual Fuel	0.216	0.223	0.193	0.194	0.195	0.196	0.197	0.208	0.210	0.211	0.219	0.228	0.260
Other Petroleum 12/ Petroleum Subtotal	1.307 8.052	1.374 8.153	1.406 8.339	1.423 8.566	1.460 8.678	1.512 8.847	1.561 9.036	1.587 9.292	1.489 9.342	1.399 9.400	1.372 9.520	1.358 9.636	1.371 9.826
Natural Gas	6.101	5.613	5.238	5.369	5.462	5.569	5.760	5.911	6.170	6.423	6.630	6.781	6.904

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.521	0.520	0.531	0.543	0.544	0.560	0.575	0.596	0.594	0.610	0.613	0.604	0.603
Pipeline Natural Gas	0.173	0.165	0.153	0.157	0.159	0.161	0.169	0.173	0.172	0.176	0.177	0.176	0.179
Natural Gas Subtotal	6.795	6.298	5.922	6.069	6.165	6.290	6.504	6.680	6.936	7.209	7.420	7.561	7.686
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	2.426	2.639	2.373	2.460	2.528	2.575	2.590	2.550	2.551	2.553	2.554	2.553	2.552
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	2.426	2.639	2.373	2.460	2.528	2.575	2.590	2.550	2.551	2.553	2.554	2.553	2.552
Nuclear Power	0.687	0.677	0.691	0.703	0.706	0.708	0.710	0.712	0.729	0.731	0.732	0.734	0.735
Renewable Energy 16/	0.395	0.396	0.437	0.473	0.480	0.496	0.501	0.513	0.516	0.520	0.524	0.528	0.533
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	18.356	18.163	17.762	18.271	18.557	18.916	19.382	19.748	20.075	20.412	20.750	21.011	21.331
Energy Use & Related Statistics													
Delivered Energy Use	14.736	14.559	14.813	15.194	15.424	15.705	16.078	16.402	16.649	16.912	17.162	17.364	17.630
Total Energy Use	18.356	18.163	17.762	18.271	18.557	18.916	19.382	19.748	20.075	20.412	20.750	21.011	21.331
Population (millions)	32.479	32.917	33.345	33.771	34.198	34.623	35.046	35.473	35.900	36.329	36.760	37.193	37.627

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.3%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.5%
Liquefied Petroleum Gas	0.039	0.040	0.040	0.041	0.042	0.042	0.043	0.043	0.044	0.045	0.046	1.6%
Petroleum Subtotal	0.040	0.041	0.041	0.042	0.042	0.043	0.044	0.044	0.045	0.046	0.046	1.6%
Natural Gas	0.438	0.443	0.445	0.449	0.452	0.457	0.460	0.466	0.472	0.479	0.484	1.1%
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.9%
Renewable Energy 1/	0.019	0.020	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.2%
Electricity	0.821	0.836	0.847	0.859	0.871	0.885	0.896	0.910	0.925	0.943	0.956	1.7%
Delivered Energy	1.319	1.339	1.353	1.369	1.385	1.405	1.419	1.440	1.462	1.488	1.506	1.5%
Electricity Related Losses	1.388	1.392	1.396	1.396	1.404	1.401	1.402	1.413	1.415	1.433	1.435	0.2%
Total	2.706	2.731	2.749	2.765	2.789	2.806	2.822	2.853	2.877	2.921	2.940	0.8%
Commercial												
Distillate Fuel	0.041	0.042	0.043	0.044	0.044	0.045	0.046	0.047	0.047	0.048	0.049	2.2%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.3%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.4%
Liquefied Petroleum Gas	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.3%
Motor Gasoline 2/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.1%
Petroleum Subtotal	0.062	0.062	0.063	0.064	0.065	0.065	0.066	0.067	0.068	0.069	0.069	1.5%
Natural Gas	0.358	0.363	0.369	0.374	0.378	0.383	0.388	0.395	0.402	0.410	0.417	1.5%
Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-4.0%
Renewable Energy 3/	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.0%
Electricity	0.712	0.731	0.750	0.769	0.785	0.803	0.821	0.841	0.862	0.884	0.906	2.6%
Delivered Energy	1.135	1.160	1.185	1.209	1.231	1.254	1.279	1.306	1.335	1.365	1.396	2.2%
Electricity Related Losses	1.203	1.217	1.236	1.249	1.267	1.271	1.286	1.306	1.318	1.344	1.361	1.0%
Total	2.338	2.377	2.421	2.458	2.498	2.525	2.565	2.612	2.653	2.709	2.756	1.6%
Industrial 4/												
Distillate Fuel	0.198	0.199	0.201	0.203	0.206	0.208	0.210	0.211	0.213	0.215	0.217	0.6%
Liquefied Petroleum Gas	1.942	1.943	1.969	1.994	2.020	2.038	2.056	2.068	2.082	2.096	2.109	1.0%
Petrochemical Feedstocks	0.730	0.730	0.737	0.745	0.753	0.760	0.766	0.771	0.776	0.781	0.785	1.1%
Residual Fuel	0.064	0.067	0.069	0.081	0.084	0.082	0.067	0.067	0.068	0.073	0.077	6.8%
Motor Gasoline 2/	0.046	0.046	0.046	0.047	0.047	0.048	0.048	0.049	0.049	0.049	0.050	0.6%
Other Petroleum 5/	1.380	1.415	1.460	1.484	1.511	1.556	1.585	1.597	1.608	1.629	1.644	0.9%
Petroleum Subtotal	4.360	4.399	4.481	4.554	4.621	4.692	4.732	4.762	4.796	4.843	4.882	1.0%
Natural Gas	3.639	3.660	3.689	3.708	3.726	3.742	3.780	3.809	3.842	3.864	3.881	1.2%
Lease and Plant Fuel 6/	0.588	0.574	0.574	0.577	0.564	0.554	0.547	0.534	0.526	0.535	0.542	0.2%
Natural Gas Subtotal	4.227	4.233	4.264	4.285	4.290	4.296	4.327	4.343	4.368	4.398	4.422	1.1%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.099	0.099	0.099	0.2%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.099	0.099	0.099	0.2%
Renewable Energy 7/	0.335	0.337	0.342	0.347	0.352	0.357	0.362	0.366	0.371	0.375	0.379	1.4%
Electricity	0.666	0.670	0.679	0.689	0.693	0.698	0.701	0.702	0.704	0.711	0.716	1.3%
Delivered Energy	9.685	9.736	9.863	9.972	10.054	10.141	10.220	10.272	10.338	10.426	10.498	1.1%
Electricity Related Losses	1.125	1.115	1.120	1.119	1.118	1.105	1.097	1.090	1.077	1.080	1.075	-0.2%
Total	10.810	10.851	10.983	11.091	11.173	11.247	11.317	11.362	11.415	11.506	11.573	0.9%
Transportation												
Distillate Fuel 8/	1.445	1.467	1.499	1.530	1.560	1.589	1.614	1.642	1.674	1.706	1.737	2.4%
Jet Fuel 9/	1.189	1.206	1.227	1.248	1.268	1.284	1.297	1.309	1.320	1.331	1.338	2.2%
Motor Gasoline 2/	2.620	2.667	2.715	2.762	2.807	2.852	2.900	2.950	3.003	3.061	3.120	2.0%
Residual Fuel	0.164	0.164	0.165	0.166	0.167	0.167	0.168	0.168	0.169	0.169	0.170	-0.1%
Liquefied Petroleum Gas	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	5.5%

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/ Petroleum Subtotal	0.049 5.476	0.049 5.564	0.050 5.666	0.051 5.767	0.052 5.864	0.053 5.955	0.054 6.043	0.055 6.134	0.056 6.233	0.057 6.335	0.058 6.435	1.6% 2.1%
Pipeline Fuel Natural Gas	0.178	0.174	0.174	0.175	0.176	0.175	0.174	0.174	0.174	0.176	0.178	0.3%
Compressed Natural Gas	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.012	0.013	8.0%
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.001 0.000	7.0% N/A
Electricity	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	2.3%
Delivered Energy	5.675	5.760	5.863	5.965	6.065	6.155	6.242	6.334	6.433	6.538	6.640	2.0%
Electricity Related Losses	0.019	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.022	0.8%
Total	5.694	5.780	5.882	5.985	6.085	6.176	6.263	6.355	6.454	6.560	6.662	2.0%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	1.684	1.708	1.742	1.777	1.810	1.842	1.870	1.900	1.935	1.970	2.003	2.2%
Kerosene	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.1%
Jet Fuel 9/	1.189	1.206	1.227	1.248	1.268	1.284	1.297	1.309	1.320	1.331	1.338	2.2%
Liquefied Petroleum Gas	2.003	2.006	2.032	2.059	2.085	2.104	2.122	2.136	2.151	2.165	2.180	1.1%
Motor Gasoline 2/	2.672	2.719	2.768	2.815	2.861	2.906	2.954	3.004	3.058	3.116	3.176	1.9%
Petrochemical Feedstocks	0.730	0.730	0.737	0.745	0.753	0.760	0.766	0.771	0.776	0.781	0.785	1.1%
Residual Fuel	0.228	0.231	0.234	0.247	0.250	0.249	0.235	0.235	0.237	0.242	0.247	1.1%
Other Petroleum 12/ Petroleum Subtotal	1.421 9.937	1.457 10.066	1.503 10.251	1.528 10.426	1.556 10.592	1.602 10.756	1.632 10.885	1.644 11.008	1.657 11.142	1.679 11.292	1.695 11.433	1.0% 1.6%
Natural Gas	4.444	4.475	4.514	4.541	4.567	4.594	4.640	4.681	4.728	4.765	4.794	1.2%
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.588 0.178	0.574 0.174	0.574 0.174	0.577 0.175	0.564 0.176	0.554 0.175	0.547 0.174	0.534 0.174	0.526 0.174	0.535 0.176	0.542 0.178	0.2% 0.3%
Natural Gas Subtotal	5.210	5.223	5.262	5.293	5.307	5.323	5.361	5.389	5.428	5.476	5.514	1.1%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.099	0.099	0.099	0.099	0.2%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.099	0.099	0.099	0.099	0.2%
Renewable Energy 13/ Liquid Hydrogen	0.357 0.000	0.359 0.000	0.364 0.000	0.369 0.000	0.375 0.000	0.380 0.000	0.385 0.000	0.389 0.000	0.394 0.000	0.398 0.000	0.401 0.000	1.3% N/A
Electricity	2.211	2.248	2.288	2.329	2.362	2.399	2.431	2.467	2.505	2.552	2.592	1.9%
Delivered Energy	17.813	17.994	18.264	18.516	18.735	18.956	19.161	19.351	19.568	19.817	20.040	1.5%
Electricity Related Losses	3.735	3.744	3.772	3.783	3.810	3.798	3.805	3.830	3.830	3.879	3.892	0.4%
Total	21.548	21.738	22.036	22.299	22.545	22.754	22.966	23.181	23.398	23.696	23.932	1.3%
Electric Power 14/												
Distillate Fuel	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.024	0.025	0.025	-0.7%
Residual Fuel	0.021	0.021	0.021	0.021	0.041	0.040	0.040	0.040	0.020	0.020	0.039	1.1%
Petroleum Subtotal	0.043	0.043	0.043	0.043	0.064	0.063	0.063	0.063	0.044	0.045	0.064	0.3%
Natural Gas	2.515	2.560	2.624	2.673	2.712	2.736	2.766	2.790	2.757	2.769	2.743	1.6%
Steam Coal	2.455	2.457	2.463	2.464	2.465	2.467	2.475	2.503	2.592	2.670	2.729	0.3%
Nuclear Power	0.754	0.755	0.756	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.5%
Renewable Energy/Other 15/ Electricity Imports	0.180 -0.001	0.178 0.000	0.175 0.000	0.175 0.000	0.175 0.000	0.174 0.000	0.176 0.000	0.184 0.000	0.187 0.000	0.191 0.000	0.192 0.000	3.2% 4.1%
Total	5.946	5.992	6.060	6.112	6.172	6.197	6.236	6.296	6.336	6.431	6.484	0.9%
Total Energy Consumption												
Distillate Fuel	1.707	1.730	1.765	1.800	1.833	1.865	1.893	1.924	1.959	1.994	2.028	2.1%
Kerosene	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.1%
Jet Fuel 9/	1.189	1.206	1.227	1.248	1.268	1.284	1.297	1.309	1.320	1.331	1.338	2.2%
Liquefied Petroleum Gas	2.003	2.006	2.032	2.059	2.085	2.104	2.122	2.136	2.151	2.165	2.180	1.1%
Motor Gasoline 2/	2.672	2.719	2.768	2.815	2.861	2.906	2.954	3.004	3.058	3.116	3.176	1.9%
Petrochemical Feedstocks	0.730	0.730	0.737	0.745	0.753	0.760	0.766	0.771	0.776	0.781	0.785	1.1%
Residual Fuel	0.249	0.252	0.255	0.267	0.291	0.289	0.275	0.275	0.257	0.263	0.286	1.1%
Other Petroleum 12/ Petroleum Subtotal	1.421 9.980	1.457 10.109	1.503 10.294	1.528 10.470	1.556 10.656	1.602 10.818	1.632 10.948	1.644 11.071	1.657 11.186	1.679 11.337	1.695 11.497	1.0% 1.6%
Natural Gas	6.959	7.036	7.137	7.214	7.280	7.330	7.406	7.471	7.485	7.535	7.537	1.3%

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.588	0.574	0.574	0.577	0.564	0.554	0.547	0.534	0.526	0.535	0.542	0.2%
Pipeline Natural Gas	0.178	0.174	0.174	0.175	0.176	0.175	0.174	0.174	0.174	0.176	0.178	0.3%
Natural Gas Subtotal	7.725	7.784	7.886	7.966	8.020	8.059	8.127	8.179	8.185	8.245	8.257	1.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	2.553	2.555	2.561	2.562	2.563	2.566	2.574	2.602	2.690	2.769	2.828	0.3%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	2.553	2.555	2.561	2.562	2.563	2.566	2.574	2.602	2.690	2.769	2.828	0.3%
Nuclear Power	0.754	0.755	0.756	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.5%
Renewable Energy 16/	0.537	0.537	0.539	0.544	0.550	0.555	0.561	0.573	0.581	0.588	0.593	1.9%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.1%
Total	21.548	21.738	22.036	22.299	22.545	22.754	22.966	23.181	23.398	23.696	23.932	1.3%
Energy Use & Related Statistics												
Delivered Energy Use	17.813	17.994	18.264	18.516	18.735	18.956	19.161	19.351	19.568	19.817	20.040	1.5%
Total Energy Use	21.548	21.738	22.036	22.299	22.545	22.754	22.966	23.181	23.398	23.696	23.932	1.3%
Population (millions)	38.062	38.497	38.933	39.368	39.804	40.239	40.676	41.116	41.559	42.004	42.453	1.2%

Table 7. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) West South Central

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Kerosene	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Liquefied Petroleum Gas	0.047	0.043	0.046	0.043	0.044	0.045	0.046	0.048	0.049	0.050	0.051	0.052	0.053
Petroleum Subtotal	0.055	0.050	0.053	0.050	0.051	0.052	0.053	0.054	0.055	0.057	0.058	0.058	0.060
Natural Gas	0.359	0.355	0.374	0.391	0.400	0.414	0.433	0.449	0.468	0.485	0.498	0.507	0.517
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/ Electricity	0.023 0.268	0.021 0.277	0.023 0.279	0.024 0.287	0.024 0.293	0.024 0.301	0.024 0.311	0.024 0.319	0.024 0.327	0.024 0.335	0.024 0.343	0.024 0.349	0.024 0.356
Delivered Energy	0.706	0.705	0.730	0.753	0.769	0.792	0.822	0.847	0.876	0.901	0.924	0.939	0.957
Electricity Related Losses	0.860	0.900	0.965	0.970	0.992	1.010	1.033	1.049	1.062	1.073	1.095	1.121	1.146
Total	1.566	1.605	1.695	1.723	1.760	1.802	1.855	1.896	1.937	1.974	2.019	2.061	2.103
Commercial													
Distillate Fuel	0.022	0.022	0.023	0.023	0.024	0.024	0.025	0.026	0.027	0.027	0.027	0.027	0.028
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Liquefied Petroleum Gas	0.007	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Motor Gasoline 2/ Petroleum Subtotal	0.001 0.031	0.001 0.031	0.001 0.032	0.001 0.032	0.001 0.033	0.001 0.034	0.001 0.035	0.001 0.035	0.001 0.036	0.001 0.036	0.001 0.037	0.001 0.037	0.001 0.037
Natural Gas	0.218	0.213	0.222	0.223	0.227	0.233	0.241	0.250	0.258	0.265	0.271	0.276	0.281
Coal	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Renewable Energy 3/ Electricity	0.004 0.282	0.004 0.287	0.004 0.291	0.004 0.298	0.004 0.307	0.004 0.319	0.004 0.331	0.004 0.343	0.004 0.356	0.004 0.368	0.004 0.379	0.004 0.391	0.004 0.403
Delivered Energy	0.545	0.546	0.560	0.568	0.582	0.601	0.622	0.643	0.664	0.684	0.702	0.719	0.736
Electricity Related Losses	0.904	0.933	1.008	1.007	1.041	1.070	1.102	1.130	1.155	1.177	1.211	1.257	1.296
Total	1.450	1.479	1.567	1.575	1.623	1.671	1.724	1.774	1.819	1.862	1.913	1.975	2.032
Industrial 4/													
Distillate Fuel	0.102	0.107	0.108	0.111	0.111	0.112	0.113	0.114	0.115	0.116	0.117	0.118	0.120
Liquefied Petroleum Gas	0.024	0.022	0.022	0.022	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.025	0.025
Petrochemical Feedstocks	0.019	0.018	0.017	0.018	0.019	0.020	0.021	0.022	0.022	0.022	0.022	0.022	0.022
Residual Fuel	0.002	0.001	0.001	0.001	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.028 0.179 0.353	0.029 0.186 0.363	0.029 0.191 0.370	0.030 0.192 0.374	0.030 0.197 0.387	0.030 0.203 0.395	0.031 0.220 0.415	0.031 0.229 0.427	0.031 0.232 0.431	0.031 0.234 0.436	0.032 0.241 0.444	0.032 0.247 0.452	0.033 0.254 0.463
Natural Gas	0.256	0.238	0.244	0.249	0.255	0.262	0.264	0.269	0.279	0.289	0.292	0.295	0.298
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.177 0.433	0.177 0.415	0.214 0.457	0.222 0.471	0.224 0.480	0.222 0.484	0.227 0.492	0.235 0.504	0.241 0.520	0.249 0.538	0.255 0.548	0.260 0.555	0.263 0.561
Metallurgical Coal	0.022	0.022	0.023	0.022	0.021	0.021	0.020	0.019	0.018	0.018	0.017	0.017	0.016
Steam Coal	0.093	0.094	0.094	0.096	0.095	0.096	0.097	0.097	0.097	0.097	0.097	0.097	0.097
Net Coal Coke Imports	0.002	0.002	0.003	0.002	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001
Coal Subtotal	0.116	0.118	0.120	0.120	0.117	0.117	0.117	0.116	0.115	0.115	0.114	0.113	0.112
Renewable Energy 7/ Electricity	0.043 0.224	0.043 0.222	0.046 0.228	0.047 0.232	0.048 0.238	0.049 0.241	0.050 0.247	0.051 0.252	0.052 0.255	0.053 0.258	0.054 0.262	0.055 0.265	0.056 0.270
Delivered Energy	1.169	1.161	1.221	1.244	1.269	1.286	1.321	1.350	1.373	1.400	1.422	1.440	1.461
Electricity Related Losses	0.718	0.721	0.790	0.786	0.805	0.809	0.821	0.828	0.827	0.827	0.836	0.851	0.868
Total	1.886	1.882	2.011	2.030	2.075	2.096	2.141	2.178	2.200	2.227	2.258	2.291	2.329
Transportation													
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.449 0.209 1.097 0.000	0.458 0.204 1.108 0.000	0.481 0.214 1.130 0.000	0.504 0.221 1.161 0.000	0.517 0.228 1.177 0.000	0.534 0.235 1.203 0.000	0.554 0.239 1.232 0.000	0.574 0.245 1.262 0.000	0.590 0.253 1.296 0.000	0.605 0.259 1.328 0.000	0.620 0.265 1.359 0.000	0.633 0.269 1.389 0.000	0.650 0.274 1.422 0.000
Liquefied Petroleum Gas	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.015 1.771	0.018 1.789	0.018 1.845	0.018 1.907	0.018 1.944	0.018 1.993	0.019 2.048	0.019 2.104	0.019 2.161	0.020 2.217	0.020 2.268	0.020 2.317	0.021 2.371
Pipeline Fuel Natural Gas	0.110	0.105	0.109	0.113	0.114	0.112	0.114	0.117	0.119	0.121	0.125	0.127	0.128
Compressed Natural Gas	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007
Delivered Energy	1.888	1.901	1.961	2.028	2.066	2.114	2.171	2.231	2.291	2.350	2.406	2.457	2.513
Electricity Related Losses	0.016	0.017	0.018	0.018	0.019	0.019	0.020	0.020	0.020	0.020	0.021	0.022	0.022
Total	1.904	1.918	1.979	2.046	2.085	2.133	2.191	2.251	2.311	2.370	2.427	2.478	2.535
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.579	0.591	0.617	0.642	0.656	0.674	0.697	0.719	0.735	0.752	0.768	0.782	0.801
Kerosene	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Jet Fuel 9/	0.209	0.204	0.214	0.221	0.228	0.235	0.239	0.245	0.253	0.259	0.265	0.269	0.274
Liquefied Petroleum Gas	0.080	0.074	0.077	0.075	0.077	0.079	0.081	0.083	0.084	0.086	0.087	0.089	0.091
Motor Gasoline 2/	1.127	1.138	1.160	1.191	1.208	1.235	1.263	1.294	1.328	1.361	1.393	1.423	1.456
Petrochemical Feedstocks	0.019	0.018	0.017	0.018	0.019	0.020	0.021	0.022	0.022	0.022	0.022	0.022	0.022
Residual Fuel	0.002	0.002	0.002	0.002	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009
Other Petroleum 12/ Petroleum Subtotal	0.193 2.210	0.204 2.233	0.209 2.300	0.209 2.363	0.215 2.413	0.221 2.473	0.238 2.551	0.248 2.621	0.251 2.684	0.254 2.745	0.261 2.807	0.267 2.864	0.275 2.930
Natural Gas	0.834	0.808	0.841	0.866	0.885	0.913	0.942	0.972	1.010	1.044	1.067	1.084	1.103
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.177 0.110	0.177 0.105	0.214 0.109	0.222 0.113	0.224 0.114	0.222 0.112	0.227 0.114	0.235 0.117	0.241 0.119	0.249 0.121	0.255 0.125	0.260 0.127	0.263 0.128
Natural Gas Subtotal	1.121	1.090	1.163	1.201	1.224	1.247	1.283	1.324	1.370	1.414	1.447	1.471	1.494
Metallurgical Coal	0.022	0.022	0.023	0.022	0.021	0.021	0.020	0.019	0.018	0.018	0.017	0.017	0.016
Steam Coal	0.104	0.106	0.106	0.108	0.108	0.108	0.109	0.109	0.110	0.110	0.110	0.109	0.109
Net Coal Coke Imports	0.002	0.002	0.003	0.002	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001
Coal Subtotal	0.128	0.130	0.133	0.132	0.130	0.129	0.129	0.128	0.128	0.127	0.126	0.125	0.124
Renewable Energy 13/ Liquid Hydrogen	0.070 0.000	0.068 0.000	0.072 0.000	0.075 0.000	0.075 0.000	0.076 0.000	0.078 0.000	0.079 0.000	0.080 0.000	0.081 0.000	0.082 0.000	0.083 0.000	0.084 0.000
Electricity	0.779	0.791	0.803	0.822	0.843	0.867	0.895	0.920	0.943	0.967	0.991	1.012	1.035
Delivered Energy	4.308	4.312	4.472	4.593	4.686	4.793	4.935	5.071	5.204	5.334	5.453	5.555	5.668
Electricity Related Losses	2.497	2.570	2.781	2.781	2.857	2.909	2.975	3.027	3.063	3.098	3.164	3.251	3.332
Total	6.805	6.883	7.252	7.374	7.543	7.702	7.910	8.098	8.268	8.432	8.617	8.806	9.000
Electric Power 14/													
Distillate Fuel	0.010	0.010	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.027
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Subtotal	0.010	0.010	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.027
Natural Gas	0.399	0.384	0.644	0.555	0.577	0.587	0.657	0.732	0.793	0.851	0.883	0.905	0.889
Steam Coal	2.181	2.274	2.212	2.262	2.313	2.374	2.398	2.398	2.397	2.395	2.450	2.533	2.651
Nuclear Power	0.307	0.300	0.308	0.305	0.306	0.310	0.311	0.311	0.312	0.313	0.314	0.315	0.316
Renewable Energy/Other 15/ Electricity Imports	0.379 0.001	0.391 0.001	0.395 0.001	0.456 0.001	0.479 0.002	0.480 0.001	0.479 0.002	0.479 0.002	0.478 0.003	0.478 0.004	0.478 0.005	0.480 0.004	0.481 0.005
Total	3.276	3.361	3.584	3.603	3.700	3.776	3.869	3.946	4.006	4.065	4.155	4.263	4.367
Total Energy Consumption													
Distillate Fuel	0.588	0.602	0.640	0.666	0.680	0.698	0.721	0.743	0.759	0.776	0.792	0.808	0.827
Kerosene	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Jet Fuel 9/	0.209	0.204	0.214	0.221	0.228	0.235	0.239	0.245	0.253	0.259	0.265	0.269	0.274
Liquefied Petroleum Gas	0.080	0.074	0.077	0.075	0.077	0.079	0.081	0.083	0.084	0.086	0.087	0.089	0.091
Motor Gasoline 2/	1.127	1.138	1.160	1.191	1.208	1.235	1.263	1.294	1.328	1.361	1.393	1.423	1.456
Petrochemical Feedstocks	0.019	0.018	0.017	0.018	0.019	0.020	0.021	0.022	0.022	0.022	0.022	0.022	0.022
Residual Fuel	0.002	0.002	0.002	0.002	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009
Other Petroleum 12/ Petroleum Subtotal	0.193 2.220	0.204 2.243	0.209 2.323	0.209 2.386	0.215 2.437	0.221 2.497	0.238 2.575	0.248 2.645	0.251 2.708	0.254 2.769	0.261 2.831	0.267 2.890	0.275 2.957
Natural Gas	1.232	1.192	1.485	1.421	1.462	1.500	1.599	1.704	1.803	1.895	1.950	1.989	1.992

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.177	0.177	0.214	0.222	0.224	0.222	0.227	0.235	0.241	0.249	0.255	0.260	0.263
Pipeline Natural Gas	0.110	0.105	0.109	0.113	0.114	0.112	0.114	0.117	0.119	0.121	0.125	0.127	0.128
Natural Gas Subtotal	1.520	1.474	1.807	1.756	1.800	1.834	1.940	2.056	2.163	2.265	2.330	2.376	2.383
Metallurgical Coal	0.022	0.022	0.023	0.022	0.021	0.021	0.020	0.019	0.018	0.018	0.017	0.017	0.016
Steam Coal	2.285	2.380	2.318	2.370	2.420	2.482	2.507	2.507	2.507	2.505	2.560	2.642	2.760
Net Coal Coke Imports	0.002	0.002	0.003	0.002	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001
Coal Subtotal	2.308	2.404	2.345	2.394	2.443	2.503	2.527	2.526	2.524	2.522	2.576	2.658	2.775
Nuclear Power	0.307	0.300	0.308	0.305	0.306	0.310	0.311	0.311	0.312	0.313	0.314	0.315	0.316
Renewable Energy 16/	0.449	0.459	0.468	0.531	0.554	0.556	0.556	0.558	0.557	0.559	0.560	0.563	0.565
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.002	0.003	0.004	0.005	0.004	0.005
Total	6.805	6.883	7.252	7.374	7.543	7.702	7.910	8.098	8.268	8.432	8.617	8.806	9.000
Energy Use & Related Statistics													
Delivered Energy Use	4.308	4.312	4.472	4.593	4.686	4.793	4.935	5.071	5.204	5.334	5.453	5.555	5.668
Total Energy Use	6.805	6.883	7.252	7.374	7.543	7.702	7.910	8.098	8.268	8.432	8.617	8.806	9.000
Population (millions)	19.074	19.422	19.747	20.072	20.398	20.724	21.049	21.376	21.704	22.034	22.365	22.697	23.029

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	-3.2%
Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.5%
Liquefied Petroleum Gas	0.054	0.055	0.056	0.057	0.058	0.059	0.059	0.060	0.061	0.062	0.062	1.7%
Petroleum Subtotal	0.061	0.061	0.062	0.063	0.064	0.065	0.065	0.065	0.066	0.067	0.067	1.4%
Natural Gas	0.526	0.539	0.551	0.565	0.574	0.583	0.589	0.597	0.606	0.617	0.624	2.6%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.7%
Renewable Energy 1/	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.4%
Electricity	0.364	0.372	0.380	0.388	0.395	0.403	0.409	0.416	0.424	0.433	0.440	2.1%
Delivered Energy	0.975	0.997	1.018	1.040	1.058	1.076	1.087	1.103	1.121	1.141	1.155	2.3%
Electricity Related Losses	1.156	1.177	1.230	1.233	1.267	1.309	1.346	1.388	1.428	1.475	1.533	2.5%
Total	2.131	2.174	2.248	2.273	2.325	2.385	2.433	2.491	2.548	2.616	2.688	2.4%
Commercial												
Distillate Fuel	0.028	0.028	0.028	0.028	0.028	0.028	0.029	0.029	0.029	0.029	0.030	1.4%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.7%
Kerosene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.5%
Liquefied Petroleum Gas	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.3%
Motor Gasoline 2/	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1.3%
Petroleum Subtotal	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.039	1.1%
Natural Gas	0.286	0.293	0.302	0.311	0.317	0.321	0.326	0.332	0.339	0.346	0.354	2.3%
Coal	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.0%
Renewable Energy 3/	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.0%
Electricity	0.415	0.429	0.444	0.458	0.471	0.484	0.497	0.511	0.526	0.542	0.559	3.1%
Delivered Energy	0.754	0.775	0.798	0.821	0.841	0.858	0.876	0.896	0.918	0.942	0.968	2.6%
Electricity Related Losses	1.320	1.357	1.437	1.455	1.510	1.570	1.635	1.704	1.771	1.848	1.951	3.4%
Total	2.074	2.131	2.235	2.276	2.351	2.428	2.511	2.599	2.689	2.790	2.918	3.1%
Industrial 4/												
Distillate Fuel	0.122	0.123	0.125	0.128	0.129	0.131	0.133	0.135	0.137	0.139	0.140	1.3%
Liquefied Petroleum Gas	0.026	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.036	0.043	3.0%
Petrochemical Feedstocks	0.021	0.021	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.7%
Residual Fuel	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	9.3%
Motor Gasoline 2/	0.034	0.034	0.035	0.036	0.036	0.037	0.038	0.038	0.039	0.040	0.041	1.6%
Other Petroleum 5/	0.258	0.263	0.268	0.274	0.280	0.286	0.297	0.303	0.308	0.306	0.302	2.2%
Petroleum Subtotal	0.470	0.477	0.485	0.494	0.504	0.513	0.526	0.536	0.544	0.551	0.557	2.0%
Natural Gas	0.301	0.305	0.311	0.318	0.323	0.328	0.331	0.336	0.343	0.347	0.352	1.8%
Lease and Plant Fuel 6/	0.262	0.247	0.244	0.258	0.268	0.273	0.268	0.264	0.267	0.271	0.271	2.0%
Natural Gas Subtotal	0.563	0.552	0.556	0.576	0.592	0.601	0.599	0.600	0.610	0.618	0.623	1.9%
Metallurgical Coal	0.016	0.016	0.015	0.015	0.014	0.014	0.014	0.013	0.013	0.012	0.012	-2.7%
Steam Coal	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.1%
Net Coal Coke Imports	-0.001	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003	-0.003	N/A
Coal Subtotal	0.111	0.110	0.110	0.109	0.108	0.108	0.107	0.107	0.106	0.106	0.106	-0.5%
Renewable Energy 7/	0.058	0.059	0.060	0.062	0.063	0.065	0.066	0.068	0.070	0.071	0.073	2.4%
Electricity	0.273	0.275	0.280	0.285	0.290	0.295	0.300	0.305	0.311	0.317	0.323	1.7%
Delivered Energy	1.474	1.473	1.491	1.526	1.558	1.582	1.599	1.616	1.640	1.663	1.681	1.7%
Electricity Related Losses	0.867	0.870	0.907	0.906	0.930	0.957	0.988	1.018	1.047	1.081	1.126	2.1%
Total	2.341	2.343	2.397	2.432	2.487	2.539	2.587	2.633	2.687	2.744	2.807	1.8%
Transportation												
Distillate Fuel 8/	0.663	0.674	0.689	0.705	0.719	0.733	0.746	0.760	0.775	0.791	0.805	2.6%
Jet Fuel 9/	0.278	0.282	0.286	0.291	0.295	0.298	0.301	0.303	0.306	0.308	0.309	1.9%
Motor Gasoline 2/	1.454	1.484	1.514	1.543	1.571	1.599	1.629	1.660	1.691	1.726	1.761	2.1%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Liquefied Petroleum Gas	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	6.0%

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/ Petroleum Subtotal	0.021 2.421	0.022 2.467	0.022 2.517	0.022 2.566	0.023 2.614	0.023 2.660	0.024 2.706	0.024 2.753	0.025 2.802	0.025 2.856	0.026 2.908	1.7% 2.2%
Pipeline Fuel Natural Gas	0.127	0.119	0.117	0.122	0.126	0.127	0.124	0.121	0.122	0.123	0.123	0.7%
Compressed Natural Gas	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.010	9.2%
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	7.3% N/A
Electricity	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	2.6%
Delivered Energy	2.563	2.601	2.649	2.705	2.757	2.804	2.847	2.893	2.943	2.998	3.050	2.2%
Electricity Related Losses	0.022	0.023	0.024	0.024	0.025	0.026	0.027	0.028	0.029	0.030	0.032	2.9%
Total	2.585	2.624	2.673	2.729	2.782	2.830	2.874	2.921	2.972	3.028	3.082	2.2%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	0.816	0.829	0.846	0.864	0.881	0.896	0.911	0.926	0.943	0.961	0.977	2.3%
Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.5%
Jet Fuel 9/	0.278	0.282	0.286	0.291	0.295	0.298	0.301	0.303	0.306	0.308	0.309	1.9%
Liquefied Petroleum Gas	0.093	0.094	0.095	0.097	0.099	0.100	0.101	0.103	0.104	0.112	0.119	2.2%
Motor Gasoline 2/	1.489	1.520	1.550	1.580	1.609	1.638	1.668	1.700	1.731	1.767	1.803	2.1%
Petrochemical Feedstocks	0.021	0.021	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.7%
Residual Fuel	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	8.9%
Other Petroleum 12/ Petroleum Subtotal	0.279 2.989	0.284 3.043	0.290 3.102	0.296 3.162	0.303 3.220	0.309 3.276	0.320 3.335	0.327 3.393	0.333 3.450	0.331 3.513	0.328 3.571	2.2% 2.2%
Natural Gas	1.120	1.144	1.173	1.201	1.223	1.241	1.254	1.274	1.298	1.320	1.340	2.3%
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.262 0.127	0.247 0.119	0.244 0.117	0.258 0.122	0.268 0.126	0.273 0.127	0.268 0.124	0.264 0.121	0.267 0.122	0.271 0.123	0.271 0.123	2.0% 0.7%
Natural Gas Subtotal	1.509	1.511	1.534	1.582	1.617	1.641	1.647	1.659	1.686	1.714	1.734	2.1%
Metallurgical Coal	0.016	0.016	0.015	0.015	0.014	0.014	0.014	0.013	0.013	0.012	0.012	-2.7%
Steam Coal	0.109	0.109	0.109	0.109	0.109	0.108	0.108	0.108	0.108	0.108	0.108	0.1%
Net Coal Coke Imports	-0.001	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003	-0.003	N/A
Coal Subtotal	0.123	0.123	0.122	0.121	0.121	0.120	0.120	0.119	0.118	0.118	0.118	-0.5%
Renewable Energy 13/ Liquid Hydrogen	0.085 0.000	0.086 0.000	0.088 0.000	0.089 0.000	0.091 0.000	0.093 0.000	0.094 0.000	0.096 0.000	0.097 0.000	0.099 0.000	0.101 0.000	1.8% N/A
Electricity	1.059	1.084	1.111	1.138	1.165	1.190	1.214	1.241	1.269	1.300	1.331	2.4%
Delivered Energy	5.766	5.846	5.956	6.092	6.213	6.319	6.410	6.507	6.622	6.745	6.854	2.1%
Electricity Related Losses	3.365	3.426	3.597	3.617	3.731	3.863	3.996	4.137	4.274	4.434	4.642	2.7%
Total	9.131	9.273	9.554	9.709	9.945	10.182	10.406	10.645	10.895	11.178	11.496	2.4%
Electric Power 14/												
Distillate Fuel	0.028	0.028	0.030	0.031	0.033	0.035	0.037	0.039	0.041	0.043	0.045	7.0%
Residual Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.3%
Petroleum Subtotal	0.028	0.028	0.030	0.031	0.033	0.035	0.037	0.039	0.041	0.043	0.045	7.0%
Natural Gas	0.849	0.831	0.840	0.807	0.756	0.723	0.700	0.672	0.633	0.609	0.592	2.0%
Steam Coal	2.744	2.847	3.034	3.114	3.303	3.489	3.668	3.860	4.061	4.257	4.493	3.1%
Nuclear Power	0.316	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.3%
Renewable Energy/Other 15/ Electricity Imports	0.482 0.006	0.481 0.006	0.482 0.004	0.482 0.004	0.483 0.004	0.484 0.004	0.485 0.004	0.486 0.004	0.487 0.005	0.506 0.003	0.522 0.003	1.3% 4.1%
Total	4.424	4.510	4.708	4.755	4.896	5.053	5.210	5.378	5.543	5.734	5.972	2.6%
Total Energy Consumption												
Distillate Fuel	0.844	0.857	0.877	0.895	0.914	0.931	0.947	0.965	0.984	1.003	1.022	2.4%
Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.5%
Jet Fuel 9/	0.278	0.282	0.286	0.291	0.295	0.298	0.301	0.303	0.306	0.308	0.309	1.9%
Liquefied Petroleum Gas	0.093	0.094	0.095	0.097	0.099	0.100	0.101	0.103	0.104	0.112	0.119	2.2%
Motor Gasoline 2/	1.489	1.520	1.550	1.580	1.609	1.638	1.668	1.700	1.731	1.767	1.803	2.1%
Petrochemical Feedstocks	0.021	0.021	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.7%
Residual Fuel	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	8.9%
Other Petroleum 12/ Petroleum Subtotal	0.279 3.017	0.284 3.071	0.290 3.132	0.296 3.193	0.303 3.253	0.309 3.310	0.320 3.372	0.327 3.431	0.333 3.491	0.331 3.556	0.328 3.616	2.2% 2.2%
Natural Gas	1.969	1.975	2.013	2.008	1.979	1.964	1.954	1.946	1.931	1.928	1.932	2.2%

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.262	0.247	0.244	0.258	0.268	0.273	0.268	0.264	0.267	0.271	0.271	2.0%
Pipeline Natural Gas	0.127	0.119	0.117	0.122	0.126	0.127	0.124	0.121	0.122	0.123	0.123	0.7%
Natural Gas Subtotal	2.358	2.341	2.374	2.389	2.373	2.364	2.347	2.331	2.319	2.323	2.326	2.1%
Metallurgical Coal	0.016	0.016	0.015	0.015	0.014	0.014	0.014	0.013	0.013	0.012	0.012	-2.7%
Steam Coal	2.853	2.956	3.143	3.222	3.411	3.598	3.776	3.968	4.169	4.365	4.601	3.0%
Net Coal Coke Imports	-0.001	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003	-0.003	N/A
Coal Subtotal	2.867	2.969	3.156	3.235	3.424	3.610	3.787	3.979	4.179	4.375	4.611	3.0%
Nuclear Power	0.316	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.3%
Renewable Energy 16/	0.567	0.567	0.569	0.571	0.574	0.576	0.579	0.582	0.584	0.605	0.623	1.4%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Electricity Imports	0.006	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.003	0.003	4.1%
Total	9.131	9.273	9.554	9.709	9.945	10.182	10.406	10.645	10.895	11.178	11.496	2.4%
Energy Use & Related Statistics												
Delivered Energy Use	5.766	5.846	5.956	6.092	6.213	6.319	6.410	6.507	6.622	6.745	6.854	2.1%
Total Energy Use	9.131	9.273	9.554	9.709	9.945	10.182	10.406	10.645	10.895	11.178	11.496	2.4%
Population (millions)	23.362	23.696	24.029	24.361	24.693	25.024	25.356	25.688	26.021	26.355	26.690	1.5%

Table 8. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Mountain

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.029	0.026	0.025	0.026	0.026	0.026	0.026	0.025	0.025	0.025	0.025	0.024	0.024
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Liquefied Petroleum Gas	0.026	0.023	0.024	0.023	0.025	0.026	0.027	0.028	0.028	0.029	0.029	0.030	0.031
Petroleum Subtotal	0.057	0.051	0.051	0.052	0.053	0.054	0.055	0.055	0.056	0.056	0.056	0.056	0.057
Natural Gas	0.668	0.657	0.646	0.687	0.693	0.704	0.720	0.733	0.747	0.760	0.770	0.774	0.778
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Renewable Energy 1/ Electricity	0.073 0.453	0.068 0.466	0.067 0.467	0.074 0.481	0.074 0.489	0.075 0.498	0.075 0.511	0.075 0.521	0.075 0.531	0.075 0.541	0.075 0.553	0.075 0.561	0.076 0.570
Delivered Energy	1.252	1.242	1.232	1.295	1.309	1.331	1.361	1.384	1.409	1.432	1.456	1.467	1.481
Electricity Related Losses	0.739	0.729	0.728	0.789	0.794	0.804	0.816	0.823	0.837	0.847	0.857	0.856	0.865
Total	1.991	1.972	1.960	2.084	2.104	2.135	2.178	2.207	2.246	2.279	2.313	2.323	2.346
Commercial													
Distillate Fuel	0.041	0.041	0.042	0.043	0.045	0.047	0.050	0.052	0.053	0.054	0.054	0.054	0.055
Residual Fuel	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Liquefied Petroleum Gas	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Motor Gasoline 2/ Petroleum Subtotal	0.006 0.053	0.006 0.053	0.006 0.055	0.006 0.055	0.006 0.059	0.006 0.061	0.006 0.063	0.006 0.065	0.006 0.066	0.006 0.067	0.006 0.067	0.006 0.068	0.006 0.068
Natural Gas	0.359	0.352	0.350	0.356	0.359	0.365	0.373	0.381	0.390	0.398	0.405	0.412	0.417
Coal	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Renewable Energy 3/ Electricity	0.010 0.534	0.009 0.555	0.009 0.563	0.009 0.572	0.009 0.590	0.009 0.609	0.009 0.630	0.009 0.651	0.009 0.671	0.009 0.692	0.009 0.713	0.009 0.734	0.009 0.755
Delivered Energy	0.963	0.976	0.986	1.000	1.024	1.052	1.083	1.114	1.145	1.174	1.203	1.230	1.257
Electricity Related Losses	0.871	0.870	0.877	0.937	0.959	0.984	1.007	1.029	1.058	1.083	1.106	1.121	1.147
Total	1.834	1.846	1.863	1.938	1.983	2.036	2.090	2.143	2.203	2.258	2.309	2.352	2.404
Industrial 4/													
Distillate Fuel	0.138	0.144	0.147	0.149	0.149	0.150	0.152	0.153	0.154	0.155	0.156	0.158	0.161
Liquefied Petroleum Gas	0.035	0.037	0.036	0.036	0.055	0.058	0.061	0.065	0.068	0.072	0.076	0.081	0.086
Petrochemical Feedstocks	0.013	0.012	0.012	0.013	0.013	0.013	0.014	0.015	0.015	0.015	0.015	0.015	0.015
Residual Fuel	0.006	0.006	0.006	0.007	0.001	0.006	0.010	0.019	0.031	0.032	0.032	0.032	0.030
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.035 0.709 0.937	0.036 0.712 0.947	0.037 0.745 0.982	0.037 0.747 0.990	0.037 0.819 1.075	0.038 0.832 1.098	0.039 0.841 1.117	0.039 0.836 1.127	0.039 0.821 1.128	0.040 0.829 1.143	0.041 0.833 1.153	0.041 0.839 1.166	0.042 0.852 1.185
Natural Gas	0.915	0.858	0.878	0.898	0.943	0.946	0.960	0.963	0.964	0.965	0.965	0.958	0.950
Lease and Plant Fuel 6/ Natural Gas Subtotal	0.339 1.254	0.347 1.206	0.317 1.194	0.310 1.208	0.295 1.238	0.290 1.236	0.287 1.247	0.278 1.241	0.273 1.237	0.274 1.239	0.276 1.241	0.278 1.237	0.280 1.230
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.047	0.048	0.047	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.047	0.048	0.047	0.049	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Renewable Energy 7/ Electricity	0.155 0.294	0.157 0.291	0.168 0.299	0.173 0.305	0.173 0.324	0.178 0.329	0.182 0.335	0.186 0.340	0.189 0.342	0.192 0.346	0.196 0.350	0.199 0.353	0.203 0.357
Delivered Energy	2.687	2.649	2.690	2.723	2.860	2.891	2.932	2.944	2.947	2.970	2.990	3.004	3.026
Electricity Related Losses	0.480	0.455	0.466	0.499	0.527	0.532	0.536	0.537	0.540	0.542	0.542	0.539	0.543
Total	3.167	3.104	3.156	3.223	3.387	3.422	3.467	3.481	3.487	3.512	3.532	3.543	3.568
Transportation													
Distillate Fuel 8/ Jet Fuel 9/ Motor Gasoline 2/ Residual Fuel	0.644 0.870 2.462 0.241	0.657 0.849 2.486 0.230	0.691 0.892 2.534 0.206	0.722 0.920 2.577 0.207	0.740 0.948 2.653 0.208	0.762 0.978 2.727 0.209	0.790 0.998 2.794 0.210	0.815 1.024 2.856 0.211	0.836 1.059 2.922 0.211	0.857 1.089 2.977 0.212	0.876 1.114 3.032 0.212	0.894 1.135 3.085 0.213	0.915 1.155 3.140 0.213
Liquefied Petroleum Gas	0.003	0.004	0.004	0.005	0.007	0.007	0.008	0.008	0.009	0.010	0.010	0.010	0.011

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Petroleum 10/ Petroleum Subtotal	0.028 4.248	0.039 4.265	0.039 4.366	0.039 4.470	0.039 4.595	0.040 4.723	0.040 4.840	0.040 4.955	0.041 5.077	0.041 5.186	0.042 5.285	0.042 5.378	0.043 5.477
Pipeline Fuel Natural Gas	0.030	0.029	0.029	0.031	0.030	0.030	0.030	0.029	0.030	0.031	0.031	0.032	0.032
Compressed Natural Gas	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.008	0.009	0.009	0.010	0.011	0.011
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Electricity	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.015	0.015	0.016	0.016	0.016
Delivered Energy	4.293	4.310	4.412	4.519	4.644	4.773	4.891	5.006	5.131	5.241	5.343	5.437	5.537
Electricity Related Losses	0.020	0.020	0.020	0.022	0.022	0.022	0.023	0.023	0.023	0.024	0.024	0.024	0.025
Total	4.312	4.330	4.432	4.541	4.666	4.796	4.914	5.029	5.154	5.265	5.367	5.461	5.561
Delivered Energy Consumption, All Sectors													
Distillate Fuel	0.852	0.868	0.904	0.940	0.960	0.986	1.017	1.046	1.068	1.090	1.111	1.130	1.154
Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
Jet Fuel 9/	0.870	0.849	0.892	0.920	0.948	0.978	0.998	1.024	1.059	1.089	1.114	1.135	1.155
Liquefied Petroleum Gas	0.069	0.068	0.069	0.070	0.093	0.096	0.101	0.106	0.110	0.115	0.121	0.126	0.133
Motor Gasoline 2/	2.503	2.528	2.577	2.621	2.696	2.771	2.839	2.901	2.967	3.023	3.078	3.132	3.188
Petrochemical Feedstocks	0.013	0.012	0.012	0.013	0.013	0.013	0.014	0.015	0.015	0.015	0.015	0.015	0.015
Residual Fuel	0.249	0.237	0.213	0.215	0.210	0.216	0.221	0.231	0.243	0.245	0.246	0.246	0.244
Other Petroleum 12/ Petroleum Subtotal	0.736 5.294	0.751 5.316	0.783 5.454	0.785 5.567	0.857 5.781	0.871 5.935	0.880 6.075	0.876 6.201	0.862 6.327	0.869 6.451	0.874 6.562	0.880 6.668	0.894 6.787
Natural Gas	1.944	1.870	1.878	1.946	2.000	2.021	2.060	2.085	2.110	2.132	2.151	2.155	2.157
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.339 0.030	0.347 0.029	0.317 0.029	0.310 0.031	0.295 0.030	0.290 0.030	0.287 0.030	0.278 0.029	0.273 0.030	0.274 0.031	0.276 0.031	0.278 0.032	0.280 0.032
Natural Gas Subtotal	2.314	2.246	2.224	2.286	2.325	2.342	2.377	2.391	2.413	2.437	2.458	2.465	2.469
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.055	0.056	0.056	0.057	0.058	0.058	0.059	0.059	0.059	0.059	0.059	0.058	0.058
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.055	0.056	0.056	0.057	0.058	0.058	0.059	0.059	0.059	0.059	0.059	0.058	0.058
Renewable Energy 13/ Liquid Hydrogen	0.238 0.000	0.234 0.000	0.244 0.000	0.256 0.000	0.259 0.000	0.262 0.000	0.267 0.000	0.271 0.000	0.274 0.000	0.277 0.000	0.281 0.000	0.285 0.000	0.289 0.000
Electricity	1.293	1.325	1.342	1.371	1.416	1.451	1.491	1.526	1.559	1.595	1.631	1.664	1.698
Delivered Energy	9.194	9.178	9.320	9.538	9.838	10.047	10.268	10.448	10.632	10.818	10.991	11.139	11.301
Electricity Related Losses	2.111	2.074	2.091	2.247	2.302	2.342	2.381	2.413	2.458	2.495	2.530	2.540	2.580
Total	11.305	11.251	11.411	11.785	12.140	12.389	12.649	12.860	13.090	13.314	13.521	13.679	13.881
Electric Power 14/													
Distillate Fuel	0.005	0.006	0.022	0.022	0.027	0.030	0.024	0.026	0.032	0.032	0.035	0.037	0.039
Residual Fuel	0.032	0.034	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117
Petroleum Subtotal	0.037	0.040	0.116	0.119	0.126	0.131	0.128	0.132	0.141	0.142	0.148	0.152	0.156
Natural Gas	0.840	0.804	0.816	0.796	0.808	0.871	0.949	1.008	1.067	1.135	1.178	1.196	1.223
Steam Coal	0.179	0.203	0.175	0.180	0.185	0.190	0.193	0.193	0.194	0.195	0.195	0.196	0.197
Nuclear Power	0.460	0.452	0.461	0.464	0.465	0.466	0.468	0.470	0.472	0.473	0.473	0.474	0.475
Renewable Energy/Other 15/ Electricity Imports	1.884 0.004	1.897 0.001	1.863 0.001	2.059 0.001	2.133 0.002	2.133 0.001	2.133 0.001	2.134 0.002	2.142 0.002	2.143 0.004	2.163 0.004	2.183 0.004	2.224 0.004
Total	3.404	3.398	3.433	3.618	3.718	3.793	3.872	3.939	4.017	4.090	4.161	4.204	4.278
Total Energy Consumption													
Distillate Fuel	0.857	0.874	0.926	0.963	0.987	1.016	1.041	1.072	1.100	1.122	1.146	1.167	1.193
Kerosene	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
Jet Fuel 9/	0.870	0.849	0.892	0.920	0.948	0.978	0.998	1.024	1.059	1.089	1.114	1.135	1.155
Liquefied Petroleum Gas	0.069	0.068	0.069	0.070	0.093	0.096	0.101	0.106	0.110	0.115	0.121	0.126	0.133
Motor Gasoline 2/	2.503	2.528	2.577	2.621	2.696	2.771	2.839	2.901	2.967	3.023	3.078	3.132	3.188
Petrochemical Feedstocks	0.013	0.012	0.012	0.013	0.013	0.013	0.014	0.015	0.015	0.015	0.015	0.015	0.015
Residual Fuel	0.280	0.272	0.307	0.312	0.309	0.317	0.325	0.337	0.352	0.356	0.359	0.361	0.362
Other Petroleum 12/ Petroleum Subtotal	0.736 5.331	0.751 5.356	0.783 5.570	0.785 5.686	0.857 5.906	0.871 6.067	0.880 6.202	0.876 6.333	0.862 6.468	0.869 6.594	0.874 6.710	0.880 6.820	0.894 6.943
Natural Gas	2.784	2.674	2.694	2.742	2.808	2.892	3.010	3.093	3.177	3.267	3.329	3.350	3.380

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lease and Plant Fuel 6/	0.339	0.347	0.317	0.310	0.295	0.290	0.287	0.278	0.273	0.274	0.276	0.278	0.280
Pipeline Natural Gas	0.030	0.029	0.029	0.031	0.030	0.030	0.030	0.029	0.030	0.031	0.031	0.032	0.032
Natural Gas Subtotal	3.154	3.051	3.040	3.082	3.133	3.212	3.327	3.400	3.480	3.571	3.637	3.660	3.692
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Steam Coal	0.234	0.259	0.231	0.237	0.243	0.248	0.251	0.252	0.253	0.253	0.254	0.254	0.255
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coal Subtotal	0.234	0.259	0.231	0.237	0.243	0.248	0.251	0.252	0.253	0.253	0.254	0.254	0.255
Nuclear Power	0.460	0.452	0.461	0.464	0.465	0.466	0.468	0.470	0.472	0.473	0.473	0.474	0.475
Renewable Energy 16/	2.122	2.132	2.107	2.316	2.391	2.395	2.400	2.404	2.415	2.419	2.443	2.467	2.512
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electricity Imports	0.004	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.004	0.004	0.004	0.004
Total	11.305	11.251	11.411	11.785	12.140	12.389	12.649	12.860	13.090	13.314	13.521	13.679	13.881
Energy Use & Related Statistics													
Delivered Energy Use	9.194	9.178	9.320	9.538	9.838	10.047	10.268	10.448	10.632	10.818	10.991	11.139	11.301
Total Energy Use	11.305	11.251	11.411	11.785	12.140	12.389	12.649	12.860	13.090	13.314	13.521	13.679	13.881
Population (millions)	46.572	47.176	47.771	48.368	48.967	49.567	50.167	50.773	51.384	52.000	52.621	53.249	53.882

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.023	0.023	0.022	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017	-1.9%
Kerosene	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	1.1%
Liquefied Petroleum Gas	0.031	0.032	0.033	0.033	0.034	0.034	0.035	0.036	0.036	0.036	0.036	2.0%
Petroleum Subtotal	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.056	0.056	0.4%
Natural Gas	0.782	0.790	0.795	0.802	0.807	0.813	0.814	0.817	0.822	0.829	0.833	1.1%
Coal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-0.6%
Renewable Energy 1/	0.076	0.076	0.076	0.076	0.076	0.077	0.077	0.077	0.077	0.077	0.077	0.6%
Electricity	0.579	0.589	0.597	0.606	0.615	0.626	0.633	0.642	0.653	0.665	0.673	1.7%
Delivered Energy	1.494	1.513	1.525	1.542	1.557	1.574	1.581	1.594	1.609	1.629	1.640	1.3%
Electricity Related Losses	0.878	0.888	0.879	0.905	0.911	0.917	0.913	0.906	0.918	0.919	0.911	1.0%
Total	2.372	2.401	2.404	2.447	2.468	2.491	2.494	2.500	2.527	2.547	2.551	1.2%
Commercial												
Distillate Fuel	0.056	0.056	0.057	0.057	0.057	0.058	0.059	0.059	0.060	0.060	0.061	1.8%
Residual Fuel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	1.7%
Kerosene	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.4%
Liquefied Petroleum Gas	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.8%
Motor Gasoline 2/	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.3%
Petroleum Subtotal	0.069	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074	0.075	1.6%
Natural Gas	0.423	0.430	0.439	0.448	0.455	0.462	0.469	0.476	0.484	0.492	0.501	1.6%
Coal	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.0%
Renewable Energy 3/	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.0%
Electricity	0.777	0.799	0.823	0.846	0.870	0.894	0.918	0.943	0.971	0.998	1.027	2.8%
Delivered Energy	1.286	1.316	1.349	1.382	1.414	1.445	1.476	1.508	1.544	1.582	1.620	2.3%
Electricity Related Losses	1.178	1.205	1.212	1.264	1.289	1.309	1.324	1.331	1.365	1.380	1.389	2.2%
Total	2.464	2.521	2.560	2.645	2.703	2.753	2.800	2.839	2.909	2.962	3.009	2.2%
Industrial 4/												
Distillate Fuel	0.163	0.165	0.168	0.171	0.173	0.176	0.178	0.180	0.183	0.186	0.188	1.2%
Liquefied Petroleum Gas	0.092	0.099	0.106	0.113	0.122	0.131	0.141	0.152	0.164	0.170	0.178	7.5%
Petrochemical Feedstocks	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.7%
Residual Fuel	0.030	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-6.9%
Motor Gasoline 2/	0.043	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.051	1.6%
Other Petroleum 5/	0.860	0.873	0.866	0.869	0.871	0.873	0.872	0.868	0.871	0.874	0.874	0.9%
Petroleum Subtotal	1.202	1.198	1.199	1.214	1.228	1.242	1.255	1.265	1.282	1.296	1.306	1.5%
Natural Gas	0.935	0.979	1.025	1.029	1.028	1.026	1.029	1.031	1.023	1.041	1.058	1.0%
Lease and Plant Fuel 6/	0.278	0.334	0.393	0.395	0.396	0.395	0.402	0.409	0.405	0.399	0.394	0.6%
Natural Gas Subtotal	1.214	1.314	1.419	1.424	1.425	1.421	1.430	1.439	1.428	1.441	1.452	0.8%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.2%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.2%
Renewable Energy 7/	0.207	0.210	0.215	0.220	0.226	0.231	0.236	0.241	0.247	0.252	0.258	2.3%
Electricity	0.361	0.365	0.372	0.379	0.385	0.391	0.396	0.402	0.409	0.417	0.425	1.7%
Delivered Energy	3.033	3.137	3.255	3.287	3.313	3.334	3.367	3.397	3.416	3.456	3.490	1.3%
Electricity Related Losses	0.547	0.551	0.549	0.565	0.570	0.572	0.571	0.567	0.575	0.576	0.574	1.1%
Total	3.580	3.688	3.804	3.852	3.883	3.906	3.938	3.965	3.991	4.032	4.065	1.2%
Transportation												
Distillate Fuel 8/	0.933	0.949	0.969	0.990	1.010	1.029	1.047	1.066	1.088	1.110	1.131	2.5%
Jet Fuel 9/	1.174	1.190	1.208	1.227	1.246	1.260	1.272	1.282	1.293	1.302	1.309	2.0%
Motor Gasoline 2/	3.198	3.250	3.301	3.354	3.407	3.456	3.509	3.563	3.617	3.683	3.746	1.9%
Residual Fuel	0.214	0.214	0.215	0.216	0.217	0.217	0.218	0.218	0.219	0.220	0.220	-0.2%
Liquefied Petroleum Gas	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	6.5%

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Other Petroleum 10/ Petroleum Subtotal	0.043 5.573	0.044 5.658	0.044 5.750	0.045 5.844	0.046 5.937	0.046 6.022	0.047 6.106	0.048 6.191	0.048 6.279	0.049 6.378	0.050 6.470	1.2% 1.9%
Pipeline Fuel Natural Gas	0.033	0.076	0.118	0.118	0.118	0.117	0.126	0.136	0.135	0.134	0.133	7.1%
Compressed Natural Gas	0.012	0.012	0.013	0.013	0.014	0.014	0.015	0.015	0.015	0.015	0.016	7.4%
Renewable Energy (E85) 11/ Liquid Hydrogen	0.000 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.001	0.001 0.001	6.9% N/A
Electricity	0.017	0.017	0.017	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.021	2.3%
Delivered Energy	5.635	5.764	5.899	5.995	6.088	6.173	6.267	6.362	6.449	6.550	6.642	2.0%
Electricity Related Losses	0.025	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.028	0.028	0.028	1.7%
Total	5.660	5.790	5.924	6.021	6.115	6.200	6.294	6.390	6.477	6.578	6.670	2.0%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	1.175	1.192	1.215	1.239	1.262	1.283	1.303	1.325	1.349	1.373	1.396	2.2%
Kerosene	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.8%
Jet Fuel 9/	1.174	1.190	1.208	1.227	1.246	1.260	1.272	1.282	1.293	1.302	1.309	2.0%
Liquefied Petroleum Gas	0.140	0.148	0.156	0.165	0.174	0.184	0.195	0.207	0.219	0.226	0.234	5.8%
Motor Gasoline 2/	3.247	3.299	3.351	3.405	3.459	3.509	3.563	3.618	3.673	3.740	3.803	1.9%
Petrochemical Feedstocks	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.7%
Residual Fuel	0.245	0.219	0.218	0.218	0.219	0.220	0.220	0.221	0.221	0.222	0.223	-0.3%
Other Petroleum 12/ Petroleum Subtotal	0.902 6.901	0.916 6.982	0.910 7.077	0.914 7.186	0.916 7.293	0.919 7.393	0.919 7.490	0.915 7.585	0.919 7.691	0.923 7.804	0.923 7.907	0.9% 1.8%
Natural Gas	2.153	2.212	2.272	2.292	2.305	2.315	2.325	2.338	2.344	2.379	2.408	1.2%
Lease and Plant Fuel 6/ Pipeline Natural Gas	0.278 0.033	0.334 0.076	0.393 0.118	0.395 0.118	0.396 0.118	0.395 0.117	0.402 0.126	0.409 0.136	0.405 0.135	0.399 0.134	0.394 0.133	0.6% 7.1%
Natural Gas Subtotal	2.464	2.622	2.783	2.806	2.819	2.827	2.853	2.883	2.883	2.912	2.935	1.2%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.2%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.2%
Renewable Energy 13/ Liquid Hydrogen	0.293 0.000	0.297 0.000	0.301 0.000	0.307 0.000	0.313 0.000	0.318 0.000	0.323 0.000	0.329 0.000	0.335 0.000	0.340 0.001	0.346 0.001	1.8% N/A
Electricity	1.732	1.770	1.809	1.849	1.889	1.929	1.966	2.007	2.052	2.101	2.146	2.2%
Delivered Energy	11.448	11.729	12.028	12.206	12.371	12.525	12.691	12.862	13.019	13.216	13.392	1.7%
Electricity Related Losses	2.628	2.670	2.665	2.760	2.797	2.824	2.835	2.831	2.886	2.903	2.902	1.5%
Total	14.076	14.399	14.693	14.966	15.168	15.350	15.526	15.693	15.905	16.119	16.294	1.7%
Electric Power 14/												
Distillate Fuel	0.039	0.036	0.026	0.027	0.027	0.027	0.028	0.028	0.029	0.029	0.030	7.6%
Residual Fuel	0.119	0.122	0.124	0.127	0.130	0.132	0.135	0.137	0.140	0.143	0.146	6.8%
Petroleum Subtotal	0.158	0.158	0.151	0.154	0.157	0.159	0.162	0.165	0.169	0.173	0.176	6.9%
Natural Gas	1.258	1.303	1.308	1.410	1.419	1.418	1.401	1.391	1.341	1.340	1.288	2.2%
Steam Coal	0.197	0.198	0.199	0.199	0.200	0.201	0.202	0.203	0.277	0.278	0.290	1.6%
Nuclear Power	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.2%
Renewable Energy/Other 15/ Electricity Imports	2.267 0.005	2.302 0.005	2.339 0.004	2.368 0.003	2.432 0.003	2.497 0.004	2.559 0.003	2.600 0.004	2.673 0.004	2.737 0.002	2.818 0.003	1.8% 4.1%
Total	4.360	4.441	4.474	4.609	4.686	4.754	4.802	4.838	4.938	5.004	5.049	1.8%
Total Energy Consumption												
Distillate Fuel	1.214	1.228	1.242	1.266	1.289	1.311	1.331	1.353	1.378	1.402	1.426	2.2%
Kerosene	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.8%
Jet Fuel 9/	1.174	1.190	1.208	1.227	1.246	1.260	1.272	1.282	1.293	1.302	1.309	2.0%
Liquefied Petroleum Gas	0.140	0.148	0.156	0.165	0.174	0.184	0.195	0.207	0.219	0.226	0.234	5.8%
Motor Gasoline 2/	3.247	3.299	3.351	3.405	3.459	3.509	3.563	3.618	3.673	3.740	3.803	1.9%
Petrochemical Feedstocks	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.7%
Residual Fuel	0.364	0.341	0.342	0.346	0.349	0.352	0.355	0.358	0.362	0.366	0.369	1.4%
Other Petroleum 12/ Petroleum Subtotal	0.902 7.059	0.916 7.140	0.910 7.227	0.914 7.340	0.916 7.450	0.919 7.552	0.919 7.652	0.915 7.751	0.919 7.860	0.923 7.977	0.923 8.083	0.9% 1.9%
Natural Gas	3.411	3.515	3.580	3.702	3.725	3.734	3.727	3.730	3.685	3.719	3.697	1.5%

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lease and Plant Fuel 6/	0.278	0.334	0.393	0.395	0.396	0.395	0.402	0.409	0.405	0.399	0.394	0.6%
Pipeline Natural Gas	0.033	0.076	0.118	0.118	0.118	0.117	0.126	0.136	0.135	0.134	0.133	7.1%
Natural Gas Subtotal	3.722	3.926	4.091	4.216	4.238	4.246	4.255	4.275	4.224	4.253	4.224	1.5%
Metallurgical Coal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Steam Coal	0.255	0.256	0.257	0.258	0.258	0.259	0.260	0.261	0.335	0.336	0.348	1.3%
Net Coal Coke Imports	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
Coal Subtotal	0.255	0.256	0.257	0.258	0.258	0.259	0.260	0.261	0.335	0.336	0.348	1.3%
Nuclear Power	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.475	0.2%
Renewable Energy 16/	2.559	2.598	2.639	2.674	2.744	2.815	2.881	2.928	3.007	3.076	3.163	1.8%
Liquid Hydrogen	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	N/A
Electricity Imports	0.005	0.005	0.004	0.003	0.003	0.004	0.003	0.004	0.004	0.002	0.003	4.1%
Total	14.076	14.399	14.693	14.966	15.168	15.350	15.526	15.693	15.905	16.119	16.294	1.7%
Energy Use & Related Statistics												
Delivered Energy Use	11.448	11.729	12.028	12.206	12.371	12.525	12.691	12.862	13.019	13.216	13.392	1.7%
Total Energy Use	14.076	14.399	14.693	14.966	15.168	15.350	15.526	15.693	15.905	16.119	16.294	1.7%
Population (millions)	54.519	55.161	55.807	56.456	57.110	57.767	58.432	59.105	59.786	60.477	61.177	1.2%

Table 9. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) Pacific

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Consumption													
Residential													
Distillate Fuel	0.92	0.96	0.91	0.88	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.89	0.88
Kerosene	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Liquefied Petroleum Gas	0.57	0.54	0.56	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.59	0.60
Petroleum Subtotal	1.54	1.58	1.56	1.49	1.50	1.52	1.54	1.55	1.56	1.57	1.58	1.58	1.58
Natural Gas	5.04	5.25	5.10	5.20	5.26	5.37	5.50	5.59	5.68	5.77	5.84	5.86	5.88
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/	0.39	0.40	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39
Electricity	4.32	4.37	4.39	4.55	4.63	4.73	4.85	4.93	5.02	5.10	5.19	5.25	5.33
Delivered Energy	11.30	11.61	11.46	11.65	11.80	12.03	12.30	12.48	12.67	12.84	13.02	13.09	13.19
Electricity Related Losses	9.62	9.71	9.72	10.03	10.17	10.38	10.58	10.68	10.80	10.90	11.02	11.11	11.20
Total	20.92	21.31	21.17	21.68	21.97	22.41	22.87	23.16	23.47	23.75	24.04	24.20	24.40
Commercial													
Distillate Fuel	0.50	0.52	0.53	0.52	0.54	0.57	0.59	0.60	0.62	0.62	0.63	0.64	0.65
Residual Fuel	0.08	0.07	0.06	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Kerosene	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Petroleum Subtotal	0.74	0.75	0.76	0.75	0.78	0.81	0.83	0.84	0.86	0.87	0.88	0.88	0.90
Natural Gas	3.20	3.22	3.19	3.15	3.20	3.28	3.36	3.42	3.49	3.54	3.58	3.62	3.65
Coal	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Energy 3/	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Electricity	4.12	4.13	4.19	4.31	4.43	4.58	4.73	4.87	5.00	5.13	5.26	5.38	5.50
Delivered Energy	8.23	8.29	8.33	8.40	8.60	8.85	9.10	9.32	9.53	9.72	9.90	10.07	10.24
Electricity Related Losses	9.18	9.18	9.27	9.50	9.75	10.05	10.32	10.55	10.76	10.97	11.17	11.38	11.58
Total	17.40	17.46	17.60	17.90	18.35	18.90	19.42	19.87	20.29	20.69	21.06	21.45	21.81
Industrial 4/													
Distillate Fuel	0.99	1.03	1.03	1.04	1.03	1.04	1.04	1.05	1.04	1.05	1.05	1.06	1.07
Liquefied Petroleum Gas	2.17	2.09	2.16	2.22	2.21	2.21	2.25	2.29	2.30	2.33	2.36	2.38	2.42
Petrochemical Feedstocks	1.22	1.32	1.29	1.36	1.37	1.38	1.42	1.46	1.48	1.49	1.50	1.51	1.52
Residual Fuel	0.21	0.28	0.29	0.28	0.29	0.30	0.30	0.32	0.34	0.34	0.35	0.36	0.39
Motor Gasoline 2/	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33
Other Petroleum 5/	4.26	4.30	4.45	4.46	4.62	4.69	4.77	4.82	4.69	4.61	4.58	4.57	4.61
Petroleum Subtotal	9.15	9.31	9.53	9.68	9.83	9.91	10.09	10.24	10.17	10.14	10.16	10.19	10.33
Natural Gas	7.75	7.19	7.28	7.43	7.62	7.68	7.81	7.88	8.10	8.29	8.40	8.47	8.50
Lease and Plant Fuel 6/	1.14	1.15	1.15	1.16	1.15	1.16	1.18	1.20	1.20	1.23	1.25	1.24	1.25
Natural Gas Subtotal	8.90	8.34	8.42	8.60	8.78	8.84	8.99	9.08	9.31	9.52	9.64	9.71	9.75
Metallurgical Coal	0.65	0.67	0.70	0.66	0.64	0.62	0.59	0.57	0.55	0.54	0.52	0.51	0.49
Steam Coal	1.37	1.39	1.39	1.42	1.40	1.41	1.42	1.42	1.42	1.42	1.42	1.42	1.42
Net Coal Coke Imports	0.06	0.05	0.12	0.09	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05
Coal Subtotal	2.08	2.11	2.21	2.17	2.12	2.09	2.08	2.06	2.03	2.02	2.00	1.98	1.97
Renewable Energy 7/	1.78	1.79	1.89	1.94	1.96	1.98	2.02	2.05	2.07	2.09	2.11	2.13	2.16
Electricity	3.32	3.31	3.44	3.52	3.55	3.61	3.68	3.75	3.78	3.82	3.86	3.89	3.95
Delivered Energy	25.23	24.86	25.49	25.90	26.24	26.44	26.86	27.18	27.35	27.59	27.78	27.91	28.16
Electricity Related Losses	7.38	7.35	7.60	7.76	7.81	7.92	8.03	8.11	8.13	8.17	8.20	8.23	8.30
Total	32.61	32.21	33.09	33.66	34.05	34.36	34.88	35.29	35.47	35.75	35.98	36.14	36.46
Transportation													
Distillate Fuel 8/	5.42	5.54	5.82	6.06	6.20	6.37	6.59	6.79	6.95	7.11	7.25	7.38	7.54
Jet Fuel 9/	3.34	3.26	3.42	3.53	3.63	3.74	3.81	3.91	4.04	4.15	4.24	4.31	4.38
Motor Gasoline 2/	16.48	16.64	16.96	17.22	17.56	17.96	18.36	18.76	19.14	19.47	19.81	20.14	20.48

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	0.65	0.62	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57
Liquefied Petroleum Gas	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07
Other Petroleum 10/ Petroleum Subtotal	0.20 26.10	0.24 26.31	0.24 27.02	0.24 27.65	0.24 28.23	0.25 28.92	0.25 29.63	0.25 30.33	0.26 31.00	0.26 31.61	0.26 32.18	0.26 32.72	0.27 33.30
Pipeline Fuel Natural Gas	0.69	0.65	0.66	0.67	0.67	0.67	0.69	0.70	0.70	0.71	0.72	0.72	0.73
Compressed Natural Gas	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08
Renewable Energy (E85) 11/ Liquid Hydrogen	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Electricity	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10
Delivered Energy	26.88	27.07	27.78	28.43	29.02	29.71	30.45	31.17	31.85	32.48	33.07	33.61	34.21
Electricity Related Losses	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20
Total	27.05	27.24	27.96	28.61	29.20	29.90	30.63	31.36	32.04	32.67	33.26	33.81	34.41
Delivered Energy Consumption, All Sectors													
Distillate Fuel	7.83	8.04	8.29	8.51	8.66	8.86	9.11	9.34	9.51	9.67	9.83	9.96	10.14
Kerosene	0.09	0.11	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14
Jet Fuel 9/ Liquefied Petroleum Gas	3.34 2.86	3.26 2.75	3.42 2.85	3.53 2.88	3.63 2.88	3.74 2.89	3.81 2.95	3.91 3.01	4.04 3.03	4.15 3.07	4.24 3.12	4.31 3.15	4.38 3.19
Motor Gasoline 2/ Petrochemical Feedstocks	16.82 1.22	16.98 1.32	17.31 1.29	17.57 1.36	17.91 1.37	18.31 1.38	18.71 1.42	19.12 1.46	19.49 1.48	19.83 1.49	20.17 1.50	20.50 1.51	20.84 1.52
Residual Fuel	0.93	0.97	0.90	0.91	0.92	0.93	0.93	0.96	0.97	0.98	0.99	1.00	1.03
Other Petroleum 12/ Petroleum Subtotal	4.45 37.53	4.52 37.96	4.67 38.86	4.68 39.57	4.85 40.35	4.92 41.16	5.00 42.08	5.05 42.97	4.93 43.58	4.85 44.18	4.83 44.80	4.81 45.37	4.86 46.10
Natural Gas	16.00	15.68	15.60	15.82	16.13	16.36	16.71	16.94	17.33	17.66	17.89	18.02	18.12
Lease and Plant Fuel 6/ Pipeline Natural Gas	1.14 0.69	1.15 0.65	1.15 0.66	1.16 0.67	1.15 0.67	1.16 0.67	1.18 0.69	1.20 0.70	1.20 0.70	1.23 0.71	1.25 0.72	1.24 0.72	1.25 0.73
Natural Gas Subtotal	17.83	17.48	17.40	17.65	17.95	18.20	18.57	18.84	19.23	19.60	19.85	19.99	20.10
Metallurgical Coal	0.65	0.67	0.70	0.66	0.64	0.62	0.59	0.57	0.55	0.54	0.52	0.51	0.49
Steam Coal	1.47	1.50	1.50	1.53	1.51	1.52	1.53	1.53	1.53	1.53	1.53	1.53	1.53
Net Coal Coke Imports	0.06	0.05	0.12	0.09	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05
Coal Subtotal	2.18	2.22	2.32	2.28	2.23	2.20	2.19	2.17	2.14	2.13	2.11	2.09	2.07
Renewable Energy 13/ Liquid Hydrogen	2.25 0.00	2.28 0.00	2.38 0.00	2.43 0.00	2.45 0.00	2.47 0.00	2.50 0.00	2.53 0.00	2.55 0.00	2.58 0.00	2.60 0.00	2.62 0.00	2.64 0.00
Electricity	11.84	11.88	12.10	12.45	12.70	13.01	13.35	13.64	13.89	14.14	14.40	14.62	14.88
Delivered Energy	71.63	71.82	73.06	74.38	75.67	77.03	78.70	80.15	81.39	82.63	83.76	84.69	85.80
Electricity Related Losses	26.35	26.40	26.76	27.46	27.91	28.54	29.11	29.53	29.88	30.23	30.59	30.92	31.29
Total	97.99	98.22	99.81	101.85	103.58	105.57	107.81	109.68	111.27	112.86	114.34	115.61	117.08
Electric Power 14/													
Distillate Fuel	0.20	0.33	0.32	0.36	0.36	0.38	0.38	0.39	0.39	0.40	0.37	0.38	0.39
Residual Fuel	0.68	0.80	0.88	0.89	0.88	0.89	0.85	0.87	0.87	0.88	0.90	0.90	0.93
Petroleum Subtotal	0.88	1.13	1.20	1.24	1.24	1.27	1.23	1.25	1.26	1.28	1.27	1.28	1.32
Natural Gas	5.76	5.06	5.33	5.26	5.30	5.49	6.01	6.45	6.87	7.32	7.68	8.02	8.33
Steam Coal	19.80	20.49	20.36	21.03	21.49	22.10	22.49	22.70	22.81	22.93	23.13	23.27	23.46
Nuclear Power	8.14	7.97	8.30	8.31	8.35	8.44	8.46	8.46	8.49	8.50	8.53	8.57	8.59
Renewable Energy/Other 15/ Electricity Imports	3.54 0.07	3.62 0.02	3.65 0.01	4.06 0.02	4.21 0.02	4.23 0.02	4.25 0.02	4.28 0.02	4.30 0.03	4.30 0.05	4.32 0.06	4.35 0.05	4.41 0.06
Total	38.19	38.28	38.86	39.91	40.61	41.55	42.46	43.17	43.77	44.38	44.99	45.54	46.16
Total Energy Consumption													
Distillate Fuel	8.03	8.37	8.61	8.87	9.02	9.24	9.49	9.73	9.90	10.07	10.20	10.34	10.53
Kerosene	0.09	0.11	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14
Jet Fuel 9/ Liquefied Petroleum Gas	3.34 2.86	3.26 2.75	3.42 2.85	3.53 2.88	3.63 2.88	3.74 2.89	3.81 2.95	3.91 3.01	4.04 3.03	4.15 3.07	4.24 3.12	4.31 3.15	4.38 3.19
Motor Gasoline 2/ Petrochemical Feedstocks	16.82 1.22	16.98 1.32	17.31 1.29	17.57 1.36	17.91 1.37	18.31 1.38	18.71 1.42	19.12 1.46	19.49 1.48	19.83 1.49	20.17 1.50	20.50 1.51	20.84 1.52

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	1.61	1.77	1.78	1.79	1.80	1.82	1.78	1.82	1.84	1.86	1.88	1.90	1.96
Other Petroleum 12/	4.45	4.52	4.67	4.68	4.85	4.92	5.00	5.05	4.93	4.85	4.83	4.81	4.86
Petroleum Subtotal	38.41	39.09	40.06	40.81	41.59	42.42	43.31	44.22	44.84	45.46	46.06	46.66	47.42
Natural Gas	21.76	20.74	20.93	21.08	21.43	21.86	22.72	23.39	24.21	24.98	25.57	26.04	26.44
Lease and Plant Fuel 6/	1.14	1.15	1.15	1.16	1.15	1.16	1.18	1.20	1.20	1.23	1.25	1.24	1.25
Pipeline Natural Gas	0.69	0.65	0.66	0.67	0.67	0.67	0.69	0.70	0.70	0.71	0.72	0.72	0.73
Natural Gas Subtotal	23.59	22.54	22.73	22.92	23.25	23.69	24.58	25.29	26.11	26.92	27.54	28.00	28.42
Metallurgical Coal	0.65	0.67	0.70	0.66	0.64	0.62	0.59	0.57	0.55	0.54	0.52	0.51	0.49
Steam Coal	21.27	21.99	21.86	22.55	23.01	23.62	24.01	24.23	24.34	24.47	24.66	24.80	24.99
Net Coal Coke Imports	0.06	0.05	0.12	0.09	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05
Coal Subtotal	21.98	22.71	22.68	23.30	23.72	24.30	24.68	24.87	24.95	25.06	25.23	25.36	25.54
Nuclear Power	8.14	7.97	8.30	8.31	8.35	8.44	8.46	8.46	8.49	8.50	8.53	8.57	8.59
Renewable Energy 16/	5.79	5.89	6.02	6.49	6.65	6.70	6.75	6.81	6.85	6.87	6.92	6.97	7.05
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Imports	0.07	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.05	0.06	0.05	0.06
Total	97.99	98.22	99.81	101.85	103.58	105.57	107.81	109.68	111.27	112.86	114.34	115.61	117.08
Energy Use & Related Statistics													
Delivered Energy Use	71.63	71.82	73.06	74.38	75.67	77.03	78.70	80.15	81.39	82.63	83.76	84.69	85.80
Total Energy Use	97.99	98.22	99.81	101.85	103.58	105.57	107.81	109.68	111.27	112.86	114.34	115.61	117.08
Population (millions)	288.60	291.39	294.10	296.79	299.48	302.15	304.79	307.45	310.12	312.78	315.46	318.16	320.85
US GDP (billion 2000 dollars)	10075	10381	10834	11221	11557	11948	12296	12686	13084	13474	13869	14300	14774
Carbon Dioxide Emissions (million metric tons)	5751	5789	5905	6023	6138	6274	6415	6533	6627	6721	6812	6889	6979

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption												
Residential												
Distillate Fuel	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.77	-1.0%
Kerosene	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.8%
Liquefied Petroleum Gas	0.61	0.62	0.62	0.63	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.9%
Petroleum Subtotal	1.58	1.58	1.58	1.57	1.57	1.56	1.55	1.55	1.54	1.54	1.53	-0.1%
Natural Gas	5.90	5.95	5.97	6.00	6.02	6.05	6.05	6.07	6.11	6.15	6.17	0.7%
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.0%
Renewable Energy 1/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	-0.3%
Electricity	5.40	5.49	5.55	5.63	5.70	5.79	5.85	5.93	6.01	6.11	6.18	1.6%
Delivered Energy	13.29	13.43	13.50	13.60	13.68	13.80	13.84	13.94	14.05	14.19	14.26	0.9%
Electricity Related Losses	11.29	11.40	11.47	11.55	11.65	11.77	11.84	11.96	12.09	12.25	12.35	1.1%
Total	24.58	24.82	24.97	25.15	25.33	25.56	25.69	25.90	26.14	26.44	26.62	1.0%
Commercial												
Distillate Fuel	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.77	1.8%
Residual Fuel	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.2%
Kerosene	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.5%
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.5%
Motor Gasoline 2/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.2%
Petroleum Subtotal	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.02	1.4%
Natural Gas	3.69	3.73	3.79	3.83	3.87	3.91	3.95	4.00	4.05	4.11	4.17	1.2%
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-0.1%
Renewable Energy 3/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%
Electricity	5.63	5.77	5.91	6.05	6.19	6.33	6.47	6.62	6.79	6.95	7.12	2.5%
Delivered Energy	10.41	10.60	10.81	11.01	11.19	11.38	11.57	11.78	12.01	12.25	12.49	1.9%
Electricity Related Losses	11.77	11.98	12.21	12.42	12.65	12.86	13.11	13.37	13.65	13.95	14.25	2.0%
Total	22.18	22.58	23.03	23.43	23.84	24.24	24.69	25.16	25.66	26.20	26.74	2.0%
Industrial 4/												
Distillate Fuel	1.08	1.09	1.10	1.11	1.13	1.14	1.15	1.16	1.17	1.18	1.19	0.7%
Liquefied Petroleum Gas	2.44	2.45	2.48	2.52	2.56	2.59	2.62	2.65	2.68	2.71	2.74	1.2%
Petrochemical Feedstocks	1.52	1.51	1.52	1.53	1.54	1.55	1.55	1.56	1.56	1.56	1.57	0.8%
Residual Fuel	0.38	0.36	0.36	0.37	0.38	0.38	0.37	0.36	0.36	0.37	0.38	1.4%
Motor Gasoline 2/	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.9%
Other Petroleum 5/	4.69	4.76	4.82	4.88	4.95	5.02	5.08	5.11	5.14	5.18	5.23	0.9%
Petroleum Subtotal	10.43	10.49	10.61	10.76	10.90	11.03	11.12	11.19	11.27	11.37	11.47	1.0%
Natural Gas	8.50	8.59	8.71	8.78	8.84	8.89	8.96	9.04	9.11	9.19	9.26	1.2%
Lease and Plant Fuel 6/	1.23	1.25	1.31	1.33	1.33	1.32	1.32	1.31	1.30	1.30	1.31	0.6%
Natural Gas Subtotal	9.73	9.84	10.02	10.11	10.17	10.21	10.28	10.34	10.41	10.49	10.57	1.1%
Metallurgical Coal	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	-2.7%
Steam Coal	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	0.1%
Net Coal Coke Imports	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.2%
Coal Subtotal	1.95	1.94	1.92	1.91	1.90	1.89	1.87	1.86	1.85	1.84	1.83	-0.6%
Renewable Energy 7/	2.19	2.20	2.24	2.27	2.31	2.34	2.38	2.41	2.44	2.47	2.50	1.5%
Electricity	3.98	4.00	4.05	4.11	4.15	4.19	4.22	4.26	4.30	4.35	4.39	1.3%
Delivered Energy	28.27	28.46	28.84	29.17	29.43	29.66	29.88	30.06	30.27	30.52	30.76	1.0%
Electricity Related Losses	8.31	8.30	8.36	8.43	8.49	8.52	8.56	8.60	8.65	8.72	8.78	0.8%
Total	36.58	36.76	37.20	37.60	37.92	38.19	38.44	38.66	38.92	39.24	39.53	0.9%
Transportation												
Distillate Fuel 8/	7.67	7.77	7.92	8.07	8.21	8.35	8.47	8.60	8.76	8.91	9.05	2.3%
Jet Fuel 9/	4.45	4.50	4.56	4.63	4.69	4.74	4.78	4.81	4.84	4.87	4.89	1.9%
Motor Gasoline 2/	20.81	21.12	21.43	21.73	22.03	22.31	22.62	22.94	23.28	23.66	24.04	1.7%

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residual Fuel	0.57	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	-0.3%
Liquefied Petroleum Gas	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	6.0%
Other Petroleum 10/	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.31	1.2%
Petroleum Subtotal	33.84	34.31	34.84	35.37	35.88	36.35	36.82	37.31	37.84	38.41	38.97	1.8%
Pipeline Fuel Natural Gas	0.73	0.76	0.81	0.82	0.83	0.82	0.83	0.83	0.83	0.84	0.84	1.2%
Compressed Natural Gas	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	7.6%
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.7%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	2.0%
Delivered Energy	34.75	35.26	35.85	36.39	36.91	37.39	37.86	38.37	38.90	39.48	40.04	1.8%
Electricity Related Losses	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	1.5%
Total	34.96	35.47	36.06	36.60	37.13	37.61	38.09	38.59	39.13	39.72	40.28	1.8%
Delivered Energy Consumption, All Sectors												
Distillate Fuel	10.28	10.40	10.56	10.73	10.88	11.03	11.16	11.30	11.47	11.63	11.78	1.8%
Kerosene	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.6%
Jet Fuel 9/	4.45	4.50	4.56	4.63	4.69	4.74	4.78	4.81	4.84	4.87	4.89	1.9%
Liquefied Petroleum Gas	3.22	3.24	3.28	3.33	3.38	3.42	3.45	3.49	3.52	3.56	3.60	1.2%
Motor Gasoline 2/	21.18	21.49	21.81	22.11	22.41	22.70	23.01	23.33	23.68	24.06	24.45	1.7%
Petrochemical Feedstocks	1.52	1.51	1.52	1.53	1.54	1.55	1.55	1.56	1.56	1.56	1.57	0.8%
Residual Fuel	1.02	1.00	1.00	1.02	1.03	1.03	1.02	1.02	1.02	1.03	1.03	0.3%
Other Petroleum 12/	4.94	5.01	5.08	5.15	5.22	5.30	5.36	5.39	5.42	5.48	5.53	0.9%
Petroleum Subtotal	46.75	47.30	47.96	48.64	49.29	49.90	50.47	51.03	51.64	52.33	52.98	1.5%
Natural Gas	18.17	18.35	18.55	18.70	18.82	18.94	19.06	19.21	19.37	19.56	19.70	1.0%
Lease and Plant Fuel 6/	1.23	1.25	1.31	1.33	1.33	1.32	1.32	1.31	1.30	1.30	1.31	0.6%
Pipeline Natural Gas	0.73	0.76	0.81	0.82	0.83	0.82	0.83	0.83	0.83	0.84	0.84	1.2%
Natural Gas Subtotal	20.13	20.37	20.67	20.85	20.98	21.09	21.20	21.35	21.50	21.70	21.85	1.0%
Metallurgical Coal	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	-2.7%
Steam Coal	1.52	1.52	1.52	1.53	1.52	1.52	1.52	1.52	1.52	1.52	1.52	0.1%
Net Coal Coke Imports	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.2%
Coal Subtotal	2.06	2.04	2.03	2.02	2.01	2.00	1.98	1.97	1.96	1.95	1.94	-0.6%
Renewable Energy 13/	2.67	2.69	2.72	2.75	2.79	2.82	2.85	2.88	2.92	2.94	2.97	1.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity	15.11	15.36	15.62	15.89	16.15	16.41	16.65	16.92	17.21	17.52	17.81	1.9%
Delivered Energy	86.73	87.75	89.00	90.16	91.21	92.23	93.16	94.15	95.23	96.45	97.56	1.4%
Electricity Related Losses	31.57	31.88	32.26	32.62	33.00	33.37	33.74	34.15	34.62	35.15	35.62	1.4%
Total	118.29	119.64	121.26	122.78	124.21	125.60	126.90	128.31	129.85	131.60	133.18	1.4%
Electric Power 14/												
Distillate Fuel	0.40	0.40	0.39	0.40	0.41	0.42	0.43	0.43	0.43	0.44	0.45	1.4%
Residual Fuel	0.92	0.92	0.91	0.94	0.99	0.98	0.99	0.99	0.97	0.97	0.98	0.9%
Petroleum Subtotal	1.32	1.32	1.30	1.34	1.39	1.40	1.42	1.41	1.40	1.41	1.43	1.1%
Natural Gas	8.56	8.82	9.14	9.39	9.55	9.64	9.63	9.64	9.56	9.67	9.61	3.0%
Steam Coal	23.65	23.87	24.16	24.46	24.81	25.28	25.80	26.43	27.20	27.86	28.54	1.5%
Nuclear Power	8.62	8.65	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	0.4%
Renewable Energy/Other 15/	4.46	4.52	4.56	4.60	4.67	4.75	4.82	4.88	4.95	5.04	5.14	1.6%
Electricity Imports	0.07	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.03	0.04	4.1%
Total	46.68	47.24	47.88	48.51	49.14	49.79	50.39	51.08	51.83	52.68	53.43	1.5%
Total Energy Consumption												
Distillate Fuel	10.68	10.80	10.96	11.13	11.29	11.45	11.59	11.73	11.90	12.07	12.23	1.7%
Kerosene	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.6%
Jet Fuel 9/	4.45	4.50	4.56	4.63	4.69	4.74	4.78	4.81	4.84	4.87	4.89	1.9%
Liquefied Petroleum Gas	3.22	3.24	3.28	3.33	3.38	3.42	3.45	3.49	3.52	3.56	3.60	1.2%
Motor Gasoline 2/	21.18	21.49	21.81	22.11	22.41	22.70	23.01	23.33	23.68	24.06	24.45	1.7%
Petrochemical Feedstocks	1.52	1.51	1.52	1.53	1.54	1.55	1.55	1.56	1.56	1.56	1.57	0.8%

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residual Fuel	1.94	1.92	1.91	1.96	2.02	2.01	2.00	2.01	1.99	2.00	2.02	0.6%
Other Petroleum 12/ Petroleum Subtotal	4.94	5.01	5.08	5.15	5.22	5.30	5.36	5.39	5.42	5.48	5.53	0.9%
Natural Gas	26.73	27.17	27.69	28.10	28.37	28.59	28.70	28.85	28.93	29.23	29.32	1.6%
Lease and Plant Fuel 6/ Pipeline Natural Gas	1.23	1.25	1.31	1.33	1.33	1.32	1.32	1.31	1.30	1.30	1.31	0.6%
Natural Gas Subtotal	28.69	29.18	29.81	30.25	30.53	30.73	30.84	30.99	31.06	31.37	31.47	1.5%
Metallurgical Coal	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	-2.7%
Steam Coal	25.17	25.40	25.69	25.99	26.34	26.80	27.33	27.95	28.73	29.39	30.07	1.4%
Net Coal Coke Imports	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.2%
Coal Subtotal	25.71	25.92	26.19	26.49	26.82	27.27	27.79	28.40	29.16	29.81	30.48	1.3%
Nuclear Power	8.62	8.65	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	0.4%
Renewable Energy 16/ Liquid Hydrogen	7.13	7.21	7.27	7.35	7.46	7.57	7.68	7.76	7.86	7.98	8.10	1.5%
Electricity Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	118.29	119.64	121.26	122.78	124.21	125.60	126.90	128.31	129.85	131.60	133.18	1.4%
Energy Use & Related Statistics												
Delivered Energy Use	86.73	87.75	89.00	90.16	91.21	92.23	93.16	94.15	95.23	96.45	97.56	1.4%
Total Energy Use	118.29	119.64	121.26	122.78	124.21	125.60	126.90	128.31	129.85	131.60	133.18	1.4%
Population (millions)	323.55	326.25	328.94	331.63	334.31	336.99	339.68	342.38	345.11	347.86	350.64	0.8%
US GDP (billion 2000 dollars)	15216	15658	16148	16649	17138	17634	18135	18661	19203	19745	20292	3.1%
Carbon Dioxide Emissions (million metric tons)	7052	7135	7236	7334	7427	7520	7610	7712	7826	7949	8062	1.5%

Table 10. Energy Consumption by Sector and Source (Quadrillion Btu per Year, Unless Otherwise Noted) United States

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products

6/ Represents natural gas used in the field gathering and processing plant machinery

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004); 2002 and 2003 population and gross domestic product: Global Insight macroeconomic model T250804. 2002 and 2003 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2003, DOE/EIA-0573(2003) (Washington, DC, December 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a

Table 11. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	14.70	15.75	16.69	16.51	15.21	14.50	14.24	14.19	14.23	14.36	14.54	14.78	15.11
Primary Energy 1/	9.41	10.80	11.75	11.45	10.44	10.00	9.74	9.53	9.45	9.40	9.44	9.55	9.66
Petroleum Products 2/	8.91	10.07	11.30	10.82	9.70	9.29	9.10	8.92	8.92	8.89	8.94	9.04	9.11
Distillate Fuel	8.22	9.40	10.35	9.95	8.90	8.51	8.32	8.14	8.14	8.11	8.15	8.24	8.31
Liquefied Petroleum Gas	16.31	18.27	22.04	21.40	19.42	18.81	18.61	18.32	18.29	18.22	18.28	18.37	18.38
Natural Gas	10.38	12.17	12.58	12.60	11.77	11.27	10.87	10.62	10.38	10.29	10.31	10.44	10.61
Electricity	33.35	34.14	34.74	33.92	31.46	29.65	29.27	29.65	29.99	30.65	31.24	31.78	32.69
Commercial	17.32	18.41	18.13	18.09	16.52	15.35	14.82	14.65	14.56	14.75	15.00	15.43	16.33
Primary Energy 1/	7.74	9.37	9.63	9.45	8.64	8.27	8.05	7.89	7.84	7.88	7.88	7.94	8.03
Petroleum Products 2/	6.93	8.01	8.90	8.51	7.59	7.23	7.10	6.94	7.03	7.11	7.12	7.16	7.19
Distillate Fuel	6.63	7.59	8.34	8.02	7.26	6.94	6.79	6.64	6.77	6.88	6.89	6.93	6.96
Residual Fuel	3.95	4.60	4.69	4.95	4.56	4.14	3.96	3.83	3.78	3.84	3.91	3.96	4.03
Natural Gas	8.33	10.36	10.17	10.17	9.45	9.06	8.76	8.59	8.45	8.45	8.44	8.51	8.64
Electricity	29.62	30.51	29.42	29.14	26.59	24.24	23.19	22.91	22.67	22.94	23.42	24.20	26.00
Industrial 3/	9.04	10.01	10.79	10.79	9.72	8.99	8.58	8.26	8.01	7.97	8.00	8.14	8.44
Primary Energy	5.41	6.62	7.26	7.35	6.49	6.05	5.85	5.68	5.60	5.63	5.65	5.71	5.80
Petroleum Products 2/	5.66	6.38	7.20	7.37	6.41	5.95	5.81	5.65	5.63	5.68	5.72	5.78	5.84
Distillate Fuel	6.69	7.65	8.41	8.08	7.29	6.98	6.92	6.77	7.01	7.39	7.39	7.38	7.38
Liquefied Petroleum Gas	11.90	15.87	19.14	18.59	13.90	13.29	13.10	12.81	12.77	12.70	12.76	12.85	12.86
Residual Fuel	3.92	4.58	4.66	4.92	4.54	4.13	3.94	3.82	3.77	3.83	3.89	3.95	4.02
Natural Gas 4/	5.17	7.09	7.49	7.47	6.72	6.31	6.01	5.82	5.65	5.64	5.63	5.71	5.84
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steam Coal	2.69	2.62	2.63	2.68	2.66	2.64	2.64	2.62	2.61	2.60	2.58	2.58	2.59
Electricity	25.46	26.07	27.01	26.44	24.34	22.28	20.91	19.91	18.83	18.45	18.50	18.94	20.12
Transportation	11.40	12.57	14.22	13.87	13.19	12.64	12.39	12.10	12.05	12.04	11.95	11.92	11.94
Primary Energy	11.34	12.51	14.16	13.82	13.14	12.59	12.35	12.05	12.01	11.99	11.90	11.87	11.89
Petroleum Products 2/	11.35	12.51	14.17	13.82	13.15	12.60	12.36	12.06	12.02	12.01	11.91	11.89	11.91
Distillate Fuel 5/	10.43	11.92	13.12	12.60	12.07	11.83	11.63	11.45	11.62	11.69	11.65	11.59	11.55
Jet Fuel 6/	6.36	6.78	8.53	8.07	7.39	6.98	6.85	6.71	6.62	6.59	6.59	6.62	6.60
Motor Gasoline 7/	12.11	13.26	15.05	14.73	14.04	13.42	13.14	12.81	12.74	12.72	12.58	12.54	12.57
Residual Fuel	3.52	4.14	4.23	4.46	4.01	3.59	3.40	3.28	3.22	3.29	3.36	3.42	3.49
Liquefied Petroleum Gas 8/	13.97	16.36	20.24	20.06	17.54	16.90	16.68	16.36	16.30	16.19	16.22	16.28	16.26
Natural Gas 9/	7.71	8.98	9.95	9.93	9.32	9.03	8.81	8.69	8.60	8.64	8.67	8.79	8.95
Ethanol (E85) 10/	14.65	16.23	19.66	20.80	21.29	20.06	19.85	19.41	18.76	18.61	18.50	18.71	18.91
Electricity	25.97	28.01	29.45	28.58	26.37	24.79	24.29	24.35	24.41	24.86	25.32	25.74	26.56
Average End-Use Energy	12.86	13.97	14.94	14.72	13.69	12.97	12.65	12.44	12.37	12.43	12.49	12.63	12.91
Primary Energy	9.52	10.78	11.96	11.74	10.96	10.49	10.26	10.03	9.99	9.99	9.97	10.01	10.08
Electricity	30.20	31.05	30.94	30.41	27.99	25.90	25.05	24.87	24.69	24.98	25.42	26.05	27.40
Electric Power 11/													
Fossil Fuel Average	3.36	4.52	4.54	4.44	3.99	3.79	3.67	3.55	3.50	3.53	3.57	3.64	3.74
Petroleum Products	4.00	4.96	5.37	5.24	4.56	4.15	3.96	3.83	3.78	3.83	3.89	3.94	4.01
Distillate Fuel	5.66	6.47	7.12	6.85	6.13	5.74	5.55	5.37	5.37	5.34	5.39	5.48	5.54
Residual Fuel	3.88	4.64	5.25	5.13	4.46	4.04	3.86	3.73	3.68	3.74	3.81	3.86	3.93
Natural Gas	4.01	5.91	6.01	5.92	5.24	4.91	4.67	4.54	4.43	4.46	4.51	4.60	4.74
Steam Coal	1.82	1.84	1.85	1.82	1.86	1.83	1.83	1.66	1.67	1.67	1.63	1.63	1.64
Average Price to All Users 12/													
Petroleum Products 2/	9.57	10.54	12.09	11.81	11.03	10.54	10.33	10.07	10.07	10.07	10.01	10.03	10.04
Distillate Fuel	8.55	9.67	10.79	10.41	9.56	9.23	9.08	8.92	9.00	9.04	9.09	9.17	9.20
Jet Fuel	6.36	6.78	8.53	8.07	7.39	6.98	6.85	6.71	6.62	6.59	6.59	6.62	6.60

Table 11. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Liquefied Petroleum Gas	15.06	17.63	21.12	20.46	17.74	17.15	16.96	16.68	16.65	16.58	16.64	16.73	16.73
Motor Gasoline 7/	12.10	13.26	15.04	14.72	14.03	13.40	13.13	12.80	12.73	12.70	12.57	12.52	12.56
Residual Fuel	3.88	4.60	4.93	5.01	4.49	4.07	3.88	3.76	3.71	3.76	3.83	3.88	3.95
Natural Gas	6.38	8.44	8.60	8.56	7.82	7.37	7.03	6.83	6.65	6.64	6.66	6.74	6.88
Coal	1.84	1.86	1.86	1.84	1.88	1.85	1.84	1.69	1.69	1.69	1.65	1.65	1.66
Ethanol (E85) 10/	14.65	16.23	19.66	20.80	21.29	20.06	19.85	19.41	18.76	18.61	18.50	18.71	18.91
Electricity	30.20	31.05	30.94	30.41	27.99	25.90	25.05	24.87	24.69	24.98	25.42	26.05	27.40
Non-Renewable Energy Expenditures by Sector													
(billion 2003 dollars)													
Residential	10.14	11.50	11.89	11.55	10.75	10.39	10.36	10.38	10.46	10.60	10.79	10.95	11.20
Commercial	7.14	7.75	7.53	7.55	7.07	6.72	6.62	6.66	6.73	6.91	7.12	7.40	7.90
Industrial	3.78	4.28	4.68	4.72	4.23	3.94	3.82	3.72	3.62	3.61	3.63	3.69	3.84
Transportation	11.73	13.07	15.17	15.16	14.75	14.47	14.53	14.51	14.76	15.02	15.16	15.38	15.68
Total Non-Renewable Expenditures	32.80	36.60	39.27	38.98	36.79	35.52	35.33	35.28	35.57	36.13	36.70	37.43	38.62
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Expenditures	32.80	36.60	39.27	38.98	36.80	35.52	35.33	35.28	35.57	36.14	36.70	37.43	38.63

Table 11. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	15.17	15.25	15.37	15.59	15.83	15.94	16.11	16.25	16.35	16.53	16.66	0.3%
Primary Energy 1/	9.73	9.80	9.87	10.01	10.14	10.21	10.32	10.41	10.48	10.57	10.65	-0.1%
Petroleum Products 2/	9.17	9.22	9.29	9.41	9.50	9.57	9.65	9.72	9.79	9.86	9.93	-0.1%
Distillate Fuel	8.36	8.40	8.45	8.56	8.62	8.68	8.73	8.78	8.83	8.89	8.94	-0.2%
Liquefied Petroleum Gas	18.50	18.61	18.70	18.79	18.93	19.09	19.26	19.34	19.44	19.54	19.52	0.3%
Natural Gas	10.70	10.78	10.85	11.02	11.21	11.26	11.42	11.54	11.58	11.70	11.79	-0.1%
Electricity	32.51	32.47	32.47	32.71	33.08	33.08	33.22	33.28	33.23	33.41	33.44	-0.1%
Commercial	16.47	16.58	16.72	16.91	17.21	17.35	17.51	17.61	17.61	17.75	17.83	-0.1%
Primary Energy 1/	8.06	8.10	8.13	8.24	8.35	8.37	8.46	8.53	8.53	8.61	8.68	-0.3%
Petroleum Products 2/	7.22	7.25	7.30	7.37	7.43	7.44	7.51	7.56	7.57	7.62	7.72	-0.2%
Distillate Fuel	6.98	7.01	7.06	7.13	7.19	7.19	7.26	7.31	7.31	7.36	7.48	-0.1%
Residual Fuel	4.08	4.12	4.17	4.23	4.29	4.34	4.39	4.44	4.50	4.55	4.60	0.0%
Natural Gas	8.68	8.72	8.73	8.87	9.01	9.02	9.13	9.21	9.21	9.30	9.35	-0.5%
Electricity	26.20	26.29	26.45	26.62	27.02	27.20	27.33	27.36	27.25	27.36	27.33	-0.5%
Industrial 3/	8.51	8.57	8.63	8.77	8.94	9.01	9.13	9.22	9.24	9.35	9.39	-0.3%
Primary Energy	5.85	5.91	5.95	6.06	6.17	6.22	6.33	6.41	6.46	6.53	6.59	0.0%
Petroleum Products 2/	5.90	5.97	6.03	6.11	6.19	6.28	6.39	6.47	6.54	6.60	6.66	0.2%
Distillate Fuel	7.38	7.41	7.45	7.51	7.55	7.52	7.60	7.64	7.61	7.66	7.82	0.1%
Liquefied Petroleum Gas	12.99	13.09	13.18	13.28	13.42	13.57	13.74	13.82	13.92	14.03	14.00	-0.6%
Residual Fuel	4.06	4.11	4.16	4.22	4.27	4.32	4.38	4.43	4.48	4.54	4.59	0.0%
Natural Gas 4/	5.88	5.93	5.95	6.09	6.24	6.25	6.36	6.44	6.45	6.55	6.60	-0.3%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	2.59	2.59	2.58	2.58	2.57	2.56	2.56	2.56	2.56	2.56	2.55	-0.1%
Electricity	20.24	20.35	20.46	20.72	21.16	21.28	21.48	21.62	21.57	21.79	21.83	-0.8%
Transportation	11.97	12.00	12.03	12.07	12.12	12.13	12.18	12.22	12.25	12.29	12.36	-0.1%
Primary Energy	11.92	11.95	11.98	12.02	12.06	12.08	12.13	12.17	12.19	12.24	12.30	-0.1%
Petroleum Products 2/	11.93	11.97	12.00	12.04	12.08	12.09	12.15	12.18	12.21	12.25	12.32	-0.1%
Distillate Fuel 5/	11.51	11.50	11.51	11.52	11.53	11.45	11.50	11.51	11.43	11.44	11.59	-0.1%
Jet Fuel 6/	6.60	6.63	6.65	6.74	6.85	6.86	6.94	6.98	7.02	7.06	7.11	0.2%
Motor Gasoline 7/	12.62	12.66	12.69	12.73	12.78	12.81	12.86	12.90	12.95	12.99	13.04	-0.1%
Residual Fuel	3.53	3.58	3.63	3.69	3.75	3.79	3.85	3.90	3.95	4.01	4.06	-0.1%
Liquefied Petroleum Gas 8/	16.36	16.44	16.49	16.56	16.67	16.79	16.93	16.98	17.06	17.13	17.08	0.2%
Natural Gas 9/	9.01	9.08	9.12	9.27	9.42	9.43	9.54	9.62	9.63	9.72	9.77	0.4%
Ethanol (E85) 10/	18.99	19.06	19.10	19.19	18.74	18.87	19.37	19.33	19.53	19.66	19.80	0.9%
Electricity	26.38	26.29	26.27	26.45	26.76	26.74	26.83	26.83	26.74	26.88	26.88	-0.2%
Average End-Use Energy	12.97	13.03	13.10	13.21	13.36	13.42	13.53	13.61	13.64	13.74	13.81	-0.1%
Primary Energy	10.14	10.20	10.24	10.33	10.42	10.46	10.54	10.61	10.65	10.72	10.79	0.0%
Electricity	27.45	27.51	27.60	27.81	28.20	28.31	28.46	28.51	28.43	28.59	28.59	-0.4%
Electric Power 11/												
Fossil Fuel Average	3.77	3.82	3.87	3.99	4.10	4.11	4.20	4.28	4.31	4.42	4.36	-0.2%
Petroleum Products	4.05	4.10	4.15	4.21	4.26	4.31	4.36	4.42	4.47	4.52	4.58	-0.4%
Distillate Fuel	5.59	5.63	5.68	5.79	5.86	5.91	5.96	6.02	6.07	6.12	6.17	-0.2%
Residual Fuel	3.98	4.02	4.07	4.13	4.19	4.23	4.29	4.34	4.39	4.45	4.50	-0.1%
Natural Gas	4.78	4.84	4.87	5.03	5.19	5.19	5.31	5.41	5.42	5.54	5.59	-0.3%
Steam Coal	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.66	1.69	-0.4%
Average Price to All Users 12/												
Petroleum Products 2/	10.12	10.19	10.26	10.32	10.38	10.44	10.52	10.58	10.64	10.71	10.80	0.1%
Distillate Fuel	9.23	9.27	9.32	9.41	9.47	9.47	9.55	9.59	9.60	9.65	9.77	0.0%
Jet Fuel	6.60	6.63	6.65	6.74	6.85	6.86	6.94	6.98	7.02	7.06	7.11	0.2%

Table 11. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Liquefied Petroleum Gas	16.86	16.97	17.05	17.14	17.28	17.44	17.60	17.67	17.78	17.88	17.85	0.1%
Motor Gasoline 7/	12.61	12.65	12.68	12.72	12.77	12.80	12.85	12.89	12.94	12.98	13.03	-0.1%
Residual Fuel	4.00	4.04	4.09	4.15	4.21	4.26	4.31	4.37	4.42	4.47	4.52	-0.1%
Natural Gas	6.92	6.97	6.97	7.10	7.23	7.25	7.36	7.44	7.43	7.51	7.58	-0.5%
Coal	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.68	1.71	-0.4%
Ethanol (E85) 10/	18.99	19.06	19.10	19.19	18.74	18.87	19.37	19.33	19.53	19.66	19.80	0.9%
Electricity	27.45	27.51	27.60	27.81	28.20	28.31	28.46	28.51	28.43	28.59	28.59	-0.4%
Non-Renewable Energy Expenditures by Sector												
(billion 2003 dollars)												
Residential	11.26	11.37	11.42	11.58	11.75	11.87	11.97	12.08	12.16	12.34	12.42	0.3%
Commercial	8.06	8.21	8.39	8.59	8.85	9.03	9.23	9.41	9.55	9.77	9.96	1.2%
Industrial	3.88	3.90	3.95	4.04	4.15	4.20	4.28	4.34	4.38	4.46	4.51	0.2%
Transportation	15.96	16.23	16.52	16.82	17.12	17.37	17.68	17.99	18.30	18.65	19.06	1.7%
Total Non-Renewable Expenditures	39.16	39.71	40.28	41.04	41.87	42.47	43.16	43.82	44.39	45.22	45.94	1.0%
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.7%
Total Expenditures	39.16	39.71	40.29	41.04	41.87	42.47	43.16	43.82	44.40	45.23	45.95	1.0%

Table 11. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) New England

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 12. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	15.05	15.67	15.73	15.58	14.41	13.64	13.37	13.40	13.40	13.51	13.87	14.10	14.39
Primary Energy 1/	9.09	10.28	11.43	11.25	10.29	9.79	9.44	9.25	9.10	9.04	9.10	9.21	9.37
Petroleum Products 2/	9.29	10.52	11.83	11.34	10.18	9.79	9.61	9.44	9.45	9.43	9.50	9.60	9.68
Distillate Fuel	8.63	9.86	10.86	10.43	9.30	8.91	8.72	8.54	8.54	8.51	8.55	8.64	8.71
Liquefied Petroleum Gas	16.33	18.30	22.07	21.45	19.97	19.36	19.17	18.88	18.84	18.77	18.83	18.92	18.93
Natural Gas	9.00	10.19	11.25	11.23	10.37	9.81	9.38	9.17	8.94	8.86	8.92	9.04	9.24
Electricity	33.79	34.02	29.70	29.12	27.10	25.40	25.27	25.99	26.47	27.14	28.43	28.93	29.51
Commercial	15.17	16.28	15.19	15.19	13.79	12.61	12.20	12.28	12.31	12.56	13.29	13.63	14.11
Primary Energy 1/	6.38	7.98	8.66	8.58	7.86	7.45	7.20	7.09	7.03	7.07	7.11	7.18	7.31
Petroleum Products 2/	6.14	7.15	7.91	7.68	6.95	6.59	6.45	6.29	6.36	6.44	6.46	6.50	6.54
Distillate Fuel	6.33	7.24	7.96	7.65	6.96	6.64	6.51	6.35	6.48	6.59	6.61	6.64	6.67
Residual Fuel	4.40	5.13	5.23	5.52	5.25	4.83	4.62	4.48	4.43	4.48	4.54	4.59	4.64
Natural Gas	6.60	8.47	9.14	9.14	8.40	7.96	7.65	7.55	7.43	7.46	7.51	7.59	7.75
Electricity	30.30	31.23	26.66	25.95	23.37	20.81	20.04	20.34	20.45	20.94	22.69	23.40	24.35
Industrial 3/	6.80	7.69	8.05	8.09	7.31	6.83	6.69	6.60	6.53	6.56	6.75	6.90	7.12
Primary Energy	4.59	5.56	6.22	6.30	5.56	5.18	5.06	4.95	4.91	4.93	4.97	5.03	5.12
Petroleum Products 2/	5.60	6.63	7.72	7.85	6.79	6.28	6.19	6.01	6.00	6.02	6.04	6.10	6.16
Distillate Fuel	6.43	7.36	8.09	7.78	7.03	6.75	6.73	6.57	6.82	7.20	7.19	7.19	7.19
Liquefied Petroleum Gas	12.05	16.07	19.37	18.81	14.35	13.74	13.55	13.26	13.23	13.15	13.21	13.31	13.31
Residual Fuel	4.20	4.89	4.98	5.26	5.05	4.63	4.41	4.28	4.23	4.28	4.33	4.39	4.44
Natural Gas 4/	4.82	6.55	6.89	6.84	6.08	5.61	5.29	5.17	5.04	5.05	5.10	5.18	5.34
Metallurgical Coal	1.87	1.84	1.95	1.89	1.87	1.84	1.84	1.83	1.80	1.78	1.76	1.76	1.76
Steam Coal	1.62	1.60	1.60	1.64	1.62	1.61	1.60	1.60	1.58	1.56	1.56	1.56	1.56
Electricity	18.01	18.49	17.17	16.86	15.95	14.94	14.63	14.60	14.30	14.35	15.26	15.80	16.54
Transportation	10.11	11.69	13.26	12.93	12.05	11.51	11.27	11.01	10.99	10.98	10.91	10.91	10.92
Primary Energy	10.07	11.64	13.23	12.89	12.01	11.47	11.24	10.97	10.95	10.94	10.87	10.86	10.88
Petroleum Products 2/	10.07	11.65	13.23	12.89	12.02	11.48	11.25	10.98	10.96	10.95	10.87	10.87	10.88
Distillate Fuel 5/	9.98	11.41	12.55	12.06	11.40	11.17	10.96	10.78	10.97	11.04	10.99	10.94	10.90
Jet Fuel 6/	6.04	6.44	8.09	7.67	7.03	6.62	6.48	6.35	6.29	6.28	6.31	6.35	6.36
Motor Gasoline 7/	11.35	13.22	14.99	14.67	13.67	13.02	12.74	12.41	12.36	12.34	12.21	12.17	12.19
Residual Fuel	3.87	4.62	4.71	4.97	4.90	4.48	4.25	4.11	4.06	4.11	4.16	4.21	4.27
Liquefied Petroleum Gas 8/	15.33	16.65	20.59	20.40	17.59	16.95	16.73	16.41	16.34	16.24	16.26	16.33	16.31
Natural Gas 9/	7.96	9.81	10.51	10.45	9.83	9.49	9.27	9.18	9.13	9.18	9.23	9.30	9.44
Ethanol (E85) 10/	14.65	16.23	19.66	19.84	19.96	18.79	18.62	18.18	17.53	17.38	17.26	17.48	17.68
Electricity	21.72	24.00	23.76	22.95	21.26	19.95	19.85	20.36	20.68	21.20	22.29	22.78	23.37
Average End-Use Energy	11.42	12.62	13.04	12.87	11.86	11.18	10.93	10.84	10.83	10.90	11.13	11.27	11.47
Primary Energy	8.16	9.55	10.73	10.58	9.74	9.27	9.05	8.86	8.82	8.83	8.83	8.89	8.97
Electricity	28.62	29.25	25.47	24.91	22.95	21.06	20.62	20.98	21.12	21.57	22.97	23.57	24.34
Electric Power 11/													
Fossil Fuel Average	2.33	2.82	3.09	3.03	2.74	2.59	2.51	2.47	2.41	2.42	2.43	2.50	2.58
Petroleum Products	4.49	5.37	5.89	5.80	5.25	4.85	4.69	4.55	4.52	4.55	4.50	4.57	4.63
Distillate Fuel	5.65	6.46	7.11	6.82	6.08	5.69	5.50	5.33	5.33	5.30	5.34	5.43	5.49
Residual Fuel	4.13	4.95	5.60	5.47	4.99	4.57	4.35	4.22	4.17	4.22	4.27	4.32	4.38
Natural Gas	4.10	6.17	6.12	5.93	5.12	4.64	4.36	4.23	4.09	4.11	4.18	4.30	4.49
Steam Coal	1.41	1.43	1.43	1.47	1.44	1.47	1.46	1.47	1.42	1.41	1.41	1.41	1.41
Average Price to All Users 12/													
Petroleum Products 2/	8.91	10.20	11.55	11.29	10.40	9.91	9.77	9.55	9.55	9.56	9.57	9.60	9.63
Distillate Fuel	8.71	9.85	10.93	10.47	9.63	9.33	9.17	9.00	9.10	9.14	9.29	9.35	9.36
Jet Fuel	6.04	6.44	8.09	7.67	7.03	6.62	6.48	6.35	6.29	6.28	6.31	6.35	6.36
Liquefied Petroleum Gas	14.36	17.29	20.77	20.14	17.35	16.77	16.61	16.34	16.33	16.27	16.35	16.46	16.47
Motor Gasoline 7/	11.35	13.22	14.99	14.67	13.66	13.01	12.73	12.40	12.35	12.33	12.20	12.16	12.19

Table 12. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	4.09	4.88	5.31	5.35	5.00	4.58	4.37	4.23	4.18	4.23	4.29	4.34	4.39
Natural Gas	6.55	8.45	8.90	8.84	8.03	7.52	7.10	6.92	6.74	6.71	6.73	6.79	6.93
Coal	1.43	1.45	1.45	1.49	1.46	1.48	1.47	1.48	1.43	1.43	1.42	1.42	1.42
Ethanol (E85) 10/	14.65	16.23	19.66	19.84	19.96	18.79	18.62	18.18	17.53	17.38	17.26	17.48	17.68
Electricity	28.62	29.25	25.47	24.91	22.95	21.06	20.62	20.98	21.12	21.57	22.97	23.57	24.34
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	26.07	29.09	28.10	27.78	25.91	24.89	24.76	24.99	25.18	25.54	26.36	26.73	27.27
Commercial	21.36	23.21	21.42	20.96	19.45	18.20	17.97	18.37	18.64	19.20	20.45	21.09	21.94
Industrial	10.20	11.25	11.92	12.02	10.86	10.20	10.10	10.06	9.94	10.00	10.31	10.53	10.90
Transportation	28.73	33.46	38.89	38.60	36.65	35.74	35.74	35.61	36.21	36.77	37.07	37.55	38.13
Total Non-Renewable Expenditures	86.36	97.01	100.34	99.37	92.87	89.03	88.58	89.03	89.97	91.51	94.20	95.90	98.25
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Total Expenditures	86.36	97.02	100.34	99.37	92.87	89.03	88.58	89.03	89.98	91.52	94.20	95.91	98.26

Table 12. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	14.59	14.67	14.79	15.04	15.31	15.46	15.62	15.71	15.77	15.94	16.07	0.1%
Primary Energy 1/	9.49	9.53	9.60	9.76	9.93	10.03	10.15	10.23	10.27	10.36	10.45	0.1%
Petroleum Products 2/	9.76	9.83	9.90	10.04	10.13	10.22	10.31	10.39	10.47	10.56	10.63	0.0%
Distillate Fuel	8.76	8.80	8.85	8.96	9.02	9.08	9.13	9.18	9.24	9.29	9.34	-0.2%
Liquefied Petroleum Gas	19.06	19.17	19.25	19.35	19.49	19.64	19.81	19.89	20.00	20.10	20.07	0.4%
Natural Gas	9.38	9.40	9.48	9.65	9.85	9.95	10.09	10.17	10.20	10.29	10.39	0.1%
Electricity	29.80	29.90	30.00	30.37	30.78	30.92	31.04	31.00	30.96	31.18	31.29	-0.4%
Commercial	14.47	14.62	14.79	15.12	15.48	15.64	15.83	15.92	15.95	16.17	16.31	0.0%
Primary Energy 1/	7.39	7.40	7.44	7.56	7.69	7.76	7.84	7.89	7.90	7.96	8.03	0.0%
Petroleum Products 2/	6.57	6.61	6.66	6.73	6.79	6.81	6.88	6.93	6.95	7.00	7.10	0.0%
Distillate Fuel	6.69	6.73	6.77	6.85	6.90	6.91	6.98	7.02	7.02	7.08	7.19	0.0%
Residual Fuel	4.70	4.75	4.80	4.87	4.93	4.99	5.04	5.10	5.15	5.21	5.26	0.1%
Natural Gas	7.85	7.85	7.89	8.03	8.19	8.27	8.36	8.42	8.41	8.48	8.54	0.0%
Electricity	25.06	25.36	25.62	26.15	26.74	26.95	27.20	27.23	27.20	27.53	27.68	-0.5%
Industrial 3/	7.28	7.36	7.46	7.64	7.84	7.96	8.09	8.16	8.20	8.29	8.36	0.4%
Primary Energy	5.20	5.24	5.29	5.40	5.52	5.60	5.72	5.79	5.84	5.89	5.95	0.3%
Petroleum Products 2/	6.24	6.31	6.37	6.47	6.58	6.68	6.83	6.92	7.00	7.04	7.08	0.3%
Distillate Fuel	7.19	7.22	7.26	7.31	7.36	7.33	7.41	7.45	7.42	7.47	7.63	0.2%
Liquefied Petroleum Gas	13.44	13.55	13.63	13.73	13.87	14.02	14.19	14.27	14.38	14.48	14.45	-0.5%
Residual Fuel	4.49	4.55	4.60	4.66	4.73	4.79	4.84	4.89	4.95	5.00	5.06	0.2%
Natural Gas 4/	5.44	5.44	5.49	5.63	5.79	5.86	5.96	6.01	6.01	6.08	6.15	-0.3%
Metallurgical Coal	1.75	1.75	1.74	1.74	1.74	1.74	1.73	1.71	1.70	1.69	1.68	-0.4%
Steam Coal	1.56	1.56	1.55	1.55	1.55	1.55	1.56	1.57	1.59	1.60	1.61	0.0%
Electricity	17.05	17.33	17.58	18.06	18.60	18.86	19.05	19.09	19.07	19.30	19.42	0.2%
Transportation	10.95	10.99	11.02	11.07	11.12	11.14	11.20	11.24	11.27	11.32	11.40	-0.1%
Primary Energy	10.91	10.94	10.97	11.02	11.07	11.09	11.15	11.19	11.22	11.27	11.35	-0.1%
Petroleum Products 2/	10.91	10.94	10.97	11.02	11.08	11.09	11.15	11.20	11.22	11.27	11.35	-0.1%
Distillate Fuel 5/	10.86	10.85	10.86	10.87	10.87	10.80	10.85	10.85	10.77	10.79	10.94	-0.2%
Jet Fuel 6/	6.37	6.42	6.45	6.56	6.68	6.70	6.79	6.83	6.88	6.93	6.98	0.4%
Motor Gasoline 7/	12.24	12.28	12.31	12.35	12.41	12.45	12.50	12.54	12.59	12.63	12.68	-0.2%
Residual Fuel	4.32	4.38	4.43	4.50	4.57	4.63	4.68	4.74	4.79	4.85	4.91	0.3%
Liquefied Petroleum Gas 8/	16.40	16.48	16.54	16.60	16.71	16.84	16.98	17.03	17.10	17.18	17.12	0.1%
Natural Gas 9/	9.53	9.56	9.61	9.71	9.82	9.87	9.94	9.98	9.99	10.04	10.08	0.1%
Ethanol (E85) 10/	17.75	17.82	17.87	17.95	17.50	17.64	18.14	18.09	18.30	18.43	18.57	0.6%
Electricity	23.64	23.73	23.83	24.16	24.54	24.66	24.72	24.64	24.59	24.78	24.83	0.2%
Average End-Use Energy	11.62	11.70	11.79	11.95	12.13	12.23	12.34	12.41	12.44	12.56	12.65	0.0%
Primary Energy	9.04	9.09	9.14	9.24	9.34	9.40	9.49	9.55	9.59	9.65	9.73	0.1%
Electricity	24.87	25.12	25.33	25.79	26.31	26.51	26.71	26.73	26.71	26.99	27.12	-0.3%
Electric Power 11/												
Fossil Fuel Average	2.65	2.68	2.73	2.83	2.89	2.96	2.97	2.95	2.93	2.94	2.94	0.2%
Petroleum Products	4.68	4.73	4.79	4.83	4.90	4.95	5.01	5.07	5.13	5.18	5.24	-0.1%
Distillate Fuel	5.54	5.59	5.64	5.74	5.81	5.86	5.92	5.97	6.02	6.07	6.13	-0.2%
Residual Fuel	4.43	4.48	4.54	4.60	4.67	4.72	4.78	4.83	4.89	4.94	5.00	0.0%
Natural Gas	4.61	4.62	4.69	4.85	5.01	5.11	5.20	5.25	5.24	5.32	5.39	-0.6%
Steam Coal	1.41	1.41	1.41	1.41	1.41	1.41	1.42	1.43	1.44	1.45	1.46	0.1%
Average Price to All Users 12/												
Petroleum Products 2/	9.69	9.74	9.79	9.82	9.88	9.92	10.00	10.06	10.11	10.17	10.25	0.0%
Distillate Fuel	9.37	9.39	9.43	9.49	9.52	9.51	9.57	9.60	9.57	9.61	9.74	-0.1%
Jet Fuel	6.37	6.42	6.45	6.56	6.68	6.70	6.79	6.83	6.88	6.93	6.98	0.4%
Liquefied Petroleum Gas	16.61	16.74	16.83	16.94	17.08	17.24	17.42	17.49	17.61	17.71	17.69	0.1%
Motor Gasoline 7/	12.23	12.27	12.30	12.35	12.40	12.44	12.49	12.53	12.58	12.62	12.67	-0.2%

Table 12. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Residual Fuel	4.45	4.50	4.55	4.62	4.69	4.74	4.80	4.85	4.91	4.96	5.02	0.1%
Natural Gas	7.01	7.00	7.03	7.17	7.34	7.39	7.49	7.56	7.57	7.64	7.72	-0.4%
Coal	1.42	1.42	1.42	1.42	1.42	1.42	1.43	1.44	1.45	1.46	1.47	0.1%
Ethanol (E85) 10/	17.75	17.82	17.87	17.95	17.50	17.64	18.14	18.09	18.30	18.43	18.57	0.6%
Electricity	24.87	25.12	25.33	25.79	26.31	26.51	26.71	26.73	26.71	26.99	27.12	-0.3%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	27.65	27.92	28.11	28.58	29.08	29.45	29.69	29.91	30.11	30.56	30.81	0.3%
Commercial	22.65	23.07	23.54	24.25	24.99	25.44	25.96	26.35	26.66	27.29	27.81	0.8%
Industrial	11.14	11.23	11.42	11.75	12.11	12.33	12.54	12.69	12.81	13.00	13.16	0.7%
Transportation	38.72	39.26	39.84	40.48	41.13	41.61	42.24	42.83	43.41	44.11	44.93	1.3%
Total Non-Renewable Expenditures	100.16	101.48	102.91	105.06	107.31	108.82	110.44	111.78	112.99	114.97	116.71	0.8%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.0%
Total Expenditures	100.16	101.49	102.92	105.07	107.32	108.83	110.45	111.79	113.00	114.98	116.72	0.8%

Table 12. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Middle Atlantic

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 13. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	11.91	12.73	13.17	13.29	12.76	12.10	11.66	11.50	11.36	11.38	11.53	11.74	12.00
Primary Energy 1/	7.27	8.70	9.74	9.79	8.97	8.39	7.92	7.67	7.45	7.36	7.44	7.56	7.72
Petroleum Products 2/	10.73	12.04	14.31	13.78	12.39	11.82	11.69	11.44	11.38	11.33	11.40	11.50	11.55
Distillate Fuel	7.75	8.86	9.75	9.37	8.57	8.15	8.05	7.81	7.63	7.58	7.62	7.66	7.72
Liquefied Petroleum Gas	12.05	13.51	16.28	15.81	14.13	13.46	13.28	12.99	12.96	12.89	12.94	13.03	13.04
Natural Gas	6.81	8.29	9.15	9.30	8.54	7.96	7.45	7.20	6.96	6.87	6.95	7.07	7.25
Electricity	24.06	23.86	22.13	21.97	22.08	21.21	20.86	20.91	20.99	21.29	21.58	21.94	22.34
Commercial	13.00	13.22	13.36	13.58	12.87	12.20	11.81	11.72	11.68	11.85	12.12	12.47	12.88
Primary Energy 1/	6.57	7.66	8.08	8.13	7.52	7.08	6.73	6.60	6.50	6.53	6.60	6.69	6.83
Petroleum Products 2/	7.85	8.67	9.54	9.23	8.67	8.15	7.97	7.67	7.63	7.68	7.66	7.66	7.65
Distillate Fuel	5.91	6.75	7.43	7.14	6.66	6.30	6.24	6.04	6.04	6.16	6.18	6.19	6.21
Residual Fuel	3.75	4.37	4.45	4.69	4.33	3.92	3.73	3.60	3.55	3.61	3.66	3.72	3.77
Natural Gas	6.55	7.70	8.08	8.17	7.53	7.07	6.69	6.57	6.45	6.48	6.56	6.67	6.83
Electricity	21.51	20.92	20.47	20.60	19.70	18.74	18.28	18.22	18.23	18.52	18.99	19.59	20.27
Industrial 3/	6.22	7.10	7.80	7.88	7.21	6.82	6.64	6.53	6.46	6.47	6.57	6.72	6.92
Primary Energy	4.51	5.60	6.25	6.36	5.65	5.28	5.10	4.96	4.90	4.92	4.97	5.03	5.13
Petroleum Products 2/	6.25	7.35	8.63	8.74	7.40	6.95	6.86	6.61	6.59	6.62	6.64	6.68	6.73
Distillate Fuel	6.47	7.40	8.14	7.82	7.20	6.84	6.88	6.68	6.82	7.23	7.23	7.22	7.22
Liquefied Petroleum Gas	11.90	15.87	19.14	18.59	14.28	13.60	13.42	13.14	13.11	13.03	13.09	13.18	13.18
Residual Fuel	3.85	4.49	4.58	4.82	4.43	4.02	3.83	3.70	3.65	3.71	3.76	3.82	3.87
Natural Gas 4/	4.34	6.11	6.49	6.60	5.94	5.46	5.06	4.92	4.78	4.80	4.87	4.98	5.14
Metallurgical Coal	1.96	1.93	2.05	1.99	1.97	1.94	1.93	1.93	1.90	1.87	1.85	1.85	1.84
Steam Coal	1.65	1.62	1.65	1.69	1.68	1.66	1.66	1.65	1.65	1.65	1.65	1.64	1.64
Electricity	13.68	13.58	14.35	14.16	13.72	13.14	12.90	12.85	12.71	12.66	12.93	13.35	13.90
Transportation	10.49	11.55	13.05	12.71	12.40	11.78	11.55	11.26	11.27	11.25	11.17	11.17	11.17
Primary Energy	10.47	11.53	13.03	12.70	12.38	11.76	11.53	11.24	11.25	11.23	11.15	11.15	11.15
Petroleum Products 2/	10.47	11.53	13.03	12.70	12.39	11.76	11.54	11.24	11.25	11.24	11.16	11.16	11.15
Distillate Fuel 5/	9.60	10.98	12.08	11.60	11.17	10.94	10.77	10.59	10.74	10.82	10.78	10.72	10.68
Jet Fuel 6/	5.89	6.28	7.91	7.49	6.74	6.26	6.35	6.13	5.92	5.87	5.88	5.92	5.91
Motor Gasoline 7/	11.37	12.41	14.06	13.77	13.60	12.84	12.54	12.20	12.23	12.21	12.08	12.05	12.06
Residual Fuel	3.92	4.58	4.66	4.92	4.78	4.35	4.16	4.03	3.98	4.04	4.09	4.15	4.20
Liquefied Petroleum Gas 8/	17.03	18.81	23.27	23.05	18.13	17.43	17.22	16.91	16.85	16.74	16.76	16.82	16.80
Natural Gas 9/	8.09	9.90	10.42	10.51	9.95	9.56	9.22	9.13	9.02	9.06	9.15	9.27	9.45
Ethanol (E85) 10/	14.65	16.23	19.66	18.83	19.12	17.92	17.75	17.31	16.66	16.51	16.40	16.61	16.81
Electricity	17.36	18.74	18.70	18.12	17.28	16.59	16.35	16.45	16.57	16.80	17.06	17.40	17.79
Average End-Use Energy	9.68	10.57	11.38	11.35	10.82	10.28	10.02	9.85	9.81	9.84	9.93	10.07	10.24
Primary Energy	7.60	8.77	9.84	9.76	9.20	8.70	8.45	8.24	8.19	8.19	8.20	8.26	8.34
Electricity	19.52	19.24	18.76	18.70	18.31	17.53	17.19	17.16	17.16	17.33	17.69	18.15	18.70
Electric Power 11/													
Fossil Fuel Average	1.38	1.42	1.60	1.60	1.54	1.48	1.45	1.44	1.43	1.45	1.45	1.48	1.51
Petroleum Products	5.62	6.39	7.00	6.74	6.17	5.76	5.65	5.42	5.24	5.20	5.23	5.29	5.34
Distillate Fuel	5.68	6.49	7.14	6.86	6.26	5.83	5.73	5.50	5.31	5.26	5.31	5.34	5.40
Residual Fuel	4.24	5.09	5.75	5.62	4.94	4.52	4.34	4.20	4.16	4.21	4.27	4.32	4.37
Natural Gas	3.56	4.95	5.81	5.80	5.10	4.59	4.18	4.04	3.90	3.93	4.03	4.16	4.36
Steam Coal	1.20	1.23	1.22	1.23	1.23	1.22	1.21	1.20	1.19	1.18	1.18	1.18	1.18
Average Price to All Users 12/													
Petroleum Products 2/	9.56	10.63	12.09	11.85	11.26	10.70	10.51	10.24	10.24	10.25	10.20	10.22	10.23
Distillate Fuel	8.81	10.04	11.06	10.63	10.10	9.81	9.71	9.52	9.58	9.66	9.69	9.74	9.71
Jet Fuel	5.89	6.28	7.91	7.49	6.74	6.26	6.35	6.13	5.92	5.87	5.88	5.92	5.91

Table 13. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Liquefied Petroleum Gas	12.02	14.38	17.26	16.85	14.24	13.57	13.39	13.11	13.09	13.02	13.07	13.17	13.18
Motor Gasoline 7/	11.37	12.41	14.06	13.77	13.59	12.83	12.53	12.19	12.22	12.20	12.07	12.04	12.05
Residual Fuel	3.87	4.56	4.80	4.99	4.49	4.08	3.89	3.76	3.71	3.77	3.83	3.87	3.93
Natural Gas	5.66	7.28	7.75	7.85	7.16	6.65	6.20	6.01	5.83	5.79	5.87	5.97	6.13
Coal	1.23	1.26	1.25	1.26	1.26	1.25	1.24	1.22	1.22	1.21	1.21	1.21	1.21
Ethanol (E85) 10/	14.65	16.23	19.66	18.83	19.12	17.92	17.75	17.31	16.66	16.51	16.40	16.61	16.81
Electricity	19.52	19.24	18.76	18.70	18.31	17.53	17.19	17.16	17.16	17.33	17.69	18.15	18.70
Non-Renewable Energy Expenditures by Sector													
(billion 2003 dollars)													
Residential	27.14	29.79	29.78	30.35	29.34	28.29	27.81	27.81	27.85	28.21	28.86	29.45	30.20
Commercial	18.89	19.25	19.35	19.95	19.30	18.78	18.66	18.93	19.23	19.82	20.57	21.44	22.42
Industrial	21.43	23.85	26.81	27.28	24.76	23.46	23.05	22.90	22.70	22.81	23.23	23.77	24.62
Transportation	39.55	44.01	51.13	50.67	50.06	48.37	48.32	47.96	48.73	49.33	49.59	50.14	50.74
Total Non-Renewable Expenditures	107.01	116.91	127.06	128.25	123.46	118.91	117.85	117.59	118.51	120.16	122.25	124.79	127.98
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Total Expenditures	107.01	116.91	127.06	128.26	123.47	118.91	117.85	117.59	118.52	120.17	122.25	124.80	127.98

Table 13. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	12.16	12.19	12.29	12.47	12.72	12.88	13.05	13.11	13.18	13.27	13.39	0.2%
Primary Energy 1/	7.86	7.86	7.90	8.04	8.22	8.36	8.49	8.55	8.58	8.65	8.72	0.0%
Petroleum Products 2/	11.68	11.80	11.91	12.05	12.22	12.40	12.60	12.73	12.86	12.98	12.98	0.3%
Distillate Fuel	7.75	7.83	7.87	8.02	8.16	8.27	8.42	8.55	8.62	8.63	8.56	-0.2%
Liquefied Petroleum Gas	13.16	13.27	13.35	13.44	13.58	13.73	13.90	13.97	14.08	14.17	14.15	0.2%
Natural Gas	7.39	7.37	7.40	7.53	7.71	7.85	7.97	8.03	8.04	8.11	8.19	-0.1%
Electricity	22.44	22.41	22.55	22.75	23.01	23.09	23.22	23.14	23.19	23.21	23.33	-0.1%
Commercial	13.11	13.19	13.36	13.59	13.87	14.06	14.26	14.30	14.39	14.44	14.57	0.4%
Primary Energy 1/	6.94	6.92	6.94	7.05	7.20	7.31	7.42	7.46	7.46	7.52	7.57	-0.1%
Petroleum Products 2/	7.65	7.68	7.70	7.77	7.84	7.87	7.97	8.03	8.04	8.05	8.08	-0.3%
Distillate Fuel	6.22	6.27	6.32	6.41	6.51	6.54	6.66	6.74	6.75	6.78	6.84	0.1%
Residual Fuel	3.83	3.88	3.93	3.99	4.04	4.10	4.16	4.21	4.27	4.32	4.38	0.0%
Natural Gas	6.95	6.93	6.95	7.06	7.22	7.35	7.45	7.49	7.49	7.55	7.61	-0.1%
Electricity	20.58	20.70	21.00	21.31	21.69	21.88	22.13	22.09	22.22	22.22	22.37	0.3%
Industrial 3/	7.06	7.11	7.19	7.34	7.52	7.64	7.78	7.83	7.88	7.92	7.98	0.5%
Primary Energy	5.21	5.23	5.27	5.37	5.49	5.59	5.70	5.76	5.80	5.84	5.89	0.2%
Petroleum Products 2/	6.77	6.83	6.86	6.94	7.04	7.13	7.27	7.36	7.41	7.42	7.43	0.0%
Distillate Fuel	7.22	7.25	7.29	7.35	7.41	7.38	7.48	7.53	7.50	7.54	7.69	0.2%
Liquefied Petroleum Gas	13.31	13.41	13.49	13.59	13.72	13.88	14.05	14.12	14.22	14.32	14.29	-0.5%
Residual Fuel	3.93	3.98	4.04	4.09	4.15	4.20	4.26	4.31	4.37	4.43	4.48	0.0%
Natural Gas 4/	5.27	5.24	5.26	5.38	5.54	5.66	5.76	5.80	5.81	5.87	5.93	-0.1%
Metallurgical Coal	1.84	1.83	1.82	1.82	1.83	1.82	1.81	1.79	1.77	1.76	1.75	-0.4%
Steam Coal	1.65	1.65	1.65	1.65	1.66	1.66	1.67	1.67	1.71	1.71	1.72	0.3%
Electricity	14.20	14.35	14.62	14.91	15.28	15.47	15.66	15.66	15.73	15.78	15.90	0.7%
Transportation	11.20	11.23	11.27	11.32	11.37	11.40	11.46	11.51	11.53	11.57	11.64	0.0%
Primary Energy	11.18	11.21	11.25	11.30	11.35	11.37	11.44	11.48	11.51	11.55	11.62	0.0%
Petroleum Products 2/	11.18	11.22	11.26	11.30	11.35	11.38	11.44	11.49	11.51	11.55	11.62	0.0%
Distillate Fuel 5/	10.64	10.63	10.64	10.65	10.66	10.58	10.63	10.63	10.55	10.57	10.72	-0.1%
Jet Fuel 6/	5.91	5.95	5.97	6.07	6.18	6.27	6.40	6.50	6.58	6.57	6.50	0.2%
Motor Gasoline 7/	12.12	12.16	12.22	12.27	12.32	12.37	12.43	12.48	12.53	12.57	12.63	0.1%
Residual Fuel	4.26	4.31	4.37	4.42	4.48	4.54	4.60	4.65	4.71	4.77	4.83	0.2%
Liquefied Petroleum Gas 8/	16.89	16.97	17.02	17.09	17.19	17.32	17.45	17.50	17.57	17.64	17.59	-0.3%
Natural Gas 9/	9.57	9.54	9.55	9.66	9.80	9.89	9.97	9.99	9.96	10.00	10.03	0.1%
Ethanol (E85) 10/	16.89	16.96	17.00	17.09	16.64	16.77	17.28	17.23	17.43	17.57	17.71	0.4%
Electricity	17.92	17.91	18.04	18.22	18.46	18.57	18.66	18.56	18.60	18.60	18.70	0.0%
Average End-Use Energy	10.37	10.42	10.50	10.63	10.79	10.90	11.03	11.08	11.14	11.20	11.28	0.3%
Primary Energy	8.42	8.45	8.49	8.58	8.68	8.76	8.86	8.91	8.94	9.00	9.06	0.1%
Electricity	18.95	19.05	19.29	19.56	19.90	20.06	20.27	20.24	20.33	20.37	20.52	0.3%
Electric Power 11/												
Fossil Fuel Average	1.54	1.55	1.59	1.63	1.68	1.70	1.73	1.75	1.78	1.82	1.85	1.2%
Petroleum Products	5.38	5.45	5.49	5.64	5.68	5.78	5.92	6.04	6.10	6.12	6.08	-0.2%
Distillate Fuel	5.44	5.51	5.55	5.70	5.85	5.95	6.10	6.23	6.30	6.31	6.25	-0.2%
Residual Fuel	4.43	4.48	4.54	4.59	4.65	4.71	4.76	4.82	4.87	4.93	4.99	-0.1%
Natural Gas	4.50	4.50	4.55	4.69	4.88	5.00	5.11	5.16	5.18	5.26	5.34	0.3%
Steam Coal	1.18	1.18	1.17	1.18	1.18	1.18	1.18	1.18	1.19	1.19	1.19	-0.1%
Average Price to All Users 12/												
Petroleum Products 2/	10.27	10.32	10.36	10.41	10.47	10.51	10.60	10.66	10.69	10.73	10.78	0.1%
Distillate Fuel	9.69	9.69	9.71	9.74	9.77	9.72	9.78	9.81	9.75	9.77	9.90	-0.1%
Jet Fuel	5.91	5.95	5.97	6.07	6.18	6.27	6.40	6.50	6.58	6.57	6.50	0.2%

Table 13. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Liquefied Petroleum Gas	13.30	13.41	13.49	13.59	13.72	13.88	14.04	14.12	14.22	14.32	14.29	0.0%
Motor Gasoline 7/	12.11	12.15	12.21	12.26	12.31	12.36	12.42	12.47	12.52	12.56	12.62	0.1%
Residual Fuel	3.98	4.04	4.09	4.14	4.25	4.30	4.36	4.42	4.47	4.53	4.59	0.0%
Natural Gas	6.24	6.21	6.21	6.32	6.47	6.59	6.69	6.73	6.72	6.77	6.82	-0.3%
Coal	1.21	1.21	1.20	1.21	1.21	1.21	1.21	1.21	1.22	1.22	1.23	-0.1%
Ethanol (E85) 10/	16.89	16.96	17.00	17.09	16.64	16.77	17.28	17.23	17.43	17.57	17.71	0.4%
Electricity	18.95	19.05	19.29	19.56	19.90	20.06	20.27	20.24	20.33	20.37	20.52	0.3%
Non-Renewable Energy Expenditures by Sector												
(billion 2003 dollars)												
Residential	30.67	30.88	31.15	31.68	32.31	32.81	33.17	33.38	33.65	34.05	34.36	0.7%
Commercial	23.12	23.60	24.29	25.05	25.91	26.61	27.37	27.87	28.49	29.07	29.80	2.0%
Industrial	25.12	25.26	25.74	26.47	27.30	27.88	28.46	28.77	29.10	29.41	29.75	1.0%
Transportation	51.40	52.00	52.71	53.43	54.11	54.66	55.37	56.05	56.69	57.45	58.37	1.3%
Total Non-Renewable Expenditures	130.31	131.74	133.89	136.62	139.63	141.96	144.38	146.07	147.93	149.99	152.29	1.2%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.5%
Total Expenditures	130.31	131.75	133.90	136.63	139.64	141.97	144.39	146.08	147.94	150.00	152.30	1.2%

Table 13. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East North Central

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 14. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	12.50	13.39	13.99	14.25	13.62	13.09	12.81	12.68	12.59	12.43	12.44	12.59	12.75
Primary Energy 1/	7.54	9.02	9.81	9.85	9.09	8.57	8.14	7.85	7.64	7.54	7.61	7.73	7.88
Petroleum Products 2/	9.48	10.65	12.72	12.30	11.08	10.46	10.29	10.02	9.97	9.90	9.96	10.05	10.06
Distillate Fuel	7.40	8.46	9.31	8.95	8.08	7.66	7.56	7.32	7.13	7.09	7.13	7.17	7.22
Liquefied Petroleum Gas	9.92	11.12	13.41	13.02	11.73	11.06	10.87	10.59	10.56	10.49	10.54	10.63	10.64
Natural Gas	6.98	8.59	9.01	9.24	8.60	8.10	7.60	7.31	7.06	6.95	7.01	7.15	7.32
Electricity	21.99	21.74	22.03	22.25	21.77	21.18	21.15	21.30	21.37	21.05	20.86	20.91	20.96
Commercial	11.35	12.06	12.58	12.82	12.40	11.98	11.82	11.81	11.82	11.75	11.78	11.96	12.16
Primary Energy 1/	5.99	7.54	7.84	7.99	7.49	7.11	6.79	6.61	6.50	6.51	6.56	6.65	6.78
Petroleum Products 2/	7.60	8.53	9.42	9.16	8.59	8.07	7.89	7.60	7.56	7.61	7.60	7.61	7.62
Distillate Fuel	5.85	6.69	7.36	7.07	6.53	6.18	6.13	5.93	5.94	6.05	6.07	6.08	6.10
Residual Fuel	3.62	4.21	4.30	4.53	4.32	3.90	3.72	3.58	3.54	3.59	3.65	3.70	3.75
Natural Gas	5.89	7.64	7.84	8.08	7.56	7.17	6.80	6.63	6.49	6.50	6.56	6.67	6.83
Electricity	17.95	17.64	18.40	18.40	18.01	17.51	17.50	17.65	17.75	17.51	17.45	17.62	17.81
Industrial 3/	6.08	7.06	7.83	7.78	7.12	6.77	6.64	6.51	6.47	6.44	6.46	6.52	6.61
Primary Energy	4.70	5.86	6.65	6.65	5.91	5.54	5.36	5.17	5.10	5.14	5.15	5.20	5.28
Petroleum Products 2/	6.64	8.06	9.42	9.28	8.00	7.51	7.44	7.18	7.18	7.27	7.27	7.30	7.33
Distillate Fuel	6.40	7.31	8.05	7.73	7.03	6.70	6.78	6.58	6.72	7.13	7.13	7.12	7.12
Liquefied Petroleum Gas	9.18	12.25	14.77	14.34	10.86	10.19	10.01	9.72	9.69	9.62	9.67	9.76	9.77
Residual Fuel	3.62	4.21	4.30	4.53	4.35	3.93	3.75	3.61	3.57	3.62	3.67	3.73	3.78
Natural Gas 4/	3.88	5.44	5.95	6.19	5.63	5.22	4.83	4.62	4.46	4.44	4.49	4.60	4.76
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steam Coal	1.07	1.06	1.07	1.10	1.09	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.06
Electricity	12.62	12.75	13.33	12.92	12.71	12.41	12.43	12.54	12.58	12.29	12.24	12.36	12.48
Transportation	10.26	12.16	13.71	13.35	12.21	11.60	11.38	11.09	11.11	11.09	11.02	11.02	11.02
Primary Energy	10.25	12.15	13.71	13.34	12.20	11.59	11.37	11.07	11.09	11.08	11.01	11.01	11.00
Petroleum Products 2/	10.25	12.15	13.71	13.35	12.20	11.59	11.37	11.08	11.10	11.09	11.02	11.02	11.01
Distillate Fuel 5/	9.44	10.79	11.87	11.41	11.02	10.77	10.61	10.42	10.58	10.66	10.62	10.56	10.52
Jet Fuel 6/	6.23	6.65	8.36	7.91	7.00	6.53	6.62	6.40	6.16	6.09	6.09	6.11	6.09
Motor Gasoline 7/	11.08	13.37	15.15	14.83	13.39	12.62	12.32	11.99	12.01	11.99	11.87	11.84	11.85
Residual Fuel	3.07	3.79	3.87	4.08	3.66	3.24	3.05	2.91	2.86	2.92	2.97	3.03	3.08
Liquefied Petroleum Gas 8/	13.94	16.32	20.19	20.00	14.83	14.13	13.92	13.61	13.55	13.44	13.46	13.53	13.50
Natural Gas 9/	6.54	8.47	9.02	9.25	8.84	8.56	8.26	8.13	8.03	8.07	8.16	8.30	8.48
Ethanol (E85) 10/	14.65	16.23	19.66	18.72	19.08	17.89	17.71	17.28	16.62	16.48	16.36	16.58	16.77
Electricity	15.90	16.59	17.13	16.41	16.08	15.69	15.74	15.93	16.07	15.83	15.73	15.82	15.92
Average End-Use Energy	9.58	10.87	11.86	11.79	10.98	10.50	10.32	10.15	10.14	10.10	10.09	10.16	10.25
Primary Energy	7.79	9.40	10.51	10.39	9.47	8.99	8.76	8.52	8.48	8.48	8.48	8.53	8.59
Electricity	17.85	17.71	18.18	18.17	17.81	17.35	17.35	17.48	17.56	17.29	17.20	17.32	17.45
Electric Power 11/													
Fossil Fuel Average	1.05	1.11	1.22	1.21	1.18	1.15	1.13	1.13	1.12	1.13	1.15	1.17	1.20
Petroleum Products	5.68	6.50	7.19	6.90	6.15	5.73	5.62	5.38	5.18	5.14	5.14	5.19	5.24
Distillate Fuel	5.72	6.55	7.20	6.91	6.15	5.73	5.63	5.39	5.21	5.16	5.20	5.24	5.30
Residual Fuel	3.41	4.08	4.62	4.52	3.94	3.52	3.34	3.20	3.16	3.21	3.26	3.32	3.37
Natural Gas	3.48	5.48	6.06	6.13	5.54	5.09	4.67	4.45	4.27	4.26	4.34	4.47	4.67
Steam Coal	0.94	0.94	0.94	0.94	0.96	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94
Average Price to All Users 12/													
Petroleum Products 2/	9.37	11.11	12.65	12.35	11.19	10.62	10.45	10.17	10.19	10.21	10.17	10.18	10.19
Distillate Fuel	8.48	9.68	10.70	10.30	9.76	9.47	9.41	9.22	9.31	9.42	9.45	9.50	9.48
Jet Fuel	6.23	6.65	8.36	7.91	7.00	6.53	6.62	6.40	6.16	6.09	6.09	6.11	6.09
Liquefied Petroleum Gas	9.59	11.65	14.00	13.63	11.35	10.68	10.50	10.22	10.20	10.12	10.18	10.27	10.28
Motor Gasoline 7/	11.08	13.36	15.14	14.83	13.37	12.60	12.30	11.96	11.99	11.97	11.85	11.82	11.83

Table 14. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	3.55	4.17	4.27	4.49	4.30	3.88	3.70	3.56	3.51	3.57	3.61	3.67	3.72
Natural Gas	5.48	7.17	7.50	7.72	7.13	6.70	6.27	6.03	5.83	5.78	5.82	5.93	6.08
Coal	0.95	0.95	0.96	0.96	0.97	0.97	0.97	0.96	0.96	0.95	0.95	0.96	0.96
Ethanol (E85) 10/	14.65	16.23	19.66	18.72	19.08	17.89	17.71	17.28	16.62	16.48	16.36	16.58	16.77
Electricity	17.85	17.71	18.18	18.17	17.81	17.35	17.35	17.48	17.56	17.29	17.20	17.32	17.45
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	11.65	12.48	13.04	13.50	13.06	12.77	12.75	12.79	12.86	12.85	13.01	13.22	13.46
Commercial	7.57	8.04	8.40	8.65	8.52	8.43	8.50	8.66	8.81	8.90	9.06	9.32	9.60
Industrial	8.35	9.57	10.90	10.96	10.04	9.59	9.51	9.42	9.42	9.42	9.48	9.61	9.83
Transportation	19.22	23.03	26.74	26.57	24.79	24.08	24.18	24.08	24.56	24.93	25.13	25.47	25.83
Total Non-Renewable Expenditures	46.79	53.12	59.10	59.68	56.40	54.86	54.93	54.95	55.65	56.10	56.68	57.63	58.72
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Expenditures	46.79	53.12	59.10	59.69	56.40	54.86	54.94	54.95	55.65	56.10	56.69	57.63	58.72

Table 14. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	12.87	12.95	13.04	13.14	13.32	13.44	13.60	13.65	13.73	13.78	13.85	0.2%
Primary Energy 1/	8.01	8.03	8.03	8.14	8.32	8.48	8.63	8.71	8.77	8.86	8.92	0.0%
Petroleum Products 2/	10.18	10.28	10.35	10.46	10.60	10.75	10.92	11.01	11.11	11.20	11.17	0.2%
Distillate Fuel	7.26	7.33	7.37	7.53	7.67	7.78	7.93	8.05	8.12	8.13	8.07	-0.2%
Liquefied Petroleum Gas	10.76	10.87	10.95	11.04	11.18	11.33	11.50	11.57	11.68	11.77	11.75	0.2%
Natural Gas	7.45	7.45	7.43	7.53	7.73	7.88	8.03	8.11	8.15	8.24	8.32	-0.1%
Electricity	20.93	21.02	21.15	21.17	21.22	21.17	21.20	21.11	21.11	21.02	21.00	-0.2%
Commercial	12.30	12.42	12.55	12.65	12.84	12.96	13.13	13.18	13.27	13.30	13.38	0.5%
Primary Energy 1/	6.88	6.87	6.85	6.94	7.10	7.22	7.34	7.41	7.44	7.51	7.57	0.0%
Petroleum Products 2/	7.64	7.68	7.71	7.79	7.87	7.92	8.02	8.08	8.10	8.13	8.16	-0.2%
Distillate Fuel	6.12	6.16	6.21	6.30	6.40	6.43	6.55	6.63	6.65	6.67	6.73	0.0%
Residual Fuel	3.81	3.86	3.92	3.97	4.03	4.08	4.14	4.19	4.25	4.31	4.36	0.2%
Natural Gas	6.94	6.93	6.89	6.99	7.17	7.31	7.43	7.50	7.53	7.61	7.68	0.0%
Electricity	17.90	18.09	18.30	18.35	18.47	18.50	18.63	18.59	18.67	18.58	18.60	0.2%
Industrial 3/	6.68	6.74	6.78	6.86	6.97	7.05	7.16	7.21	7.25	7.29	7.33	0.2%
Primary Energy	5.35	5.38	5.40	5.48	5.59	5.69	5.80	5.87	5.91	5.96	6.02	0.1%
Petroleum Products 2/	7.37	7.45	7.49	7.56	7.65	7.73	7.86	7.94	7.99	8.01	8.05	0.0%
Distillate Fuel	7.12	7.15	7.19	7.25	7.31	7.28	7.38	7.43	7.40	7.44	7.59	0.2%
Liquefied Petroleum Gas	9.89	10.00	10.08	10.17	10.31	10.46	10.63	10.70	10.81	10.91	10.88	-0.5%
Residual Fuel	3.84	3.89	3.95	4.00	4.06	4.11	4.17	4.22	4.28	4.33	4.39	0.2%
Natural Gas 4/	4.87	4.85	4.82	4.92	5.09	5.22	5.35	5.42	5.45	5.53	5.60	0.1%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	0.1%
Electricity	12.55	12.69	12.83	12.90	12.99	13.02	13.08	13.08	13.11	13.09	13.08	0.1%
Transportation	11.04	11.08	11.11	11.16	11.20	11.22	11.28	11.32	11.34	11.38	11.46	-0.3%
Primary Energy	11.03	11.06	11.10	11.14	11.19	11.21	11.27	11.31	11.33	11.37	11.44	-0.3%
Petroleum Products 2/	11.04	11.07	11.11	11.15	11.19	11.21	11.27	11.32	11.34	11.38	11.45	-0.3%
Distillate Fuel 5/	10.48	10.47	10.48	10.49	10.50	10.42	10.47	10.48	10.40	10.41	10.57	-0.1%
Jet Fuel 6/	6.08	6.10	6.12	6.21	6.31	6.39	6.52	6.61	6.69	6.68	6.60	0.0%
Motor Gasoline 7/	11.91	11.96	12.01	12.06	12.11	12.16	12.21	12.26	12.31	12.36	12.42	-0.3%
Residual Fuel	3.14	3.20	3.25	3.31	3.36	3.42	3.48	3.53	3.59	3.65	3.71	-0.1%
Liquefied Petroleum Gas 8/	13.59	13.67	13.72	13.79	13.90	14.02	14.16	14.20	14.27	14.34	14.29	-0.6%
Natural Gas 9/	8.60	8.59	8.56	8.65	8.82	8.93	9.04	9.09	9.10	9.16	9.20	0.4%
Ethanol (E85) 10/	16.85	16.92	16.97	17.05	16.61	16.74	17.24	17.20	17.40	17.53	17.68	0.4%
Electricity	15.94	16.06	16.20	16.21	16.26	16.25	16.27	16.18	16.19	16.12	16.09	-0.1%
Average End-Use Energy	10.32	10.39	10.45	10.52	10.62	10.70	10.80	10.85	10.90	10.94	11.01	0.1%
Primary Energy	8.66	8.70	8.73	8.79	8.89	8.96	9.06	9.12	9.16	9.22	9.28	-0.1%
Electricity	17.51	17.66	17.83	17.87	17.96	17.97	18.06	18.02	18.06	18.01	18.01	0.1%
Electric Power 11/												
Fossil Fuel Average	1.21	1.21	1.22	1.24	1.25	1.26	1.26	1.27	1.28	1.28	1.28	0.7%
Petroleum Products	5.28	5.36	5.40	5.56	5.70	5.81	5.95	6.09	6.16	6.17	6.12	-0.3%
Distillate Fuel	5.33	5.41	5.45	5.60	5.74	5.85	6.00	6.13	6.20	6.21	6.14	-0.3%
Residual Fuel	3.43	3.48	3.54	3.59	3.65	3.70	3.76	3.81	3.87	3.93	3.98	-0.1%
Natural Gas	4.78	4.78	4.77	4.89	5.07	5.20	5.32	5.39	5.43	5.52	5.57	0.1%
Steam Coal	0.95	0.95	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.97	0.97	0.2%
Average Price to All Users 12/												
Petroleum Products 2/	10.22	10.27	10.31	10.37	10.42	10.46	10.54	10.60	10.63	10.66	10.72	-0.2%
Distillate Fuel	9.45	9.46	9.48	9.51	9.54	9.49	9.56	9.58	9.52	9.55	9.66	0.0%
Jet Fuel	6.08	6.10	6.12	6.21	6.31	6.39	6.52	6.61	6.69	6.68	6.60	0.0%
Liquefied Petroleum Gas	10.40	10.51	10.59	10.68	10.82	10.97	11.14	11.21	11.31	11.41	11.38	-0.1%
Motor Gasoline 7/	11.89	11.94	11.99	12.04	12.09	12.14	12.19	12.24	12.29	12.34	12.40	-0.3%

Table 14. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Residual Fuel	3.78	3.83	3.89	3.94	4.00	4.06	4.11	4.17	4.22	4.28	4.34	0.2%
Natural Gas	6.20	6.18	6.14	6.24	6.41	6.55	6.68	6.75	6.78	6.87	6.94	-0.1%
Coal	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.98	0.98	0.1%
Ethanol (E85) 10/	16.85	16.92	16.97	17.05	16.61	16.74	17.24	17.20	17.40	17.53	17.68	0.4%
Electricity	17.51	17.66	17.83	17.87	17.96	17.97	18.06	18.02	18.06	18.01	18.01	0.1%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	13.66	13.86	13.99	14.18	14.43	14.66	14.84	14.97	15.12	15.30	15.42	1.0%
Commercial	9.83	10.06	10.31	10.54	10.83	11.06	11.35	11.55	11.79	11.99	12.24	1.9%
Industrial	9.96	10.05	10.20	10.41	10.67	10.87	11.09	11.25	11.39	11.52	11.67	0.9%
Transportation	26.22	26.58	27.00	27.41	27.82	28.15	28.57	28.98	29.36	29.81	30.37	1.3%
Total Non-Renewable Expenditures	59.67	60.54	61.50	62.55	63.75	64.73	65.85	66.74	67.66	68.63	69.70	1.2%
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8%
Total Expenditures	59.67	60.55	61.50	62.55	63.75	64.74	65.85	66.74	67.67	68.64	69.70	1.2%

Table 14. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West North Central

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 15. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	18.51	19.02	20.14	20.10	19.21	18.34	17.92	17.82	17.68	17.60	17.63	17.73	17.91
Primary Energy 1/	10.21	11.72	12.32	11.92	10.90	10.33	9.95	9.80	9.64	9.58	9.66	9.76	9.92
Petroleum Products 2/	11.42	12.77	15.05	14.41	13.21	12.80	12.65	12.48	12.46	12.46	12.56	12.69	12.79
Distillate Fuel	8.41	9.62	10.59	10.17	9.14	8.75	8.56	8.38	8.27	8.23	8.28	8.31	8.38
Liquefied Petroleum Gas	15.12	16.94	20.43	19.84	18.31	17.70	17.51	17.22	17.19	17.11	17.17	17.26	17.27
Natural Gas	9.71	11.32	11.22	11.00	10.07	9.46	9.02	8.90	8.70	8.64	8.73	8.83	9.02
Electricity	23.58	23.70	25.03	25.14	24.37	23.32	22.87	22.79	22.67	22.56	22.53	22.61	22.77
Commercial	15.09	15.72	17.13	17.24	16.44	15.65	15.31	15.30	15.26	15.31	15.47	15.66	15.93
Primary Energy 1/	7.31	8.81	9.08	8.89	8.13	7.67	7.41	7.36	7.29	7.36	7.42	7.48	7.62
Petroleum Products 2/	6.91	8.02	8.94	8.74	7.97	7.52	7.35	7.14	7.13	7.20	7.21	7.21	7.23
Distillate Fuel	5.89	6.73	7.41	7.12	6.58	6.24	6.12	5.96	5.99	6.10	6.12	6.12	6.15
Residual Fuel	3.94	4.59	4.68	4.94	4.83	4.41	4.22	4.08	4.03	4.08	4.13	4.18	4.24
Natural Gas	7.62	9.30	9.37	9.18	8.39	7.91	7.60	7.59	7.50	7.56	7.64	7.72	7.90
Electricity	19.22	19.50	21.41	21.56	20.74	19.76	19.36	19.34	19.28	19.28	19.44	19.65	19.94
Industrial 3/	6.54	7.44	8.29	8.32	7.72	7.31	7.15	7.08	7.03	7.05	7.11	7.19	7.32
Primary Energy	4.67	5.71	6.36	6.38	5.71	5.33	5.17	5.07	5.03	5.08	5.12	5.16	5.24
Petroleum Products 2/	5.92	6.79	7.84	7.95	7.17	6.73	6.61	6.39	6.38	6.44	6.45	6.47	6.50
Distillate Fuel	6.20	7.08	7.79	7.49	6.79	6.47	6.48	6.33	6.44	6.81	6.81	6.80	6.80
Liquefied Petroleum Gas	11.45	15.28	18.42	17.88	14.37	13.76	13.57	13.28	13.25	13.17	13.23	13.33	13.33
Residual Fuel	4.00	4.65	4.75	5.01	4.91	4.50	4.30	4.17	4.12	4.17	4.22	4.27	4.32
Natural Gas 4/	4.57	6.44	6.76	6.61	5.78	5.28	4.95	4.94	4.83	4.88	4.96	5.04	5.23
Metallurgical Coal	1.65	1.62	1.77	1.70	1.68	1.66	1.65	1.65	1.62	1.59	1.57	1.56	1.56
Steam Coal	1.89	1.83	1.84	1.88	1.87	1.85	1.85	1.84	1.83	1.84	1.82	1.81	1.81
Electricity	12.68	13.08	14.42	14.40	13.96	13.40	13.18	13.13	13.04	12.92	13.00	13.14	13.37
Transportation	9.98	11.38	12.87	12.55	11.90	11.30	11.07	10.78	10.79	10.79	10.72	10.71	10.72
Primary Energy	9.96	11.36	12.85	12.53	11.88	11.28	11.05	10.76	10.77	10.77	10.70	10.69	10.70
Petroleum Products 2/	9.96	11.36	12.85	12.53	11.88	11.29	11.05	10.77	10.78	10.77	10.70	10.69	10.70
Distillate Fuel 5/	9.12	10.43	11.48	11.02	10.88	10.59	10.43	10.25	10.39	10.46	10.42	10.36	10.32
Jet Fuel 6/	6.14	6.55	8.24	7.79	6.98	6.57	6.57	6.40	6.25	6.21	6.24	6.27	6.27
Motor Gasoline 7/	10.82	12.37	14.02	13.73	12.95	12.23	11.93	11.60	11.60	11.58	11.47	11.43	11.45
Residual Fuel	3.59	4.18	4.26	4.50	4.55	4.12	3.92	3.78	3.73	3.78	3.83	3.88	3.94
Liquefied Petroleum Gas 8/	15.35	16.67	20.62	20.43	18.13	17.49	17.27	16.95	16.89	16.78	16.80	16.87	16.85
Natural Gas 9/	7.00	8.97	9.66	9.54	8.91	8.56	8.37	8.39	8.40	8.52	8.59	8.69	8.87
Ethanol (E85) 10/	14.65	16.23	19.66	19.38	19.57	18.39	18.21	17.78	17.12	16.97	16.86	17.08	17.27
Electricity	18.48	19.05	19.31	19.32	18.58	17.77	17.45	17.42	17.36	17.30	17.35	17.44	17.63
Average End-Use Energy	11.32	12.39	13.65	13.52	12.86	12.26	12.02	11.86	11.85	11.86	11.88	11.95	12.06
Primary Energy	8.57	9.92	11.06	10.84	10.18	9.67	9.45	9.25	9.24	9.27	9.25	9.28	9.34
Electricity	19.64	19.89	21.40	21.50	20.81	19.92	19.56	19.51	19.43	19.37	19.45	19.60	19.83
Electric Power 11/													
Fossil Fuel Average	2.14	2.51	2.57	2.54	2.40	2.28	2.23	2.21	2.19	2.22	2.27	2.32	2.38
Petroleum Products	4.11	5.01	5.66	5.53	5.17	4.76	4.58	4.43	4.37	4.40	4.45	4.50	4.56
Distillate Fuel	5.52	6.31	6.94	6.68	6.00	5.61	5.42	5.24	5.13	5.09	5.14	5.17	5.24
Residual Fuel	3.93	4.71	5.33	5.21	4.93	4.51	4.32	4.18	4.13	4.18	4.23	4.28	4.34
Natural Gas	4.05	5.95	6.35	6.16	5.35	4.84	4.53	4.51	4.40	4.50	4.61	4.73	4.95
Steam Coal	1.61	1.62	1.61	1.62	1.62	1.59	1.59	1.56	1.53	1.53	1.52	1.52	1.52
Average Price to All Users 12/													
Petroleum Products 2/	9.02	10.22	11.57	11.33	10.70	10.17	9.98	9.73	9.75	9.77	9.73	9.74	9.77
Distillate Fuel	8.41	9.49	10.43	10.04	9.69	9.37	9.26	9.10	9.16	9.24	9.27	9.31	9.30
Jet Fuel	6.14	6.55	8.24	7.79	6.98	6.57	6.57	6.40	6.25	6.21	6.24	6.27	6.27
Liquefied Petroleum Gas	13.62	16.29	19.55	18.95	16.69	16.11	15.93	15.65	15.63	15.57	15.63	15.73	15.75
Motor Gasoline 7/	10.82	12.36	14.02	13.73	12.94	12.22	11.92	11.59	11.60	11.58	11.46	11.42	11.44

Table 15. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	3.89	4.63	5.08	5.09	4.88	4.46	4.27	4.13	4.08	4.13	4.18	4.23	4.28
Natural Gas	5.98	7.92	8.22	8.04	7.20	6.69	6.31	6.25	6.08	6.10	6.16	6.23	6.41
Coal	1.63	1.63	1.63	1.63	1.64	1.61	1.60	1.58	1.55	1.55	1.54	1.53	1.53
Ethanol (E85) 10/	14.65	16.23	19.66	19.38	19.57	18.39	18.21	17.78	17.12	16.97	16.86	17.08	17.27
Electricity	19.64	19.89	21.40	21.50	20.81	19.92	19.56	19.51	19.43	19.37	19.45	19.60	19.83
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	31.96	34.04	36.52	37.32	36.55	35.93	36.20	36.80	37.35	37.96	38.84	39.65	40.72
Commercial	20.92	22.10	24.59	25.09	24.71	24.37	24.65	25.38	26.01	26.78	27.74	28.78	29.97
Industrial	15.16	17.31	19.73	20.05	18.46	17.52	17.35	17.37	17.35	17.54	17.81	18.09	18.59
Transportation	47.40	54.57	63.32	63.23	61.38	59.87	60.30	60.38	61.90	63.27	64.20	65.47	66.91
Total Non-Renewable Expenditures	115.43	128.03	144.16	145.69	141.10	137.69	138.50	139.93	142.62	145.55	148.59	152.00	156.20
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Expenditures	115.44	128.03	144.16	145.69	141.10	137.70	138.50	139.94	142.62	145.56	148.60	152.01	156.21

Table 15. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	18.03	18.04	18.13	18.32	18.51	18.62	18.71	18.69	18.70	18.73	18.83	0.0%
Primary Energy 1/	10.06	10.06	10.15	10.32	10.51	10.64	10.73	10.78	10.79	10.84	10.92	-0.3%
Petroleum Products 2/	12.95	13.11	13.26	13.49	13.72	13.92	14.14	14.30	14.49	14.68	14.80	0.7%
Distillate Fuel	8.44	8.50	8.55	8.74	8.87	8.92	8.97	9.02	9.08	9.13	9.18	-0.2%
Liquefied Petroleum Gas	17.40	17.51	17.59	17.69	17.83	17.98	18.15	18.23	18.34	18.44	18.41	0.4%
Natural Gas	9.17	9.13	9.22	9.40	9.59	9.72	9.80	9.83	9.82	9.86	9.94	-0.6%
Electricity	22.83	22.82	22.88	23.04	23.19	23.25	23.31	23.23	23.21	23.18	23.26	-0.1%
Commercial	16.12	16.20	16.34	16.59	16.83	16.99	17.12	17.09	17.16	17.20	17.34	0.4%
Primary Energy 1/	7.72	7.69	7.76	7.90	8.05	8.13	8.19	8.21	8.19	8.23	8.30	-0.3%
Petroleum Products 2/	7.25	7.29	7.34	7.44	7.52	7.53	7.60	7.64	7.65	7.69	7.78	-0.1%
Distillate Fuel	6.18	6.22	6.27	6.38	6.47	6.48	6.55	6.59	6.59	6.64	6.76	0.0%
Residual Fuel	4.29	4.34	4.39	4.43	4.49	4.54	4.59	4.65	4.70	4.75	4.81	0.2%
Natural Gas	8.02	7.97	8.04	8.20	8.37	8.48	8.53	8.54	8.51	8.55	8.61	-0.4%
Electricity	20.13	20.22	20.36	20.62	20.86	21.02	21.13	21.05	21.13	21.14	21.27	0.4%
Industrial 3/	7.42	7.46	7.55	7.69	7.82	7.92	8.02	8.06	8.09	8.13	8.20	0.4%
Primary Energy	5.31	5.33	5.38	5.49	5.60	5.68	5.77	5.82	5.85	5.88	5.93	0.2%
Petroleum Products 2/	6.54	6.60	6.65	6.73	6.82	6.90	7.03	7.12	7.18	7.20	7.24	0.3%
Distillate Fuel	6.80	6.83	6.88	6.94	7.00	6.97	7.05	7.09	7.05	7.11	7.27	0.1%
Liquefied Petroleum Gas	13.46	13.57	13.65	13.75	13.89	14.04	14.21	14.29	14.40	14.50	14.47	-0.2%
Residual Fuel	4.38	4.43	4.47	4.52	4.57	4.63	4.68	4.73	4.79	4.84	4.90	0.2%
Natural Gas 4/	5.36	5.31	5.39	5.55	5.72	5.83	5.88	5.89	5.86	5.90	5.97	-0.3%
Metallurgical Coal	1.56	1.55	1.55	1.55	1.55	1.55	1.54	1.52	1.51	1.50	1.49	-0.4%
Steam Coal	1.81	1.81	1.81	1.81	1.80	1.80	1.80	1.80	1.82	1.82	1.83	0.0%
Electricity	13.52	13.60	13.73	13.93	14.14	14.25	14.33	14.31	14.33	14.35	14.42	0.4%
Transportation	10.75	10.79	10.82	10.87	10.92	10.94	11.01	11.05	11.08	11.13	11.21	-0.1%
Primary Energy	10.73	10.77	10.80	10.85	10.90	10.92	10.98	11.03	11.06	11.10	11.18	-0.1%
Petroleum Products 2/	10.73	10.77	10.81	10.85	10.90	10.92	10.99	11.04	11.06	11.11	11.19	-0.1%
Distillate Fuel 5/	10.28	10.27	10.28	10.29	10.30	10.22	10.27	10.27	10.19	10.21	10.36	0.0%
Jet Fuel 6/	6.28	6.32	6.36	6.46	6.57	6.59	6.79	6.90	6.94	6.99	7.04	0.3%
Motor Gasoline 7/	11.50	11.55	11.59	11.64	11.69	11.74	11.79	11.84	11.89	11.94	11.99	-0.1%
Residual Fuel	3.99	4.04	4.09	4.13	4.18	4.24	4.29	4.35	4.40	4.45	4.51	0.3%
Liquefied Petroleum Gas 8/	16.94	17.02	17.08	17.15	17.26	17.38	17.52	17.57	17.65	17.72	17.66	0.3%
Natural Gas 9/	9.01	9.02	9.11	9.25	9.38	9.47	9.52	9.55	9.55	9.59	9.64	0.3%
Ethanol (E85) 10/	17.35	17.42	17.46	17.55	17.10	17.24	17.74	17.70	17.90	18.03	18.17	0.5%
Electricity	17.71	17.72	17.78	17.91	18.04	18.11	18.11	17.99	17.94	17.90	17.94	-0.3%
Average End-Use Energy	12.15	12.21	12.29	12.41	12.53	12.62	12.71	12.74	12.78	12.83	12.93	0.2%
Primary Energy	9.41	9.45	9.50	9.58	9.67	9.72	9.80	9.86	9.89	9.94	10.02	0.0%
Electricity	19.96	20.03	20.14	20.34	20.55	20.67	20.75	20.69	20.72	20.73	20.83	0.2%
Electric Power 11/												
Fossil Fuel Average	2.42	2.44	2.47	2.52	2.58	2.62	2.63	2.61	2.61	2.62	2.64	0.2%
Petroleum Products	4.62	4.67	4.73	4.83	4.90	4.97	5.03	5.07	5.12	5.18	5.23	0.2%
Distillate Fuel	5.29	5.35	5.41	5.60	5.72	5.78	5.83	5.88	5.93	5.99	6.04	-0.2%
Residual Fuel	4.39	4.44	4.49	4.53	4.59	4.64	4.69	4.75	4.80	4.85	4.91	0.2%
Natural Gas	5.09	5.07	5.18	5.35	5.53	5.64	5.68	5.68	5.65	5.69	5.75	-0.2%
Steam Coal	1.51	1.51	1.51	1.51	1.51	1.51	1.52	1.54	1.56	1.57	1.59	-0.1%
Average Price to All Users 12/												
Petroleum Products 2/	9.81	9.87	9.93	10.01	10.07	10.11	10.19	10.25	10.30	10.35	10.44	0.1%
Distillate Fuel	9.28	9.29	9.32	9.37	9.40	9.35	9.40	9.44	9.39	9.42	9.57	0.0%
Jet Fuel	6.28	6.32	6.36	6.46	6.57	6.59	6.79	6.90	6.94	6.99	7.04	0.3%
Liquefied Petroleum Gas	15.88	16.00	16.09	16.18	16.32	16.48	16.65	16.73	16.84	16.95	16.92	0.2%
Motor Gasoline 7/	11.49	11.54	11.59	11.63	11.68	11.73	11.78	11.83	11.88	11.93	11.99	-0.1%

Table 15. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-
Residual Fuel	4.34	4.39	4.43	4.48	4.53	4.58	4.64	4.69	4.74	4.80	4.85	0.2%
Natural Gas	6.54	6.50	6.58	6.74	6.91	7.02	7.09	7.12	7.10	7.15	7.23	-0.4%
Coal	1.53	1.53	1.53	1.53	1.53	1.53	1.54	1.55	1.57	1.59	1.60	-0.1%
Ethanol (E85) 10/	17.35	17.42	17.46	17.55	17.10	17.24	17.74	17.70	17.90	18.03	18.17	0.5%
Electricity	19.96	20.03	20.14	20.34	20.55	20.67	20.75	20.69	20.72	20.73	20.83	0.2%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	41.63	42.37	43.11	44.16	45.19	46.17	46.90	47.51	48.22	49.07	49.87	1.8%
Commercial	31.05	31.97	33.05	34.28	35.53	36.66	37.75	38.58	39.67	40.73	42.04	3.0%
Industrial	18.93	19.06	19.46	20.04	20.60	21.04	21.44	21.68	21.95	22.24	22.58	1.2%
Transportation	68.42	69.88	71.46	73.07	74.68	76.08	77.80	79.46	81.08	82.93	85.06	2.0%
Total Non-Renewable Expenditures	160.02	163.28	167.08	171.55	176.00	179.95	183.89	187.23	190.91	194.96	199.54	2.0%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	7.6%
Total Expenditures	160.03	163.29	167.09	171.56	176.02	179.96	183.90	187.25	190.93	194.98	199.56	2.0%

Table 15. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) South Atlantic

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 16. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	15.31	15.87	18.10	17.87	17.18	16.40	15.94	15.78	15.61	15.51	15.49	15.56	15.72
Primary Energy 1/	9.27	10.60	11.49	11.16	10.19	9.60	9.15	9.01	8.85	8.79	8.89	9.01	9.17
Petroleum Products 2/	12.91	14.43	17.31	16.71	15.26	14.62	14.43	14.16	14.11	14.04	14.09	14.18	14.20
Distillate Fuel	7.33	8.37	9.22	8.86	8.19	7.77	7.58	7.40	7.29	7.25	7.29	7.33	7.38
Liquefied Petroleum Gas	13.60	15.25	18.38	17.85	16.28	15.59	15.40	15.11	15.08	15.01	15.06	15.16	15.17
Natural Gas	8.37	9.74	10.13	10.00	9.15	8.58	8.09	7.99	7.81	7.76	7.87	7.99	8.19
Electricity	19.59	19.84	23.05	22.84	22.38	21.48	21.04	20.87	20.69	20.56	20.43	20.43	20.54
Commercial	14.09	14.56	15.53	15.40	14.71	14.07	13.74	13.68	13.60	13.62	13.67	13.80	14.02
Primary Energy 1/	7.08	8.17	8.59	8.43	7.73	7.28	6.98	6.94	6.89	6.95	7.02	7.11	7.24
Petroleum Products 2/	7.32	8.69	9.65	9.38	8.48	7.91	7.68	7.42	7.39	7.42	7.41	7.39	7.38
Distillate Fuel	5.63	6.44	7.08	6.81	6.44	6.06	5.95	5.79	5.82	5.92	5.94	5.95	5.97
Residual Fuel	4.13	4.81	4.89	5.17	4.48	4.07	3.88	3.75	3.70	3.76	3.81	3.87	3.93
Natural Gas	7.34	8.49	8.82	8.66	7.93	7.47	7.12	7.13	7.06	7.12	7.22	7.32	7.49
Electricity	18.92	19.09	20.30	20.26	19.56	18.76	18.39	18.27	18.13	18.07	18.06	18.16	18.39
Industrial 3/	6.15	6.97	8.18	8.18	7.55	7.14	6.98	6.91	6.86	6.85	6.90	6.97	7.10
Primary Energy	4.59	5.55	6.39	6.40	5.70	5.31	5.14	5.04	4.98	5.00	5.03	5.08	5.17
Petroleum Products 2/	6.06	7.12	8.38	8.47	7.48	7.00	6.89	6.65	6.63	6.65	6.67	6.70	6.72
Distillate Fuel	5.99	6.85	7.54	7.24	6.74	6.38	6.40	6.24	6.35	6.73	6.73	6.72	6.72
Liquefied Petroleum Gas	10.06	13.42	16.19	15.73	12.75	12.06	11.87	11.58	11.55	11.47	11.53	11.63	11.63
Residual Fuel	3.94	4.59	4.68	4.94	4.21	3.79	3.61	3.48	3.43	3.48	3.54	3.59	3.65
Natural Gas 4/	4.38	5.68	6.37	6.26	5.50	5.01	4.65	4.63	4.52	4.54	4.62	4.72	4.89
Metallurgical Coal	1.77	1.72	1.81	1.78	1.76	1.74	1.74	1.73	1.72	1.72	1.69	1.68	1.67
Steam Coal	1.69	1.62	1.64	1.68	1.67	1.65	1.66	1.67	1.67	1.68	1.66	1.65	1.65
Electricity	11.10	11.37	13.58	13.50	13.10	12.62	12.43	12.40	12.35	12.24	12.27	12.38	12.59
Transportation	10.00	11.43	12.91	12.55	11.91	11.29	11.06	10.79	10.80	10.80	10.73	10.73	10.73
Primary Energy	9.98	11.42	12.89	12.54	11.89	11.28	11.05	10.77	10.79	10.78	10.72	10.72	10.72
Petroleum Products 2/	9.98	11.42	12.89	12.54	11.90	11.28	11.05	10.77	10.79	10.78	10.72	10.72	10.72
Distillate Fuel 5/	9.12	10.43	11.48	11.02	10.92	10.60	10.43	10.25	10.39	10.46	10.42	10.37	10.32
Jet Fuel 6/	5.98	6.39	8.02	7.59	6.79	6.34	6.34	6.18	6.04	6.02	6.06	6.11	6.12
Motor Gasoline 7/	11.08	12.73	14.42	14.12	13.29	12.52	12.22	11.88	11.90	11.88	11.77	11.73	11.75
Residual Fuel	3.24	4.33	4.40	4.65	3.51	3.09	2.90	2.76	2.72	2.77	2.83	2.89	2.95
Liquefied Petroleum Gas 8/	14.61	16.02	19.81	19.62	16.15	15.43	15.21	14.89	14.82	14.72	14.74	14.81	14.79
Natural Gas 9/	9.24	10.94	11.59	11.47	10.77	10.34	10.01	10.01	9.94	10.00	10.07	10.14	10.26
Ethanol (E85) 10/	14.65	16.23	19.66	17.24	18.74	17.71	17.31	16.86	16.91	16.87	16.72	16.67	16.69
Electricity	17.35	18.21	18.20	17.98	17.29	16.59	16.28	16.19	16.10	16.02	15.97	16.00	16.14
Average End-Use Energy	9.72	10.72	12.13	11.96	11.32	10.77	10.54	10.38	10.35	10.34	10.34	10.40	10.49
Primary Energy	7.81	9.08	10.24	10.04	9.36	8.85	8.64	8.46	8.45	8.46	8.47	8.51	8.57
Electricity	16.15	16.31	18.54	18.42	17.94	17.24	16.92	16.82	16.70	16.60	16.57	16.64	16.83
Electric Power 11/													
Fossil Fuel Average	1.59	1.71	1.94	1.86	1.74	1.66	1.67	1.69	1.71	1.74	1.76	1.80	1.88
Petroleum Products	4.60	5.52	6.28	6.08	5.57	5.13	4.87	4.67	4.53	4.52	4.50	4.54	4.51
Distillate Fuel	5.81	6.63	7.31	7.02	6.42	6.00	5.81	5.63	5.52	5.48	5.52	5.56	5.62
Residual Fuel	3.22	3.86	4.36	4.27	3.79	3.38	3.19	3.06	3.02	3.07	3.13	3.18	3.24
Natural Gas	3.55	5.70	6.07	5.83	5.05	4.54	4.20	4.19	4.11	4.17	4.30	4.44	4.65
Steam Coal	1.28	1.28	1.30	1.31	1.31	1.30	1.30	1.29	1.29	1.27	1.26	1.26	1.25
Average Price to All Users 12/													
Petroleum Products 2/	9.10	10.40	11.89	11.63	10.90	10.33	10.14	9.87	9.89	9.90	9.86	9.87	9.87
Distillate Fuel	8.51	9.66	10.74	10.32	10.09	9.75	9.64	9.46	9.53	9.61	9.63	9.67	9.64
Jet Fuel	5.98	6.39	8.02	7.59	6.79	6.34	6.34	6.18	6.04	6.02	6.06	6.11	6.12
Liquefied Petroleum Gas	11.67	14.29	17.13	16.59	14.25	13.57	13.37	13.08	13.04	12.96	13.02	13.11	13.11
Motor Gasoline 7/	11.08	12.73	14.42	14.12	13.28	12.51	12.20	11.87	11.89	11.87	11.76	11.72	11.74

Table 16. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	3.37	4.17	4.48	4.62	3.85	3.43	3.24	3.12	3.07	3.13	3.19	3.25	3.32
Natural Gas	5.27	6.96	7.29	7.17	6.42	5.94	5.51	5.45	5.30	5.30	5.40	5.49	5.64
Coal	1.31	1.31	1.33	1.34	1.34	1.32	1.32	1.31	1.31	1.30	1.29	1.28	1.28
Ethanol (E85) 10/	14.65	16.23	19.66	17.24	18.74	17.71	17.31	16.86	16.91	16.87	16.72	16.67	16.69
Electricity	16.15	16.31	18.54	18.42	17.94	17.24	16.92	16.82	16.70	16.60	16.57	16.64	16.83
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	9.80	10.07	11.42	11.45	11.08	10.74	10.64	10.63	10.62	10.64	10.72	10.79	10.94
Commercial	6.38	6.56	7.13	7.32	7.22	7.14	7.20	7.37	7.52	7.72	7.94	8.20	8.52
Industrial	9.53	10.62	12.78	12.98	11.93	11.32	11.22	11.25	11.24	11.34	11.51	11.69	12.02
Transportation	17.87	20.66	24.01	23.88	23.09	22.39	22.47	22.41	22.87	23.25	23.48	23.82	24.19
Total Non-Renewable Expenditures	43.58	47.91	55.34	55.63	53.32	51.59	51.52	51.66	52.25	52.95	53.64	54.50	55.67
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Expenditures	43.58	47.91	55.34	55.63	53.32	51.59	51.52	51.66	52.25	52.95	53.65	54.51	55.67

Table 16. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	15.80	15.80	15.91	16.09	16.26	16.37	16.47	16.45	16.47	16.50	16.60	0.2%
Primary Energy 1/	9.32	9.32	9.42	9.59	9.76	9.90	10.01	10.04	10.06	10.11	10.18	-0.2%
Petroleum Products 2/	14.31	14.41	14.49	14.60	14.75	14.90	15.07	15.16	15.27	15.37	15.36	0.3%
Distillate Fuel	7.42	7.49	7.53	7.69	7.83	7.94	8.09	8.21	8.28	8.29	8.30	0.0%
Liquefied Petroleum Gas	15.29	15.40	15.48	15.58	15.72	15.87	16.05	16.12	16.23	16.33	16.30	0.3%
Natural Gas	8.33	8.31	8.41	8.59	8.77	8.90	8.99	9.02	9.01	9.06	9.14	-0.3%
Electricity	20.55	20.53	20.62	20.78	20.92	20.97	21.02	20.94	20.92	20.91	20.99	0.3%
Commercial	14.15	14.21	14.37	14.59	14.80	14.96	15.08	15.06	15.13	15.16	15.28	0.2%
Primary Energy 1/	7.34	7.32	7.39	7.52	7.65	7.75	7.82	7.84	7.82	7.84	7.90	-0.2%
Petroleum Products 2/	7.38	7.41	7.43	7.50	7.57	7.60	7.70	7.76	7.76	7.78	7.83	-0.5%
Distillate Fuel	5.99	6.04	6.08	6.18	6.27	6.30	6.42	6.50	6.52	6.55	6.64	0.1%
Residual Fuel	3.98	4.04	4.09	4.15	4.20	4.26	4.31	4.37	4.43	4.48	4.54	-0.3%
Natural Gas	7.61	7.58	7.66	7.81	7.96	8.07	8.14	8.14	8.10	8.13	8.18	-0.2%
Electricity	18.49	18.55	18.73	18.96	19.16	19.31	19.41	19.32	19.40	19.40	19.52	0.1%
Industrial 3/	7.20	7.23	7.33	7.46	7.60	7.70	7.80	7.83	7.86	7.90	7.95	0.6%
Primary Energy	5.25	5.27	5.34	5.45	5.57	5.66	5.76	5.81	5.83	5.86	5.90	0.3%
Petroleum Products 2/	6.75	6.81	6.87	6.95	7.04	7.13	7.28	7.36	7.43	7.44	7.46	0.2%
Distillate Fuel	6.71	6.75	6.79	6.85	6.90	6.88	6.98	7.03	7.00	7.04	7.20	0.2%
Liquefied Petroleum Gas	11.76	11.87	11.95	12.05	12.19	12.34	12.51	12.59	12.69	12.79	12.77	-0.2%
Residual Fuel	3.71	3.76	3.82	3.87	3.93	3.98	4.04	4.09	4.15	4.21	4.26	-0.3%
Natural Gas 4/	5.01	4.98	5.07	5.23	5.38	5.49	5.55	5.55	5.52	5.55	5.61	-0.1%
Metallurgical Coal	1.67	1.67	1.66	1.66	1.67	1.66	1.66	1.64	1.62	1.61	1.59	-0.3%
Steam Coal	1.65	1.65	1.65	1.65	1.65	1.64	1.65	1.65	1.66	1.66	1.67	0.1%
Electricity	12.71	12.78	12.91	13.09	13.28	13.39	13.46	13.44	13.46	13.48	13.55	0.8%
Transportation	10.76	10.79	10.83	10.87	10.92	10.93	11.00	11.05	11.07	11.11	11.20	-0.1%
Primary Energy	10.75	10.78	10.82	10.86	10.91	10.92	10.99	11.04	11.06	11.10	11.18	-0.1%
Petroleum Products 2/	10.75	10.78	10.82	10.86	10.91	10.92	10.99	11.04	11.06	11.10	11.19	-0.1%
Distillate Fuel 5/	10.28	10.27	10.28	10.29	10.30	10.22	10.27	10.28	10.20	10.21	10.37	0.0%
Jet Fuel 6/	6.14	6.19	6.23	6.34	6.47	6.49	6.70	6.81	6.87	6.91	6.92	0.4%
Motor Gasoline 7/	11.81	11.85	11.90	11.95	12.00	12.05	12.10	12.15	12.20	12.26	12.31	-0.2%
Residual Fuel	3.00	3.06	3.11	3.17	3.23	3.29	3.34	3.40	3.46	3.51	3.57	-0.9%
Liquefied Petroleum Gas 8/	14.88	14.96	15.02	15.08	15.19	15.32	15.46	15.50	15.58	15.65	15.60	-0.1%
Natural Gas 9/	10.36	10.36	10.43	10.53	10.63	10.70	10.75	10.77	10.76	10.80	10.84	0.0%
Ethanol (E85) 10/	16.76	16.82	16.89	16.95	17.01	17.08	17.14	17.21	17.28	17.34	17.41	0.3%
Electricity	16.18	16.18	16.27	16.40	16.52	16.58	16.59	16.48	16.43	16.40	16.46	-0.5%
Average End-Use Energy	10.56	10.60	10.68	10.80	10.91	10.98	11.07	11.11	11.14	11.18	11.26	0.2%
Primary Energy	8.63	8.66	8.72	8.80	8.88	8.94	9.02	9.07	9.09	9.14	9.21	0.1%
Electricity	16.91	16.96	17.09	17.27	17.45	17.56	17.63	17.58	17.61	17.62	17.71	0.4%
Electric Power 11/												
Fossil Fuel Average	1.95	2.00	2.06	2.10	2.16	2.14	2.13	2.11	2.08	2.10	2.11	1.0%
Petroleum Products	4.55	4.61	4.65	4.74	4.79	4.91	5.07	5.20	5.31	5.38	5.44	-0.1%
Distillate Fuel	5.65	5.73	5.77	5.92	6.06	6.17	6.32	6.44	6.51	6.52	6.54	-0.1%
Residual Fuel	3.29	3.35	3.40	3.46	3.52	3.57	3.63	3.68	3.74	3.79	3.85	0.0%
Natural Gas	4.80	4.81	4.92	5.09	5.27	5.36	5.43	5.44	5.40	5.45	5.51	-0.2%
Steam Coal	1.26	1.25	1.26	1.28	1.28	1.29	1.31	1.31	1.33	1.34	1.35	0.2%
Average Price to All Users 12/												
Petroleum Products 2/	9.90	9.94	9.98	10.03	10.08	10.10	10.19	10.25	10.28	10.31	10.38	0.0%
Distillate Fuel	9.60	9.60	9.62	9.63	9.65	9.58	9.63	9.64	9.57	9.58	9.72	0.0%
Jet Fuel	6.14	6.19	6.23	6.34	6.47	6.49	6.70	6.81	6.87	6.91	6.92	0.4%
Liquefied Petroleum Gas	13.23	13.34	13.41	13.50	13.64	13.79	13.95	14.01	14.11	14.21	14.18	0.0%
Motor Gasoline 7/	11.79	11.84	11.89	11.94	11.99	12.04	12.09	12.14	12.19	12.24	12.30	-0.2%

Table 16. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Residual Fuel	3.37	3.42	3.48	3.54	3.60	3.65	3.70	3.76	3.81	3.87	3.93	-0.3%
Natural Gas	5.75	5.71	5.78	5.94	6.08	6.19	6.26	6.26	6.23	6.26	6.32	-0.4%
Coal	1.28	1.28	1.29	1.30	1.31	1.31	1.32	1.33	1.34	1.35	1.36	0.2%
Ethanol (E85) 10/	16.76	16.82	16.89	16.95	17.01	17.08	17.14	17.21	17.28	17.34	17.41	0.3%
Electricity	16.91	16.96	17.09	17.27	17.45	17.56	17.63	17.58	17.61	17.62	17.71	0.4%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	11.04	11.10	11.18	11.33	11.46	11.58	11.63	11.64	11.67	11.74	11.79	0.7%
Commercial	8.80	9.06	9.39	9.76	10.12	10.46	10.78	11.03	11.35	11.67	12.06	2.8%
Industrial	12.22	12.30	12.58	12.95	13.31	13.60	13.86	14.01	14.18	14.36	14.56	1.4%
Transportation	24.57	24.93	25.34	25.76	26.17	26.48	26.92	27.32	27.69	28.14	28.69	1.5%
Total Non-Renewable Expenditures	56.63	57.38	58.49	59.80	61.06	62.11	63.19	63.99	64.89	65.91	67.10	1.5%
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8%
Total Expenditures	56.63	57.39	58.50	59.80	61.06	62.11	63.20	64.00	64.90	65.91	67.11	1.5%

Table 16. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) East South Central

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 17. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	17.07	19.15	18.89	18.95	18.11	17.57	17.00	16.98	16.78	16.80	16.91	17.11	17.39
Primary Energy 1/	8.00	9.51	10.64	10.52	9.65	9.07	8.59	8.46	8.30	8.24	8.34	8.46	8.62
Petroleum Products 2/	12.54	14.03	16.89	16.38	14.97	14.31	14.13	13.85	13.82	13.74	13.79	13.89	13.80
Distillate Fuel	6.52	7.44	8.20	7.88	7.36	6.94	6.75	6.57	6.46	6.42	6.47	6.50	6.57
Liquefied Petroleum Gas	12.63	14.15	17.06	16.58	15.15	14.48	14.29	14.01	13.98	13.90	13.96	14.05	13.96
Natural Gas	7.59	9.11	10.06	10.02	9.20	8.61	8.11	8.00	7.82	7.75	7.86	7.98	8.16
Electricity	22.97	25.22	23.96	24.02	23.18	22.67	22.06	22.10	21.86	21.93	22.03	22.22	22.54
Commercial	14.26	16.14	16.81	16.88	15.92	15.07	14.58	14.55	14.32	14.33	14.44	14.65	15.00
Primary Energy 1/	6.11	7.81	8.00	7.84	7.11	6.64	6.29	6.26	6.22	6.27	6.36	6.45	6.58
Petroleum Products 2/	7.25	8.77	9.80	9.44	8.58	8.03	7.82	7.56	7.56	7.60	7.60	7.60	7.59
Distillate Fuel	5.52	6.31	6.94	6.68	6.32	5.95	5.83	5.67	5.70	5.81	5.83	5.83	5.86
Residual Fuel	3.50	4.08	4.16	4.39	4.02	3.60	3.42	3.28	3.24	3.29	3.35	3.40	3.46
Natural Gas	5.93	7.66	7.68	7.57	6.85	6.39	6.03	6.04	5.98	6.04	6.14	6.25	6.41
Electricity	19.99	21.79	22.71	22.74	21.62	20.52	19.90	19.83	19.43	19.35	19.40	19.62	20.03
Industrial 3/	5.81	8.14	9.49	8.80	7.68	7.16	6.91	6.78	6.64	6.57	6.62	6.69	6.76
Primary Energy	5.25	7.60	8.99	8.26	7.11	6.59	6.36	6.22	6.09	6.03	6.07	6.13	6.17
Petroleum Products 2/	7.05	9.74	11.72	10.48	9.06	8.48	8.33	8.07	8.04	8.00	8.03	8.10	8.00
Distillate Fuel	5.95	6.81	7.49	7.20	6.70	6.34	6.35	6.20	6.31	6.68	6.68	6.67	6.67
Liquefied Petroleum Gas	7.95	12.15	14.65	12.42	10.79	10.12	9.93	9.65	9.62	9.54	9.60	9.69	9.60
Residual Fuel	3.53	4.11	4.20	4.43	4.16	3.75	3.56	3.43	3.38	3.44	3.49	3.55	3.61
Natural Gas 4/	3.24	5.02	5.61	5.51	4.75	4.26	3.89	3.88	3.77	3.79	3.88	3.97	4.14
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steam Coal	1.34	1.31	1.33	1.41	1.39	1.37	1.37	1.37	1.36	1.35	1.34	1.33	1.34
Electricity	13.38	15.14	15.79	15.79	14.98	14.21	13.74	13.71	13.41	13.31	13.40	13.59	13.92
Transportation	9.03	10.06	11.46	11.14	10.81	10.25	10.07	9.82	9.79	9.79	9.74	9.75	9.76
Primary Energy	9.01	10.04	11.44	11.12	10.80	10.23	10.05	9.80	9.78	9.77	9.73	9.74	9.74
Petroleum Products 2/	9.01	10.04	11.44	11.12	10.80	10.23	10.05	9.80	9.78	9.77	9.73	9.74	9.74
Distillate Fuel 5/	9.14	10.44	11.50	11.05	10.72	10.39	10.22	10.04	10.19	10.26	10.21	10.16	10.11
Jet Fuel 6/	5.62	5.99	7.53	7.14	6.62	6.17	6.17	6.01	5.87	5.84	5.87	5.92	5.93
Motor Gasoline 7/	10.93	12.09	13.71	13.42	13.27	12.53	12.23	11.90	11.89	11.87	11.75	11.71	11.74
Residual Fuel	3.76	4.39	4.47	4.72	4.31	3.89	3.70	3.56	3.52	3.57	3.63	3.69	3.75
Liquefied Petroleum Gas 8/	14.35	15.39	19.04	18.87	14.66	13.96	13.75	13.44	13.38	13.26	13.29	13.35	13.23
Natural Gas 9/	7.19	8.83	9.57	9.46	8.84	8.47	8.17	8.21	8.19	8.28	8.41	8.54	8.72
Ethanol (E85) 10/	14.65	16.23	19.66	19.52	20.15	18.95	18.78	18.34	17.69	17.54	17.43	17.64	17.84
Electricity	17.85	18.77	20.10	20.02	18.96	17.83	17.42	17.57	17.49	17.67	17.82	18.04	18.40
Average End-Use Energy	8.17	10.09	11.27	10.80	9.98	9.44	9.18	9.04	8.94	8.92	8.96	9.04	9.12
Primary Energy	6.65	8.52	9.87	9.33	8.50	7.98	7.76	7.59	7.52	7.49	7.51	7.57	7.61
Electricity	19.01	21.00	20.95	21.00	20.12	19.32	18.76	18.76	18.47	18.45	18.55	18.75	19.10
Electric Power 11/													
Fossil Fuel Average	2.31	3.04	3.03	2.94	2.61	2.42	2.31	2.37	2.38	2.44	2.53	2.62	2.74
Petroleum Products	4.98	5.79	6.47	6.27	5.55	5.13	4.94	4.78	4.71	4.71	4.76	4.80	4.87
Distillate Fuel	5.60	6.40	7.05	6.78	6.06	5.64	5.44	5.26	5.16	5.12	5.17	5.20	5.26
Residual Fuel	4.33	5.19	5.86	5.73	4.99	4.58	4.39	4.26	4.21	4.27	4.32	4.38	4.44
Natural Gas	3.48	5.41	5.64	5.41	4.64	4.14	3.78	3.80	3.76	3.82	3.96	4.09	4.27
Steam Coal	1.18	1.17	1.18	1.20	1.21	1.20	1.20	1.20	1.19	1.19	1.18	1.17	1.16
Average Price to All Users 12/													
Petroleum Products 2/	8.23	10.05	11.74	10.97	10.13	9.57	9.41	9.16	9.14	9.12	9.11	9.15	9.11
Distillate Fuel	8.51	9.70	10.74	10.34	9.93	9.60	9.50	9.33	9.41	9.51	9.53	9.58	9.54
Jet Fuel	5.62	5.99	7.53	7.14	6.62	6.17	6.17	6.01	5.87	5.84	5.87	5.92	5.93
Liquefied Petroleum Gas	8.06	12.20	14.71	12.53	10.89	10.22	10.04	9.76	9.73	9.65	9.71	9.80	9.71
Motor Gasoline 7/	10.93	12.09	13.71	13.42	13.25	12.51	12.22	11.88	11.88	11.86	11.74	11.70	11.72

Table 17. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	3.80	4.47	4.58	4.79	4.36	3.94	3.75	3.61	3.56	3.62	3.67	3.72	3.76
Natural Gas	3.73	5.57	6.05	5.91	5.15	4.66	4.27	4.26	4.17	4.19	4.29	4.39	4.56
Coal	1.19	1.18	1.19	1.21	1.21	1.20	1.20	1.20	1.20	1.19	1.18	1.18	1.17
Ethanol (E85) 10/	14.65	16.23	19.66	19.52	20.15	18.95	18.78	18.34	17.69	17.54	17.43	17.64	17.84
Electricity	19.01	21.00	20.95	21.00	20.12	19.32	18.76	18.76	18.47	18.45	18.55	18.75	19.10
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	17.91	20.37	19.95	20.65	20.09	19.95	19.81	20.16	20.31	20.69	21.20	21.68	22.32
Commercial	12.39	13.95	14.63	14.88	14.44	14.12	14.10	14.46	14.59	14.94	15.39	15.94	16.65
Industrial	36.07	48.64	57.59	55.12	48.14	44.76	43.88	43.72	43.53	43.88	44.73	45.60	46.45
Transportation	37.05	41.51	48.61	48.58	48.25	46.96	47.40	47.50	48.59	49.70	50.53	51.58	52.67
Total Non-Renewable Expenditures	103.42	124.47	140.78	139.22	130.92	125.79	125.19	125.84	127.02	129.21	131.85	134.80	138.09
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total Expenditures	103.42	124.47	140.78	139.23	130.93	125.80	125.20	125.84	127.02	129.21	131.86	134.80	138.10

Table 17. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	17.53	17.49	17.65	17.89	18.19	18.32	18.44	18.42	18.34	18.30	18.48	-0.2%
Primary Energy 1/	8.77	8.76	8.84	9.01	9.17	9.30	9.40	9.41	9.40	9.43	9.49	0.0%
Petroleum Products 2/	14.02	14.12	14.10	14.20	14.33	14.51	14.73	14.84	14.95	15.05	15.03	0.3%
Distillate Fuel	6.63	6.69	6.74	6.93	7.06	7.11	7.26	7.38	7.45	7.46	7.48	0.0%
Liquefied Petroleum Gas	14.18	14.28	14.25	14.35	14.49	14.67	14.88	14.99	15.10	15.19	15.17	0.3%
Natural Gas	8.29	8.27	8.36	8.53	8.69	8.81	8.89	8.90	8.87	8.90	8.96	-0.1%
Electricity	22.63	22.55	22.70	22.96	23.30	23.42	23.53	23.48	23.33	23.23	23.47	-0.3%
Commercial	15.22	15.24	15.45	15.74	16.10	16.31	16.50	16.55	16.51	16.47	16.72	0.2%
Primary Energy 1/	6.69	6.67	6.74	6.89	7.03	7.13	7.20	7.21	7.18	7.21	7.26	-0.3%
Petroleum Products 2/	7.63	7.67	7.68	7.76	7.84	7.86	7.97	8.04	8.05	8.08	8.13	-0.3%
Distillate Fuel	5.89	5.93	5.98	6.09	6.18	6.19	6.30	6.38	6.40	6.43	6.52	0.1%
Residual Fuel	3.52	3.57	3.62	3.68	3.74	3.79	3.85	3.90	3.95	4.01	4.07	0.0%
Natural Gas	6.53	6.50	6.58	6.74	6.89	7.00	7.07	7.07	7.04	7.07	7.12	-0.3%
Electricity	20.24	20.24	20.47	20.79	21.22	21.45	21.65	21.68	21.59	21.48	21.79	0.0%
Industrial 3/	6.92	6.95	7.01	7.16	7.31	7.45	7.59	7.64	7.66	7.71	7.75	-0.2%
Primary Energy	6.33	6.37	6.42	6.54	6.68	6.82	6.96	7.02	7.05	7.11	7.13	-0.3%
Petroleum Products 2/	8.17	8.26	8.26	8.33	8.45	8.59	8.80	8.90	8.99	9.05	9.04	-0.3%
Distillate Fuel	6.67	6.70	6.75	6.81	6.87	6.83	6.93	6.98	6.95	7.00	7.15	0.2%
Liquefied Petroleum Gas	9.82	9.93	9.90	9.99	10.13	10.31	10.52	10.63	10.74	10.83	10.81	-0.5%
Residual Fuel	3.66	3.72	3.77	3.82	3.88	3.94	3.99	4.05	4.10	4.15	4.21	0.1%
Natural Gas 4/	4.26	4.23	4.32	4.49	4.64	4.75	4.81	4.81	4.78	4.82	4.88	-0.1%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	1.34	1.35	1.38	1.39	1.40	1.40	1.40	1.40	1.48	1.46	1.43	0.4%
Electricity	14.10	14.09	14.27	14.58	14.95	15.14	15.28	15.30	15.21	15.17	15.38	0.1%
Transportation	9.78	9.82	9.86	9.91	9.97	9.99	10.08	10.14	10.16	10.21	10.31	0.1%
Primary Energy	9.77	9.80	9.84	9.89	9.95	9.97	10.06	10.12	10.14	10.19	10.29	0.1%
Petroleum Products 2/	9.77	9.81	9.84	9.89	9.95	9.97	10.06	10.12	10.15	10.20	10.29	0.1%
Distillate Fuel 5/	10.07	10.07	10.08	10.08	10.09	10.01	10.07	10.07	9.99	10.01	10.16	-0.1%
Jet Fuel 6/	5.95	6.00	6.03	6.14	6.26	6.29	6.49	6.60	6.65	6.70	6.75	0.5%
Motor Gasoline 7/	11.79	11.83	11.87	11.92	11.97	12.02	12.07	12.12	12.17	12.22	12.27	0.1%
Residual Fuel	3.80	3.86	3.91	3.97	4.03	4.09	4.14	4.20	4.25	4.31	4.37	0.0%
Liquefied Petroleum Gas 8/	13.42	13.50	13.44	13.50	13.61	13.76	13.94	14.02	14.10	14.17	14.11	-0.4%
Natural Gas 9/	8.86	8.84	8.93	9.08	9.22	9.31	9.37	9.35	9.31	9.32	9.35	0.3%
Ethanol (E85) 10/	17.92	17.61	17.50	17.38	17.29	17.19	17.48	17.81	17.91	18.05	18.14	0.5%
Electricity	18.54	18.50	18.67	18.96	19.30	19.45	19.55	19.50	19.37	19.30	19.52	0.2%
Average End-Use Energy	9.25	9.29	9.37	9.50	9.66	9.77	9.90	9.96	9.98	10.03	10.12	0.0%
Primary Energy	7.72	7.76	7.81	7.92	8.03	8.13	8.25	8.31	8.34	8.40	8.46	0.0%
Electricity	19.27	19.26	19.45	19.74	20.14	20.33	20.50	20.52	20.43	20.36	20.63	-0.1%
Electric Power 11/												
Fossil Fuel Average	2.82	2.82	2.88	2.99	3.09	3.15	3.19	3.20	3.14	3.14	3.15	0.2%
Petroleum Products	4.92	4.98	5.03	5.16	5.09	5.15	5.24	5.32	5.59	5.63	5.49	-0.2%
Distillate Fuel	5.32	5.38	5.44	5.62	5.75	5.81	5.95	6.08	6.15	6.16	6.17	-0.2%
Residual Fuel	4.49	4.55	4.60	4.66	4.72	4.77	4.82	4.88	4.93	4.99	5.05	-0.1%
Natural Gas	4.40	4.38	4.47	4.64	4.80	4.91	4.98	4.99	4.96	5.00	5.05	-0.3%
Steam Coal	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.15	1.17	1.18	1.19	0.1%
Average Price to All Users 12/												
Petroleum Products 2/	9.20	9.27	9.29	9.36	9.44	9.51	9.66	9.74	9.80	9.86	9.90	-0.1%
Distillate Fuel	9.52	9.52	9.54	9.56	9.58	9.51	9.58	9.59	9.53	9.55	9.70	0.0%
Jet Fuel	5.95	6.00	6.03	6.14	6.26	6.29	6.49	6.60	6.65	6.70	6.75	0.5%
Liquefied Petroleum Gas	9.93	10.04	10.01	10.10	10.24	10.42	10.63	10.75	10.85	10.95	10.93	-0.5%
Motor Gasoline 7/	11.77	11.82	11.86	11.91	11.96	12.00	12.05	12.10	12.15	12.20	12.25	0.1%

Table 17. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residual Fuel	3.82	3.88	3.93	3.98	4.08	4.14	4.20	4.26	4.26	4.32	4.42	-0.1%
Natural Gas	4.69	4.66	4.75	4.92	5.07	5.19	5.25	5.26	5.24	5.27	5.33	-0.2%
Coal	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.16	1.18	1.19	1.20	0.1%
Ethanol (E85) 10/	17.92	17.61	17.50	17.38	17.29	17.19	17.48	17.81	17.91	18.05	18.14	0.5%
Electricity	19.27	19.26	19.45	19.74	20.14	20.33	20.50	20.52	20.43	20.36	20.63	-0.1%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	22.78	23.08	23.53	24.15	24.83	25.38	25.81	26.16	26.45	26.86	27.46	1.4%
Commercial	17.23	17.63	18.27	18.99	19.78	20.41	21.06	21.57	21.99	22.45	23.29	2.4%
Industrial	47.66	47.97	48.92	50.43	52.07	53.50	54.94	55.72	56.37	57.14	57.84	0.8%
Transportation	53.78	54.86	56.07	57.38	58.71	59.72	61.16	62.46	63.62	64.98	66.60	2.2%
Total Non-Renewable Expenditures	141.45	143.55	146.78	150.96	155.38	159.01	162.98	165.91	168.42	171.43	175.19	1.6%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.6%
Total Expenditures	141.46	143.55	146.79	150.96	155.39	159.02	162.99	165.92	168.43	171.44	175.20	1.6%

Table 17. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) West South Central

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 18. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	13.87	14.38	15.12	15.49	14.93	14.29	13.78	13.38	13.09	12.96	13.14	13.37	13.50
Primary Energy 1/	7.65	8.17	9.30	9.52	9.00	8.53	7.99	7.56	7.28	7.14	7.26	7.39	7.48
Petroleum Products 2/	11.51	12.91	15.47	14.95	13.65	13.02	12.78	12.52	12.47	12.32	12.37	12.47	12.10
Distillate Fuel	7.78	8.89	9.79	9.40	9.71	9.11	8.42	8.15	8.04	7.96	7.89	7.91	7.89
Liquefied Petroleum Gas	12.13	13.60	16.39	15.93	14.32	13.65	13.46	13.18	13.13	12.95	13.01	13.10	12.66
Natural Gas	7.08	7.53	8.45	8.85	8.44	7.98	7.42	6.98	6.68	6.55	6.68	6.82	6.96
Electricity	23.49	23.50	24.06	24.71	24.09	23.24	22.84	22.61	22.43	22.39	22.70	23.07	23.26
Commercial	13.24	13.66	14.56	14.89	14.56	14.02	13.63	13.32	13.08	13.01	13.27	13.63	13.87
Primary Energy 1/	6.05	6.46	7.15	7.42	7.22	6.87	6.49	6.20	6.02	6.00	6.09	6.21	6.29
Petroleum Products 2/	7.63	8.70	9.64	9.29	9.66	9.05	8.78	8.53	8.28	8.27	8.25	8.34	8.15
Distillate Fuel	6.26	7.15	7.88	7.56	8.21	7.65	7.40	7.20	6.93	6.96	6.94	7.03	6.90
Residual Fuel	3.42	3.98	4.05	4.29	4.16	3.75	3.56	3.43	3.39	3.44	3.49	3.55	3.60
Natural Gas	6.02	6.38	7.05	7.43	7.14	6.80	6.38	6.06	5.89	5.86	5.98	6.11	6.23
Electricity	19.85	20.05	21.31	21.59	21.02	20.26	19.82	19.47	19.14	18.99	19.30	19.78	20.07
Industrial 3/	7.26	7.93	8.91	9.05	8.86	8.41	8.23	7.99	7.74	7.70	7.78	7.94	7.99
Primary Energy	5.01	5.84	6.68	6.76	6.67	6.27	6.13	5.90	5.67	5.69	5.74	5.83	5.83
Petroleum Products 2/	6.48	7.47	8.60	8.46	8.42	7.86	7.80	7.54	7.23	7.31	7.29	7.36	7.24
Distillate Fuel	6.55	7.49	8.24	7.91	8.41	7.90	8.12	7.93	7.53	7.82	7.84	7.97	7.76
Liquefied Petroleum Gas	9.01	12.02	14.48	14.08	11.04	10.36	10.17	9.89	9.85	9.67	9.72	9.82	9.38
Residual Fuel	3.82	4.45	4.53	4.79	4.55	4.14	3.96	3.82	3.78	3.83	3.88	3.94	3.99
Natural Gas 4/	4.50	5.43	6.23	6.66	6.34	5.97	5.54	5.21	4.99	4.94	5.05	5.17	5.29
Metallurgical Coal	1.77	1.77	1.76	1.72	1.69	1.65	1.63	1.63	1.61	1.61	1.62	1.62	1.63
Steam Coal	1.55	1.54	1.55	1.56	1.55	1.52	1.52	1.50	1.48	1.46	1.44	1.43	1.42
Electricity	14.51	14.68	16.06	16.34	15.86	15.29	14.99	14.72	14.43	14.23	14.44	14.77	15.00
Transportation	10.66	11.48	12.99	12.65	14.20	13.39	13.37	13.10	12.43	12.31	12.29	12.47	12.21
Primary Energy	10.64	11.46	12.97	12.62	14.18	13.37	13.36	13.09	12.42	12.29	12.27	12.45	12.18
Petroleum Products 2/	10.64	11.47	12.97	12.63	14.19	13.38	13.37	13.10	12.42	12.30	12.28	12.46	12.19
Distillate Fuel 5/	9.90	11.32	12.47	11.98	13.06	12.54	12.54	12.41	11.91	11.88	11.88	12.00	11.72
Jet Fuel 6/	6.62	7.07	8.88	8.40	8.98	8.19	8.44	8.20	7.27	7.08	7.13	7.26	6.94
Motor Gasoline 7/	11.79	12.44	14.09	13.80	15.88	14.93	14.84	14.52	13.84	13.71	13.63	13.78	13.53
Residual Fuel	3.61	3.48	3.51	3.52	3.54	3.55	3.56	3.58	3.60	3.61	3.63	3.65	3.67
Liquefied Petroleum Gas 8/	14.61	16.02	19.81	19.62	15.62	14.92	14.70	14.39	14.31	14.10	14.12	14.18	13.72
Natural Gas 9/	6.84	8.31	9.24	9.70	9.54	9.32	8.98	8.73	8.59	8.60	8.75	8.91	9.06
Ethanol (E85) 10/	14.65	16.23	19.66	26.58	19.77	18.51	18.42	17.99	17.09	16.90	16.80	17.09	17.19
Electricity	18.08	18.31	19.90	20.49	19.91	19.19	18.87	18.66	18.52	18.49	18.77	19.13	19.34
Average End-Use Energy	10.75	11.44	12.62	12.61	13.13	12.48	12.29	12.01	11.58	11.49	11.58	11.79	11.74
Primary Energy	8.59	9.37	10.61	10.51	11.29	10.65	10.50	10.22	9.74	9.66	9.69	9.85	9.73
Electricity	19.56	19.74	20.77	21.19	20.63	19.90	19.53	19.25	19.00	18.89	19.19	19.60	19.84
Electric Power 11/													
Fossil Fuel Average	1.46	1.66	2.26	2.18	2.14	2.05	2.03	2.04	2.03	2.05	2.09	2.12	2.10
Petroleum Products	6.48	7.43	8.18	7.86	8.12	7.52	6.83	6.55	6.45	6.36	6.30	6.31	6.29
Distillate Fuel	6.50	7.43	8.18	7.86	8.12	7.52	6.83	6.55	6.45	6.36	6.30	6.31	6.29
Residual Fuel	4.57	5.48	6.19	6.07	5.23	4.82	4.63	4.50	4.45	4.51	4.56	4.62	4.67
Natural Gas	3.47	4.95	6.04	6.37	6.09	5.73	5.33	5.05	4.86	4.82	4.96	5.11	5.22
Steam Coal	1.07	1.08	1.09	1.09	1.09	1.09	1.08	1.08	1.04	1.02	1.01	1.01	1.02
Average Price to All Users 12/													
Petroleum Products 2/	9.99	10.85	12.30	11.98	13.20	12.44	12.40	12.14	11.56	11.48	11.47	11.63	11.39
Distillate Fuel	9.11	10.41	11.41	10.98	11.85	11.35	11.42	11.26	10.77	10.76	10.82	11.04	10.80
Jet Fuel	6.62	7.07	8.88	8.40	8.98	8.19	8.44	8.20	7.27	7.08	7.13	7.26	6.94
Liquefied Petroleum Gas	11.16	13.10	15.73	15.30	13.30	12.65	12.47	12.20	12.17	12.01	12.07	12.17	11.73
Motor Gasoline 7/	11.79	12.44	14.09	13.80	15.86	14.91	14.82	14.50	13.82	13.70	13.62	13.77	13.51

Table 18. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	3.83	4.40	4.49	4.76	4.55	4.14	3.95	3.82	3.77	3.83	3.88	3.93	3.99
Natural Gas	5.19	6.07	6.83	7.27	6.94	6.57	6.10	5.74	5.51	5.43	5.57	5.71	5.84
Coal	1.09	1.10	1.12	1.12	1.12	1.11	1.10	1.10	1.06	1.04	1.03	1.03	1.04
Ethanol (E85) 10/	14.65	16.23	19.66	26.58	19.77	18.51	18.42	17.99	17.09	16.90	16.80	17.09	17.19
Electricity	19.56	19.74	20.77	21.19	20.63	19.90	19.53	19.25	19.00	18.89	19.19	19.60	19.84
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	9.47	9.83	10.69	11.30	11.12	10.98	10.99	11.02	11.16	11.37	11.83	12.24	12.61
Commercial	7.17	7.40	8.10	8.41	8.42	8.37	8.43	8.52	8.64	8.86	9.27	9.75	10.16
Industrial	6.15	6.58	7.55	7.79	7.64	7.36	7.31	7.20	7.05	7.09	7.24	7.45	7.61
Transportation	18.94	20.62	24.06	24.21	27.71	26.80	27.51	27.70	27.01	27.43	28.03	29.04	29.11
Total Non-Renewable Expenditures	41.74	44.43	50.39	51.70	54.90	53.52	54.25	54.45	53.86	54.75	56.37	58.48	59.48
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Expenditures	41.74	44.43	50.39	51.70	54.90	53.52	54.25	54.45	53.86	54.75	56.37	58.48	59.48

Table 18. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	13.64	13.49	13.26	13.27	13.55	13.85	14.13	14.22	14.32	14.46	14.59	0.1%
Primary Energy 1/	7.66	7.58	7.36	7.33	7.58	7.85	8.06	8.14	8.23	8.33	8.46	0.2%
Petroleum Products 2/	12.20	12.75	12.85	12.36	12.68	12.98	13.43	13.58	13.71	13.54	13.80	0.3%
Distillate Fuel	7.98	8.12	8.18	8.36	8.52	8.68	8.89	9.02	9.18	9.05	8.96	0.0%
Liquefied Petroleum Gas	12.75	13.33	13.42	12.83	13.15	13.44	13.91	14.04	14.15	13.95	14.22	0.2%
Natural Gas	7.14	7.01	6.75	6.78	7.03	7.29	7.47	7.55	7.64	7.78	7.89	0.2%
Electricity	23.30	23.01	22.81	22.89	23.21	23.51	23.85	23.92	23.99	24.17	24.24	0.1%
Commercial	14.07	13.93	13.75	13.83	14.14	14.47	14.81	14.94	15.09	15.29	15.44	0.6%
Primary Energy 1/	6.43	6.31	6.10	6.11	6.31	6.54	6.70	6.76	6.84	6.94	7.03	0.4%
Petroleum Products 2/	8.19	8.33	8.45	8.42	8.56	8.69	8.86	8.97	9.13	8.97	9.10	0.2%
Distillate Fuel	6.95	6.99	7.11	7.22	7.33	7.42	7.53	7.63	7.80	7.66	7.77	0.4%
Residual Fuel	3.66	3.71	3.77	3.82	3.87	3.93	3.99	4.04	4.10	4.16	4.21	0.3%
Natural Gas	6.39	6.23	5.96	5.98	6.21	6.46	6.62	6.68	6.75	6.87	6.97	0.4%
Electricity	20.23	20.00	19.81	19.90	20.22	20.53	20.93	21.04	21.19	21.39	21.52	0.3%
Industrial 3/	8.08	8.02	7.97	8.02	8.21	8.39	8.56	8.66	8.78	8.88	9.04	0.6%
Primary Energy	5.91	5.91	5.89	5.93	6.09	6.24	6.36	6.45	6.58	6.63	6.81	0.7%
Petroleum Products 2/	7.28	7.35	7.46	7.49	7.61	7.72	7.81	7.91	8.06	8.07	8.32	0.5%
Distillate Fuel	7.78	7.75	7.91	7.98	8.04	8.08	8.11	8.20	8.38	8.23	8.48	0.6%
Liquefied Petroleum Gas	9.46	10.05	10.13	9.54	9.86	10.16	10.62	10.76	10.86	10.66	10.93	-0.4%
Residual Fuel	4.05	4.10	4.16	4.21	4.27	4.32	4.38	4.43	4.49	4.55	4.60	0.2%
Natural Gas 4/	5.44	5.28	5.03	5.07	5.29	5.53	5.69	5.74	5.82	5.95	6.04	0.5%
Metallurgical Coal	1.63	1.63	1.62	1.62	1.61	1.61	1.60	1.59	1.58	1.57	1.56	-0.6%
Steam Coal	1.42	1.41	1.44	1.44	1.45	1.45	1.46	1.46	1.55	1.55	1.52	-0.1%
Electricity	15.10	14.88	14.72	14.81	15.07	15.33	15.65	15.77	15.82	16.01	16.05	0.4%
Transportation	12.24	12.22	12.35	12.37	12.43	12.51	12.49	12.59	12.82	12.68	12.89	0.5%
Primary Energy	12.22	12.20	12.33	12.35	12.41	12.49	12.47	12.56	12.80	12.65	12.86	0.5%
Petroleum Products 2/	12.23	12.21	12.34	12.36	12.42	12.50	12.48	12.57	12.81	12.66	12.87	0.5%
Distillate Fuel 5/	11.70	11.60	11.76	11.76	11.77	11.76	11.72	11.79	11.93	11.74	12.02	0.3%
Jet Fuel 6/	6.98	7.03	6.99	7.01	7.11	7.24	7.27	7.40	7.68	7.48	7.53	0.3%
Motor Gasoline 7/	13.59	13.57	13.73	13.75	13.81	13.93	13.88	13.98	14.25	14.11	14.31	0.6%
Residual Fuel	3.69	3.71	3.73	3.74	3.76	3.78	4.73	4.73	4.73	4.73	4.73	1.4%
Liquefied Petroleum Gas 8/	13.77	14.33	14.38	13.77	14.05	14.32	14.76	14.86	14.93	14.71	14.95	-0.3%
Natural Gas 9/	9.22	9.07	8.81	8.84	9.05	9.29	9.45	9.50	9.57	9.69	9.78	0.7%
Ethanol (E85) 10/	17.27	17.32	17.40	17.48	17.03	17.19	17.66	17.63	17.91	17.98	18.17	0.5%
Electricity	19.40	19.13	18.92	18.97	19.24	19.53	19.82	19.86	19.90	20.08	20.10	0.4%
Average End-Use Energy	11.84	11.78	11.77	11.81	11.98	12.16	12.29	12.39	12.57	12.58	12.76	0.5%
Primary Energy	9.81	9.78	9.81	9.82	9.94	10.09	10.14	10.24	10.42	10.37	10.56	0.5%
Electricity	19.96	19.73	19.55	19.64	19.95	20.24	20.60	20.70	20.80	21.00	21.08	0.3%
Electric Power 11/												
Fossil Fuel Average	2.08	1.99	1.93	1.91	1.89	1.89	1.89	1.87	1.94	1.92	1.86	0.5%
Petroleum Products	6.38	6.52	6.58	6.76	6.92	7.09	7.30	7.42	7.58	7.45	7.36	0.0%
Distillate Fuel	6.38	6.53	6.58	6.77	6.92	7.09	7.30	7.42	7.58	7.45	7.36	0.0%
Residual Fuel	4.73	4.78	4.84	4.89	4.94	5.00	5.06	5.11	5.17	5.23	5.28	-0.2%
Natural Gas	5.32	5.11	4.85	4.85	5.04	5.27	5.43	5.48	5.55	5.68	5.78	0.7%
Steam Coal	1.03	1.04	1.08	1.09	1.12	1.14	1.16	1.18	1.32	1.32	1.29	0.8%
Average Price to All Users 12/												
Petroleum Products 2/	11.43	11.44	11.57	11.58	11.65	11.75	11.75	11.84	12.07	11.94	12.15	0.5%
Distillate Fuel	10.78	10.71	10.86	10.89	10.92	10.92	10.91	10.97	11.12	10.94	11.20	0.3%
Jet Fuel	6.98	7.03	6.99	7.01	7.11	7.24	7.27	7.40	7.68	7.48	7.53	0.3%
Liquefied Petroleum Gas	11.82	12.40	12.48	11.90	12.22	12.51	12.97	13.10	13.21	12.87	13.02	0.0%
Motor Gasoline 7/	13.57	13.55	13.71	13.73	13.79	13.91	13.87	13.96	14.23	14.09	14.29	0.6%

Table 18. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Residual Fuel	4.04	4.10	4.15	4.21	4.26	4.32	4.37	4.43	4.49	4.54	4.60	0.2%
Natural Gas	6.00	5.84	5.58	5.62	5.86	6.13	6.31	6.39	6.48	6.63	6.75	0.5%
Coal	1.04	1.05	1.09	1.11	1.13	1.15	1.17	1.19	1.33	1.33	1.30	0.8%
Ethanol (E85) 10/	17.27	17.32	17.40	17.48	17.03	17.19	17.66	17.63	17.91	17.98	18.17	0.5%
Electricity	19.96	19.73	19.55	19.64	19.95	20.24	20.60	20.70	20.80	21.00	21.08	0.3%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	12.97	13.13	13.19	13.49	14.02	14.58	15.03	15.35	15.71	16.16	16.50	2.4%
Commercial	10.56	10.74	10.93	11.31	11.84	12.36	12.91	13.33	13.80	14.34	14.88	3.2%
Industrial	7.78	7.78	7.84	8.03	8.35	8.67	8.97	9.21	9.47	9.74	10.04	1.9%
Transportation	29.82	30.32	31.28	31.94	32.69	33.50	34.01	34.87	36.17	36.44	37.72	2.8%
Total Non-Renewable Expenditures	61.12	61.98	63.24	64.77	66.91	69.10	70.93	72.76	75.15	76.68	79.14	2.7%
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	7.8%
Total Expenditures	61.13	61.98	63.24	64.77	66.91	69.10	70.93	72.77	75.16	76.68	79.14	2.7%

Table 18. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Mountain

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 19. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	16.77	17.02	17.46	17.49	16.90	16.41	15.68	15.35	15.05	14.79	14.75	14.90	15.07
Primary Energy 1/	7.76	9.08	9.95	10.18	9.57	9.19	8.75	8.36	8.08	7.95	8.01	8.14	8.28
Petroleum Products 2/	11.66	13.20	15.57	14.82	11.98	11.92	11.79	11.72	11.67	11.88	11.96	12.03	12.11
Distillate Fuel	8.54	9.77	10.74	10.32	9.42	9.11	8.93	8.82	8.66	8.74	8.76	8.80	8.84
Liquefied Petroleum Gas	15.57	17.45	21.04	20.43	15.10	15.17	14.98	14.85	14.81	15.05	15.11	15.09	15.11
Natural Gas	7.44	8.76	9.52	9.84	9.39	8.99	8.53	8.11	7.81	7.67	7.72	7.86	8.01
Electricity	31.20	29.10	28.66	28.71	28.08	27.41	26.19	25.93	25.62	25.12	24.85	24.91	25.02
Commercial	21.90	20.56	19.79	19.65	19.07	18.59	17.91	17.62	17.39	17.15	17.08	17.20	17.33
Primary Energy 1/	6.47	7.57	8.25	8.50	8.07	7.81	7.53	7.27	7.10	7.09	7.13	7.23	7.33
Petroleum Products 2/	7.49	8.78	9.76	9.49	8.22	7.92	7.81	7.69	7.60	7.73	7.81	7.89	7.93
Distillate Fuel	6.31	7.21	7.95	7.63	7.11	6.88	6.78	6.68	6.65	6.77	6.87	6.97	7.02
Residual Fuel	4.08	4.75	4.85	5.11	4.70	4.28	4.10	3.96	3.92	3.97	4.03	4.08	4.13
Natural Gas	6.40	7.51	8.15	8.49	8.18	7.92	7.60	7.31	7.12	7.08	7.11	7.22	7.33
Electricity	34.01	30.19	28.25	27.81	27.01	26.26	25.21	24.84	24.51	24.01	23.79	23.82	23.87
Industrial 3/	7.78	8.78	9.25	9.33	8.76	8.47	8.28	8.08	7.90	7.89	7.91	7.97	8.07
Primary Energy	5.16	6.51	7.26	7.35	6.80	6.56	6.39	6.18	6.00	6.06	6.12	6.16	6.26
Petroleum Products 2/	6.40	7.69	8.87	8.73	7.75	7.54	7.52	7.36	7.19	7.34	7.39	7.36	7.40
Distillate Fuel	6.69	7.65	8.41	8.08	7.44	7.30	7.36	7.28	7.34	7.54	7.71	7.84	7.91
Liquefied Petroleum Gas	11.95	15.93	19.22	18.67	11.63	11.69	11.50	11.38	11.34	11.58	11.63	11.62	11.64
Residual Fuel	4.01	4.66	4.76	5.02	4.70	4.28	4.10	3.96	3.92	3.97	4.03	4.08	4.13
Natural Gas 4/	4.06	5.48	5.75	6.13	5.97	5.66	5.31	5.03	4.83	4.78	4.82	4.94	5.07
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steam Coal	1.83	1.79	1.80	1.83	1.83	1.81	1.81	1.78	1.76	1.74	1.72	1.73	1.75
Electricity	24.67	23.24	21.95	21.87	21.25	20.64	20.33	20.05	19.75	19.28	19.04	19.08	19.17
Transportation	10.14	12.07	13.76	13.40	11.74	11.36	11.42	11.39	11.08	11.22	11.24	11.33	11.39
Primary Energy	10.10	12.03	13.73	13.37	11.70	11.33	11.39	11.36	11.04	11.19	11.21	11.30	11.36
Petroleum Products 2/	10.10	12.04	13.73	13.37	11.71	11.33	11.39	11.37	11.05	11.20	11.22	11.31	11.37
Distillate Fuel 5/	10.40	11.89	13.08	12.57	11.85	11.70	11.52	11.38	11.44	11.50	11.66	11.76	11.81
Jet Fuel 6/	6.34	6.76	8.50	8.05	7.06	6.72	6.65	6.59	6.50	6.52	6.54	6.56	6.59
Motor Gasoline 7/	12.02	14.68	16.64	16.29	14.01	13.55	13.72	13.74	13.22	13.46	13.44	13.52	13.59
Residual Fuel	4.00	4.65	4.75	5.01	4.63	4.21	4.02	3.88	3.84	3.89	3.95	4.00	4.05
Liquefied Petroleum Gas 8/	15.06	16.31	20.17	19.98	13.83	13.87	13.65	13.50	13.43	13.63	13.66	13.61	13.60
Natural Gas 9/	5.50	7.59	8.14	8.57	8.40	8.26	8.02	7.79	7.67	7.70	7.81	7.98	8.15
Ethanol (E85) 10/	14.65	16.23	19.66	18.44	18.51	17.48	17.46	17.17	16.48	16.47	16.48	16.75	17.01
Electricity	26.24	24.02	25.22	25.19	24.42	23.67	23.23	22.85	22.48	21.93	21.63	21.60	21.63
Average End-Use Energy	11.75	12.88	13.79	13.63	12.46	12.09	11.91	11.78	11.53	11.55	11.57	11.68	11.78
Primary Energy	8.37	10.08	11.39	11.25	10.01	9.69	9.63	9.53	9.28	9.38	9.43	9.52	9.61
Electricity	30.83	28.22	26.96	26.78	26.04	25.35	24.43	24.13	23.82	23.34	23.11	23.16	23.25
Electric Power 11/													
Fossil Fuel Average	3.35	4.29	5.55	5.69	5.35	5.12	4.91	4.68	4.56	4.56	4.63	4.74	4.83
Petroleum Products	4.88	5.80	6.58	6.41	6.01	5.63	5.41	5.29	5.25	5.31	5.36	5.42	5.47
Distillate Fuel	6.01	6.86	7.56	7.27	6.57	6.25	6.07	5.96	5.80	5.88	5.90	5.95	5.98
Residual Fuel	4.69	5.62	6.35	6.21	5.86	5.45	5.26	5.13	5.09	5.14	5.19	5.25	5.30
Natural Gas	3.69	4.90	6.26	6.53	6.12	5.83	5.52	5.21	5.02	5.00	5.06	5.19	5.29
Steam Coal	1.44	1.55	1.54	1.52	1.53	1.53	1.53	1.53	1.50	1.49	1.48	1.47	1.46
Average Price to All Users 12/													
Petroleum Products 2/	9.51	11.31	12.81	12.50	10.95	10.62	10.66	10.61	10.34	10.49	10.52	10.59	10.65
Distillate Fuel	9.51	10.87	11.91	11.47	10.70	10.54	10.48	10.36	10.37	10.46	10.61	10.77	10.81
Jet Fuel	6.34	6.76	8.50	8.05	7.06	6.72	6.65	6.59	6.50	6.52	6.54	6.56	6.59
Liquefied Petroleum Gas	13.48	16.50	19.85	19.29	12.77	12.84	12.64	12.49	12.43	12.65	12.68	12.64	12.63
Motor Gasoline 7/	12.02	14.68	16.64	16.29	14.00	13.54	13.71	13.73	13.22	13.45	13.43	13.52	13.58

Table 19. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	4.08	4.77	5.24	5.38	5.03	4.61	4.42	4.28	4.23	4.29	4.35	4.41	4.46
Natural Gas	5.06	6.38	7.12	7.49	7.15	6.81	6.43	6.11	5.89	5.82	5.87	5.99	6.12
Coal	1.53	1.61	1.60	1.59	1.60	1.59	1.60	1.59	1.56	1.55	1.54	1.53	1.53
Ethanol (E85) 10/	14.65	16.23	19.66	18.44	18.51	17.48	17.46	17.17	16.48	16.47	16.48	16.75	17.01
Electricity	30.83	28.22	26.96	26.78	26.04	25.35	24.43	24.13	23.82	23.34	23.11	23.16	23.25
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	19.77	19.99	20.33	21.35	20.86	20.63	20.17	20.09	20.09	20.08	20.36	20.74	21.18
Commercial	20.86	19.88	19.32	19.47	19.37	19.38	19.23	19.47	19.75	19.98	20.39	21.01	21.64
Industrial	13.70	14.70	15.74	16.16	15.36	15.04	14.93	14.74	14.50	14.57	14.71	14.94	15.31
Transportation	43.23	51.65	60.30	60.15	54.16	53.89	55.52	56.71	56.51	58.47	59.72	61.24	62.69
Total Non-Renewable Expenditures	97.56	106.22	115.70	117.13	109.76	108.94	109.86	111.01	110.84	113.10	115.18	117.93	120.82
Transportation Renewable Expenditures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Total Expenditures	97.56	106.22	115.70	117.14	109.76	108.95	109.86	111.02	110.85	113.10	115.19	117.94	120.83

Table 19. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	15.19	15.18	15.13	15.17	15.35	15.54	15.77	15.90	15.89	16.04	16.14	-0.2%
Primary Energy 1/	8.41	8.43	8.34	8.37	8.55	8.73	8.93	9.06	9.15	9.28	9.42	0.2%
Petroleum Products 2/	12.24	12.36	12.30	12.49	12.68	12.98	13.02	13.27	13.88	14.09	14.79	0.5%
Distillate Fuel	8.89	8.93	8.97	9.10	9.18	9.42	9.59	9.75	9.85	9.84	9.79	0.0%
Liquefied Petroleum Gas	15.19	15.25	15.01	15.13	15.28	15.51	15.37	15.56	16.37	16.61	17.63	0.0%
Natural Gas	8.14	8.15	8.06	8.08	8.26	8.44	8.65	8.77	8.84	8.96	9.06	0.2%
Electricity	25.03	24.90	24.83	24.82	24.92	25.02	25.17	25.21	24.96	25.05	25.02	-0.7%
Commercial	17.41	17.36	17.31	17.30	17.43	17.59	17.78	17.82	17.73	17.85	17.91	-0.6%
Primary Energy 1/	7.41	7.41	7.33	7.34	7.47	7.61	7.76	7.85	7.89	7.99	8.07	0.3%
Petroleum Products 2/	7.99	8.03	8.06	8.08	8.13	8.26	8.32	8.46	8.51	8.66	8.81	0.0%
Distillate Fuel	7.10	7.14	7.18	7.21	7.27	7.40	7.48	7.63	7.60	7.79	7.86	0.4%
Residual Fuel	4.19	4.23	4.28	4.34	4.39	4.45	4.50	4.56	4.61	4.67	4.73	0.0%
Natural Gas	7.41	7.41	7.31	7.32	7.46	7.60	7.76	7.85	7.89	7.98	8.05	0.3%
Electricity	23.85	23.68	23.57	23.49	23.55	23.64	23.77	23.70	23.45	23.52	23.49	-1.1%
Industrial 3/	8.18	8.21	8.18	8.26	8.41	8.60	8.74	8.92	9.08	9.20	9.38	0.3%
Primary Energy	6.37	6.44	6.43	6.50	6.65	6.83	6.96	7.15	7.36	7.48	7.69	0.8%
Petroleum Products 2/	7.50	7.70	7.81	7.92	8.06	8.26	8.34	8.60	8.91	9.05	9.40	0.9%
Distillate Fuel	8.01	8.04	8.08	8.04	8.09	8.13	8.15	8.29	8.18	8.50	8.67	0.6%
Liquefied Petroleum Gas	11.72	11.77	11.53	11.65	11.80	12.04	11.89	12.09	12.90	13.14	14.15	-0.5%
Residual Fuel	4.19	4.23	4.28	4.34	4.39	4.45	4.50	4.56	4.61	4.67	4.73	0.1%
Natural Gas 4/	5.16	5.14	5.03	5.05	5.20	5.35	5.53	5.63	5.68	5.78	5.85	0.3%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	1.77	1.79	1.88	1.89	1.92	1.93	1.94	1.95	2.17	2.12	2.03	0.6%
Electricity	19.16	19.02	18.92	18.90	18.98	19.06	19.19	19.20	18.95	19.04	19.00	-0.9%
Transportation	11.35	11.47	11.56	11.50	11.50	11.61	11.62	11.74	11.89	11.85	12.07	0.0%
Primary Energy	11.32	11.44	11.53	11.48	11.47	11.58	11.59	11.71	11.86	11.82	12.04	0.0%
Petroleum Products 2/	11.33	11.44	11.54	11.48	11.48	11.58	11.60	11.72	11.86	11.83	12.05	0.0%
Distillate Fuel 5/	11.88	11.89	11.89	11.79	11.79	11.77	11.72	11.83	11.64	12.00	12.17	0.1%
Jet Fuel 6/	6.62	6.65	6.68	6.72	6.75	6.79	6.83	6.93	6.97	7.02	7.06	0.2%
Motor Gasoline 7/	13.47	13.65	13.79	13.70	13.67	13.83	13.83	13.95	14.21	14.00	14.28	-0.1%
Residual Fuel	4.11	4.15	4.20	4.26	4.31	4.37	4.43	4.48	4.54	4.59	4.65	0.0%
Liquefied Petroleum Gas 8/	13.65	13.68	13.41	13.50	13.62	13.83	13.65	13.81	14.60	14.81	15.80	-0.1%
Natural Gas 9/	8.29	8.30	8.20	8.21	8.37	8.53	8.71	8.80	8.84	8.95	9.02	0.8%
Ethanol (E85) 10/	17.06	17.17	17.19	17.28	16.82	16.98	17.47	17.43	17.63	17.76	17.89	0.4%
Electricity	21.54	21.32	21.17	21.04	21.04	21.05	21.11	21.02	20.69	20.71	20.62	-0.7%
Average End-Use Energy	11.82	11.88	11.91	11.91	12.00	12.15	12.25	12.38	12.49	12.54	12.72	-0.1%
Primary Energy	9.65	9.74	9.78	9.77	9.84	9.98	10.05	10.20	10.35	10.37	10.58	0.2%
Electricity	23.24	23.10	23.01	22.96	23.04	23.13	23.27	23.26	23.01	23.08	23.05	-0.9%
Electric Power 11/												
Fossil Fuel Average	4.86	4.83	4.74	4.81	4.92	4.99	5.11	5.18	5.02	5.10	5.09	0.8%
Petroleum Products	5.52	5.55	5.57	5.63	5.69	5.78	5.85	5.92	5.99	6.03	6.07	0.2%
Distillate Fuel	6.04	6.08	6.12	6.24	6.33	6.56	6.74	6.90	6.99	6.98	6.94	0.0%
Residual Fuel	5.35	5.40	5.45	5.50	5.56	5.61	5.67	5.72	5.78	5.84	5.89	0.2%
Natural Gas	5.31	5.25	5.15	5.20	5.33	5.40	5.56	5.65	5.67	5.77	5.80	0.8%
Steam Coal	1.45	1.45	1.44	1.44	1.43	1.43	1.43	1.42	1.33	1.32	1.33	-0.7%
Average Price to All Users 12/												
Petroleum Products 2/	10.64	10.78	10.88	10.86	10.88	11.00	11.03	11.18	11.35	11.34	11.58	0.1%
Distillate Fuel	10.90	10.93	10.99	10.91	10.94	10.95	10.92	11.05	10.89	11.22	11.39	0.2%
Jet Fuel	6.62	6.65	6.68	6.72	6.75	6.79	6.83	6.93	6.97	7.02	7.06	0.2%
Liquefied Petroleum Gas	12.68	12.70	12.44	12.52	12.64	12.84	12.66	12.82	13.60	13.82	14.82	-0.5%
Motor Gasoline 7/	13.47	13.64	13.78	13.69	13.66	13.82	13.82	13.94	14.21	13.99	14.27	-0.1%

Table 19. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Residual Fuel	4.52	4.60	4.66	4.72	4.78	4.84	4.90	4.96	5.02	5.08	5.15	0.3%
Natural Gas	6.19	6.15	6.04	6.05	6.20	6.33	6.51	6.62	6.68	6.79	6.87	0.3%
Coal	1.53	1.53	1.54	1.54	1.54	1.54	1.54	1.53	1.47	1.45	1.44	-0.5%
Ethanol (E85) 10/	17.06	17.17	17.19	17.28	16.82	16.98	17.47	17.43	17.63	17.76	17.89	0.4%
Electricity	23.24	23.10	23.01	22.96	23.04	23.13	23.27	23.26	23.01	23.08	23.05	-0.9%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	21.55	21.81	21.93	22.24	22.73	23.27	23.72	24.11	24.34	24.88	25.22	1.1%
Commercial	22.22	22.69	23.18	23.75	24.48	25.25	26.08	26.72	27.22	28.07	28.84	1.7%
Industrial	15.62	15.85	16.08	16.46	17.02	17.61	18.16	18.73	19.25	19.82	20.45	1.5%
Transportation	63.58	65.22	66.81	67.59	68.64	70.28	71.34	73.11	75.04	76.00	78.52	1.9%
Total Non-Renewable Expenditures	122.97	125.56	128.00	130.05	132.87	136.40	139.30	142.68	145.85	148.77	153.03	1.7%
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.4%
Total Expenditures	122.98	125.57	128.01	130.06	132.88	136.41	139.31	142.69	145.86	148.78	153.05	1.7%

Table 19. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) Pacific

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 20. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential	15.02	15.81	16.43	16.46	15.68	15.01	14.58	14.46	14.33	14.29	14.42	14.60	14.84
Primary Energy 1/	8.33	9.68	10.65	10.57	9.73	9.21	8.79	8.55	8.35	8.27	8.34	8.46	8.61
Petroleum Products 2/	10.04	11.27	13.06	12.53	11.26	10.81	10.65	10.45	10.44	10.42	10.49	10.60	10.65
Distillate Fuel	8.37	9.57	10.54	10.12	9.07	8.68	8.50	8.31	8.29	8.25	8.30	8.37	8.44
Liquefied Petroleum Gas	12.98	14.58	17.57	17.07	15.36	14.74	14.56	14.28	14.25	14.19	14.25	14.35	14.32
Natural Gas	7.82	9.22	9.94	10.04	9.31	8.78	8.29	8.04	7.79	7.70	7.77	7.90	8.07
Electricity	25.22	25.42	25.19	25.15	24.39	23.46	22.99	23.02	22.96	22.97	23.12	23.31	23.57
Commercial	15.06	15.63	15.84	15.92	15.08	14.32	13.91	13.84	13.76	13.82	14.06	14.32	14.66
Primary Energy 1/	6.57	7.92	8.37	8.37	7.74	7.34	7.04	6.90	6.81	6.84	6.90	6.98	7.11
Petroleum Products 2/	6.95	8.03	8.92	8.65	7.91	7.49	7.33	7.13	7.13	7.20	7.22	7.24	7.25
Distillate Fuel	6.15	7.03	7.73	7.42	6.88	6.54	6.42	6.25	6.30	6.40	6.42	6.45	6.47
Residual Fuel	4.27	4.96	5.06	5.35	5.06	4.65	4.44	4.31	4.26	4.31	4.36	4.42	4.47
Natural Gas	6.62	8.08	8.45	8.50	7.89	7.47	7.12	6.99	6.87	6.89	6.96	7.06	7.21
Electricity	23.35	23.24	23.04	22.94	21.84	20.69	20.13	20.06	19.93	19.94	20.26	20.59	21.04
Industrial 3/	6.39	7.78	8.73	8.53	7.73	7.29	7.09	6.96	6.85	6.83	6.90	6.99	7.11
Primary Energy	4.93	6.49	7.46	7.23	6.40	5.98	5.79	5.65	5.55	5.54	5.59	5.65	5.72
Petroleum Products 2/	6.53	8.29	9.80	9.31	8.13	7.64	7.54	7.30	7.24	7.26	7.29	7.33	7.31
Distillate Fuel	6.33	7.24	7.97	7.65	7.15	6.82	6.88	6.72	6.78	7.13	7.16	7.19	7.18
Liquefied Petroleum Gas	8.48	12.57	15.15	13.24	11.16	10.51	10.32	10.04	10.02	9.94	10.00	10.10	10.02
Residual Fuel	3.94	4.59	4.68	4.94	4.67	4.26	4.07	3.92	3.87	3.92	3.97	4.01	4.03
Natural Gas 4/	3.89	5.56	6.05	6.08	5.43	4.98	4.61	4.52	4.37	4.37	4.44	4.54	4.70
Metallurgical Coal	1.88	1.85	1.96	1.91	1.89	1.86	1.85	1.85	1.82	1.79	1.78	1.77	1.77
Steam Coal	1.60	1.55	1.57	1.60	1.59	1.58	1.58	1.57	1.56	1.56	1.55	1.55	1.55
Electricity	14.73	15.03	15.72	15.60	15.06	14.42	14.12	14.03	13.84	13.70	13.85	14.09	14.44
Transportation	10.07	11.46	12.98	12.65	12.02	11.45	11.29	11.05	10.95	10.96	10.91	10.94	10.93
Primary Energy	10.04	11.43	12.96	12.62	12.00	11.43	11.27	11.03	10.93	10.94	10.89	10.91	10.91
Petroleum Products 2/	10.04	11.43	12.96	12.62	12.00	11.43	11.27	11.04	10.93	10.94	10.89	10.92	10.91
Distillate Fuel 5/	9.55	10.92	12.02	11.55	11.29	11.00	10.85	10.68	10.76	10.82	10.81	10.79	10.74
Jet Fuel 6/	6.05	6.46	8.12	7.69	7.02	6.58	6.57	6.43	6.25	6.22	6.24	6.29	6.27
Motor Gasoline 7/	11.32	12.93	14.65	14.35	13.63	12.94	12.72	12.44	12.32	12.33	12.23	12.22	12.23
Residual Fuel	3.83	4.49	4.58	4.84	4.55	4.12	3.92	3.79	3.74	3.79	3.85	3.90	3.96
Liquefied Petroleum Gas 8/	15.15	16.65	20.60	20.42	16.38	15.82	15.60	15.31	15.24	15.18	15.20	15.25	15.18
Natural Gas 9/	7.23	9.04	9.71	9.80	9.30	8.98	8.72	8.63	8.56	8.62	8.71	8.83	8.99
Ethanol (E85) 10/	14.65	16.23	19.66	19.59	19.47	18.31	18.15	17.74	17.11	16.99	16.89	17.11	17.30
Electricity	20.03	20.64	21.20	20.92	19.97	19.09	18.80	18.83	18.81	18.83	19.02	19.23	19.52
Average End-Use Energy	10.26	11.50	12.50	12.31	11.59	11.04	10.80	10.65	10.56	10.56	10.62	10.73	10.85
Primary Energy	7.85	9.32	10.53	10.29	9.58	9.09	8.90	8.71	8.61	8.62	8.64	8.70	8.76
Electricity	21.60	21.74	21.73	21.66	20.86	19.95	19.50	19.47	19.36	19.34	19.57	19.83	20.18
Electric Power 11/													
Fossil Fuel Average	1.90	2.24	2.42	2.38	2.22	2.12	2.07	2.07	2.06	2.09	2.13	2.18	2.24
Petroleum Products	4.37	5.28	5.95	5.81	5.36	4.96	4.77	4.61	4.55	4.58	4.60	4.66	4.71
Distillate Fuel	5.69	6.48	7.18	6.89	6.27	5.86	5.64	5.45	5.36	5.33	5.37	5.42	5.47
Residual Fuel	3.99	4.79	5.51	5.38	4.99	4.57	4.38	4.24	4.19	4.24	4.28	4.34	4.38
Natural Gas	3.69	5.46	5.98	5.92	5.27	4.83	4.50	4.39	4.27	4.31	4.41	4.54	4.70
Steam Coal	1.27	1.28	1.28	1.29	1.29	1.28	1.28	1.27	1.25	1.24	1.24	1.24	1.23
Average Price to All Users 12/													
Petroleum Products 2/	9.09	10.51	12.01	11.63	10.87	10.34	10.21	9.98	9.91	9.93	9.92	9.96	9.95
Distillate Fuel	8.71	9.90	10.93	10.52	10.07	9.76	9.67	9.51	9.53	9.61	9.67	9.75	9.72
Jet Fuel	6.05	6.46	8.12	7.69	7.02	6.58	6.57	6.43	6.25	6.22	6.24	6.29	6.27
Liquefied Petroleum Gas	9.52	13.04	15.69	14.07	12.09	11.47	11.29	11.01	10.99	10.93	10.99	11.08	11.02
Motor Gasoline 7/	11.32	12.93	14.65	14.34	13.62	12.92	12.71	12.43	12.31	12.32	12.22	12.21	12.22

Table 20. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residual Fuel	3.93	4.66	5.07	5.14	4.81	4.39	4.18	4.04	3.99	4.05	4.10	4.15	4.19
Natural Gas	5.15	6.86	7.35	7.38	6.72	6.25	5.85	5.69	5.52	5.49	5.56	5.66	5.81
Coal	1.29	1.30	1.30	1.31	1.31	1.30	1.30	1.29	1.27	1.26	1.26	1.26	1.25
Ethanol (E85) 10/	14.65	16.23	19.66	19.59	19.47	18.31	18.15	17.74	17.11	16.99	16.89	17.11	17.30
Electricity	21.60	21.74	21.73	21.66	20.86	19.95	19.50	19.47	19.36	19.34	19.57	19.83	20.18
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)													
Residential	163.90	177.17	181.73	185.24	178.77	174.57	173.50	174.68	175.88	177.93	181.98	185.46	189.90
Commercial	122.69	128.15	130.48	132.29	128.48	125.52	125.36	127.82	129.92	133.11	137.93	142.93	148.82
Industrial	124.40	147.11	168.11	167.31	151.68	143.54	141.57	140.78	139.57	140.40	142.75	145.43	149.21
Transportation	263.73	302.59	352.24	351.05	340.83	332.57	335.97	336.86	341.13	348.16	352.91	359.70	365.95
Total Non-Renewable Expenditures	674.72	755.02	832.55	835.89	799.77	776.20	776.39	780.13	786.50	799.60	815.56	833.51	853.87
Transportation Renewable Expenditures	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05
Total Expenditures	674.73	755.04	832.58	835.91	799.79	776.23	776.42	780.17	786.54	799.64	815.60	833.55	853.92

Table 20. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential	14.98	15.00	15.07	15.25	15.48	15.64	15.81	15.87	15.91	16.00	16.13	0.1%
Primary Energy 1/	8.74	8.75	8.77	8.89	9.06	9.21	9.34	9.42	9.46	9.54	9.62	0.0%
Petroleum Products 2/	10.76	10.87	10.96	11.08	11.22	11.36	11.51	11.62	11.75	11.84	11.93	0.3%
Distillate Fuel	8.49	8.53	8.59	8.71	8.78	8.85	8.91	8.97	9.03	9.07	9.12	-0.2%
Liquefied Petroleum Gas	14.45	14.60	14.67	14.71	14.88	15.06	15.25	15.34	15.49	15.58	15.65	0.3%
Natural Gas	8.21	8.20	8.20	8.32	8.51	8.66	8.80	8.87	8.89	8.98	9.07	-0.1%
Electricity	23.63	23.59	23.65	23.81	24.03	24.12	24.23	24.18	24.13	24.15	24.24	-0.2%
Commercial	14.87	14.93	15.04	15.25	15.52	15.70	15.89	15.93	15.98	16.06	16.20	0.2%
Primary Energy 1/	7.20	7.19	7.19	7.29	7.44	7.54	7.64	7.69	7.70	7.76	7.82	-0.1%
Petroleum Products 2/	7.28	7.33	7.37	7.44	7.51	7.55	7.63	7.69	7.72	7.76	7.84	-0.1%
Distillate Fuel	6.49	6.53	6.57	6.66	6.73	6.76	6.84	6.91	6.92	6.96	7.06	0.0%
Residual Fuel	4.52	4.58	4.63	4.69	4.75	4.81	4.86	4.91	4.97	5.02	5.08	0.1%
Natural Gas	7.33	7.29	7.29	7.40	7.56	7.68	7.79	7.83	7.83	7.90	7.96	-0.1%
Electricity	21.25	21.30	21.43	21.65	21.94	22.10	22.28	22.25	22.25	22.29	22.40	-0.2%
Industrial 3/	7.24	7.28	7.33	7.46	7.62	7.75	7.88	7.95	8.00	8.06	8.13	0.2%
Primary Energy	5.83	5.86	5.90	6.01	6.14	6.27	6.39	6.46	6.52	6.58	6.64	0.1%
Petroleum Products 2/	7.42	7.51	7.55	7.63	7.74	7.88	8.03	8.15	8.25	8.30	8.36	0.0%
Distillate Fuel	7.19	7.22	7.28	7.32	7.38	7.37	7.45	7.51	7.50	7.56	7.73	0.3%
Liquefied Petroleum Gas	10.22	10.34	10.32	10.41	10.55	10.74	10.93	11.05	11.20	11.30	11.35	-0.5%
Residual Fuel	4.10	4.14	4.19	4.23	4.28	4.34	4.41	4.46	4.52	4.56	4.62	0.0%
Natural Gas 4/	4.82	4.79	4.82	4.96	5.11	5.23	5.33	5.36	5.35	5.41	5.47	-0.1%
Metallurgical Coal	1.76	1.76	1.75	1.75	1.76	1.75	1.74	1.72	1.71	1.70	1.68	-0.4%
Steam Coal	1.55	1.55	1.56	1.56	1.56	1.56	1.57	1.57	1.60	1.61	1.60	0.1%
Electricity	14.62	14.68	14.82	15.04	15.31	15.47	15.61	15.62	15.61	15.66	15.75	0.2%
Transportation	10.95	10.99	11.05	11.07	11.12	11.16	11.21	11.27	11.33	11.35	11.46	0.0%
Primary Energy	10.92	10.97	11.02	11.05	11.09	11.13	11.18	11.25	11.31	11.32	11.44	0.0%
Petroleum Products 2/	10.93	10.97	11.03	11.05	11.10	11.13	11.19	11.25	11.31	11.33	11.44	0.0%
Distillate Fuel 5/	10.71	10.70	10.72	10.72	10.72	10.66	10.69	10.71	10.64	10.68	10.85	0.0%
Jet Fuel 6/	6.29	6.33	6.36	6.44	6.54	6.58	6.70	6.80	6.87	6.89	6.93	0.3%
Motor Gasoline 7/	12.26	12.32	12.39	12.41	12.45	12.52	12.56	12.62	12.72	12.72	12.81	0.0%
Residual Fuel	4.01	4.06	4.11	4.17	4.23	4.28	4.34	4.39	4.45	4.50	4.56	0.1%
Liquefied Petroleum Gas 8/	15.28	15.38	15.37	15.39	15.51	15.66	15.77	15.85	16.04	16.11	16.24	-0.1%
Natural Gas 9/	9.11	9.10	9.10	9.20	9.34	9.45	9.54	9.58	9.58	9.64	9.69	0.3%
Ethanol (E85) 10/	17.37	17.40	17.43	17.50	17.11	17.22	17.67	17.68	17.87	17.99	18.13	0.5%
Electricity	19.59	19.54	19.58	19.71	19.90	19.99	20.05	19.98	19.89	19.92	19.96	-0.2%
Average End-Use Energy	10.95	11.00	11.07	11.18	11.31	11.42	11.53	11.60	11.66	11.72	11.83	0.1%
Primary Energy	8.83	8.88	8.92	8.99	9.09	9.18	9.27	9.34	9.40	9.45	9.55	0.1%
Electricity	20.35	20.38	20.49	20.69	20.96	21.11	21.26	21.24	21.23	21.28	21.38	-0.1%
Electric Power 11/												
Fossil Fuel Average	2.28	2.29	2.31	2.37	2.42	2.45	2.46	2.46	2.45	2.46	2.46	0.4%
Petroleum Products	4.77	4.82	4.87	4.96	5.02	5.10	5.18	5.24	5.32	5.37	5.42	0.1%
Distillate Fuel	5.53	5.59	5.63	5.79	5.92	6.01	6.11	6.21	6.29	6.32	6.33	-0.1%
Residual Fuel	4.44	4.49	4.55	4.60	4.66	4.71	4.77	4.83	4.88	4.94	5.00	0.2%
Natural Gas	4.81	4.77	4.80	4.93	5.10	5.20	5.29	5.33	5.32	5.38	5.44	0.0%
Steam Coal	1.23	1.23	1.23	1.24	1.24	1.25	1.26	1.26	1.29	1.30	1.31	0.1%
Average Price to All Users 12/												
Petroleum Products 2/	10.00	10.07	10.12	10.17	10.22	10.29	10.37	10.45	10.53	10.56	10.66	0.1%
Distillate Fuel	9.72	9.73	9.77	9.79	9.82	9.79	9.83	9.88	9.83	9.88	10.03	0.1%
Jet Fuel	6.29	6.33	6.36	6.44	6.54	6.58	6.70	6.80	6.87	6.89	6.93	0.3%
Liquefied Petroleum Gas	11.21	11.34	11.34	11.41	11.56	11.74	11.92	12.03	12.18	12.28	12.34	-0.3%
Motor Gasoline 7/	12.25	12.31	12.38	12.40	12.44	12.51	12.55	12.61	12.71	12.70	12.80	0.0%

Table 20. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Residual Fuel	4.25	4.30	4.35	4.41	4.47	4.52	4.58	4.64	4.69	4.75	4.81	0.1%
Natural Gas	5.92	5.89	5.89	6.01	6.18	6.30	6.40	6.44	6.45	6.52	6.59	-0.2%
Coal	1.25	1.25	1.25	1.26	1.26	1.27	1.27	1.28	1.31	1.32	1.32	0.1%
Ethanol (E85) 10/	17.37	17.40	17.43	17.50	17.11	17.22	17.67	17.68	17.87	17.99	18.13	0.5%
Electricity	20.35	20.38	20.49	20.69	20.96	21.11	21.26	21.24	21.23	21.28	21.38	-0.1%
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)												
Residential	193.21	195.50	197.61	201.40	205.81	209.76	212.75	215.11	217.42	220.97	223.86	1.1%
Commercial	153.52	157.04	161.35	166.52	172.33	177.28	182.50	186.39	190.51	195.38	200.93	2.1%
Industrial	152.35	153.50	156.36	160.77	165.76	169.93	173.96	176.66	179.21	182.01	184.96	1.0%
Transportation	372.46	379.28	387.03	393.88	401.07	407.83	415.11	423.07	431.36	438.52	449.31	1.8%
Total Non-Renewable Expenditures	871.55	885.33	902.34	922.57	944.97	964.80	984.33	1001.23	1018.51	1036.88	1059.05	1.5%
Transportation Renewable Expenditures	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	7.2%
Total Expenditures	871.60	885.38	902.40	922.63	945.03	964.87	984.40	1001.30	1018.58	1036.96	1059.13	1.6%

Table 20. Energy Prices by Sector and Source (2003 Dollars per Million Btu, Unless Otherwise Noted) United States

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2003, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 transportation sector natural gas delivered prices are model results. 2002 and 2003 coal prices based on: EIA, Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. 2002 and 2003 electricity prices: Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2002 and 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 21. Residential Sector Equipment Stock and Efficiency

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Equipment Stock (million units)													
Main Space Heaters													
Electric Heat Pumps	10.63	11.02	11.43	11.80	12.11	12.44	12.76	13.08	13.40	13.71	14.02	14.33	14.64
Electric Other	20.76	20.90	21.04	21.16	21.28	21.43	21.58	21.74	21.89	22.04	22.20	22.35	22.50
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Other	59.93	60.87	61.86	62.74	63.60	64.46	65.31	66.15	67.03	67.93	68.80	69.68	70.56
Distillate	8.03	8.03	8.04	8.05	8.06	8.07	8.09	8.10	8.12	8.13	8.15	8.17	8.18
Liquefied Petroleum Gas	5.00	5.06	5.10	5.14	5.19	5.25	5.30	5.36	5.41	5.46	5.51	5.56	5.61
Kerosene	0.82	0.81	0.80	0.79	0.79	0.78	0.78	0.78	0.77	0.77	0.77	0.77	0.77
Wood Stoves	2.04	2.04	2.03	2.03	2.02	2.01	2.00	1.99	1.99	1.98	1.97	1.97	1.96
Geothermal Heat Pumps	0.07	0.09	0.11	0.14	0.15	0.17	0.19	0.21	0.23	0.24	0.26	0.28	0.30
Total	107.29	108.82	110.42	111.85	113.20	114.61	116.01	117.41	118.83	120.28	121.69	123.10	124.53
Space Cooling (million units)													
Electric Heat Pumps	10.63	11.02	11.43	11.80	12.11	12.44	12.76	13.08	13.40	13.71	14.02	14.33	14.64
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal Heat Pumps	0.07	0.09	0.11	0.14	0.15	0.17	0.19	0.21	0.23	0.24	0.26	0.28	0.30
Central Air Conditioners	48.33	49.71	51.12	52.43	53.71	55.02	56.33	57.62	58.94	60.27	61.57	62.87	64.18
Room Air Conditioners	34.55	34.49	34.43	34.37	34.31	34.25	34.20	34.16	34.11	34.07	34.03	33.99	33.95
Total	93.58	95.31	97.10	98.73	100.28	101.89	103.49	105.07	106.67	108.29	109.89	111.47	113.07
Water Heaters (million units)													
Electric	41.16	41.58	42.01	42.37	42.68	43.03	43.38	43.74	44.08	44.43	44.77	45.10	45.45
Natural Gas	59.05	60.13	61.27	62.31	63.33	64.36	65.38	66.38	67.42	68.48	69.52	70.55	71.59
Distillate	4.60	4.58	4.55	4.53	4.51	4.49	4.46	4.45	4.43	4.41	4.39	4.37	4.36
Liquefied Petroleum Gas	2.98	3.03	3.07	3.10	3.15	3.19	3.24	3.29	3.34	3.38	3.43	3.48	3.52
Solar Thermal	0.32	0.33	0.34	0.35	0.36	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42
Total	108.11	109.65	111.24	112.67	114.02	115.43	116.83	118.23	119.65	121.09	122.51	123.91	125.34
Cooking Equipment (million units) 1/													
Electric	66.05	67.07	68.12	69.04	69.89	70.78	71.68	72.56	73.44	74.34	75.20	76.05	76.91
Natural Gas	37.65	38.13	38.63	39.11	39.58	40.05	40.52	40.99	41.48	42.00	42.51	43.03	43.57
Liquefied Petroleum Gas	4.72	4.77	4.80	4.83	4.86	4.90	4.94	4.98	5.02	5.05	5.09	5.12	5.15
Total	108.42	109.96	111.55	112.97	114.32	115.73	117.13	118.53	119.94	121.38	122.80	124.20	125.63
Clothes Dryers (million units)													
Electric	62.00	63.18	64.40	65.51	66.55	67.63	68.70	69.75	70.81	71.87	72.89	73.89	74.90
Natural Gas	17.43	17.99	18.58	19.14	19.68	20.23	20.77	21.31	21.86	22.43	23.01	23.59	24.19
Total	79.44	81.18	82.97	84.64	86.23	87.85	89.47	91.07	92.68	94.30	95.90	97.49	99.09
Other Appliances (million units)													
Refrigerators	127.52	129.13	130.81	132.32	133.74	135.22	136.69	138.15	139.63	141.14	142.62	144.09	145.58
Freezers	34.62	35.05	35.51	35.92	36.32	36.71	37.11	37.51	37.90	38.31	38.71	39.10	39.50
Stock Average Equipment Efficiency													
Main Space Heaters													
Electric Heat Pumps (HSPF)	7.21	7.25	7.28	7.30	7.39	7.46	7.52	7.57	7.62	7.67	7.72	7.76	7.81
Natural Gas Heat Pumps (GCOP)	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.31	1.33	1.34	1.34	1.35
Geothermal Heat Pumps (COP)	3.40	3.40	3.43	3.44	3.45	3.46	3.46	3.47	3.47	3.48	3.48	3.48	3.49
Natural Gas Furnace (AFUE)	0.80	0.80	0.81	0.81	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.84	0.84
Distillate Furnace (AFUE)	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Space Cooling													
Electric Heat Pumps (SEER)	10.62	10.69	10.75	10.80	11.04	11.24	11.42	11.59	11.76	11.92	12.08	12.24	12.39
Natural Gas Heat Pumps (GCOP)	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Geothermal Heat Pumps (EER)	13.58	13.64	14.17	14.48	14.70	14.87	15.02	15.14	15.24	15.32	15.40	15.48	15.55
Cent. Air Conditioners (SEER)	10.44	10.50	10.55	10.59	10.82	11.01	11.21	11.39	11.57	11.74	11.90	12.06	12.21

Table 21. Residential Sector Equipment Stock and Efficiency

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Room Air Conditioners (EER)	9.11	9.19	9.27	9.34	9.40	9.45	9.51	9.57	9.62	9.67	9.71	9.75	9.78
Water Heaters													
Electric (EF)	0.88	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90
Natural Gas (EF)	0.55	0.55	0.56	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.59
Distillate (EF)	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Liquefied Petroleum Gas (EF)	0.55	0.55	0.56	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.59
Other Appliances (kilowatthours per year) 2/													
Refrigerators	757.18	733.75	711.60	691.60	673.26	656.04	639.76	624.72	609.75	596.26	584.08	573.26	563.61
Freezers	556.64	535.23	515.77	499.31	486.22	475.54	466.40	458.67	452.16	447.02	443.01	439.74	437.14
Building Shell Efficiency Index													
Space Heating													
Pre-1998 Homes	0.99	0.98	0.97	0.95	0.94	0.94	0.93	0.93	0.93	0.92	0.92	0.92	0.91
New Construction	0.77	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.75
All Homes	0.99	0.98	0.96	0.94	0.93	0.92	0.91	0.91	0.90	0.90	0.89	0.89	0.88
Space Cooling													
Pre-1998 Homes	1.00	0.99	0.99	0.98	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.97	0.97
New Construction	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.87	0.87
All Homes	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.96	0.96	0.95	0.95	0.95

Table 21. Residential Sector Equipment Stock and Efficiency

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Equipment Stock (million units)												
Main Space Heaters												
Electric Heat Pumps	14.95	15.24	15.54	15.83	16.13	16.42	16.70	16.98	17.26	17.54	17.82	2.2%
Electric Other	22.65	22.80	22.94	23.09	23.24	23.38	23.51	23.65	23.79	23.93	24.07	0.6%
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Other	71.41	72.25	73.06	73.88	74.70	75.55	76.41	77.27	78.13	78.99	79.84	1.2%
Distillate	8.20	8.22	8.23	8.25	8.27	8.28	8.30	8.32	8.33	8.35	8.37	0.2%
Liquefied Petroleum Gas	5.66	5.71	5.75	5.79	5.84	5.87	5.91	5.95	5.99	6.02	6.06	0.8%
Kerosene	0.77	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	-0.3%
Wood Stoves	1.95	1.95	1.94	1.93	1.93	1.92	1.91	1.90	1.90	1.89	1.88	-0.4%
Geothermal Heat Pumps	0.31	0.33	0.35	0.36	0.38	0.40	0.42	0.43	0.45	0.47	0.48	7.9%
Total	125.91	127.25	128.58	129.90	131.23	132.58	133.92	135.26	136.61	137.95	139.28	1.1%
Space Cooling (million units)												
Electric Heat Pumps	14.95	15.24	15.54	15.83	16.13	16.42	16.70	16.98	17.26	17.54	17.82	2.2%
Natural Gas Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Geothermal Heat Pumps	0.31	0.33	0.35	0.36	0.38	0.40	0.42	0.43	0.45	0.47	0.48	7.9%
Central Air Conditioners	65.45	66.69	67.92	69.14	70.37	71.61	72.85	74.09	75.32	76.56	77.78	2.1%
Room Air Conditioners	33.91	33.87	33.83	33.79	33.75	33.72	33.68	33.65	33.62	33.58	33.55	-0.1%
Total	114.62	116.14	117.64	119.13	120.63	122.15	123.65	125.15	126.65	128.15	129.63	1.4%
Water Heaters (million units)												
Electric	45.78	46.10	46.42	46.74	47.07	47.39	47.70	48.01	48.33	48.65	48.96	0.7%
Natural Gas	72.60	73.58	74.55	75.51	76.47	77.47	78.47	79.46	80.45	81.44	82.42	1.4%
Distillate	4.35	4.34	4.33	4.31	4.30	4.29	4.28	4.28	4.27	4.26	4.26	-0.3%
Liquefied Petroleum Gas	3.57	3.61	3.65	3.69	3.73	3.77	3.81	3.84	3.88	3.91	3.95	1.2%
Solar Thermal	0.43	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.48	0.49	0.50	1.9%
Total	126.72	128.07	129.39	130.71	132.04	133.39	134.73	136.07	137.41	138.75	140.08	1.1%
Cooking Equipment (million units) 1/												
Electric	77.73	78.52	79.30	80.07	80.87	81.68	82.52	83.37	84.24	85.11	85.97	1.1%
Natural Gas	44.09	44.61	45.14	45.66	46.17	46.67	47.15	47.61	48.05	48.49	48.93	1.1%
Liquefied Petroleum Gas	5.18	5.21	5.23	5.26	5.28	5.31	5.33	5.36	5.40	5.43	5.45	0.6%
Total	127.01	128.35	129.67	130.99	132.32	133.66	135.00	136.34	137.68	139.02	140.35	1.1%
Clothes Dryers (million units)												
Electric	75.88	76.83	77.77	78.70	79.66	80.63	81.60	82.59	83.57	84.54	85.50	1.4%
Natural Gas	24.77	25.33	25.88	26.42	26.95	27.48	28.00	28.50	29.00	29.50	30.02	2.4%
Total	100.65	102.16	103.65	105.12	106.61	108.11	109.60	111.08	112.57	114.05	115.52	1.6%
Other Appliances (million units)												
Refrigerators	147.02	148.42	149.80	151.18	152.57	153.97	155.37	156.77	158.18	159.57	160.97	1.0%
Freezers	39.88	40.25	40.61	40.96	41.32	41.68	42.04	42.40	42.76	43.12	43.48	1.0%
Stock Average Equipment Efficiency												
Main Space Heaters												
Electric Heat Pumps (HSPF)	7.85	7.89	7.92	7.95	7.98	8.01	8.04	8.06	8.08	8.10	8.11	0.5%
Natural Gas Heat Pumps (GCOP)	1.36	1.37	1.37	1.38	1.38	1.40	1.41	1.42	1.43	1.44	1.45	0.5%
Geothermal Heat Pumps (COP)	3.49	3.49	3.49	3.49	3.50	3.52	3.54	3.56	3.58	3.59	3.61	0.3%
Natural Gas Furnace (AFUE)	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.2%
Distillate Furnace (AFUE)	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.1%
Space Cooling												
Electric Heat Pumps (SEER)	12.53	12.65	12.77	12.87	12.96	13.05	13.13	13.19	13.25	13.30	13.33	1.0%
Natural Gas Heat Pumps (GCOP)	0.62	0.62	0.62	0.62	0.62	0.63	0.64	0.64	0.65	0.66	0.66	0.3%
Geothermal Heat Pumps (EER)	15.61	15.67	15.72	15.76	15.80	15.94	16.06	16.18	16.29	16.39	16.49	0.9%
Cent. Air Conditioners (SEER)	12.35	12.47	12.58	12.68	12.77	12.88	12.97	13.05	13.13	13.19	13.24	1.1%

Table 21. Residential Sector Equipment Stock and Efficiency

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Room Air Conditioners (EER)	9.79	9.80	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	0.3%
Water Heaters												
Electric (EF)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.2%
Natural Gas (EF)	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.4%
Distillate (EF)	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.0%
Liquefied Petroleum Gas (EF)	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.4%
Other Appliances (kilowatthours per year) 2/												
Refrigerators	555.14	547.74	541.34	535.80	531.04	526.74	522.94	519.63	516.84	514.55	512.79	-1.6%
Freezers	435.16	433.73	432.79	432.26	432.02	432.07	432.30	432.68	433.21	433.89	434.51	-0.9%
Building Shell Efficiency Index												
Space Heating												
Pre-1998 Homes	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.86	0.86	0.85	-0.6%
New Construction	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	-0.1%
All Homes	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.83	0.82	-0.8%
Space Cooling												
Pre-1998 Homes	0.97	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95	0.95	0.94	-0.2%
New Construction	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	-0.1%
All Homes	0.95	0.94	0.94	0.94	0.94	0.93	0.93	0.93	0.93	0.92	0.92	-0.3%

Table 21. Residential Sector Equipment Stock and Efficiency

1/ Does not include microwave ovens or outdoor grills.

2/ Kilowatthours per year to run the appliance under certain test conditions as specified by the Department of Energy

HSPF = Heating Seasonal Performance Factor: The total heating output of a heat pump in Btu during its normal annual usage period for heating divided by total electric input in watt-hours during the same period.

COP = Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input

GCOP = Gas Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input

AFUE = Annual Fuel Utilization Efficiency: Efficiency rating based on average usage, including on and off cycling, as set out in the standardized Department of Energy test procedures.

SEER = Seasonal Energy Efficiency Ratio: The total cooling of a central unitary air conditioner or a unitary heat pump in Btu during its normal annual usage period for cooling divided by the total electric energy input in watt-hours during the same period

EER = Energy Efficiency Ratio: A ratio calculated by dividing the cooling capacity in Btu per hour by the power input in watts at any given set of rating conditions, expressed in Btu per hour per watt.

EF = Efficiency Factor: Efficiency (measured in Btu out / Btu in) of water heaters under certain test conditions specified by the Department of Energy

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a

Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Commercial Building Delivered Energy Consumption (quadrillion Btu) 1/													
Assembly	0.51	0.51	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.56	0.57	0.57	0.57
Education	0.68	0.68	0.67	0.68	0.70	0.72	0.73	0.75	0.76	0.77	0.78	0.79	0.80
Food Sales	0.21	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26
Food Service	0.45	0.45	0.45	0.45	0.47	0.48	0.49	0.51	0.52	0.53	0.54	0.55	0.56
Health Care	0.45	0.46	0.46	0.47	0.49	0.51	0.53	0.55	0.56	0.58	0.59	0.61	0.62
Lodging	0.45	0.46	0.46	0.46	0.48	0.49	0.51	0.53	0.55	0.56	0.57	0.59	0.60
Office - Large	0.74	0.74	0.74	0.76	0.79	0.81	0.84	0.86	0.88	0.90	0.92	0.94	0.95
Office - Small	0.42	0.42	0.43	0.44	0.45	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.55
Mercantile/Service	1.26	1.28	1.28	1.32	1.35	1.40	1.44	1.48	1.52	1.55	1.58	1.61	1.64
Warehouse	0.53	0.54	0.54	0.55	0.57	0.59	0.60	0.62	0.63	0.65	0.66	0.67	0.69
Other	0.38	0.39	0.39	0.41	0.42	0.44	0.46	0.47	0.49	0.51	0.52	0.54	0.56
Total	6.07	6.12	6.13	6.28	6.45	6.65	6.86	7.04	7.21	7.37	7.52	7.66	7.80
Commercial Building Floorspace (billion square feet)													
Assembly	7.98	8.04	8.10	8.16	8.22	8.28	8.34	8.40	8.46	8.52	8.58	8.64	8.70
Education	9.09	9.24	9.39	9.53	9.68	9.83	9.97	10.12	10.28	10.43	10.58	10.74	10.90
Food Sales	1.05	1.07	1.09	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.28	1.31
Food Service	1.96	1.99	2.03	2.06	2.10	2.13	2.17	2.20	2.24	2.28	2.31	2.35	2.39
Health Care	1.96	2.00	2.04	2.09	2.13	2.18	2.23	2.28	2.33	2.38	2.43	2.48	2.53
Lodging	4.84	4.95	5.06	5.17	5.29	5.41	5.53	5.66	5.79	5.92	6.05	6.19	6.33
Office - Large	7.62	7.71	7.81	7.90	7.99	8.08	8.18	8.27	8.36	8.45	8.54	8.63	8.73
Office - Small	5.94	6.03	6.11	6.19	6.27	6.35	6.43	6.51	6.59	6.68	6.76	6.84	6.93
Mercantile/Service	14.56	14.83	15.11	15.39	15.66	15.95	16.23	16.52	16.81	17.10	17.40	17.70	18.01
Warehouse	11.20	11.44	11.69	11.94	12.18	12.43	12.69	12.96	13.23	13.50	13.79	14.08	14.39
Other	4.70	4.84	4.99	5.14	5.29	5.45	5.62	5.78	5.95	6.13	6.31	6.50	6.69
Total	70.92	72.15	73.42	74.70	75.96	77.25	78.57	79.90	81.24	82.61	84.01	85.44	86.91
Stock Average Equipment Efficiency 2/													
Space Heating													
Electricity	1.08	1.09	1.10	1.11	1.12	1.12	1.13	1.13	1.14	1.14	1.15	1.15	1.15
Natural Gas	0.74	0.75	0.75	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.78	0.78
Distillate	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.78
Space Cooling													
Electricity	2.72	2.75	2.77	2.79	2.81	2.84	2.86	2.88	2.90	2.92	2.94	2.96	2.98
Natural Gas	0.81	0.85	0.87	0.90	0.92	0.95	0.97	0.99	1.01	1.02	1.04	1.05	1.06
Water Heating													
Electricity	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Natural Gas	0.83	0.84	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90	0.90
Distillate	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77
Ventilation (cubic feet per minute per Btu) 3													
Electricity	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.41
Cooking													
Electricity	0.72	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Natural Gas	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Lighting Efficacy 4/ (efficacy in lumens per watt)													
Electricity	47.56	47.73	47.95	48.05	48.05	47.96	47.76	47.61	47.49	47.41	47.42	47.46	47.55
Refrigeration													
Electricity	1.39	1.40	1.40	1.41	1.42	1.42	1.42	1.43	1.43	1.43	1.44	1.44	1.44

Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Commercial Building Delivered Energy Consumption (quadrillion Btu) 1/												
Assembly	0.58	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63	1.0%
Education	0.81	0.82	0.83	0.85	0.86	0.87	0.88	0.89	0.90	0.92	0.93	1.4%
Food Sales	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.32	0.32	2.0%
Food Service	0.57	0.58	0.60	0.61	0.62	0.63	0.64	0.65	0.67	0.68	0.69	2.0%
Health Care	0.64	0.66	0.68	0.69	0.71	0.73	0.74	0.76	0.78	0.81	0.83	2.7%
Lodging	0.62	0.63	0.65	0.67	0.68	0.70	0.71	0.73	0.75	0.78	0.80	2.6%
Office - Large	0.97	0.99	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.18	1.21	2.3%
Office - Small	0.56	0.57	0.58	0.59	0.60	0.61	0.61	0.63	0.64	0.65	0.66	2.0%
Mercantile/Service	1.67	1.70	1.73	1.76	1.78	1.81	1.83	1.86	1.90	1.93	1.97	2.0%
Warehouse	0.70	0.71	0.73	0.75	0.76	0.78	0.79	0.81	0.83	0.85	0.87	2.2%
Other	0.58	0.59	0.62	0.64	0.66	0.68	0.70	0.72	0.75	0.78	0.80	3.4%
Total	7.95	8.11	8.29	8.45	8.61	8.76	8.93	9.11	9.30	9.50	9.71	2.1%
Commercial Building Floorspace (billion square feet)												
Assembly	8.77	8.83	8.90	8.96	9.03	9.09	9.16	9.23	9.30	9.37	9.44	0.7%
Education	11.06	11.22	11.39	11.55	11.72	11.89	12.06	12.23	12.41	12.58	12.76	1.5%
Food Sales	1.33	1.35	1.37	1.40	1.42	1.45	1.47	1.49	1.52	1.55	1.57	1.7%
Food Service	2.43	2.47	2.51	2.55	2.59	2.64	2.68	2.72	2.76	2.81	2.86	1.7%
Health Care	2.59	2.65	2.70	2.76	2.82	2.88	2.94	3.00	3.06	3.13	3.20	2.2%
Lodging	6.48	6.64	6.79	6.95	7.10	7.26	7.42	7.59	7.76	7.95	8.15	2.3%
Office - Large	8.82	8.92	9.02	9.11	9.20	9.29	9.38	9.48	9.57	9.67	9.78	1.1%
Office - Small	7.01	7.10	7.18	7.27	7.35	7.44	7.52	7.61	7.70	7.79	7.89	1.2%
Mercantile/Service	18.33	18.65	18.97	19.30	19.62	19.94	20.28	20.62	20.96	21.33	21.70	1.7%
Warehouse	14.70	15.01	15.33	15.66	16.00	16.34	16.69	17.04	17.42	17.80	18.20	2.1%
Other	6.90	7.10	7.31	7.53	7.75	7.97	8.21	8.45	8.70	8.97	9.24	3.0%
Total	88.42	89.95	91.49	93.04	94.61	96.18	97.80	99.46	101.17	102.95	104.80	1.7%
Stock Average Equipment Efficiency 2/												
Space Heating												
Electricity	1.16	1.16	1.16	1.17	1.17	1.17	1.18	1.18	1.18	1.19	1.19	0.4%
Natural Gas	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.3%
Distillate	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.2%
Space Cooling												
Electricity	3.00	3.01	3.03	3.05	3.06	3.08	3.09	3.11	3.12	3.14	3.15	0.6%
Natural Gas	1.07	1.08	1.09	1.10	1.11	1.11	1.12	1.13	1.14	1.14	1.15	1.4%
Water Heating												
Electricity	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.0%
Natural Gas	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.4%
Distillate	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.1%
Ventilation (cubic feet per minute per Btu) 3/												
Electricity	0.41	0.42	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.44	0.45	1.1%
Cooking												
Electricity	0.74	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.2%
Natural Gas	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.1%
Lighting Efficacy 4/ (efficacy in lumens per watt)												
Electricity	47.65	47.77	47.89	48.18	48.52	48.85	49.14	49.39	49.63	49.84	50.05	0.2%
Refrigeration												
Electricity	1.44	1.44	1.45	1.45	1.45	1.45	1.45	1.46	1.46	1.46	1.46	0.2%

Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency

1/ Excludes commercial sector energy consumption (from uses such as street lights) that is not attributable to buildings.

2/ Unless noted otherwise, the efficiency measures are in the terms of Btu of energy output divided by Btu of energy input.

3/ The efficiency measure for ventilation is in terms of cubic feet per minute (cfm) of ventilation air delivered divided by Btu of energy input.

4/ A measurement of the ratio of light produced by a light source to the electrical power used to produce that quality of light, expressed in lumens per watt.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 23. Industrial Sector Macroeconomic Indicators

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gross Domestic Product (billion 2000 dollars)	10074.8	10381.3	10834.3	11220.6	11557.1	11947.9	12296.1	12686.2	13084.2	13474.2	13868.9	14300.4	14774.1
Nonfarm Employment (millions)	130.3	129.9	131.0	133.4	135.1	136.7	137.9	139.2	140.7	142.2	143.6	145.2	147.1
Value of Shipments (billion 1996 dollars)													
Nonmanufacturing Sector													
Agricultural	283.3	279.3	272.1	275.7	280.5	284.2	291.5	295.2	296.7	300.0	302.5	306.2	311.8
Mining	165.5	164.1	167.5	172.8	175.6	178.2	180.8	183.9	182.8	183.8	184.5	183.5	183.7
Construction	791.4	810.6	839.2	831.7	804.7	811.0	822.1	836.2	849.6	872.7	891.6	911.2	938.2
Manufacturing Sector													
Food and Kindred Products	439.6	430.8	435.5	449.6	457.5	465.4	480.4	491.9	500.6	508.8	515.7	522.9	530.7
Beverages and Tobacco Products	81.1	79.9	80.1	80.6	80.9	82.0	83.2	84.7	85.7	86.8	88.2	89.4	90.9
Textile Mill Products	81.5	79.5	81.2	80.9	79.9	79.6	80.4	81.0	80.4	79.8	79.3	78.4	78.1
Apparel and Other Textile Products	53.5	52.6	54.1	52.0	49.9	48.4	47.1	45.7	44.2	42.7	41.1	39.7	38.4
Lumber and Wood Products	81.3	85.1	93.2	88.8	85.4	86.2	86.9	86.6	86.5	86.7	86.9	87.7	89.0
Furniture and Fixtures	68.4	68.0	70.7	73.4	73.0	73.3	76.0	78.3	79.2	80.3	81.9	82.5	83.9
Paper and Allied Products	141.1	147.5	154.4	160.5	162.0	164.0	167.2	170.0	171.5	173.2	175.0	176.0	178.0
Printing and Publishing	84.0	79.9	78.9	81.7	83.5	85.0	85.9	87.3	88.6	89.9	91.2	92.2	93.4
Chemical and Allied Products	391.0	402.7	421.9	437.8	442.8	452.2	465.5	477.2	487.1	498.5	510.2	521.4	533.8
Bulk Chemicals	185.3	181.0	187.8	193.8	193.9	194.8	200.5	204.7	207.4	210.1	212.3	213.4	215.0
Inorganic	29.6	29.6	29.6	30.0	29.7	29.7	30.0	30.4	30.6	30.6	30.4	30.2	29.8
Organic	72.9	71.7	74.4	77.3	77.8	78.2	80.0	81.2	82.7	84.3	85.6	86.5	87.4
Resins	63.1	61.0	64.1	66.8	66.9	67.3	70.5	72.9	73.5	74.3	75.1	75.5	76.6
Agricultural Chemicals	19.8	18.7	19.7	19.7	19.5	19.6	20.0	20.2	20.7	20.9	21.1	21.2	21.2
Other Chemical and Allied Products	205.7	221.7	234.1	244.0	248.9	257.3	265.0	272.5	279.8	288.3	297.9	308.0	318.8
Petroleum and Coal Products	181.0	180.3	190.8	193.2	199.9	203.2	209.1	213.6	216.4	219.7	223.0	226.2	231.3
Petroleum Refining	163.7	165.5	175.3	176.8	183.9	187.3	192.0	195.7	198.2	201.2	204.3	207.4	212.0
Other Petroleum and Coal Products	17.3	14.7	15.5	16.4	16.0	15.9	17.1	17.9	18.2	18.5	18.7	18.9	19.3
Rubber and Miscellaneous Plastic Products	175.1	177.5	183.9	190.5	193.6	197.7	206.3	213.9	217.7	222.6	228.4	233.1	240.1
Leather and Leather Products	9.9	10.2	9.6	9.3	9.0	8.7	8.5	8.3	8.2	8.0	7.8	7.7	7.5
Stone, Clay, and Glass Products	79.2	77.2	81.1	84.7	85.7	87.3	89.0	91.6	93.7	96.1	97.7	99.6	102.3
Glass and Glass Products	22.3	22.2	22.2	23.1	23.6	24.0	24.5	25.0	25.7	26.7	27.4	27.9	28.5
Cement and Hydraulic Products	6.7	7.0	7.4	7.9	8.1	8.3	8.5	8.6	8.6	8.8	8.8	8.9	9.0
Other Stone, Clay, and Glass Products	50.2	48.0	51.5	53.8	54.0	55.1	56.0	58.0	59.4	60.7	61.5	62.7	64.8
Primary Metals Industry	150.2	147.0	154.6	159.5	158.6	161.6	166.6	169.7	169.8	171.4	172.9	174.0	176.7
Blast Furnace and Basic Steel Products	70.5	65.3	69.7	72.6	72.1	73.0	76.2	78.4	78.6	78.7	78.9	78.5	78.8
Aluminum	28.1	28.8	28.7	28.1	27.9	28.8	29.1	28.8	28.4	28.9	29.2	29.6	30.1
Other Primary Metal Products	51.5	52.8	56.1	58.8	58.7	59.7	61.2	62.5	62.8	63.7	64.8	66.0	67.8
Fabricated Metal Products	241.8	233.1	245.3	256.2	261.0	266.0	271.8	277.2	279.8	282.3	286.3	288.7	294.0
Industrial Machinery and Equipment	244.4	239.4	258.0	267.3	270.0	273.6	280.9	292.6	299.2	303.4	309.3	313.9	320.7
Electronic and Other Electric Equipment	474.5	501.7	566.5	612.4	638.3	682.1	732.0	785.1	821.4	855.5	893.8	930.4	981.5
Transportation Equipment	626.8	617.3	638.8	672.9	681.8	707.0	726.0	759.7	787.6	801.4	815.8	828.6	848.9
Instruments and Related Products	96.8	106.2	113.4	116.5	119.6	122.7	126.6	130.2	134.2	137.4	141.1	145.5	150.3
Miscellaneous Manufacturing Industries	125.4	135.3	144.0	150.8	157.8	164.1	170.1	176.3	183.9	192.3	201.0	210.0	219.0
Total Industrial Value of Shipments	5066.7	5105.1	5334.8	5498.9	5550.9	5683.4	5853.9	6035.9	6164.7	6293.0	6425.3	6548.9	6722.0

Table 23. Industrial Sector Macroeconomic Indicators

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Gross Domestic Product (billion 2000 dollars)	15216.2	15658.4	16147.7	16648.5	17137.8	17634.2	18135.2	18660.5	19202.6	19745.1	20292.4	3.1%
Nonfarm Employment (millions)	148.8	151.0	153.4	155.7	157.7	159.7	161.6	163.6	165.5	167.4	169.1	1.2%
Value of Shipments (billion 1996 dollars)												
Nonmanufacturing Sector												
Agricultural	318.3	322.1	326.5	331.2	335.0	338.6	341.6	345.8	350.0	354.0	358.0	1.1%
Mining	182.0	182.0	185.4	188.1	188.6	188.7	187.9	187.1	187.3	189.3	190.2	0.7%
Construction	958.1	966.9	984.7	1005.0	1032.1	1060.0	1086.1	1110.7	1137.0	1161.9	1187.4	1.8%
Manufacturing Sector												
Food and Kindred Products	539.7	550.0	560.5	569.7	577.8	586.0	594.5	604.1	614.4	624.8	635.4	1.8%
Beverages and Tobacco Products	91.8	92.0	92.6	93.1	93.5	93.9	94.4	94.8	95.1	95.3	95.5	0.8%
Textile Mill Products	77.4	76.2	75.8	75.4	74.9	74.4	74.0	73.4	72.9	72.5	71.9	-0.5%
Apparel and Other Textile Products	37.4	36.5	35.6	34.7	33.9	33.1	32.4	31.6	31.0	30.3	29.7	-2.6%
Lumber and Wood Products	88.7	88.9	89.2	89.5	89.6	89.8	90.3	90.5	90.8	91.3	91.6	0.3%
Furniture and Fixtures	85.4	84.7	86.3	88.1	90.7	92.5	94.4	95.6	97.1	98.6	99.8	1.8%
Paper and Allied Products	180.1	180.8	183.6	186.6	190.1	193.0	195.8	198.1	200.5	202.6	204.2	1.5%
Printing and Publishing	94.7	95.2	96.2	97.2	98.4	99.5	100.5	101.4	102.3	103.2	104.1	1.2%
Chemical and Allied Products	542.1	549.5	561.5	575.2	590.0	604.0	617.4	631.5	646.5	660.8	674.9	2.4%
Bulk Chemicals	215.3	215.4	217.5	219.0	220.4	221.1	222.2	223.0	224.0	224.8	225.4	1.0%
Inorganic	29.6	29.4	29.3	29.2	29.0	28.9	28.8	28.8	28.8	28.7	28.7	-0.1%
Organic	87.3	87.5	88.2	88.6	89.2	89.5	89.8	90.1	90.4	90.6	90.9	1.1%
Resins	77.4	77.5	78.9	80.1	81.0	81.7	82.4	83.0	83.7	84.3	84.6	1.5%
Agricultural Chemicals	21.1	21.1	21.1	21.1	21.1	21.0	21.1	21.1	21.1	21.2	21.3	0.6%
Other Chemical and Allied Products	326.7	334.1	344.0	356.2	369.6	382.9	395.3	408.6	422.5	436.0	449.5	3.3%
Petroleum and Coal Products	234.9	238.8	243.7	247.1	249.3	251.7	252.9	253.8	255.3	259.5	263.2	1.7%
Petroleum Refining	215.3	219.0	223.4	226.4	228.5	230.7	231.6	232.3	233.2	237.0	240.7	1.7%
Other Petroleum and Coal Products	19.5	19.8	20.3	20.6	20.8	21.0	21.3	21.5	22.1	22.5	22.6	2.0%
Rubber and Miscellaneous Plastic Products	245.9	248.4	254.1	259.9	266.0	271.8	276.8	282.5	288.2	293.3	297.9	2.4%
Leather and Leather Products	7.4	7.2	7.1	7.0	6.9	6.9	6.8	6.7	6.6	6.5	6.4	-2.1%
Stone, Clay, and Glass Products	103.8	104.9	107.2	109.5	111.1	112.3	113.3	114.1	115.1	115.9	116.4	1.9%
Glass and Glass Products	28.9	29.2	29.8	30.4	30.9	31.3	31.7	32.1	32.7	33.3	34.0	2.0%
Cement and Hydraulic Products	9.0	9.1	9.3	9.4	9.5	9.5	9.6	9.7	9.8	9.9	10.0	1.7%
Other Stone, Clay, and Glass Products	65.9	66.6	68.2	69.8	70.7	71.4	71.9	72.3	72.6	72.6	72.4	1.9%
Primary Metals Industry	177.7	178.2	180.6	184.0	185.5	186.0	184.5	184.9	185.1	184.7	184.1	1.0%
Blast Furnace and Basic Steel Products	79.1	79.3	80.1	81.1	81.6	82.3	82.0	82.5	82.9	83.2	83.4	1.1%
Aluminum	30.1	30.0	30.3	30.8	30.8	30.5	29.8	29.6	29.4	29.0	28.6	0.0%
Other Primary Metal Products	68.4	68.8	70.2	72.2	73.0	73.2	72.8	72.8	72.8	72.5	72.2	1.4%
Fabricated Metal Products	298.3	301.1	306.7	313.9	321.1	326.8	332.5	338.8	345.8	351.9	358.1	2.0%
Industrial Machinery and Equipment	322.6	322.5	327.9	339.2	351.7	358.9	364.9	374.1	388.5	403.1	419.3	2.6%
Electronic and Other Electric Equipment	1013.2	1035.1	1078.9	1133.0	1184.1	1230.7	1272.1	1318.9	1369.1	1418.4	1463.8	5.0%
Transportation Equipment	868.2	891.2	916.2	942.1	965.8	991.0	1016.3	1039.4	1063.9	1088.6	1111.3	2.7%
Instruments and Related Products	154.1	157.2	162.3	168.4	172.9	177.6	181.4	185.3	189.0	192.8	196.9	2.8%
Miscellaneous Manufacturing Industries	228.3	235.2	242.7	250.1	258.2	266.4	274.2	282.2	290.7	299.3	308.8	3.8%
Total Industrial Value of Shipments	6850.0	6944.6	7105.2	7288.1	7467.6	7633.3	7785.1	7945.1	8122.2	8298.7	8468.8	2.3%

Table 23. Industrial Sector Macroeconomic Indicators

Note: Totals may not equal sum of components due to independent rounding.

Source: 2003: Global Insight macroeconomic model T250804. Projections: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 24. Refining Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	163.66	165.55	175.34	176.83	183.92	187.28	191.98	195.71	198.20	201.18	204.28	207.38	212.01
Energy Consumption (trillion Btu)													
Residual Oil	30.3	20.4	20.6	21.0	42.4	48.3	53.9	73.8	89.0	92.0	99.2	107.9	138.2
Distillate Oil	4.9	5.5	5.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas	12.4	22.1	22.2	22.6	24.9	27.4	30.1	33.2	36.5	40.1	44.1	48.5	53.4
Petroleum Coke	531.6	541.2	546.0	555.7	544.7	543.3	562.8	573.1	577.2	583.3	602.1	624.2	653.1
Still Gas	1399.4	1477.3	1490.4	1516.9	1740.3	1817.9	1886.1	1898.1	1768.2	1644.1	1590.1	1544.7	1523.7
Other Petroleum 2/ Petroleum Subtotal	30.2	33.8	34.1	34.7	77.2	81.3	70.3	91.9	97.9	121.0	120.2	123.9	137.1
Natural Gas	2008.7	2100.4	2118.9	2156.6	2429.5	2518.1	2603.3	2670.0	2568.9	2480.5	2455.7	2449.3	2505.4
Steam Coal 3/ Purchased Electricity	807.8	768.5	784.5	797.6	936.8	919.1	891.7	862.8	1004.9	1127.8	1182.9	1226.2	1221.0
Total	63.4	85.7	106.0	106.8	88.0	87.8	87.6	87.6	87.4	87.2	87.2	86.9	86.7
Total	122.3	121.3	123.6	125.8	158.1	180.3	184.1	184.0	184.7	188.4	189.6	191.5	200.2
Total	3002.2	3075.9	3133.1	3186.7	3612.5	3705.4	3766.7	3804.4	3845.9	3883.8	3915.3	3954.0	4013.3
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.18	0.12	0.12	0.12	0.23	0.26	0.28	0.38	0.45	0.46	0.49	0.52	0.65
Distillate Oil	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas	0.08	0.13	0.13	0.13	0.14	0.15	0.16	0.17	0.18	0.20	0.22	0.23	0.25
Petroleum Coke	3.25	3.27	3.11	3.14	2.96	2.90	2.93	2.93	2.91	2.90	2.95	3.01	3.08
Still Gas	8.55	8.92	8.50	8.58	9.46	9.71	9.82	9.70	8.92	8.17	7.78	7.45	7.19
Other Petroleum 2/ Petroleum Subtotal	0.18	0.20	0.19	0.20	0.42	0.43	0.37	0.47	0.49	0.60	0.59	0.60	0.65
Natural Gas	12.27	12.69	12.08	12.20	13.21	13.45	13.56	13.64	12.96	12.33	12.02	11.81	11.82
Steam Coal 3/ Purchased Electricity	4.94	4.64	4.47	4.51	5.09	4.91	4.64	4.41	5.07	5.61	5.79	5.91	5.76
Total	0.39	0.52	0.60	0.60	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41
Total	0.75	0.73	0.70	0.71	0.86	0.96	0.96	0.94	0.93	0.94	0.93	0.92	0.94
Total	18.34	18.58	17.87	18.02	19.64	19.79	19.62	19.44	19.40	19.31	19.17	19.07	18.93
Carbon Dioxide Emissions 4/ (million metric tons)	194.1	199.8	203.8	207.3	237.2	246.4	250.8	253.7	254.9	256.5	257.7	259.7	264.6
Combined Heat and Power													
Generating Capacity (gigawatts)													
Petroleum	0.39	0.08	0.86	0.86	0.89	0.89	0.90	0.91	0.91	0.92	0.88	0.89	0.90
Natural Gas	2.34	2.61	3.22	3.22	3.23	3.23	3.30	3.36	3.42	3.48	3.54	3.60	3.66
Coal	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other 5/ Total	0.94	0.89	0.89	0.89	0.62	0.62	0.63	0.64	0.65	0.67	0.68	0.69	0.70
Total	3.70	3.58	4.97	4.97	4.74	4.74	4.82	4.90	4.98	5.07	5.10	5.18	5.26
Net Generation (billion kilowatthours)													
Petroleum	1.28	1.28	1.89	1.89	3.10	3.04	3.71	4.29	4.62	4.68	4.75	4.85	4.95
Natural Gas	16.26	16.26	17.28	17.28	21.23	21.22	21.78	22.33	22.85	23.34	23.83	24.32	24.82
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other 5/ Total	5.93	5.89	5.93	5.93	4.12	4.12	4.21	4.31	4.40	4.50	4.59	4.69	4.78
Total	23.47	23.43	25.10	25.10	28.44	28.37	29.69	30.92	31.87	32.51	33.17	33.86	34.55
Disposition													
Sales to the Grid	6.09	6.05	6.57	6.57	10.50	10.43	11.33	12.14	12.69	12.93	13.17	13.42	13.68
Generation for Own Use	17.38	17.38	18.54	18.54	17.95	17.95	18.36	18.77	19.18	19.58	20.00	20.44	20.87
Energy Input (trillion Btu)													
Petroleum	37	37	37	37	59	58	65	71	75	76	78	80	82
Natural Gas	330	330	523	523	488	487	502	518	533	547	562	576	591
Coal	0	0	0	0	0	0	0	0	0	0	0	0	0
Other 5/ Total	156	156	156	156	95	95	98	100	103	106	109	112	115
Total	523	523	716	716	642	639	665	689	711	730	749	768	787
Energy Consumed at Ethanol Plants (trillion Btu)													

Table 24. Refining Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Natural Gas	31.0	41.6	51.2	51.2	67.2	66.9	66.7	66.6	68.8	68.5	68.5	70.0	71.9
Coal	62.7	84.8	105.1	105.8	88.0	87.8	87.6	87.6	87.4	87.2	87.2	86.9	86.7
Electricity	3.8	5.2	6.5	6.6	9.5	9.5	9.5	9.5	9.7	9.7	9.7	9.9	10.1
Total	97.5	131.6	162.8	163.6	164.7	164.2	163.7	163.7	165.9	165.4	165.4	166.9	168.7

Table 24. Refining Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	215.33	219.03	223.36	226.43	228.52	230.73	231.63	232.30	233.22	237.00	240.68	1.7%
Energy Consumption (trillion Btu)												
Residual Oil	125.7	104.2	103.7	116.8	120.3	118.5	103.0	102.8	104.3	109.8	115.4	8.2%
Distillate Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas	58.7	64.6	71.1	78.2	86.0	94.6	104.0	114.4	125.9	138.5	152.3	9.2%
Petroleum Coke	681.5	718.2	737.6	761.4	777.1	806.4	835.2	848.0	860.6	876.6	883.3	2.3%
Still Gas	1567.7	1592.7	1615.1	1623.5	1632.7	1648.3	1658.7	1654.3	1652.6	1656.5	1675.0	0.6%
Other Petroleum 2/	139.9	155.4	152.6	165.2	174.1	177.9	173.3	169.1	167.9	174.4	172.4	7.7%
Petroleum Subtotal	2573.6	2635.1	2680.0	2745.1	2790.3	2845.7	2874.4	2888.7	2911.4	2955.8	2998.5	1.6%
Natural Gas	1193.0	1226.2	1252.3	1232.1	1208.9	1185.0	1186.2	1175.6	1151.5	1136.8	1128.2	1.8%
Steam Coal 3/	86.7	86.5	86.3	86.3	86.1	85.9	85.9	85.9	85.9	85.9	85.9	0.0%
Purchased Electricity	200.1	205.2	209.4	212.0	211.4	209.4	206.3	201.3	195.5	196.5	198.0	2.3%
Total	4053.4	4153.1	4228.0	4275.4	4296.6	4326.0	4352.8	4351.5	4344.2	4375.0	4410.5	1.7%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Residual Oil	0.58	0.48	0.46	0.52	0.53	0.51	0.44	0.44	0.45	0.46	0.48	6.4%
Distillate Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas	0.27	0.29	0.32	0.35	0.38	0.41	0.45	0.49	0.54	0.58	0.63	7.3%
Petroleum Coke	3.16	3.28	3.30	3.36	3.40	3.49	3.61	3.65	3.69	3.70	3.67	0.5%
Still Gas	7.28	7.27	7.23	7.17	7.14	7.14	7.16	7.12	7.09	6.99	6.96	-1.1%
Other Petroleum 2/	0.65	0.71	0.68	0.73	0.76	0.77	0.75	0.73	0.72	0.74	0.72	5.9%
Petroleum Subtotal	11.95	12.03	12.00	12.12	12.21	12.33	12.41	12.44	12.48	12.47	12.46	-0.1%
Natural Gas	5.54	5.60	5.61	5.44	5.29	5.14	5.12	5.06	4.94	4.80	4.69	0.0%
Steam Coal	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	-1.7%
Purchased Electricity	0.93	0.94	0.94	0.94	0.93	0.91	0.89	0.87	0.84	0.83	0.82	0.5%
Total	18.82	18.96	18.93	18.88	18.80	18.75	18.79	18.73	18.63	18.46	18.33	-0.1%
Carbon Dioxide Emissions 4/ (million metric tons)	266.8	272.6	277.3	280.8	282.2	283.7	284.5	283.8	282.9	285.2	287.8	1.7%
Combined Heat and Power												
Generating Capacity (gigawatts)												
Petroleum	0.90	0.90	0.90	0.97	1.05	1.08	1.13	1.13	1.13	1.11	1.11	13.0%
Natural Gas	3.70	3.73	3.77	3.81	3.86	3.90	3.94	3.98	4.01	4.05	4.08	2.1%
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other 5/	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.77	0.78	-0.6%
Total	5.30	5.35	5.40	5.52	5.64	5.73	5.82	5.87	5.91	5.93	5.97	2.4%
Net Generation (billion kilowatthours)												
Petroleum	5.37	5.80	6.09	6.46	7.03	7.74	8.50	8.54	8.52	8.39	8.36	8.9%
Natural Gas	25.15	25.48	25.79	26.12	26.46	26.83	27.19	27.48	27.76	28.03	28.31	2.6%
Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other 5/	4.84	4.89	4.95	5.01	5.06	5.12	5.17	5.23	5.28	5.34	5.40	-0.4%
Total	35.35	36.17	36.83	37.58	38.56	39.68	40.87	41.25	41.56	41.77	42.07	2.7%
Disposition												
Sales to the Grid	13.95	14.24	14.41	14.75	15.25	16.00	16.67	16.79	16.88	16.94	17.03	4.8%
Generation for Own Use	21.41	21.93	22.41	22.83	23.31	23.68	24.20	24.46	24.68	24.83	25.04	1.7%
Energy Input (trillion Btu)												
Petroleum	86	90	93	96	101	107	112	113	113	114	115	5.3%
Natural Gas	598	606	613	620	627	635	642	649	655	662	668	3.3%
Coal	0	0	0	0	0	0	0	0	0	0	0	N/A
Other 5/	116	117	119	120	121	123	124	125	127	128	129	-0.9%
Total	800	813	825	836	849	865	878	886	895	904	912	2.6%
Energy Consumed at Ethanol Plants (trillion Btu)												

Table 24. Refining Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Natural Gas	71.8	72.4	73.6	74.9	74.6	74.3	74.3	74.3	74.3	74.3	76.6	2.8%
Coal	86.7	86.5	86.3	86.3	86.1	85.9	85.9	85.9	85.9	85.9	85.9	0.1%
Electricity	10.1	10.2	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.8	3.3%
Total	168.7	169.1	170.3	171.8	171.2	170.7	170.7	170.7	170.7	170.7	173.2	1.3%

Table 24. Refining Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power and consumption at ethanol plants.

2/ Includes lubricants and miscellaneous petroleum products.

3/ Where coal-to-liquids (CTL) technology is adopted in the forecast, the plants are assumed to produce oil products and to generate electricity. A portion of the coal use is attributed to feedstock use to produce the liquids. The feedstock portion is assumed to be equal to the Btu content of the liquids produced. The rest of the coal used in CTL plants is accounted for in industrial steam coal consumption, a portion of which is reflected in energy used for end-use sector combined heat and power.

4/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

5/ May include wood and other biomass, waste heat, municipal solid waste, and renewable sources.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). 2002 and 2003 coal and natural gas consumption at ethanol plants: Carbon Dioxide Emissions from the Production and Combustion of Fuel Ethanol from Corn," Marland, G. and A.F. Turhollow, 1991. 2002 and 2003 electricity consumption at ethanol plants: U.S. Department of Agriculture, 1998 Ethanol Cost-of-Production Survey, Agricultural Economic Report Number 808. Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 25. Food Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	439.58	430.78	435.46	449.62	457.47	465.40	480.44	491.85	500.57	508.82	515.73	522.89	530.66
Energy Consumption (trillion Btu)													
Residual Oil	11.0	13.8	15.1	14.8	13.8	13.7	13.4	13.6	13.6	13.6	13.7	13.9	14.3
Distillate Oil	14.2	17.2	18.5	18.4	17.4	17.3	16.9	17.1	17.0	17.0	17.2	17.5	18.0
Liquefied Petroleum Gas	5.0	5.0	4.8	5.0	5.4	5.4	5.4	5.6	5.6	5.6	5.7	5.8	6.0
Other Petroleum 2/ Petroleum Subtotal	0.0 30.2	0.0 35.9	0.0 38.3	0.0 38.3	0.0 36.7	0.0 36.4	0.0 35.8	0.0 36.3	0.0 36.1	0.0 36.2	0.0 36.6	0.0 37.2	0.0 38.2
Natural Gas	559.5	528.6	528.1	541.2	550.1	558.0	575.3	587.0	596.1	603.8	609.5	615.2	621.3
Steam Coal	159.8	156.6	156.5	156.6	156.5	156.5	156.6	156.7	156.6	156.6	156.5	156.5	156.4
Renewables	125.4	125.4	127.2	131.7	134.5	137.3	142.2	146.0	149.2	152.2	154.8	157.6	160.5
Purchased Electricity	211.9	209.6	210.8	216.5	219.1	221.8	227.6	232.0	235.2	238.2	240.5	242.9	245.4
Total	1086.8	1056.1	1060.9	1084.2	1097.0	1110.0	1137.5	1158.0	1173.2	1187.0	1198.0	1209.3	1221.8
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Distillate Oil	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Other Petroleum 2/ Petroleum Subtotal	0.00 0.07	0.00 0.08	0.00 0.09	0.00 0.09	0.00 0.08	0.00 0.08	0.00 0.07	0.00 0.07	0.00 0.07	0.00 0.07	0.00 0.07	0.00 0.07	0.00 0.07
Natural Gas	1.27	1.23	1.21	1.20	1.20	1.20	1.20	1.19	1.19	1.19	1.18	1.18	1.17
Steam Coal	0.36	0.36	0.36	0.35	0.34	0.34	0.33	0.32	0.31	0.31	0.30	0.30	0.29
Renewables	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Purchased Electricity	0.48	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.46	0.46
Total	2.47	2.45	2.44	2.41	2.40	2.38	2.37	2.35	2.34	2.33	2.32	2.31	2.30
Carbon Dioxide Emissions 3/ (million metric tons)	87.1	85.5	85.4	87.1	87.9	89.0	90.9	92.2	93.1	93.9	94.4	95.1	95.8
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Natural Gas	0.51	0.51	0.55	0.58	0.61	0.64	0.68	0.73	0.78	0.82	0.87	0.93	0.99
Coal	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Other 5/ Total	0.08 1.52	0.08 1.52	0.08 1.55	0.08 1.58	0.08 1.61	0.08 1.64	0.08 1.68	0.08 1.73	0.08 1.78	0.08 1.83	0.08 1.88	0.08 1.93	0.08 1.99
Net Generation (billion kilowatthours)													
Petroleum	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Natural Gas	2.17	1.96	2.21	2.43	2.66	2.90	3.21	3.55	3.91	4.27	4.63	5.03	5.46
Coal	3.66	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52
Other 5/ Total	0.24 6.14	0.24 5.86	0.24 6.11	0.24 6.33	0.24 6.55	0.24 6.80	0.24 7.10	0.24 7.44	0.24 7.81	0.24 8.16	0.24 8.53	0.24 8.92	0.24 9.35
Disposition													
Sales to the Grid	0.32	0.30	0.45	0.58	0.72	0.86	1.05	1.25	1.47	1.68	1.90	2.14	2.39
Generation for Own Use	5.82	5.56	5.66	5.75	5.84	5.94	6.06	6.19	6.34	6.48	6.63	6.79	6.96
Thermal Output (trillion Btu)	99.6	104.2	104.9	105.4	106.0	106.6	107.4	108.3	109.2	110.2	111.1	112.2	113.3
Energy Input (trillion Btu)													
Petroleum	1.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Natural Gas	51.7	51.0	53.2	55.1	57.0	59.1	61.7	64.6	67.7	70.7	73.9	77.3	80.9
Coal	133.5	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
Other 5/ Total	11.7 198.1	12.5 197.3	12.5 199.5	12.5 201.4	12.5 203.3	12.5 205.4	12.5 208.0	12.5 210.9	12.5 214.0	12.5 217.0	12.5 220.2	12.5 223.6	12.5 227.2
Efficiency 6/	0.608	0.629	0.630	0.631	0.631	0.632	0.633	0.634	0.635	0.636	0.637	0.638	0.639
Power-to-Heat Ratio 7/	0.210	0.192	0.199	0.205	0.211	0.218	0.226	0.235	0.244	0.253	0.262	0.271	0.282

Table 25. Food Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	539.73	549.96	560.50	569.71	577.85	585.96	594.55	604.06	614.38	624.79	635.44	1.8%
Energy Consumption (trillion Btu)												
Residual Oil	14.7	14.6	14.8	15.2	15.7	16.0	16.2	16.3	16.3	16.5	16.7	0.9%
Distillate Oil	18.5	18.5	18.7	19.2	19.8	20.3	20.6	20.8	20.9	21.2	21.5	1.0%
Liquefied Petroleum Gas	6.0	6.1	6.2	6.3	6.5	6.6	6.7	6.7	6.8	6.9	7.0	1.5%
Other Petroleum 2/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	39.2	39.1	39.7	40.8	41.9	42.8	43.5	43.8	43.9	44.5	45.1	1.0%
Natural Gas	629.7	642.2	655.5	666.7	676.8	687.3	698.4	711.2	725.1	738.6	752.0	1.6%
Steam Coal	156.4	156.4	156.5	156.5	156.4	156.4	156.4	156.4	156.4	156.4	156.5	0.0%
Renewables	163.8	167.6	171.4	174.9	178.1	181.3	184.6	188.3	192.3	196.3	200.5	2.2%
Purchased Electricity	248.5	251.9	255.4	258.6	260.9	263.5	266.1	269.2	272.6	276.1	279.7	1.3%
Total	1237.6	1257.3	1278.5	1297.4	1314.2	1331.2	1349.0	1368.8	1390.4	1412.0	1433.8	1.4%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Residual Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.9%
Distillate Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.7%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.2%
Other Petroleum 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-0.7%
Natural Gas	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	-0.2%
Steam Coal	0.29	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.25	0.25	0.25	-1.8%
Renewables	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.4%
Purchased Electricity	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	-0.5%
Total	2.29	2.29	2.28	2.28	2.27	2.27	2.27	2.27	2.26	2.26	2.26	-0.4%
Carbon Dioxide Emissions 3/ (million metric tons)	96.6	97.7	99.0	100.2	101.2	102.3	103.5	104.9	106.5	108.1	109.7	1.1%
Combined Heat and Power 4/ Generating Capacity (gigawatts)												
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
Natural Gas	1.05	1.11	1.19	1.27	1.36	1.44	1.53	1.62	1.71	1.81	1.90	6.1%
Coal	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	N/A
Other 5/	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	N/A
Total	2.05	2.12	2.19	2.27	2.36	2.44	2.53	2.62	2.72	2.81	2.91	3.0%
Net Generation (billion kilowatthours)												
Petroleum	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Natural Gas	5.90	6.39	6.94	7.53	8.14	8.78	9.42	10.08	10.74	11.43	12.12	8.6%
Coal	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	N/A
Other 5/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	N/A
Total	9.80	10.29	10.84	11.42	12.04	12.67	13.32	13.97	14.64	15.32	16.01	4.7%
Disposition												
Sales to the Grid	2.66	2.96	3.29	3.64	4.01	4.39	4.78	5.17	5.57	5.98	6.39	14.9%
Generation for Own Use	7.13	7.33	7.55	7.78	8.03	8.29	8.54	8.80	9.07	9.34	9.62	2.5%
Thermal Output (trillion Btu)	114.5	115.8	117.3	118.9	120.6	122.3	124.1	125.8	127.6	129.5	131.3	1.1%
Energy Input (trillion Btu)												
Petroleum	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	N/A
Natural Gas	84.8	89.0	93.7	98.7	104.0	109.4	115.0	120.5	126.2	132.0	137.9	4.6%
Coal	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	N/A
Other 5/	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	N/A
Total	231.0	235.3	240.0	245.0	250.3	255.7	261.3	266.8	272.5	278.3	284.2	1.7%
Efficiency 6/	0.640	0.642	0.643	0.644	0.646	0.647	0.649	0.650	0.652	0.653	0.654	0.2%
Power-to-Heat Ratio 7/	0.292	0.303	0.315	0.328	0.341	0.354	0.366	0.379	0.391	0.404	0.416	3.6%

Table 25. Food Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 26. Paper Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	141.08	147.53	154.36	160.55	162.03	164.03	167.16	169.99	171.46	173.17	174.99	175.99	177.99
Energy Consumption (trillion Btu)													
Residual Oil	125.6	131.6	133.8	131.5	128.4	128.0	126.9	126.7	125.8	124.9	124.2	123.6	123.4
Distillate Oil	8.5	9.0	9.0	9.1	9.1	9.0	8.9	9.0	8.9	8.8	8.8	8.8	8.8
Liquefied Petroleum Gas	5.3	5.2	4.9	5.2	5.6	5.6	5.5	5.6	5.5	5.6	5.6	5.6	5.6
Petroleum Subtotal	139.4	145.8	147.8	145.8	143.0	142.5	141.3	141.2	140.2	139.2	138.6	138.0	137.9
Natural Gas	518.6	475.1	480.6	487.1	488.9	489.7	494.2	497.3	499.3	501.0	502.6	503.0	504.5
Steam Coal	274.0	257.1	256.3	255.4	254.4	253.5	252.6	251.8	250.9	250.1	249.2	248.4	247.6
Renewables	1129.0	1177.7	1224.9	1268.2	1279.1	1293.9	1316.9	1337.9	1349.2	1362.4	1376.7	1385.0	1400.6
Purchased Electricity	202.1	222.0	229.2	234.8	232.9	231.6	232.3	232.8	231.1	230.1	229.3	227.2	226.6
Total	2263.2	2277.7	2338.7	2391.4	2398.3	2411.2	2437.3	2461.0	2470.8	2482.9	2496.4	2501.6	2517.1
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.89	0.89	0.87	0.82	0.79	0.78	0.76	0.75	0.73	0.72	0.71	0.70	0.69
Distillate Oil	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Liquefied Petroleum Gas	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Petroleum Subtotal	0.99	0.99	0.96	0.91	0.88	0.87	0.85	0.83	0.82	0.80	0.79	0.78	0.77
Natural Gas	3.68	3.22	3.11	3.03	3.02	2.99	2.96	2.93	2.91	2.89	2.87	2.86	2.83
Steam Coal	1.94	1.74	1.66	1.59	1.57	1.55	1.51	1.48	1.46	1.44	1.42	1.41	1.39
Renewables	8.00	7.98	7.94	7.90	7.89	7.89	7.88	7.87	7.87	7.87	7.87	7.87	7.87
Purchased Electricity	1.43	1.51	1.48	1.46	1.44	1.41	1.39	1.37	1.35	1.33	1.31	1.29	1.27
Total	16.04	15.44	15.15	14.90	14.80	14.70	14.58	14.48	14.41	14.34	14.27	14.21	14.14
Carbon Dioxide Emissions 2/ (million metric tons)	102.2	103.1	104.3	105.4	104.8	104.6	104.8	104.8	104.2	103.7	103.4	102.7	102.4
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Natural Gas	1.86	1.86	1.96	2.05	2.16	2.26	2.37	2.49	2.61	2.71	2.82	2.92	3.02
Coal	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
Other 5/	4.14	4.14	4.43	4.70	4.76	4.85	5.00	5.13	5.20	5.28	5.37	5.42	5.51
Total	7.51	7.51	7.90	8.27	8.43	8.63	8.89	9.13	9.32	9.51	9.70	9.85	10.05
Net Generation (billion kilowatthours)													
Petroleum	3.15	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14
Natural Gas	9.59	8.71	9.47	10.19	10.97	11.75	12.64	13.55	14.43	15.22	16.01	16.79	17.58
Coal	7.14	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58
Other 5/	29.71	28.56	30.26	31.82	32.21	32.74	33.57	34.32	34.73	35.21	35.72	36.02	36.58
Total	49.59	46.98	49.44	51.72	52.89	54.20	55.92	57.58	58.87	60.14	61.44	62.52	63.87
Disposition													
Sales to the Grid	2.20	2.13	3.61	4.97	5.68	6.46	7.49	8.49	9.26	10.03	10.81	11.45	12.27
Generation for Own Use	47.39	44.85	45.84	46.75	47.21	47.74	48.43	49.09	49.61	50.11	50.63	51.07	51.61
Thermal Output (trillion Btu)	811.2	805.0	832.6	857.9	865.3	875.0	889.4	902.7	910.6	919.5	928.9	935.0	945.1
Energy Input (trillion Btu)													
Petroleum	101.4	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
Natural Gas	255.2	214.4	220.2	225.6	231.4	237.2	243.9	250.7	257.3	263.3	269.2	275.1	281.1
Coal	235.9	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2
Other 5/	1131.9	1121.6	1175.9	1225.7	1238.1	1255.1	1281.6	1305.7	1318.7	1333.9	1350.3	1359.8	1377.7
Total	1724.6	1656.8	1716.9	1772.0	1790.3	1813.2	1846.2	1877.2	1896.8	1918.0	1940.3	1955.7	1979.6
Efficiency 6/	0.568	0.583	0.583	0.584	0.584	0.585	0.585	0.586	0.586	0.586	0.587	0.587	0.588
Power-to-Heat Ratio 7/	0.209	0.199	0.203	0.206	0.209	0.211	0.215	0.218	0.221	0.223	0.226	0.228	0.231

Table 26. Paper Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	180.05	180.79	183.56	186.64	190.10	192.97	195.81	198.11	200.54	202.57	204.22	1.5%
Energy Consumption (trillion Btu)												
Residual Oil	123.5	122.7	122.7	123.0	123.5	123.5	123.4	123.0	122.4	122.2	121.9	-0.3%
Distillate Oil	8.9	8.8	8.8	8.9	8.9	9.0	9.0	9.0	9.1	9.1	9.1	0.0%
Liquefied Petroleum Gas	5.6	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.8	5.9	5.9	0.6%
Petroleum Subtotal	138.0	137.1	137.1	137.6	138.1	138.3	138.3	137.9	137.3	137.1	136.9	-0.3%
Natural Gas	507.7	512.1	519.4	526.9	535.2	543.4	552.0	560.4	569.4	577.5	584.6	0.9%
Steam Coal	247.0	246.5	246.3	246.0	245.8	245.5	245.2	244.9	244.7	244.4	244.1	-0.2%
Renewables	1416.8	1423.7	1445.3	1469.2	1495.9	1518.5	1541.1	1560.0	1579.8	1597.1	1611.6	1.4%
Purchased Electricity	226.0	223.4	223.8	224.7	225.8	226.4	226.9	226.7	227.3	227.4	227.1	0.1%
Total	2535.5	2542.9	2571.8	2604.3	2640.8	2672.2	2703.6	2729.9	2758.5	2783.5	2804.2	0.9%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Residual Oil	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.60	-1.8%
Distillate Oil	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	-1.4%
Liquefied Petroleum Gas	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.9%
Petroleum Subtotal	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.68	0.68	0.67	-1.7%
Natural Gas	2.82	2.83	2.83	2.82	2.82	2.82	2.82	2.83	2.84	2.85	2.86	-0.5%
Steam Coal	1.37	1.36	1.34	1.32	1.29	1.27	1.25	1.24	1.22	1.21	1.20	-1.7%
Renewables	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.88	7.88	7.89	-0.1%
Purchased Electricity	1.26	1.24	1.22	1.20	1.19	1.17	1.16	1.14	1.13	1.12	1.11	-1.4%
Total	14.08	14.07	14.01	13.95	13.89	13.85	13.81	13.78	13.76	13.74	13.73	-0.5%
Carbon Dioxide Emissions 2/ (million metric tons)	102.3	101.7	102.1	102.6	103.2	103.8	104.4	104.8	105.5	106.1	106.5	0.1%
Combined Heat and Power 4/												
Generating Capacity (gigawatts)												
Petroleum	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Natural Gas	3.13	3.24	3.36	3.48	3.61	3.75	3.89	4.03	4.18	4.33	4.47	4.1%
Coal	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	N/A
Other 5/	5.61	5.65	5.79	5.94	6.10	6.24	6.38	6.50	6.62	6.72	6.81	2.3%
Total	10.26	10.41	10.66	10.93	11.23	11.50	11.78	12.04	12.31	12.56	12.80	2.5%
Net Generation (billion kilowatthours)												
Petroleum	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	N/A
Natural Gas	18.38	19.21	20.10	21.04	22.03	23.07	24.12	25.19	26.29	27.40	28.51	5.5%
Coal	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	N/A
Other 5/	37.16	37.41	38.19	39.05	40.01	40.83	41.64	42.32	43.03	43.65	44.18	2.0%
Total	65.26	66.33	68.00	69.80	71.76	73.61	75.48	77.23	79.04	80.77	82.40	2.6%
Disposition												
Sales to the Grid	13.09	13.74	14.74	15.82	17.00	18.11	19.23	20.28	21.36	22.40	23.38	11.5%
Generation for Own Use	52.16	52.59	53.26	53.98	54.76	55.50	56.25	56.95	57.67	58.36	59.02	1.3%
Thermal Output (trillion Btu)	955.6	961.1	974.8	989.9	1006.6	1021.2	1035.8	1048.4	1061.6	1073.4	1083.6	1.4%
Energy Input (trillion Btu)												
Petroleum	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	N/A
Natural Gas	287.2	293.4	300.2	307.3	314.9	322.7	330.7	338.9	347.2	355.6	364.0	2.4%
Coal	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	218.2	N/A
Other 5/	1396.3	1404.3	1429.1	1456.5	1487.2	1513.3	1539.3	1560.9	1583.7	1603.5	1620.2	1.7%
Total	2004.3	2018.5	2050.1	2084.6	2122.9	2156.7	2190.8	2220.5	2251.6	2279.9	2305.0	1.5%
Efficiency 6/	0.588	0.588	0.589	0.589	0.590	0.590	0.590	0.591	0.591	0.592	0.592	0.1%
Power-to-Heat Ratio 7/	0.233	0.235	0.238	0.241	0.243	0.246	0.249	0.251	0.254	0.257	0.259	1.2%

Table 26. Paper Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 27. Bulk Chemical Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	185.35	181.01	187.83	193.80	193.89	194.84	200.49	204.68	207.36	210.11	212.30	213.40	215.02
Energy Consumption (trillion Btu)													
Heat and Power													
Residual Oil	31.2	36.3	39.5	38.4	35.7	35.6	35.4	36.3	36.6	36.8	37.1	37.4	38.0
Distillate Oil	1.4	1.7	1.6	1.8	1.7	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4
Liquefied Petroleum Gas	45.0	43.6	39.3	47.2	47.9	46.1	44.2	45.7	45.4	46.5	47.5	48.2	50.4
Petroleum Coke	187.6	212.1	229.4	232.8	222.2	218.3	217.7	221.2	222.6	224.9	227.4	229.0	231.9
Other Petroleum 2/	346.5	391.7	423.7	429.9	410.2	403.1	402.0	408.4	411.0	415.2	419.9	423.0	428.1
Petroleum Subtotal	611.7	685.4	733.5	750.1	717.7	704.8	700.8	713.1	717.0	724.7	733.2	739.0	749.8
Natural Gas	1607.1	1458.7	1474.1	1504.8	1527.5	1541.5	1583.4	1597.1	1617.9	1633.1	1641.5	1643.3	1640.2
Steam Coal	224.9	224.9	225.8	226.0	225.7	225.8	226.4	226.3	226.3	226.1	225.6	224.9	224.1
Purchased Electricity	433.7	437.7	454.7	469.2	464.5	462.5	472.9	480.7	484.7	489.4	492.5	492.4	493.2
Total Heat and Power	2877.4	2806.7	2888.0	2950.2	2935.4	2934.6	2983.5	3017.2	3045.9	3073.3	3092.8	3099.5	3107.4
Feedstock													
Liquefied Petroleum Gas	1674.7	1660.5	1727.7	1787.4	1773.8	1767.5	1808.2	1841.6	1854.8	1875.5	1896.0	1907.5	1929.0
Petrochemical Feedstocks	1323.7	1283.6	1332.3	1375.7	1372.0	1371.6	1407.5	1432.3	1441.8	1454.5	1464.9	1468.1	1478.4
Natural Gas	613.2	592.7	614.7	624.0	617.9	617.7	627.9	633.7	640.5	646.2	649.8	650.4	650.9
Total Feedstocks	3611.5	3536.8	3674.8	3787.1	3763.7	3756.7	3843.6	3907.6	3937.1	3976.1	4010.7	4026.1	4058.2
Total	6488.9	6343.6	6562.8	6737.2	6699.2	6691.4	6827.2	6924.8	6982.9	7049.5	7103.5	7125.6	7165.6
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Heat and Power													
Residual Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Distillate Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Petroleum Coke	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Other Petroleum	1.9	2.2	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Petroleum Subtotal	3.3	3.8	3.9	3.9	3.7	3.6	3.5	3.5	3.5	3.4	3.5	3.5	3.5
Natural Gas	8.7	8.1	7.8	7.8	7.9	7.9	7.9	7.8	7.8	7.8	7.7	7.7	7.6
Steam Coal	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0
Purchased Electricity	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3
Total Heat and Power	15.5	15.5	15.4	15.2	15.1	15.1	14.9	14.7	14.7	14.6	14.6	14.5	14.5
Feedstock													
Liquefied Petroleum Gas	9.0	9.2	9.2	9.2	9.1	9.1	9.0	9.0	8.9	8.9	8.9	8.9	9.0
Petrochemical Feedstocks	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.9
Natural Gas	3.3	3.3	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.0	3.0
Total Feedstocks	19.5	19.5	19.6	19.5	19.4	19.3	19.2	19.1	19.0	18.9	18.9	18.9	18.9
Total	35.0	35.0	34.9	34.8	34.6	34.3	34.1	33.8	33.7	33.6	33.5	33.4	33.3
Carbon Dioxide Emissions 3/ (million metric tons)	340.6	336.9	347.5	356.2	353.5	353.1	359.6	364.3	366.8	369.8	372.0	372.6	373.8
Combined Heat and Power 4/													
Generating Capacity (gigawatts)													
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	6.98	6.98	7.04	7.08	7.17	7.26	7.39	7.52	7.65	7.77	7.89	8.01	8.14
Coal	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Other 5/	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Total	8.04	8.04	8.09	8.14	8.22	8.31	8.44	8.57	8.70	8.82	8.94	9.06	9.19
Net Generation (billion kilowatthours)													
Petroleum	0.10	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Natural Gas	42.02	36.91	37.32	37.68	38.30	39.02	39.97	40.96	41.98	42.90	43.80	44.71	45.64
Coal	3.08	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
Other 5/	4.43	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97
Total	49.63	46.04	46.45	46.81	47.42	48.15	49.10	50.09	51.10	52.02	52.92	53.84	54.77

Table 27. Bulk Chemical Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Disposition													
Sales to the Grid	8.42	7.60	7.81	8.03	8.40	8.83	9.40	9.99	10.61	11.16	11.70	12.25	12.81
Generation for Own Use	41.21	38.44	38.64	38.78	39.03	39.32	39.70	40.09	40.50	40.87	41.23	41.59	41.97
Thermal Output (trillion Btu)	260.4	223.7	224.6	225.2	226.4	227.7	229.6	231.5	233.6	235.4	237.2	239.1	241.0
Energy Input (trillion Btu)													
Petroleum	2.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Natural Gas	552.1	491.2	494.6	497.2	501.8	507.3	514.5	522.1	529.9	536.9	543.8	550.8	558.0
Coal	103.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
Other 5/	97.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
Total	755.3	677.8	681.2	683.9	688.5	693.9	701.1	708.7	716.5	723.5	730.4	737.5	744.7
Efficiency 6/	0.569	0.562	0.562	0.563	0.564	0.565	0.566	0.568	0.569	0.571	0.572	0.573	0.575
Power-to-Heat Ratio 7/	0.650	0.702	0.706	0.709	0.715	0.721	0.730	0.738	0.747	0.754	0.761	0.768	0.776

Table 27. Bulk Chemical Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Consumption (trillion Btu)												
Heat and Power												
Residual Oil	38.3	37.6	37.8	38.4	39.0	39.2	39.3	38.8	38.4	38.2	38.2	0.2%
Distillate Oil	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	-0.5%
Liquefied Petroleum Gas	50.5	49.6	50.8	52.3	53.6	54.0	53.9	53.5	52.8	52.8	53.6	0.9%
Petroleum Coke	232.6	230.5	232.4	235.2	238.0	239.1	239.8	239.1	238.3	238.3	238.8	0.5%
Other Petroleum 2/	429.6	425.6	429.2	434.2	439.4	441.5	442.9	441.5	440.0	440.0	440.9	0.5%
Petroleum Subtotal	752.5	744.7	751.8	761.7	771.5	775.4	777.4	774.4	771.1	770.8	773.0	0.5%
Natural Gas	1633.3	1645.1	1655.6	1658.9	1664.1	1669.9	1679.7	1693.1	1708.7	1719.3	1729.1	0.8%
Steam Coal	223.3	222.8	222.4	221.7	221.1	220.3	219.7	219.2	218.7	218.2	217.5	-0.2%
Purchased Electricity	490.9	487.2	488.8	489.5	489.4	488.2	487.5	486.2	485.6	484.5	483.2	0.4%
Total Heat and Power	3100.0	3099.7	3118.5	3131.8	3146.1	3153.8	3164.4	3173.0	3184.1	3192.8	3202.8	0.6%
Feedstock												
Liquefied Petroleum Gas	1936.6	1937.7	1961.7	1985.0	2007.5	2023.2	2039.6	2050.9	2064.1	2075.8	2086.1	1.0%
Petrochemical Feedstocks	1478.9	1474.5	1486.4	1495.8	1505.5	1510.3	1516.8	1520.8	1526.6	1530.3	1533.1	0.8%
Natural Gas	646.8	646.1	649.4	650.8	652.8	653.0	654.5	655.6	657.1	658.2	660.1	0.5%
Total Feedstocks	4062.4	4058.3	4097.6	4131.6	4165.7	4186.5	4210.9	4227.3	4247.7	4264.2	4279.3	0.9%
Total	7162.4	7158.0	7216.0	7263.4	7311.8	7340.3	7375.3	7400.2	7431.8	7457.0	7482.1	0.8%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Heat and Power												
Residual Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.8%
Distillate Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.4%
Liquefied Petroleum Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.1%
Petroleum Coke	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-0.5%
Other Petroleum	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.5%
Petroleum Subtotal	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	-0.4%
Natural Gas	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7	-0.2%
Steam Coal	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	-1.1%
Purchased Electricity	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	-0.5%
Total Heat and Power	14.4	14.4	14.3	14.3	14.3	14.3	14.2	14.2	14.2	14.2	14.2	-0.4%
Feedstock												
Liquefied Petroleum Gas	9.0	9.0	9.0	9.1	9.1	9.1	9.2	9.2	9.2	9.2	9.3	0.0%
Petrochemical Feedstocks	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	-0.2%
Natural Gas	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	-0.5%
Total Feedstocks	18.9	18.8	18.8	18.9	18.9	18.9	19.0	19.0	19.0	19.0	19.0	-0.1%
Total	33.3	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	-0.2%
Carbon Dioxide Emissions 3/ (million metric tons)	372.7	371.6	374.0	375.7	377.6	378.4	379.8	380.8	382.3	383.3	384.4	0.6%
Combined Heat and Power 4/												
Generating Capacity (gigawatts)												
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Natural Gas	8.26	8.39	8.54	8.68	8.83	8.98	9.13	9.28	9.44	9.60	9.76	1.5%
Coal	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	N/A
Other 5/	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	N/A
Total	9.31	9.45	9.59	9.73	9.88	10.03	10.18	10.33	10.49	10.65	10.81	1.4%
Net Generation (billion kilowatthours)												
Petroleum	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	N/A
Natural Gas	46.57	47.58	48.65	49.72	50.84	51.97	53.09	54.22	55.38	56.54	57.73	2.1%
Coal	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	N/A
Other 5/	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	5.97	N/A
Total	55.70	56.71	57.78	58.85	59.97	61.10	62.22	63.34	64.51	65.67	66.86	1.7%
Disposition												
Sales to the Grid	13.36	13.97	14.61	15.25	15.93	16.60	17.28	17.95	18.65	19.35	20.06	4.5%
Generation for Own Use	42.34	42.74	43.17	43.60	44.05	44.50	44.95	45.39	45.86	46.33	46.80	0.9%

Table 27. Bulk Chemical Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Thermal Output (trillion Btu)	242.9	245.0	247.3	249.6	252.0	254.4	256.9	259.4	261.9	264.5	267.2	0.8%
Energy Input (trillion Btu)												
Petroleum	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	N/A
Natural Gas	565.1	573.0	581.3	589.7	598.5	607.3	616.1	624.9	634.0	643.1	652.4	1.3%
Coal	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	N/A
Other 5/	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	N/A
Total	751.8	759.7	767.9	776.3	785.1	793.9	802.7	811.5	820.7	829.8	839.1	1.0%
Efficiency 6/	0.576	0.577	0.579	0.580	0.582	0.583	0.585	0.586	0.587	0.589	0.590	0.2%
Power-to-Heat Ratio 7/	0.782	0.790	0.797	0.805	0.812	0.819	0.826	0.833	0.840	0.847	0.854	0.9%

Table 27. Bulk Chemical Industry Energy Consumption

- 1/ Fuel consumption includes consumption for combined heat and power.
- 2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.
- 3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity
- 4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators
- 5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources
- 6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input
- 7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860 "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA AEO2005 National Energy Modeling System run aeo2005.d102004a

Table 28. Glass Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	22.28	22.19	22.19	23.06	23.64	23.97	24.46	24.99	25.72	26.65	27.36	27.94	28.50
Energy Consumption (trillion Btu)													
Residual Oil	1.8	1.9	1.8	1.8	1.9	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9
Distillate Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	1.8	1.9	1.8	1.8	1.9	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9
Natural Gas	142.0	138.0	135.9	138.6	140.0	139.7	140.4	141.0	142.7	145.1	146.4	147.1	147.6
Steam Coal	11.2	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Purchased Electricity	38.8	38.9	38.7	40.0	40.6	40.8	41.2	41.7	42.5	43.8	44.6	45.2	45.8
Total	193.7	190.6	188.3	192.2	194.5	194.5	195.5	196.6	199.0	202.7	204.8	206.1	207.2
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07
Distillate Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Subtotal	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07
Natural Gas	6.37	6.22	6.12	6.01	5.92	5.83	5.74	5.64	5.55	5.44	5.35	5.26	5.18
Steam Coal	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
Purchased Electricity	1.74	1.75	1.75	1.74	1.72	1.70	1.68	1.67	1.65	1.64	1.63	1.62	1.61
Total	8.70	8.59	8.48	8.34	8.23	8.11	7.99	7.87	7.74	7.60	7.48	7.38	7.27
Carbon Dioxide Emissions 2/ (million metric tons)	16.1	16.0	15.8	16.2	16.4	16.4	16.5	16.6	16.8	17.1	17.3	17.4	17.6
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Coal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Other 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Net Generation (billion kilowatthours)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Coal	0.31	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Disposition													
Sales to the Grid	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Generation for own use	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Thermal Output (trillion Btu)	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Energy Input (trillion Btu)													
Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.9	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Coal	11.2	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	12.1	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
Efficiency 6/	0.694	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696
Power-to-Heat Ratio 7/	0.163	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159

Table 28. Glass Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	28.85	29.23	29.77	30.38	30.89	31.31	31.70	32.12	32.67	33.33	34.00	2.0%
Energy Consumption (trillion Btu)												
Residual Oil	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	0.0%
Distillate Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	0.0%
Natural Gas	147.8	149.0	150.9	152.9	154.5	155.7	156.9	158.2	160.1	162.2	164.4	0.8%
Steam Coal	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	N/A
Purchased Electricity	46.1	46.4	47.0	47.6	48.2	48.6	48.9	49.3	50.0	50.7	51.5	1.3%
Total	207.8	209.2	211.5	214.2	216.4	218.0	219.6	221.3	223.8	226.7	229.6	0.9%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Residual Oil	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	-1.9%
Distillate Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	-1.9%
Natural Gas	5.12	5.10	5.07	5.03	5.00	4.97	4.95	4.93	4.90	4.87	4.83	-1.1%
Steam Coal	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	-1.9%
Purchased Electricity	1.60	1.59	1.58	1.57	1.56	1.55	1.54	1.54	1.53	1.52	1.52	-0.7%
Total	7.20	7.16	7.10	7.05	7.00	6.96	6.93	6.89	6.85	6.80	6.75	-1.1%
Carbon Dioxide Emissions 2/ (million metric tons)	17.6	17.7	17.8	18.1	18.2	18.4	18.5	18.7	18.9	19.2	19.5	0.9%
Combined Heat and Power 4/ Generating Capacity (gigawatts)												
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Coal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Other 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Total	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	N/A
Net Generation (billion kilowatthours)												
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Coal	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	N/A
Other 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	N/A
Disposition												
Sales to the Grid	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Generation for own use	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	N/A
Thermal Output (trillion Btu)	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	N/A
Energy Input (trillion Btu)												
Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Natural Gas	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	N/A
Coal	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	N/A
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	N/A
Efficiency 6/	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	N/A
Power-to-Heat Ratio 7/	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	N/A

Table 28. Glass Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 29. Cement Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	6.74	6.98	7.42	7.85	8.06	8.27	8.53	8.60	8.64	8.79	8.83	8.89	9.00
Energy Consumption (trillion Btu)													
Residual Oil	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Distillate Oil	1.9	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2
Petroleum Coke	33.5	34.1	35.5	36.9	37.4	37.8	38.6	38.5	38.4	38.7	38.6	38.5	38.7
Other Petroleum 2/ Petroleum Subtotal	22.8 60.6	23.1 61.4	24.1 63.8	25.0 66.2	25.3 67.0	25.6 67.9	26.1 69.0	26.1 69.0	26.0 68.8	26.2 69.2	26.1 69.0	26.1 68.9	26.1 69.1
Natural Gas	24.9	24.8	25.9	26.7	27.1	27.5	28.2	28.2	28.2	28.4	28.4	28.3	28.4
Steam Coal	231.7	237.1	247.6	257.7	261.6	265.5	271.1	271.4	271.1	273.5	273.3	273.3	274.8
Metallurgical Coal Coal Subtotal	7.9 239.6	8.0 245.1	8.3 255.9	8.7 266.3	8.8 270.4	8.9 274.5	9.1 280.2	9.1 280.5	9.1 280.2	9.2 282.7	9.1 282.4	9.1 282.4	9.2 284.0
Purchased Electricity	40.2	41.5	43.6	45.6	46.4	47.1	48.2	48.2	48.1	48.7	48.6	48.6	49.0
Total	365.4	372.9	389.1	404.9	411.0	417.0	425.6	425.9	425.3	429.0	428.4	428.2	430.4
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Residual Oil	0.36	0.31	0.29	0.27	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24
Distillate Oil	0.28	0.29	0.27	0.28	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.24	0.24
Petroleum Coke	4.97	4.89	4.79	4.70	4.63	4.58	4.52	4.48	4.45	4.40	4.37	4.34	4.30
Other Petroleum 2/ Petroleum Subtotal	3.38 8.99	3.32 8.81	3.25 8.60	3.18 8.43	3.14 8.32	3.10 8.21	3.06 8.09	3.04 8.02	3.01 7.96	2.98 7.87	2.96 7.81	2.93 7.75	2.90 7.68
Natural Gas	3.70	3.56	3.49	3.41	3.37	3.33	3.30	3.28	3.26	3.23	3.21	3.18	3.15
Steam Coal	34.36	33.99	33.39	32.82	32.45	32.12	31.77	31.56	31.37	31.12	30.94	30.75	30.53
Metallurgical Coal Coal Subtotal	1.17 35.54	1.15 35.14	1.12 34.51	1.10 33.92	1.09 33.55	1.08 33.20	1.07 32.84	1.06 32.62	1.05 32.42	1.04 32.16	1.04 31.97	1.03 31.78	1.02 31.55
Purchased Electricity	5.96	5.94	5.87	5.81	5.76	5.70	5.64	5.60	5.57	5.54	5.51	5.47	5.44
Total	54.19	53.45	52.47	51.57	50.99	50.45	49.88	49.52	49.20	48.80	48.50	48.18	47.83
Carbon Dioxide Emissions 3/ (million metric tons)	35.1	35.9	37.5	39.0	39.6	40.2	41.0	41.0	40.9	41.3	41.2	41.1	41.3
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Coal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Other 5/ Total	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04
Net Generation (billion kilowatthours)													
Petroleum	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Natural Gas	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Coal	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Other 5/ Total	0.00 0.20	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19
Disposition													
Sales to the Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generation for Own Use	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Thermal Output (trillion Btu)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Energy Input (trillion Btu)													
Petroleum	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Natural Gas	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Coal	4.8	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Other 5/ Total	0.0 8.6	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5
Efficiency 6/ Power-to-Heat Ratio 7/	0.708 0.125	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118	0.716 0.118

Table 29. Cement Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	9.03	9.15	9.27	9.38	9.46	9.54	9.63	9.72	9.82	9.93	10.03	1.7%
Energy Consumption (trillion Btu)												
Residual Oil	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	N/A
Distillate Oil	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	0.6%
Petroleum Coke	38.6	38.8	39.0	39.3	39.5	39.7	40.0	40.1	40.4	40.6	40.9	0.8%
Other Petroleum 2/ Petroleum Subtotal	26.0 68.9	26.1 69.2	26.3 69.6	26.5 70.1	26.6 70.5	26.7 70.8	26.9 71.2	27.0 71.5	27.2 72.0	27.3 72.4	27.5 72.8	0.8%
Natural Gas	28.3	28.6	28.9	29.2	29.3	29.5	29.7	29.9	30.1	30.3	30.5	0.9%
Steam Coal	274.3	275.8	277.5	279.0	279.6	280.4	281.5	282.3	283.5	284.9	286.5	0.9%
Metallurgical Coal	9.1	9.2	9.2	9.2	9.2	9.2	9.3	9.3	9.3	9.3	9.3	0.7%
Coal Subtotal	283.5	284.9	286.7	288.2	288.9	289.6	290.7	291.6	292.8	294.2	295.9	0.9%
Purchased Electricity	48.9	49.2	49.5	49.8	49.9	50.1	50.4	50.6	50.9	51.3	51.7	1.0%
Total	429.6	431.9	434.7	437.3	438.5	440.1	442.0	443.5	445.8	448.2	450.8	0.9%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Residual Oil	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.21	-1.6%
Distillate Oil	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	-1.0%
Petroleum Coke	4.27	4.24	4.21	4.19	4.18	4.16	4.15	4.13	4.11	4.09	4.07	-0.8%
Other Petroleum 2/ Petroleum Subtotal	2.88 7.63	2.85 7.57	2.84 7.52	2.82 7.48	2.81 7.45	2.80 7.42	2.79 7.39	2.78 7.36	2.77 7.33	2.75 7.29	2.74 7.26	-0.9%
Natural Gas	3.14	3.13	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05	3.04	-0.7%
Steam Coal	30.36	30.16	29.95	29.75	29.57	29.40	29.22	29.05	28.87	28.69	28.56	-0.8%
Metallurgical Coal	1.01	1.00	0.99	0.98	0.98	0.97	0.96	0.95	0.95	0.94	0.93	-1.0%
Coal Subtotal	31.37	31.16	30.94	30.73	30.55	30.36	30.18	30.00	29.81	29.63	29.49	-0.8%
Purchased Electricity	5.41	5.37	5.34	5.31	5.28	5.25	5.23	5.20	5.18	5.16	5.15	-0.6%
Total	47.55	47.23	46.92	46.62	46.37	46.13	45.88	45.64	45.39	45.14	44.94	-0.8%
Carbon Dioxide Emissions 3/ (million metric tons)	41.2	41.4	41.6	41.9	42.0	42.1	42.3	42.5	42.8	43.0	43.3	0.9%
Combined Heat and Power 4/												
Generating Capacity (gigawatts)												
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Coal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Other 5/ Total	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	0.00 0.04	N/A
Net Generation (billion kilowatthours)												
Petroleum	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Natural Gas	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	N/A
Other 5/ Total	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	0.00 0.19	N/A
Disposition												
Sales to the Grid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Generation for Own Use	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Thermal Output (trillion Btu)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	N/A
Energy Input (trillion Btu)												
Petroleum	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	N/A
Natural Gas	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	N/A
Coal	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	N/A
Other 5/ Total	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	0.0 8.5	N/A
Efficiency 6/	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	N/A
Power-to-Heat Ratio 7/	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	N/A

Table 29. Cement Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 30. Iron and Steel Industries Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	70.53	65.34	69.70	72.56	72.05	72.99	76.20	78.36	78.57	78.73	78.90	78.46	78.80
Energy Consumption (trillion Btu)													
Distillate Oil	4.4	4.0	4.1	4.2	4.1	4.1	4.2	4.3	4.2	4.1	4.1	4.1	4.0
Residual Oil	21.4	26.2	27.5	25.7	23.5	23.4	22.3	22.1	21.3	20.6	20.1	19.8	19.7
Other Petroleum 2/ Petroleum Subtotal	7.5 33.3	7.3 37.5	7.2 38.7	7.0 36.9	6.8 34.5	6.7 34.2	6.5 33.0	6.4 32.7	6.2 31.7	6.1 30.8	5.9 30.1	5.8 29.6	5.6 29.4
Natural Gas	394.1	364.2	375.1	380.2	373.3	370.0	376.7	378.9	375.1	371.1	366.9	360.5	356.4
Metallurgical Coal	660.2	641.6	623.3	605.6	588.4	571.8	555.7	540.0	524.8	510.0	495.6	481.6	468.0
Net Coke Imports	37.3	31.0	36.0	35.6	31.8	30.7	33.1	34.5	34.5	34.6	34.1	32.9	32.4
Steam Coal	63.7	62.6	62.1	61.1	59.8	58.8	58.1	57.4	56.5	55.7	54.8	53.9	53.1
Coal Subtotal	761.2	735.2	721.4	702.2	680.0	661.3	646.9	631.9	615.8	600.3	584.6	568.4	553.5
Purchased Electricity	143.2	130.7	144.9	154.1	152.1	154.3	162.7	168.7	169.4	170.2	171.2	170.6	172.0
Total	1331.7	1267.7	1280.0	1273.4	1239.9	1219.8	1219.4	1212.2	1192.0	1172.3	1152.8	1129.0	1111.4
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Distillate Oil	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Residual Oil	0.30	0.40	0.39	0.35	0.33	0.32	0.29	0.28	0.27	0.26	0.25	0.25	0.25
Other Petroleum 2/ Petroleum Subtotal	0.11 0.47	0.11 0.57	0.10 0.56	0.10 0.51	0.09 0.48	0.09 0.47	0.09 0.43	0.08 0.42	0.08 0.40	0.08 0.39	0.07 0.38	0.07 0.38	0.07 0.37
Natural Gas	5.59	5.57	5.38	5.24	5.18	5.07	4.94	4.84	4.77	4.71	4.65	4.59	4.52
Metallurgical Coal	9.36	9.82	8.94	8.35	8.17	7.83	7.29	6.89	6.68	6.48	6.28	6.14	5.94
Net Coke Imports	0.53	0.48	0.52	0.49	0.44	0.42	0.43	0.44	0.44	0.44	0.43	0.42	0.41
Steam Coal	0.90	0.96	0.89	0.84	0.83	0.81	0.76	0.73	0.72	0.71	0.70	0.69	0.67
Coal Subtotal	10.79	11.25	10.35	9.68	9.44	9.06	8.49	8.06	7.84	7.62	7.41	7.24	7.02
Purchased Electricity	2.03	2.00	2.08	2.12	2.11	2.11	2.14	2.15	2.16	2.16	2.17	2.17	2.18
Total	18.88	19.40	18.36	17.55	17.21	16.71	16.00	15.47	15.17	14.89	14.61	14.39	14.10
Carbon Dioxide Emissions 3/ (million metric tons)	121.5	115.7	117.5	117.5	114.5	113.1	113.6	113.3	111.5	109.8	108.1	106.0	104.5
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30
Coal	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Other 5/ Total	0.85 1.60	0.85 1.60	0.85 1.60	0.85 1.60	0.85 1.60	0.85 1.61	0.85 1.61	0.85 1.62	0.85 1.63	0.85 1.63	0.85 1.64	0.85 1.64	0.85 1.65
Net Generation (billion kilowatthours)													
Petroleum	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Natural Gas	0.41	0.67	0.69	0.71	0.74	0.77	0.81	0.86	0.91	0.95	0.99	1.03	1.07
Coal	1.52	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Other 5/ Total	3.78 5.73	3.76 6.05	3.76 6.07	3.76 6.09	3.76 6.11	3.76 6.14	3.76 6.19	3.76 6.23	3.76 6.28	3.76 6.32	3.76 6.36	3.76 6.40	3.76 6.44
Disposition													
Sales to the Grid	0.67	0.74	0.75	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.78
Generation for Own Use	5.06	5.30	5.32	5.34	5.36	5.39	5.43	5.47	5.51	5.55	5.59	5.62	5.66
Thermal Output (trillion Btu)	39.5	32.4	32.4	32.4	32.5	32.5	32.6	32.7	32.8	32.9	33.0	33.0	33.1
Energy Input (trillion Btu)													
Petroleum	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Natural Gas	12.5	14.3	14.4	14.6	14.8	15.0	15.3	15.7	16.0	16.3	16.6	16.9	17.3
Coal	19.9	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
Other 5/ Total	87.2 120.0	74.7 110.1	74.7 110.2	74.7 110.3	74.7 110.5	74.7 110.8	74.7 111.1	74.7 111.4	74.7 111.8	74.7 112.1	74.7 112.4	74.7 112.7	74.7 113.0
Efficiency 6/	0.492	0.482	0.482	0.482	0.483	0.483	0.484	0.484	0.485	0.486	0.486	0.487	0.487
Power-to-Heat Ratio 7/	0.494	0.637	0.639	0.640	0.642	0.644	0.647	0.650	0.653	0.656	0.658	0.661	0.664

Table 30. Iron and Steel Industries Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	79.14	79.33	80.07	81.06	81.65	82.32	81.97	82.51	82.93	83.21	83.36	1.1%
Energy Consumption (trillion Btu)												
Distillate Oil	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0%
Residual Oil	19.5	18.7	18.1	18.0	18.0	17.8	17.4	16.9	16.3	15.9	15.6	-2.3%
Other Petroleum 2/	5.5	5.4	5.3	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.3	-2.3%
Petroleum Subtotal	29.0	28.0	27.3	27.1	27.0	26.7	26.2	25.6	24.9	24.4	23.9	-2.0%
Natural Gas	353.1	351.7	351.9	352.4	351.6	351.3	348.0	347.8	347.4	346.4	345.0	-0.2%
Metallurgical Coal	454.8	442.0	429.5	417.4	405.7	394.2	383.1	372.3	361.8	351.6	341.7	-2.8%
Net Coke Imports	31.8	31.1	31.2	31.6	31.5	31.5	30.2	30.2	30.0	29.9	29.6	-0.2%
Steam Coal	52.3	51.5	50.8	50.2	49.5	48.8	48.1	47.5	46.8	46.2	45.6	-1.4%
Coal Subtotal	539.0	524.7	511.6	499.2	486.6	474.5	461.4	449.9	438.7	427.7	416.9	-2.5%
Purchased Electricity	173.5	174.3	176.6	179.8	181.9	184.3	184.0	185.9	187.5	188.8	189.9	1.7%
Total	1094.7	1078.7	1067.4	1058.5	1047.1	1036.9	1019.6	1009.1	998.5	987.3	975.6	-1.2%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Distillate Oil	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-1.1%
Residual Oil	0.25	0.24	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.19	0.19	-3.4%
Other Petroleum 2/	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	-3.4%
Petroleum Subtotal	0.37	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.30	0.29	0.29	-3.1%
Natural Gas	4.46	4.43	4.39	4.35	4.31	4.27	4.25	4.21	4.19	4.16	4.14	-1.3%
Metallurgical Coal	5.75	5.57	5.36	5.15	4.97	4.79	4.67	4.51	4.36	4.23	4.10	-3.9%
Net Coke Imports	0.40	0.39	0.39	0.39	0.39	0.38	0.37	0.37	0.36	0.36	0.35	-1.3%
Steam Coal	0.66	0.65	0.63	0.62	0.61	0.59	0.59	0.58	0.56	0.56	0.55	-2.5%
Coal Subtotal	6.81	6.61	6.39	6.16	5.96	5.76	5.63	5.45	5.29	5.14	5.00	-3.6%
Purchased Electricity	2.19	2.20	2.21	2.22	2.23	2.24	2.24	2.25	2.26	2.27	2.28	0.6%
Total	13.83	13.60	13.33	13.06	12.83	12.59	12.44	12.23	12.04	11.86	11.70	-2.3%
Carbon Dioxide Emissions 3/ (million metric tons)	103.1	101.6	100.7	100.1	99.3	98.5	97.1	96.4	95.8	95.0	94.2	-0.9%
Combined Heat and Power 4/												
Generating Capacity (gigawatts)												
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Natural Gas	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	1.7%
Coal	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	N/A
Other 5/	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	N/A
Total	1.65	1.66	1.66	1.67	1.68	1.68	1.69	1.69	1.70	1.70	1.71	0.3%
Net Generation (billion kilowatthours)												
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Natural Gas	1.11	1.15	1.19	1.24	1.28	1.33	1.36	1.40	1.44	1.48	1.51	3.7%
Coal	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	N/A
Other 5/	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	N/A
Total	6.48	6.52	6.57	6.61	6.66	6.70	6.74	6.78	6.81	6.85	6.88	0.6%
Disposition												
Sales to the Grid	0.79	0.79	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.82	0.83	0.5%
Generation for Own Use	5.69	5.73	5.77	5.81	5.85	5.89	5.93	5.96	5.99	6.03	6.06	0.6%
Thermal Output (trillion Btu)	33.2	33.3	33.4	33.5	33.6	33.6	33.7	33.8	33.9	34.0	34.0	0.2%
Energy Input (trillion Btu)												
Petroleum	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	N/A
Natural Gas	17.6	17.9	18.2	18.6	18.9	19.2	19.5	19.8	20.1	20.4	20.7	1.7%
Coal	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	N/A
Other 5/	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	N/A
Total	113.3	113.7	114.0	114.3	114.7	115.0	115.3	115.6	115.9	116.2	116.4	0.3%
Efficiency 6/	0.488	0.489	0.489	0.490	0.491	0.491	0.492	0.492	0.493	0.494	0.494	0.1%
Power-to-Heat Ratio 7/	0.666	0.669	0.672	0.674	0.677	0.679	0.682	0.684	0.686	0.688	0.690	0.4%

Table 30. Iron and Steel Industries Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 31. Aluminum Industry Energy Consumption

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments (billion 1996 dollars)	28.14	28.83	28.74	28.10	27.88	28.81	29.12	28.79	28.40	28.89	29.24	29.59	30.08
Energy Consumption (trillion Btu)													
Distillate Oil	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Liquefied Petroleum Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Coke	5.3	5.2	5.1	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.4	4.4	4.3
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.9	4.9	4.8	4.7	4.6
Natural Gas	148.6	151.8	149.1	144.4	141.2	141.7	140.4	137.3	134.2	133.5	132.4	131.2	130.2
Steam Coal	29.6	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
Purchased Electricity	215.1	212.6	209.5	205.1	201.5	199.7	197.2	193.8	190.5	188.4	186.2	183.9	181.8
Total	399.0	401.1	395.1	385.9	379.1	377.7	373.8	367.2	360.7	357.8	354.4	350.9	347.7
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)													
Distillate Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Coke	0.19	0.18	0.18	0.18	0.18	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.14
Other Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Subtotal	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.15
Natural Gas	5.28	5.27	5.19	5.14	5.07	4.92	4.82	4.77	4.72	4.62	4.53	4.43	4.33
Steam Coal	1.05	1.08	1.08	1.10	1.11	1.08	1.07	1.08	1.09	1.07	1.06	1.05	1.03
Purchased Electricity	7.64	7.38	7.29	7.30	7.23	6.93	6.77	6.73	6.71	6.52	6.37	6.22	6.04
Total	14.18	13.91	13.75	13.73	13.60	13.11	12.83	12.75	12.70	12.38	12.12	11.86	11.56
Carbon Dioxide Emissions 2/ (million metric tons)	51.9	52.1	50.9	49.7	48.9	48.7	48.1	47.1	46.2	45.6	44.9	44.3	43.8
Combined Heat and Power 4/ Generating Capacity (gigawatts)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Other 5/	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Total	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Net Generation (billion kilowatthours)													
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.22	0.22	0.23
Coal	2.56	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
Other 5/	1.91	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
Total	4.48	5.93	5.93	5.93	5.94	5.94	5.95	5.95	5.96	5.96	5.97	5.98	5.98
Disposition													
Sales to the Grid	1.72	3.03	3.03	3.03	3.03	3.03	3.03	3.04	3.04	3.04	3.04	3.04	3.05
Generation for Own Use	2.76	2.90	2.90	2.90	2.91	2.91	2.91	2.92	2.92	2.92	2.93	2.93	2.94
Thermal Output (trillion Btu)	0.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4
Energy Input (trillion Btu)													
Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.7
Coal	29.6	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
Other 5/	19.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
Total	49.0	66.9	66.9	66.9	67.0	67.0	67.0	67.1	67.2	67.2	67.2	67.3	67.3
Efficiency 6/	0.312	0.351	0.351	0.351	0.351	0.351	0.352	0.352	0.352	0.353	0.353	0.353	0.353
Power-to-Heat Ratio 7/	0.000	6.233	6.224	6.217	6.205	6.189	6.164	6.138	6.111	6.089	6.067	6.046	6.024

Table 31. Aluminum Industry Energy Consumption

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments (billion 1996 dollars)	30.12	30.00	30.28	30.81	30.82	30.53	29.78	29.60	29.36	29.01	28.55	0.0%
Energy Consumption (trillion Btu)												
Distillate Oil	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.0%
Liquefied Petroleum Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Coke	4.2	4.2	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.6	-1.6%
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	4.6	4.5	4.4	4.4	4.3	4.3	4.2	4.1	4.1	4.0	4.0	-1.5%
Natural Gas	128.6	127.6	127.6	128.1	127.4	126.0	123.4	122.4	121.2	119.6	117.7	-1.1%
Steam Coal	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	N/A
Purchased Electricity	179.1	176.2	173.9	171.9	169.3	166.6	163.2	160.7	158.4	156.0	153.5	-1.5%
Total	343.3	339.4	336.9	335.4	332.1	327.9	321.8	318.3	314.7	310.7	306.3	-1.2%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)												
Distillate Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Coke	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	-1.5%
Other Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-1.5%
Natural Gas	4.27	4.25	4.21	4.16	4.13	4.13	4.14	4.14	4.13	4.12	4.12	-1.1%
Steam Coal	1.03	1.03	1.03	1.01	1.01	1.02	1.04	1.05	1.06	1.07	1.09	0.0%
Purchased Electricity	5.94	5.87	5.74	5.58	5.49	5.46	5.48	5.43	5.39	5.38	5.38	-1.4%
Total	11.40	11.31	11.13	10.89	10.78	10.74	10.81	10.75	10.72	10.71	10.73	-1.2%
Carbon Dioxide Emissions 2/ (million metric tons)	43.0	42.3	41.8	41.4	40.9	40.3	39.6	39.2	38.8	38.4	37.9	-1.4%
Combined Heat and Power 4/												
Generating Capacity (gigawatts)												
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	N/A
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	N/A
Other 5/	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	N/A
Total	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.1%
Net Generation (billion kilowatthours)												
Petroleum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas	0.23	0.24	0.25	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.31	2.6%
Coal	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	N/A
Other 5/	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	N/A
Total	5.99	5.99	6.00	6.01	6.01	6.02	6.03	6.04	6.05	6.06	6.06	0.1%
Disposition												
Sales to the Grid	3.05	3.05	3.05	3.05	3.06	3.06	3.06	3.06	3.07	3.07	3.07	0.1%
Generation for Own Use	2.94	2.94	2.95	2.95	2.96	2.96	2.97	2.97	2.98	2.99	2.99	0.1%
Thermal Output (trillion Btu)	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	0.5%
Energy Input (trillion Btu)												
Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Natural Gas	5.7	5.8	5.8	5.9	6.0	6.0	6.1	6.2	6.3	6.3	6.4	0.9%
Coal	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	N/A
Other 5/	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	N/A
Total	67.4	67.4	67.5	67.6	67.6	67.7	67.8	67.8	67.9	68.0	68.1	0.1%
Efficiency 6/	0.354	0.354	0.354	0.355	0.355	0.355	0.356	0.356	0.356	0.357	0.357	0.1%
Power-to-Heat Ratio 7/	6.002	5.976	5.949	5.920	5.890	5.860	5.830	5.800	5.769	5.738	5.708	-0.4%

Table 31. Aluminum Industry Energy Consumption

1/ Fuel consumption includes consumption for combined heat and power.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.

5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.

6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.

7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

**Table 32. Other Industrial Sector Energy Consumption
(Trillion Btu)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Agriculture													
Distillate Oil	459.8	455.0	441.6	445.9	451.4	453.3	459.2	460.5	460.1	461.8	462.3	464.9	469.2
Liquefied Petroleum Gas	204.7	202.1	196.4	198.6	201.3	202.8	206.5	207.9	208.2	209.6	210.4	212.1	214.7
Motor Gasoline	101.2	99.9	97.0	98.0	99.4	100.1	101.9	102.6	102.7	103.4	103.8	104.6	105.9
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum Subtotal	765.7	757.0	735.0	742.5	752.1	756.3	767.6	771.0	771.1	774.7	776.5	781.6	789.9
Natural Gas	221.7	220.7	215.0	217.9	221.4	223.2	227.2	228.8	229.8	231.8	233.2	235.8	239.0
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewables	23.1	23.2	22.7	23.2	23.7	24.0	24.6	24.9	25.2	25.5	25.8	26.3	26.8
Purchased Electricity	176.4	174.5	169.7	171.6	174.1	175.7	179.1	180.6	181.0	182.3	183.3	184.9	187.4
Total	1186.9	1175.4	1142.4	1155.2	1171.3	1179.2	1198.6	1205.3	1207.0	1214.4	1218.8	1228.6	1243.1
Value of Shipments (billion 1996 dollars)	283.33	279.31	272.12	275.66	280.49	284.21	291.52	295.24	296.69	299.95	302.46	306.21	311.77
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	4.19	4.21	4.20	4.19	4.18	4.15	4.11	4.08	4.07	4.05	4.03	4.01	3.99
Carbon Dioxide Emissions 1/ (million metric tons)	98.6	97.9	94.8	95.7	97.1	97.9	99.5	99.9	99.9	100.3	100.6	101.3	102.3
Construction													
Distillate Oil	275.5	279.9	286.0	281.7	271.0	271.6	273.2	275.0	276.8	281.1	284.2	287.4	292.8
Liquefied Petroleum Gas	160.5	161.9	165.7	163.0	156.5	156.7	157.5	158.7	159.8	162.4	164.4	166.3	169.4
Motor Gasoline	76.1	77.3	79.4	78.3	75.5	75.8	76.4	77.2	78.0	79.5	80.7	82.0	83.8
Asphalt and Road Oil	1235.7	1242.9	1265.4	1237.2	1181.9	1176.8	1176.7	1180.0	1182.3	1195.9	1204.6	1213.9	1231.4
Petroleum Subtotal	1747.7	1762.0	1796.5	1760.2	1685.0	1681.0	1683.8	1691.0	1696.9	1718.9	1733.9	1749.6	1777.4
Natural Gas	267.3	271.2	281.1	276.7	266.0	266.7	268.7	271.5	273.7	278.4	281.9	285.6	291.2
Purchased Electricity	110.7	113.1	116.2	114.9	111.0	111.6	112.7	114.1	115.4	117.9	119.9	122.0	124.9
Total	2125.7	2146.2	2193.7	2151.8	2062.0	2059.2	2065.2	2076.6	2086.0	2115.3	2135.8	2157.2	2193.6
Value of Shipments (billion 1996 dollars)	791.44	810.61	839.24	831.71	804.66	811.00	822.08	836.22	849.64	872.67	891.62	911.17	938.20
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.69	2.65	2.61	2.59	2.56	2.54	2.51	2.48	2.46	2.42	2.40	2.37	2.34
Carbon Dioxide Emissions 1/ (million metric tons)	70.6	71.9	73.6	72.5	69.8	70.2	70.7	71.3	71.8	73.0	73.9	74.8	76.3
Mining													
Residual Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Distillate Oil	309.3	301.5	307.4	316.9	320.6	324.1	325.3	327.0	324.8	323.6	322.5	320.6	320.2
Motor Gasoline	23.8	23.6	24.0	24.5	24.8	25.0	25.2	25.5	25.3	25.3	25.3	25.1	25.0
Other Petroleum	40.8	40.6	41.1	41.8	42.1	42.4	42.8	43.4	42.9	43.0	43.0	42.4	42.2
Petroleum Subtotal	374.0	365.7	372.5	383.2	387.5	391.5	393.4	396.0	393.0	392.0	390.9	388.2	387.4
Natural Gas	753.4	734.4	767.0	785.4	797.9	806.2	813.8	824.0	819.5	822.1	823.3	818.7	818.0
Lease and Plant Fuel	1144.59	1151.43	1148.91	1163.03	1153.08	1162.57	1181.40	1204.08	1202.99	1230.10	1245.37	1243.30	1249.34
Steam Coal	30.7	29.9	31.0	32.5	33.4	34.0	34.2	34.6	34.6	34.6	34.7	34.7	34.9
Renewables	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.6	1.5	1.5
Purchased Electricity	222.1	218.5	223.6	230.8	234.7	237.7	239.7	242.3	241.0	241.2	241.3	240.1	240.0
Total	2526.3	2501.4	2544.5	2596.3	2608.1	2633.5	2664.0	2702.6	2692.7	2721.5	2737.0	2726.6	2731.2
Value of Shipments (billion 1996 dollars)	165.49	164.05	167.49	172.76	175.58	178.22	180.85	183.86	182.75	183.79	184.53	183.55	183.66
Energy Consumption per Unit of Output													

**Table 32. Other Industrial Sector Energy Consumption
(Trillion Btu)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
(thousand Btu per 1996 dollar shipments)	15.27	15.25	15.19	15.03	14.85	14.78	14.73	14.70	14.73	14.81	14.83	14.85	14.87
Carbon Dioxide Emissions 1/ (million metric tons)	112.0	110.1	112.9	116.0	117.8	119.4	120.2	121.3	120.4	120.3	120.1	119.3	119.1
Metal-Based Durables Consumption													
Residual Oil	4.6	5.9	6.6	6.5	6.2	6.2	6.1	6.3	6.4	6.4	6.6	6.7	7.0
Distillate Oil	20.9	24.0	25.1	26.6	26.1	26.2	25.7	27.0	27.0	26.5	27.2	28.0	29.4
Liquefied Petroleum Gas	13.0	12.7	12.4	13.5	14.8	15.0	15.0	15.6	15.8	16.1	16.4	16.7	17.5
Petroleum Subtotal	38.5	42.6	44.1	46.7	47.1	47.4	46.8	48.9	49.1	49.0	50.2	51.5	53.8
Natural Gas	609.1	583.9	616.0	640.5	651.9	673.2	698.3	726.5	746.2	756.7	768.1	776.6	791.7
Steam Coal	54.1	53.6	53.8	53.9	53.9	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1
Renewables	40.9	42.5	45.5	48.1	49.2	51.2	53.4	56.0	58.0	59.5	61.1	62.7	64.9
Purchased Electricity	613.9	613.3	649.3	679.3	690.1	710.8	734.1	765.0	786.1	800.4	817.0	831.1	853.2
Total	1356.6	1335.9	1408.7	1468.5	1492.1	1536.6	1586.5	1650.4	1693.5	1719.6	1750.6	1776.0	1817.8
Value of Shipments (billion 1996 dollars)	1684.26	1697.69	1821.99	1925.41	1970.57	2051.35	2137.32	2244.69	2322.20	2380.00	2446.36	2507.12	2595.37
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	0.81	0.79	0.77	0.76	0.76	0.75	0.74	0.74	0.73	0.72	0.72	0.71	0.70
Carbon Dioxide Emissions 1/ (million metric tons)	156.9	156.8	164.1	171.1	173.7	179.3	184.8	191.8	196.1	198.7	201.8	204.5	209.0
Other Manufacturing Consumption													
Residual Oil	36.2	45.4	51.1	48.8	45.2	45.3	44.7	45.7	45.6	45.8	46.5	47.5	49.2
Distillate Oil	49.4	58.6	60.1	61.9	59.5	58.7	56.6	57.6	56.4	55.2	56.2	57.6	59.9
Liquefied Petroleum Gas	30.3	30.4	27.6	31.1	35.0	34.2	32.9	33.5	33.2	33.8	34.6	35.5	37.4
Petroleum Subtotal	115.9	134.5	138.8	141.8	139.7	138.2	134.2	136.8	135.2	134.8	137.3	140.6	146.5
Natural Gas	1182.5	1161.1	1196.8	1213.5	1221.6	1241.7	1274.9	1298.1	1316.9	1337.2	1357.8	1376.6	1400.1
Steam Coal	223.7	225.7	226.9	227.3	226.9	227.1	227.6	228.0	228.1	228.4	228.7	229.0	229.5
Renewables	258.0	264.3	276.0	282.7	285.5	291.4	299.4	307.1	313.0	319.9	327.5	335.0	344.2
Purchased Electricity	826.1	839.0	868.0	883.6	886.9	897.7	914.9	931.6	942.7	957.1	973.1	987.8	1007.1
Total	2606.3	2624.6	2706.5	2749.0	2760.7	2796.1	2851.0	2901.7	2935.9	2977.4	3024.5	3068.9	3127.5
Value of Shipments (billion 1996 dollars)	1084.86	1105.21	1152.91	1180.98	1190.66	1213.06	1243.79	1272.93	1294.47	1320.24	1348.73	1376.29	1410.95
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.40	2.37	2.35	2.33	2.32	2.30	2.29	2.28	2.27	2.26	2.24	2.23	2.22
Carbon Dioxide Emissions 1/ (million metric tons)	249.1	253.5	259.5	263.2	264.0	267.7	272.2	276.2	278.3	281.3	284.8	288.2	292.8
Agriculture, Mining, Construction, Metal Based Durables, and Other Manufacturing													
Combined Heat and Power 2/ Generating Capacity (gigawatts)													
Petroleum	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Natural Gas	0.61	0.61	0.66	0.71	0.76	0.81	0.88	0.95	1.04	1.12	1.21	1.31	1.44
Coal	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Other 3/	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Total	1.76	1.76	1.82	1.86	1.91	1.97	2.03	2.11	2.19	2.27	2.36	2.47	2.59
Net Generation (billion kilowatthours)													
Petroleum	0.24	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Natural Gas	1.23	0.99	1.38	1.71	2.06	2.44	2.92	3.47	4.06	4.64	5.29	6.04	6.92
Coal	1.72	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
Other 3/	1.94	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
Total	5.12	5.19	5.57	5.90	6.25	6.63	7.11	7.66	8.25	8.83	9.48	10.24	11.11
Disposition													
Sales to the Grid	1.53	1.61	1.80	1.97	2.15	2.34	2.58	2.85	3.15	3.44	3.77	4.15	4.59
Generation for Own Use	3.59	3.58	3.77	3.93	4.11	4.29	4.53	4.80	5.10	5.39	5.71	6.09	6.52
Thermal Output (trillion Btu)	48.8	47.4	48.7	49.7	50.8	51.9	53.4	55.2	57.0	58.8	60.9	63.2	65.9
Energy Input (trillion Btu)													
Petroleum	4.7	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Natural Gas	19.7	16.6	20.3	23.4	26.7	30.1	34.6	39.7	45.2	50.5	56.6	63.5	71.5
Coal	48.0	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
Other 3/	41.7	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
Total	114.2	117.2	120.9	124.0	127.3	130.7	135.2	140.3	145.8	151.2	157.2	164.1	172.1
Efficiency 4/	0.581	0.555	0.560	0.563	0.567	0.570	0.575	0.579	0.584	0.589	0.593	0.598	0.603
Power-to-Heat Ratio 5/	0.358	0.373	0.391	0.405	0.420	0.435	0.454	0.474	0.494	0.512	0.532	0.553	0.575

**Table 32. Other Industrial Sector Energy Consumption
(Trillion Btu)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Agriculture												
Distillate Oil	475.3	478.7	482.9	487.5	491.1	494.2	497.0	500.9	505.1	508.7	512.2	0.5%
Liquefied Petroleum Gas	217.7	219.4	221.8	224.3	226.3	228.2	229.8	232.0	234.3	236.5	238.6	0.8%
Motor Gasoline	107.4	108.0	109.0	110.2	111.2	112.1	112.8	113.9	115.0	116.1	117.1	0.7%
Other Petroleum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	800.3	806.2	813.6	822.0	828.6	834.4	839.6	846.9	854.4	861.2	867.9	0.6%
Natural Gas	242.5	244.8	247.7	250.8	253.7	256.2	258.7	261.7	264.9	267.6	270.2	0.9%
Steam Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewables	27.3	27.7	28.1	28.5	28.9	29.3	29.7	30.1	30.5	30.9	31.4	1.4%
Purchased Electricity	190.2	191.7	193.4	195.4	197.0	198.4	199.7	201.5	203.4	205.2	207.0	0.8%
Total	1260.3	1270.3	1282.9	1296.8	1308.2	1318.4	1327.6	1340.2	1353.3	1365.0	1376.4	0.7%
Value of Shipments (billion 1996 dollars)	318.32	322.12	326.51	331.23	335.05	338.59	341.62	345.82	349.99	354.01	357.99	1.1%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	3.96	3.94	3.93	3.92	3.90	3.89	3.89	3.88	3.87	3.86	3.84	-0.4%
Carbon Dioxide Emissions 1/ (million metric tons)	103.6	104.2	105.2	106.2	107.1	107.9	108.7	109.8	111.0	112.1	113.1	0.7%
Construction												
Distillate Oil	297.2	298.8	302.7	307.2	313.3	319.5	325.2	330.4	336.0	341.3	346.7	1.0%
Liquefied Petroleum Gas	171.3	171.8	173.7	176.0	179.3	182.7	185.8	188.6	191.7	194.5	197.4	0.9%
Motor Gasoline	85.0	85.4	86.5	87.9	89.9	91.9	93.7	95.5	97.4	99.1	101.0	1.2%
Asphalt and Road Oil	1240.7	1244.0	1261.3	1281.2	1308.6	1337.0	1363.5	1388.6	1415.5	1441.0	1467.2	0.8%
Petroleum Subtotal	1794.3	1800.0	1824.2	1852.3	1891.1	1931.0	1968.2	2003.1	2040.6	2076.0	2112.2	0.8%
Natural Gas	295.3	296.5	300.2	304.5	310.7	317.1	322.9	328.4	334.3	339.6	345.0	1.1%
Purchased Electricity	127.0	127.7	129.6	131.6	134.6	137.6	140.4	143.1	145.9	148.7	151.5	1.3%
Total	2216.5	2224.2	2253.9	2288.5	2336.3	2385.7	2431.6	2474.6	2520.9	2564.3	2608.8	0.9%
Value of Shipments (billion 1996 dollars)	958.07	966.91	984.73	1004.97	1032.10	1060.03	1086.14	1110.72	1136.98	1161.90	1187.42	1.8%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.31	2.30	2.29	2.28	2.26	2.25	2.24	2.23	2.22	2.21	2.20	-0.8%
Carbon Dioxide Emissions 1/ (million metric tons)	77.3	77.6	78.5	79.7	81.3	83.0	84.6	86.1	87.8	89.4	91.0	1.1%
Mining												
Residual Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Distillate Oil	319.9	321.2	325.1	328.6	329.8	331.0	331.4	332.0	334.1	336.9	338.5	0.5%
Motor Gasoline	24.7	24.6	25.0	25.2	25.3	25.2	25.0	24.9	24.8	25.0	25.1	0.3%
Other Petroleum	41.3	40.9	41.6	42.0	41.9	41.6	41.0	40.4	40.0	40.3	40.2	0.0%
Petroleum Subtotal	385.9	386.8	391.7	395.9	397.0	397.8	397.4	397.3	399.0	402.2	403.7	0.5%
Natural Gas	812.1	813.7	827.6	838.0	840.6	840.9	838.6	835.9	836.2	842.1	843.6	0.6%
Lease and Plant Fuel	1229.52	1250.46	1307.51	1331.19	1332.88	1324.57	1316.96	1305.36	1295.80	1303.91	1305.31	0.6%
Steam Coal	35.1	35.4	35.9	36.4	36.7	37.0	37.2	37.4	37.8	38.0	38.3	1.1%
Renewables	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	0.0%
Purchased Electricity	238.6	238.9	242.2	244.8	245.4	245.7	245.3	244.9	245.7	247.8	248.8	0.6%
Total	2702.7	2726.7	2806.4	2847.8	2854.1	2847.5	2837.0	2822.3	2815.9	2835.5	2841.2	0.6%
Value of Shipments (billion 1996 dollars)	181.98	181.95	185.44	188.10	188.60	188.66	187.90	187.09	187.31	189.31	190.16	0.7%
Energy Consumption per Unit of Output												

**Table 32. Other Industrial Sector Energy Consumption
(Trillion Btu)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
(thousand Btu per 1996 dollar shipments)	14.85	14.99	15.13	15.14	15.13	15.09	15.10	15.09	15.03	14.98	14.94	-0.1%
Carbon Dioxide Emissions 1/ (million metric tons)	118.2	118.2	119.9	121.2	121.5	121.7	121.6	121.5	122.0	123.1	123.7	0.5%
Metal-Based Durables Consumption												
Residual Oil	7.2	7.1	7.3	7.6	7.8	8.0	8.2	8.3	8.3	8.5	8.6	1.7%
Distillate Oil	30.4	30.5	31.3	32.7	34.2	35.6	36.4	37.1	38.0	38.8	39.3	2.3%
Liquefied Petroleum Gas	17.8	17.8	18.2	18.9	19.6	20.1	20.5	20.8	21.1	21.5	22.0	2.5%
Petroleum Subtotal	55.3	55.4	56.8	59.2	61.6	63.7	65.1	66.2	67.4	68.8	69.9	2.3%
Natural Gas	801.4	811.6	830.2	852.6	873.0	891.0	907.7	926.5	948.4	968.2	986.6	2.4%
Steam Coal	54.1	54.1	54.1	54.1	54.1	54.1	54.0	54.0	54.0	54.0	53.9	0.0%
Renewables	66.5	67.8	69.9	72.6	75.1	77.4	79.5	81.8	84.3	86.8	89.3	3.4%
Purchased Electricity	867.9	878.6	899.4	926.2	949.4	971.1	990.7	1011.9	1035.9	1059.2	1080.9	2.6%
Total	1845.2	1867.5	1910.4	1964.7	2013.2	2057.1	2096.9	2140.4	2190.0	2237.0	2280.5	2.5%
Value of Shipments (billion 1996 dollars)	2656.43	2707.12	2791.94	2896.53	2995.70	3084.90	3167.20	3256.45	3356.29	3454.86	3549.34	3.4%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	0.69	0.69	0.68	0.68	0.67	0.67	0.66	0.66	0.65	0.65	0.64	-0.9%
Carbon Dioxide Emissions 1/ (million metric tons)	211.5	213.4	218.1	224.0	229.4	234.5	239.4	244.9	251.4	257.5	263.2	2.4%
Other Manufacturing Consumption												
Residual Oil	50.5	49.9	50.7	52.3	54.1	55.2	56.1	56.3	56.2	56.8	57.4	1.1%
Distillate Oil	61.6	61.4	62.2	64.1	66.3	68.4	69.6	70.4	71.4	72.4	72.7	1.0%
Liquefied Petroleum Gas	38.2	37.9	38.7	40.2	41.6	42.6	43.5	44.0	43.7	44.4	45.1	1.8%
Petroleum Subtotal	150.3	149.2	151.6	156.6	162.1	166.2	169.2	170.6	171.3	173.7	175.2	1.2%
Natural Gas	1420.4	1439.0	1468.6	1498.5	1529.6	1560.2	1590.2	1622.4	1658.6	1690.5	1721.5	1.8%
Steam Coal	229.7	229.5	229.7	230.1	230.4	230.6	230.8	231.0	231.2	231.4	231.5	0.1%
Renewables	351.6	356.5	364.4	373.0	381.9	390.4	398.5	406.6	415.4	423.9	432.1	2.3%
Purchased Electricity	1020.9	1026.5	1040.8	1057.4	1072.6	1087.8	1101.5	1115.2	1130.4	1144.5	1157.5	1.5%
Total	3172.9	3200.7	3255.0	3315.6	3376.6	3435.2	3490.2	3545.8	3607.0	3663.9	3717.8	1.6%
Value of Shipments (billion 1996 dollars)	1437.64	1453.62	1482.35	1513.92	1546.44	1576.62	1604.99	1633.64	1664.68	1693.99	1722.15	2.0%
Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments)	2.21	2.20	2.20	2.19	2.18	2.18	2.17	2.17	2.17	2.16	2.16	-0.4%
Carbon Dioxide Emissions 1/ (million metric tons)	295.8	297.0	301.0	305.7	310.5	315.2	319.9	324.8	330.5	335.7	340.5	1.3%
Agriculture, Mining, Construction, Metal Based Durables, and Other Manufacturing												
Combined Heat and Power 2/												
Generating Capacity (gigawatts)												
Petroleum	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	N/A
Natural Gas	1.57	1.72	1.89	2.08	2.29	2.51	2.74	2.98	3.22	3.47	3.74	8.6%
Coal	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	N/A
Other 3/	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	N/A
Total	2.72	2.87	3.05	3.24	3.44	3.67	3.90	4.13	4.37	4.63	4.89	4.7%
Net Generation (billion kilowatthours)												
Petroleum	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	N/A
Natural Gas	7.86	8.94	10.16	11.51	12.98	14.56	16.19	17.85	19.58	21.38	23.23	15.4%
Coal	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	N/A
Other 3/	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	N/A
Total	12.06	13.13	14.35	15.70	17.18	18.75	20.38	22.04	23.77	25.57	27.43	7.9%
Disposition												
Sales to the Grid	5.06	5.60	6.21	6.88	7.62	8.41	9.22	10.05	10.92	11.82	12.75	9.9%
Generation for Own Use	6.99	7.53	8.14	8.82	9.55	10.34	11.15	11.99	12.85	13.75	14.68	6.6%
Thermal Output (trillion Btu)	68.9	72.2	76.0	80.2	84.7	89.5	94.4	99.4	104.6	110.0	115.4	4.1%
Energy Input (trillion Btu)												
Petroleum	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	N/A
Natural Gas	80.2	90.0	101.1	113.3	126.6	140.8	155.3	170.1	185.4	201.3	217.6	12.4%
Coal	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	N/A
Other 3/	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	N/A
Total	180.8	190.6	201.7	213.9	227.3	241.4	255.9	270.7	286.0	301.9	318.2	4.6%
Efficiency 4/	0.609	0.614	0.620	0.625	0.631	0.636	0.641	0.645	0.649	0.653	0.657	0.8%
Power-to-Heat Ratio 5/	0.597	0.620	0.644	0.668	0.692	0.715	0.736	0.756	0.775	0.793	0.811	3.6%

Table 32. Other Industrial Sector Energy Consumption (Trillion Btu)

- 1/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
 - 2/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
 - 3/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
 - 4/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
 - 5/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
- Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report," 2004 (preliminary). Other 2002 and 2003 data based on: EIA, Manufacturing Energy Consumption Survey, 1998. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 33. Transportation Sector Energy Use by Mode and Type (Trillion Btu)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Energy Use by Mode													
Highway													
Light-Duty Vehicles	15582.6	15779.3	16110.2	16406.8	16781.6	17204.2	17628.1	18048.4	18450.0	18810.8	19167.1	19521.4	19879.4
Automobiles	9032.9	8921.0	8890.8	8874.4	8878.6	8915.4	8969.4	9011.3	9029.3	9048.7	9067.9	9087.1	9111.9
Light Trucks	6523.8	6832.6	7193.9	7506.8	7877.5	8263.2	8633.0	9011.2	9394.9	9736.1	10073.2	10408.2	10741.4
Motorcycles	26.0	25.6	25.5	25.5	25.5	25.6	25.8	25.9	25.9	26.0	26.0	26.1	26.1
Commercial Light Trucks 1/	578.0	577.7	599.1	610.1	615.9	626.5	640.1	654.4	665.6	676.0	687.0	697.4	711.0
Buses	243.9	248.9	251.8	253.1	255.0	257.3	259.6	261.9	264.0	265.6	266.9	267.8	268.3
Transit	96.1	98.0	99.2	99.7	100.4	101.4	102.3	103.2	104.0	104.6	105.1	105.5	105.7
Intercity	35.4	36.2	36.6	36.8	37.1	37.4	37.8	38.1	38.4	38.6	38.8	39.0	39.0
School	112.3	114.6	116.0	116.6	117.5	118.5	119.6	120.7	121.6	122.4	123.0	123.4	123.6
Freight Trucks 2/	4387.7	4461.5	4681.1	4871.0	4964.0	5091.6	5268.8	5434.6	5555.9	5676.8	5785.7	5884.9	6010.9
Medium (1000-26000 pounds)	718.6	721.5	747.2	768.4	776.7	792.4	816.2	838.9	856.1	874.5	892.5	909.9	931.7
Large (> 26000 pounds)	3669.1	3740.0	3934.0	4102.6	4187.3	4299.2	4452.6	4595.8	4699.8	4802.3	4893.2	4975.0	5079.1
Non-Highway													
Air 3/	2867.8	2744.5	2844.1	2926.2	3021.9	3130.6	3204.1	3297.2	3425.4	3534.9	3624.1	3695.6	3767.9
General Aviation	177.0	171.0	175.7	179.6	184.1	189.3	192.7	197.2	203.3	208.5	212.7	216.1	219.5
Domestic Air Carriers	1620.4	1561.2	1634.7	1638.9	1656.6	1682.5	1729.7	1773.8	1835.1	1883.5	1923.6	1952.6	1984.2
International Air Carriers	536.1	489.3	516.8	530.5	550.0	572.3	596.0	619.1	642.6	665.4	681.1	692.8	701.2
Freight Carriers	534.3	523.0	516.9	577.2	631.2	686.6	685.7	707.1	744.5	777.6	806.8	834.1	863.0
Water 4/	1160.7	1126.6	1077.4	1089.5	1095.3	1102.4	1113.3	1122.6	1126.6	1132.8	1138.4	1142.6	1149.1
Freight	853.7	818.5	761.6	770.9	773.4	777.1	784.9	791.2	792.0	795.1	797.5	798.2	800.9
Domestic Shipping	264.4	257.6	255.2	263.6	265.3	268.0	275.0	280.5	280.5	282.9	284.6	284.5	286.4
International Shipping	589.3	560.8	506.4	507.3	508.1	509.0	509.8	510.6	511.5	512.2	513.0	513.7	514.5
Recreational Boats	307.0	308.1	315.8	318.6	321.9	325.3	328.4	331.4	334.6	337.7	340.9	344.4	348.2
Rail	580.4	586.9	599.8	614.8	619.2	626.6	635.9	641.8	643.2	649.6	653.0	656.0	660.9
Freight	465.5	469.2	480.1	493.1	495.3	500.3	507.1	510.6	509.6	513.6	514.6	515.2	517.7
Passenger	115.0	117.6	119.7	121.7	123.9	126.3	128.8	131.2	133.6	136.0	138.4	140.8	143.2
Intercity	26.3	27.0	27.5	28.0	28.5	29.1	29.6	30.2	30.7	31.3	31.8	32.4	32.9
Transit	47.1	47.8	48.5	49.3	50.2	51.2	52.2	53.2	54.2	55.1	56.1	57.1	58.1
Commuter	41.6	42.8	43.7	44.4	45.2	46.1	47.0	47.9	48.7	49.6	50.5	51.3	52.2
Lubricants	200.0	199.1	201.0	201.1	202.5	205.0	208.1	211.3	213.6	216.0	218.8	221.8	225.8
Pipeline Fuel Natural Gas	685.0	653.3	656.3	668.7	667.8	668.3	687.5	696.6	699.2	711.7	720.4	722.1	730.3
Military Use													
Aviation	514.7	554.8	621.8	642.2	649.9	651.4	652.5	653.5	653.5	654.0	654.7	655.4	656.4
Residual Fuel Use	19.2	20.8	19.3	20.0	20.2	20.3	20.3	20.3	20.3	20.3	20.4	20.4	20.4
Distillate Fuel Use	102.1	113.3	122.6	126.7	128.2	128.4	128.6	128.8	128.8	128.9	129.0	129.1	129.3
Total	26922.2	27066.6	27784.5	28430.2	29021.6	29712.7	30447.0	31171.6	31846.2	32477.5	33065.5	33614.5	34209.6
Energy Use by Type													
Motor Gasoline	16477.0	16638.0	16961.2	17224.9	17560.1	17958.2	18361.3	18762.3	19137.3	19473.3	19807.1	20138.8	20477.9
Distillate (diesel)	5421.0	5536.0	5816.1	6063.1	6198.9	6367.6	6588.4	6792.0	6947.0	7105.3	7247.5	7377.9	7537.5
Jet Fuel (kerosene & naphtha)	3340.0	3257.0	3423.6	3526.1	3629.6	3739.9	3814.4	3908.5	4036.8	4146.8	4236.7	4308.9	4382.1
Residual Oil	646.0	617.0	551.5	555.1	556.5	558.1	560.6	562.8	563.6	564.9	566.0	566.7	568.0
Aviation Gasoline	42.5	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1
Liquefied Petroleum Gas	20.2	24.1	26.4	35.4	44.1	46.7	50.3	53.7	56.5	59.8	62.1	64.6	67.6
Lubricants	200.0	199.1	201.0	201.1	202.5	205.0	208.1	211.3	213.6	216.0	218.8	221.8	225.8
Petroleum Subtotal	26146.7	26313.5	27022.0	27647.9	28233.8	28917.6	29625.3	30332.8	30997.0	31608.3	32180.3	32720.8	33301.1
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol	0.8	1.1	1.1	1.2	1.2	1.4	1.6	1.7	2.0	2.3	2.5	2.6	2.7
Electricity	75.6	77.4	78.9	80.7	82.4	84.1	85.9	87.7	89.4	91.2	92.9	94.7	96.5
Compressed Natural Gas	14.0	21.3	26.2	31.7	36.3	41.3	46.9	52.7	58.4	63.9	69.1	74.0	78.7
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4
Pipeline Fuel Natural Gas	685.0	653.3	656.3	668.7	667.8	668.3	687.5	696.6	699.2	711.7	720.4	722.1	730.3
Total Consumption	26922.2	27066.6	27784.5	28430.2	29021.6	29712.7	30447.0	31171.6	31846.2	32477.5	33065.5	33614.5	34209.6

Table 33. Transportation Sector Energy Use by Mode and Type (Trillion Btu)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Energy Use by Mode												
Highway												
Light-Duty Vehicles	20236.6	20573.7	20907.7	21227.3	21541.6	21851.7	22179.9	22522.6	22885.1	23286.4	23695.8	1.9%
Automobiles	9142.0	9165.5	9191.3	9214.2	9238.3	9263.1	9298.3	9337.3	9409.5	9493.4	9577.2	0.3%
Light Trucks	11068.4	11381.9	11690.0	11986.7	12276.9	12562.0	12855.0	13158.5	13448.6	13765.8	14091.2	3.3%
Motorcycles	26.2	26.3	26.3	26.4	26.5	26.5	26.6	26.7	27.0	27.2	27.4	0.3%
Commercial Light Trucks 1/	721.3	729.5	741.6	755.0	768.1	780.3	791.8	803.9	817.1	830.6	843.9	1.7%
Buses	268.4	268.3	268.0	267.6	267.3	267.1	266.7	266.5	266.5	266.7	267.1	0.3%
Transit	105.7	105.7	105.6	105.4	105.3	105.2	105.1	105.0	105.0	105.1	105.2	0.3%
Intercity	39.0	39.0	39.0	38.9	38.9	38.9	38.8	38.8	38.8	38.8	38.8	0.3%
School	123.6	123.6	123.5	123.3	123.1	123.1	122.9	122.8	122.8	122.9	123.0	0.3%
Freight Trucks 2/	6105.7	6174.6	6285.4	6400.2	6505.0	6602.8	6686.0	6779.3	6888.3	6995.5	7097.9	2.1%
Medium (1000-26000 pounds)	950.4	966.9	991.0	1015.9	1038.9	1061.2	1083.3	1106.8	1132.6	1157.9	1182.8	2.3%
Large (> 26000 pounds)	5155.3	5207.6	5294.4	5384.3	5466.1	5541.6	5602.7	5672.5	5755.7	5837.5	5915.0	2.1%
Non-Highway												
Air 3/	3832.1	3882.7	3943.2	4006.8	4068.2	4113.3	4149.0	4179.3	4208.4	4236.7	4253.8	2.0%
General Aviation	222.6	225.0	227.9	230.9	233.8	235.9	237.6	239.1	240.5	241.8	242.6	1.6%
Domestic Air Carriers	2012.0	2030.5	2048.6	2061.2	2072.9	2076.3	2077.1	2073.8	2066.1	2059.5	2045.7	1.2%
International Air Carriers	710.0	721.1	732.2	741.8	751.8	761.0	768.5	772.7	775.7	776.8	775.0	2.1%
Freight Carriers	887.5	906.1	934.6	972.8	1009.6	1040.0	1065.8	1093.7	1126.0	1158.6	1190.5	3.8%
Water 4/	1153.3	1158.4	1167.5	1175.2	1180.5	1185.3	1190.1	1195.0	1202.1	1210.3	1216.7	0.4%
Freight	801.5	803.3	809.3	814.0	816.2	818.0	819.2	820.4	823.6	827.7	829.9	0.1%
Domestic Shipping	286.3	287.3	292.5	296.4	297.9	298.9	299.3	299.9	302.3	305.5	306.9	0.8%
International Shipping	515.3	516.0	516.8	517.6	518.3	519.1	519.8	520.6	521.4	522.1	522.9	-0.3%
Recreational Boats	351.8	355.2	358.2	361.3	364.2	367.4	370.9	374.6	378.5	382.7	386.9	1.0%
Rail	665.2	670.8	676.4	681.8	687.7	693.4	698.3	704.4	712.8	720.1	727.2	1.0%
Freight	519.6	522.7	525.8	528.8	532.3	535.5	537.8	541.3	547.1	551.6	555.8	0.8%
Passenger	145.7	148.1	150.5	153.0	155.4	157.9	160.5	163.1	165.7	168.5	171.4	1.7%
Intercity	33.5	34.1	34.6	35.2	35.7	36.3	36.9	37.5	38.1	38.8	39.4	1.7%
Transit	59.0	60.0	61.0	62.0	63.0	64.0	65.1	66.1	67.2	68.3	69.5	1.7%
Commuter	53.1	54.0	54.9	55.8	56.7	57.6	58.5	59.5	60.4	61.4	62.5	1.7%
Lubricants	229.2	232.3	236.6	241.2	245.7	250.0	254.1	258.3	263.0	267.8	272.6	1.4%
Pipeline Fuel Natural Gas	730.5	762.9	808.4	818.7	826.0	823.7	826.9	834.3	833.5	840.5	842.8	1.2%
Military Use												
Aviation	658.3	660.9	663.3	665.5	667.5	669.4	671.2	672.8	674.4	675.9	677.3	0.9%
Residual Fuel Use	20.5	20.5	20.6	20.7	20.8	20.8	20.9	20.9	21.0	21.0	21.1	0.1%
Distillate Fuel Use	129.7	130.2	130.6	131.1	131.5	131.8	132.2	132.5	132.8	133.1	133.4	0.7%
Total	34750.8	35264.8	35849.4	36391.1	36909.8	37389.7	37867.0	38369.7	38905.1	39484.8	40049.5	1.8%
Energy Use by Type												
Motor Gasoline	20811.5	21122.1	21433.8	21733.5	22028.2	22314.9	22619.3	22938.1	23278.1	23657.0	24043.7	1.7%
Distillate (diesel)	7666.2	7771.9	7921.2	8072.5	8212.9	8349.0	8469.8	8602.5	8755.2	8906.2	9050.6	2.3%
Jet Fuel (kerosene & naphtha)	4448.4	4501.5	4564.4	4630.2	4693.7	4740.6	4778.1	4810.0	4840.7	4870.6	4899.1	1.9%
Residual Oil	568.7	569.7	571.9	573.7	574.8	575.8	576.7	577.6	579.0	580.6	581.7	-0.3%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Liquefied Petroleum Gas	69.7	71.8	74.5	76.6	78.2	79.8	81.1	82.8	84.2	85.5	87.2	6.0%
Lubricants	229.2	232.3	236.6	241.2	245.7	250.0	254.1	258.3	263.0	267.8	272.6	1.4%
Petroleum Subtotal	33835.8	34311.4	34844.4	35369.7	35875.7	36352.2	36821.3	37311.4	37842.3	38409.8	38967.0	1.8%
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.2%
Ethanol	2.8	3.1	3.3	3.6	3.5	3.9	3.9	4.0	4.1	4.2	4.4	6.7%
Electricity	98.4	100.3	102.3	104.4	106.5	108.6	110.7	112.9	115.1	117.4	119.8	2.0%
Compressed Natural Gas	82.8	86.4	90.1	93.5	96.7	99.5	102.2	104.7	107.3	109.8	112.3	7.8%
Liquid Hydrogen	0.5	0.7	0.8	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	N/A
Pipeline Fuel Natural Gas	730.5	762.9	808.4	818.7	826.0	823.7	826.9	834.3	833.5	840.5	842.8	1.2%
Total Consumption	34750.8	35264.8	35849.4	36391.1	36909.8	37389.7	37867.0	38369.7	38905.1	39484.8	40049.5	1.8%

Table 33. Transportation Sector Energy Use by Mode and Type (Trillion Btu)

1/ Commercial light trucks from 8,500 to 10,000 pounds.

2/ Does not include commercial bus and military use.

3/ Does not include military jet fuel use.

4/ Does not include military residual oil.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 values derived using: Energy Information Administration (EIA), Short-Term Energy Outlook, September 2004, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep04.pdf>; EIA, Fuel Oil and Kerosene Sales 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2002/foks_2002.html; EIA, State Energy Data Report 2001, DOE/EIA-0214(2001) (Washington, DC, November 2004); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, 21, 22, and 23 and Annual (Oak Ridge, TN, September 2003); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.
Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (Trillion Btu)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Light-Duty Vehicle													
Motor Gasoline	15332.45	15500.36	15790.56	16038.74	16367.84	16753.22	17139.00	17522.71	17884.82	18207.72	18527.12	18844.28	19163.88
Ethanol	0.80	1.06	1.05	1.17	1.20	1.40	1.56	1.75	2.04	2.28	2.46	2.57	2.71
Compressed Natural Gas	11.98	18.53	22.03	25.76	28.36	30.77	33.21	35.65	37.93	40.08	42.18	44.21	46.14
Liquefied Petroleum Gas	10.97	15.10	17.42	26.34	34.98	37.45	40.56	43.48	45.94	48.84	50.75	52.95	55.60
Electricity	1.89	2.43	2.90	3.38	3.67	3.88	4.08	4.32	4.54	4.75	5.02	5.28	5.53
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37
Distillate (diesel)	224.53	241.75	276.15	311.39	345.52	377.51	409.71	440.48	474.68	507.00	539.33	571.77	605.16
Total	15582.63	15779.25	16110.15	16406.78	16781.58	17204.23	17628.14	18048.44	18450.04	18810.79	19167.10	19521.38	19879.39
Commercial Light Trucks Gasoline 1/	578.04	577.66	599.06	610.09	615.94	626.47	640.09	654.45	665.58	676.04	686.97	697.41	710.98
Freight Trucks 2/													
Motor Gasoline	250.05	242.42	246.22	247.79	244.75	243.37	243.86	243.77	242.29	241.81	241.92	242.45	244.62
Distillate (diesel)	4126.35	4207.39	4421.79	4608.17	4702.22	4828.50	5001.63	5163.63	5282.49	5400.17	5505.46	5601.00	5721.73
Compressed Natural Gas	2.01	2.78	4.14	5.92	7.99	10.54	13.64	17.06	20.49	23.83	26.94	29.78	32.51
Liquefied Petroleum Gas	9.27	8.95	8.98	9.08	9.08	9.23	9.70	10.18	10.60	10.99	11.35	11.66	11.99
Total	4387.68	4461.53	4681.13	4870.97	4964.03	5091.63	5268.83	5434.64	5555.86	5676.81	5785.66	5884.88	6010.85
Freight Rail 3/													
Distillate (diesel)	465.45	469.24	480.06	493.13	495.31	500.29	507.13	510.57	509.60	513.60	514.63	515.18	517.70
Total	465.45	469.24	480.06	493.13	495.31	500.29	507.13	510.57	509.60	513.60	514.63	515.18	517.70
Domestic Shipping													
Distillate (diesel)	187.89	184.31	190.14	196.40	197.63	199.70	204.90	208.99	209.00	210.73	211.99	211.90	213.35
Residual Oil	76.51	73.33	65.07	67.21	67.64	68.35	70.13	71.54	71.55	72.14	72.58	72.55	73.05
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	264.40	257.64	255.22	263.61	265.26	268.05	275.03	280.53	280.54	282.87	284.57	284.46	286.40
International Shipping													
Distillate (diesel)	39.01	37.93	39.39	39.46	39.52	39.59	39.65	39.71	39.77	39.83	39.88	39.94	40.00
Residual Oil	550.32	522.89	467.04	467.87	468.62	469.46	470.19	470.94	471.70	472.40	473.09	473.78	474.52
Total	589.33	560.82	506.43	507.32	508.14	509.05	509.84	510.65	511.47	512.23	512.97	513.72	514.52
Air Transportation													
Jet Fuel	2825.34	2702.18	2801.79	2883.91	2979.65	3088.44	3161.96	3255.03	3383.31	3492.78	3581.99	3653.52	3725.75
Aviation Gasoline	42.48	42.35	42.30	42.26	42.23	42.20	42.18	42.16	42.14	42.13	42.12	42.11	42.10
Total	2867.82	2744.53	2844.08	2926.17	3021.88	3130.63	3204.13	3297.18	3425.45	3534.91	3624.10	3695.63	3767.85
Miscellaneous Transportation													
Military Use													
Jet Fuel	514.66	554.82	621.81	642.21	649.92	651.44	652.48	653.52	653.53	654.03	654.71	655.41	656.39
Residual Fuel	19.17	20.78	19.34	19.98	20.22	20.26	20.29	20.32	20.32	20.33	20.35	20.38	20.41
Distillate	102.13	113.31	122.61	126.65	128.16	128.43	128.62	128.81	128.78	128.85	128.97	129.10	129.28
Total	635.96	688.91	763.76	788.84	798.30	800.13	801.39	802.66	802.63	803.22	804.03	804.88	806.08
Bus Transportation													
Transit Bus (motor gasoline)	4.35	4.35	4.42	4.44	4.47	4.51	4.56	4.60	4.63	4.66	4.69	4.70	4.71
Transit Bus (diesel)	91.72	93.67	94.78	95.28	95.97	96.84	97.72	98.58	99.35	99.97	100.46	100.80	100.98
Intercity Bus (diesel)	35.45	36.20	36.63	36.82	37.09	37.43	37.77	38.10	38.40	38.64	38.83	38.96	39.03
School Bus (motor gasoline)	5.09	5.09	5.16	5.19	5.23	5.28	5.33	5.38	5.42	5.45	5.48	5.50	5.51
School Bus (diesel)	107.26	109.54	110.83	111.41	112.22	113.24	114.27	115.28	116.18	116.90	117.48	117.87	118.09
Total	243.87	248.85	251.81	253.14	254.98	257.30	259.64	261.93	263.97	265.62	266.93	267.84	268.32
Rail Transportation													
Intercity Rail (electricity)	10.32	10.50	10.64	10.82	11.02	11.23	11.45	11.67	11.88	12.10	12.31	12.52	12.74
Intercity Rail (diesel)	15.94	16.50	16.90	17.18	17.49	17.83	18.17	18.52	18.86	19.19	19.53	19.86	20.20
Transit Rail (electricity)	47.05	47.84	48.51	49.32	50.22	51.20	52.19	53.18	54.17	55.13	56.10	57.07	58.05

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (Trillion Btu)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Commuter Rail (electricity)	16.37	16.64	16.87	17.16	17.47	17.81	18.15	18.50	18.84	19.18	19.51	19.85	20.19
Commuter Rail (diesel)	25.27	26.16	26.79	27.23	27.72	28.27	28.81	29.35	29.90	30.42	30.96	31.49	32.03
Total	114.95	117.63	119.71	121.71	123.92	126.34	128.78	131.22	133.64	136.02	138.40	140.79	143.21
Recreation Boats	307.01	308.13	315.78	318.60	321.91	325.32	328.42	331.44	334.55	337.66	340.88	344.43	348.23
Lubricants	200.00	199.11	200.95	201.10	202.54	204.96	208.15	211.33	213.59	216.03	218.82	221.82	225.79
Pipeline Fuel Natural Gas	685.03	653.30	656.31	668.72	667.80	668.32	687.46	696.60	699.21	711.68	720.42	722.07	730.31
Total Miscellaneous	2186.83	2215.91	2308.34	2352.11	2369.44	2382.38	2413.84	2435.18	2447.61	2470.23	2489.49	2501.83	2521.94
Total Consumption	26922.18	27066.60	27784.47	28430.18	29021.58	29712.73	30447.03	31171.63	31846.17	32477.49	33065.47	33614.49	34209.64

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (Trillion Btu)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Light-Duty Vehicle												
Motor Gasoline	19481.96	19779.72	20073.01	20352.70	20628.10	20896.28	21182.34	21481.50	21799.88	22156.42	22521.06	1.7%
Ethanol	2.85	3.10	3.34	3.56	3.52	3.87	3.85	3.97	4.14	4.23	4.41	6.7%
Compressed Natural Gas	47.98	49.73	51.42	53.03	54.56	56.03	57.46	58.87	60.23	61.65	63.08	5.7%
Liquefied Petroleum Gas	57.49	59.43	61.88	63.84	65.27	66.64	67.92	69.54	70.76	72.02	73.61	7.5%
Electricity	5.88	6.24	6.61	7.17	7.71	8.24	8.78	9.31	9.81	10.35	10.88	7.1%
Liquid Hydrogen	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A
Distillate (diesel)	639.95	674.79	710.57	745.87	780.97	818.88	857.48	896.96	937.61	978.74	1019.40	6.8%
Total	20236.61	20573.69	20907.67	21227.33	21541.62	21851.71	22179.93	22522.55	22885.13	23286.44	23695.77	1.9%
Commercial Light Trucks Gasoline 1/												
	721.32	729.54	741.61	754.98	768.12	780.27	791.77	803.86	817.10	830.64	843.91	1.7%
Freight Trucks 2/												
Motor Gasoline	246.20	247.45	250.73	254.30	257.57	260.79	264.15	267.97	272.51	277.09	281.67	0.7%
Distillate (diesel)	5812.42	5878.03	5983.46	6092.56	6192.31	6285.34	6363.99	6452.14	6555.35	6656.74	6753.41	2.2%
Compressed Natural Gas	34.83	36.71	38.66	40.51	42.12	43.51	44.70	45.84	47.03	48.16	49.22	14.0%
Liquefied Petroleum Gas	12.23	12.37	12.57	12.78	12.97	13.12	13.20	13.31	13.41	13.49	13.55	1.9%
Total	6105.68	6174.56	6285.43	6400.16	6504.97	6602.76	6686.04	6779.26	6888.31	6995.48	7097.85	2.1%
Freight Rail 3/												
Distillate (diesel)	519.56	522.70	525.81	528.83	532.27	535.53	537.80	541.34	547.08	551.58	555.85	0.8%
Total	519.56	522.70	525.81	528.83	532.27	535.53	537.80	541.34	547.08	551.58	555.85	0.8%
Domestic Shipping												
Distillate (diesel)	213.24	213.98	217.89	220.78	221.89	222.61	222.96	223.34	225.12	227.54	228.60	1.0%
Residual Oil	73.02	73.28	74.62	75.62	76.01	76.26	76.39	76.52	77.14	77.97	78.34	0.3%
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	286.26	287.26	292.51	296.40	297.89	298.87	299.35	299.86	302.25	305.52	306.95	0.8%
International Shipping												
Distillate (diesel)	40.06	40.11	40.17	40.22	40.28	40.34	40.39	40.45	40.50	40.56	40.62	0.3%
Residual Oil	475.23	475.90	476.61	477.35	478.06	478.75	479.43	480.13	480.85	481.59	482.32	-0.4%
Total	515.29	516.01	516.78	517.57	518.34	519.08	519.82	520.57	521.35	522.15	522.94	-0.3%
Air Transportation												
Jet Fuel	3790.05	3840.63	3901.11	3964.69	4026.13	4071.18	4106.94	4137.20	4166.31	4194.66	4211.78	2.0%
Aviation Gasoline	42.10	42.09	42.09	42.08	42.08	42.08	42.08	42.07	42.07	42.07	42.07	0.0%
Total	3832.14	3882.72	3943.20	4006.78	4068.21	4113.26	4149.01	4179.28	4208.38	4236.74	4253.85	2.0%
Miscellaneous Transportation												
Military Use												
Jet Fuel	658.34	660.91	663.28	665.48	667.52	669.41	671.18	672.83	674.41	675.91	677.35	0.9%
Residual Fuel	20.47	20.55	20.62	20.69	20.76	20.82	20.87	20.93	20.98	21.02	21.07	0.1%
Distillate	129.66	130.16	130.63	131.06	131.45	131.82	132.17	132.49	132.80	133.10	133.38	0.7%
Total	808.47	811.62	814.53	817.23	819.73	822.05	824.22	826.25	828.19	830.03	831.80	0.9%
Bus Transportation												
Transit Bus (motor gasoline)	4.72	4.72	4.71	4.71	4.70	4.70	4.69	4.69	4.69	4.70	4.71	0.4%
Transit Bus (diesel)	101.00	100.97	100.87	100.71	100.59	100.53	100.37	100.30	100.29	100.37	100.51	0.3%
Intercity Bus (diesel)	39.04	39.02	38.98	38.92	38.87	38.85	38.79	38.76	38.76	38.79	38.85	0.3%
School Bus (motor gasoline)	5.52	5.52	5.51	5.50	5.50	5.50	5.49	5.49	5.49	5.49	5.50	0.4%
School Bus (diesel)	118.11	118.08	117.96	117.76	117.62	117.56	117.37	117.29	117.27	117.37	117.53	0.3%
Total	268.38	268.31	268.04	267.60	267.28	267.13	266.72	266.54	266.50	266.73	267.10	0.3%
Rail Transportation												
Intercity Rail (electricity)	12.95	13.17	13.39	13.61	13.83	14.05	14.27	14.51	14.74	14.99	15.24	1.7%
Intercity Rail (diesel)	20.55	20.89	21.23	21.58	21.92	22.27	22.63	22.99	23.37	23.76	24.16	1.7%
Transit Rail (electricity)	59.05	60.04	61.03	62.02	63.02	64.02	65.05	66.12	67.20	68.33	69.48	1.7%

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (Trillion Btu)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Commuter Rail (electricity)	20.54	20.88	21.23	21.57	21.92	22.27	22.63	23.00	23.38	23.77	24.17	1.7%
Commuter Rail (diesel)	32.57	33.12	33.66	34.21	34.75	35.30	35.87	36.45	37.05	37.67	38.30	1.7%
Total	145.66	148.10	150.55	152.99	155.44	157.91	160.45	163.07	165.74	168.52	171.36	1.7%
Recreation Boats	351.78	355.16	358.24	361.26	364.22	367.36	370.91	374.55	378.47	382.69	386.86	1.0%
Lubricants	229.19	232.29	236.57	241.25	245.72	250.00	254.08	258.32	263.03	267.82	272.56	1.4%
Pipeline Fuel Natural Gas	730.48	762.87	808.44	818.71	825.99	823.73	826.94	834.28	833.53	840.52	842.75	1.2%
Total Miscellaneous	2533.97	2578.35	2636.36	2659.05	2678.38	2688.19	2703.32	2723.01	2735.46	2756.31	2772.42	1.0%
Total Consumption	34750.84	35264.83	35849.38	36391.09	36909.81	37389.66	37867.04	38369.73	38905.07	39484.85	40049.55	1.8%

Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (Trillion Btu)

1/ Commercial trucks from 8,500 to 10,000 pounds.

2/ Does not include military distillate. Does not include commercial buses.

3/ Does not include passenger rail.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 compressed natural gas volumes: Energy Information Administration (EIA), AEO2005 National Energy Modeling System run supple3.d102004a. Other 2003 values derived using: EIA, Short-Term Energy Outlook, September 2004, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep04.pdf>; EIA, Fuel Oil and Kerosene Sales 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/2002/foks_2002.html; EIA, State Energy Data 2001, DOE/EIA-0214(2001) (Washington, DC, November 2004); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20, 21, 22, and 23 and Annual (Oak Ridge, TN, September 2003); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (Trillion Btu)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	15148.08	15274.23	15519.67	15713.13	15974.08	16247.27	16521.36	16787.88	17030.99	17232.89	17432.95	17632.89	17837.60
TDI Diesel ICE	224.53	241.75	276.15	311.39	345.52	377.51	409.71	440.48	474.68	507.00	539.33	571.77	605.16
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.61	0.50	0.46	0.38	0.37	0.35	0.33	0.31	0.29	0.27	0.25	0.23	0.21
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	213.82	271.89	331.33	388.43	441.84	521.60	601.13	679.97	760.27	837.04	911.93	984.26	1054.31
Ethanol ICE	0.27	0.30	0.33	0.37	0.41	0.44	0.48	0.52	0.56	0.60	0.65	0.69	0.74
Total Alcohol	214.70	272.69	332.12	389.18	442.61	522.39	601.94	680.80	761.13	837.92	912.83	985.18	1055.26
Natural Gas Technology													
Compressed Natural Gas ICE	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26
Compressed Natural Gas Bi-fuel	21.18	26.32	31.45	36.79	40.52	43.98	47.49	51.00	54.28	57.37	60.40	63.31	66.10
Liquefied Petroleum Gas ICE	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12
Liquefied Petroleum Gas Bi-fuel	45.14	59.91	75.50	115.45	129.57	141.97	154.37	166.27	177.11	186.97	196.69	206.12	215.15
Total Natural Gas Technology	66.64	86.56	107.28	152.58	170.44	186.31	202.22	217.64	231.76	244.71	257.47	269.81	281.63
Electric Technology													
Electric Vehicle	1.89	2.43	2.90	3.38	3.67	3.88	4.08	4.32	4.54	4.75	5.02	5.28	5.53
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	2.15	4.46	6.84	9.86
Electric-Gasoline Hybrid	1.86	3.57	6.97	16.11	25.95	47.72	70.58	100.64	131.03	167.30	204.28	242.22	280.83
Total Electricity	3.75	6.00	9.87	19.49	29.62	51.59	74.66	104.96	136.63	174.20	213.76	254.34	296.22
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37
Total Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	15332.45	15500.36	15790.56	16038.74	16367.84	16753.22	17139.00	17522.71	17884.82	18207.72	18527.12	18844.28	19163.88
Distillate (diesel)	224.53	241.75	276.15	311.39	345.52	377.51	409.71	440.48	474.68	507.00	539.33	571.77	605.16
Methanol	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
Ethanol	0.80	1.06	1.05	1.17	1.20	1.40	1.56	1.75	2.04	2.28	2.46	2.57	2.71
Compressed Natural Gas	11.98	18.53	22.03	25.76	28.36	30.77	33.21	35.65	37.93	40.08	42.18	44.21	46.14
Liquefied Petroleum Gas	10.97	15.10	17.42	26.34	34.98	37.45	40.56	43.48	45.94	48.84	50.75	52.95	55.60
Electricity	1.89	2.43	2.90	3.38	3.67	3.88	4.08	4.32	4.54	4.75	5.02	5.28	5.53
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.23	0.30	0.37

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (Trillion Btu)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Light-Duty Consumption by Technology Type												
Conventional Vehicles 1/												
Gasoline ICE Vehicles	18043.17	18233.21	18422.92	18603.65	18784.07	18963.39	19161.82	19375.17	19609.30	19879.81	20160.14	1.3%
TDI Diesel ICE	639.95	674.79	710.57	745.87	780.97	818.88	857.48	896.96	937.61	978.74	1019.40	6.8%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	0.19	0.17	0.15	0.13	0.12	0.13	0.12	0.10	0.09	0.08	0.07	-8.5%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	1121.22	1184.68	1245.61	1303.18	1357.65	1409.02	1459.36	1508.77	1557.01	1606.63	1655.49	8.6%
Ethanol ICE	0.79	0.84	0.89	0.94	0.99	1.05	1.10	1.15	1.21	1.28	1.34	7.0%
Total Alcohol	1122.19	1185.68	1246.65	1304.25	1358.76	1410.20	1460.58	1510.03	1558.32	1607.99	1656.90	8.5%
Natural Gas Technology												
Compressed Natural Gas ICE	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	1.9%
Compressed Natural Gas Bi-fuel	68.75	71.27	73.71	76.03	78.24	80.35	82.41	84.45	86.42	88.47	90.52	5.8%
Liquefied Petroleum Gas ICE	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	-1.0%
Liquefied Petroleum Gas Bi-fuel	223.68	231.80	239.60	246.98	253.94	260.57	267.01	273.35	279.40	286.01	292.57	7.5%
Total Natural Gas Technology	292.80	303.45	313.69	323.39	332.56	341.30	349.81	358.19	366.20	374.87	383.48	7.0%
Electric Technology												
Electric Vehicle	5.88	6.24	6.61	7.17	7.71	8.24	8.78	9.31	9.81	10.35	10.88	7.1%
Electric-Diesel Hybrid	14.37	19.01	24.55	30.15	35.76	43.44	51.18	58.99	67.00	74.99	82.84	N/A
Electric-Gasoline Hybrid	320.22	359.19	397.31	434.52	470.80	504.87	538.48	571.62	604.46	637.53	670.25	26.9%
Total Electricity	340.47	384.44	428.47	471.84	514.27	556.54	598.44	639.92	681.27	722.87	763.97	24.6%
Fuel Cell Technology												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A
Total Fuel Cell	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A
Light-Duty Consumption by Fuel Type 1/												
Motor Gasoline	19481.96	19779.72	20073.01	20352.70	20628.10	20896.28	21182.34	21481.50	21799.88	22156.42	22521.06	1.7%
Distillate (diesel)	639.95	674.79	710.57	745.87	780.97	818.88	857.48	896.96	937.61	978.74	1019.40	6.8%
Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.2%
Ethanol	2.85	3.10	3.34	3.56	3.52	3.87	3.85	3.97	4.14	4.23	4.41	6.7%
Compressed Natural Gas	47.98	49.73	51.42	53.03	54.56	56.03	57.46	58.87	60.23	61.65	63.08	5.7%
Liquefied Petroleum Gas	57.49	59.43	61.88	63.84	65.27	66.64	67.92	69.54	70.76	72.02	73.61	7.5%
Electricity	5.88	6.24	6.61	7.17	7.71	8.24	8.78	9.31	9.81	10.35	10.88	7.1%
Liquid Hydrogen	0.51	0.67	0.83	1.16	1.48	1.78	2.10	2.40	2.70	3.02	3.33	N/A

Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (Trillion Btu)

1/ Includes personal vehicles and fleet vehicles. Includes both cars and trucks.

Btu = British thermal unit.

ICE = Internal combustion engine.

N/A = Not applicable.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 36. Light-Duty Vehicle Sales by Technology Type (Thousands) New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	401.8	403.1	413.7	416.1	413.3	399.6	393.9	391.4	384.9	378.2	378.7	375.5	372.5
TDI Diesel ICE	0.3	0.4	1.0	1.0	0.9	1.1	1.1	1.0	1.2	1.2	1.2	1.2	1.2
Total Conventional	402.1	403.5	414.6	417.1	414.2	400.7	395.0	392.5	386.1	379.4	379.8	376.7	373.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	19.0	19.1	19.7	19.7	19.5	23.5	23.0	22.9	26.7	26.2	26.2	26.0	25.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.5	2.9	3.0	3.7
Electric-Gasoline Hybrid	1.0	2.2	4.3	4.1	4.1	12.7	13.0	17.0	16.7	20.0	19.9	20.3	20.5
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Total Alternatives	23.0	24.2	27.0	26.8	26.6	39.1	38.9	42.6	47.5	50.2	51.7	52.1	52.6
Percent Alternative Car Sales	5.41	5.66	6.11	6.04	6.03	8.90	8.96	9.80	10.95	11.69	11.98	12.14	12.34
Total New Car Sales	425.1	427.7	441.6	443.9	440.8	439.8	433.8	435.1	433.6	429.6	431.5	428.7	426.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	369.7	368.5	357.6	364.6	376.5	372.3	375.7	384.4	387.6	387.8	396.6	401.1	405.6
TDI Diesel ICE	16.7	16.5	33.1	34.4	34.1	33.0	32.5	31.8	35.1	34.6	34.8	35.2	36.3
Total Conventional	386.4	385.0	390.7	399.0	410.6	405.2	408.2	416.1	422.8	422.5	431.4	436.3	441.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	18.1	18.7	18.6	20.0	20.7	37.0	37.4	38.5	38.9	39.1	40.2	40.7	41.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.6	0.5	0.4
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	5.9	6.3	10.8	11.2	14.0	14.4	17.6	18.5	19.4	20.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.6	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	5.4	5.4	5.5	5.7	5.8	6.1	6.1	6.3	6.4	6.4	6.6	6.6	6.7
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.1
Total Alternatives	25.3	25.9	25.9	33.5	35.0	56.0	56.9	61.1	62.2	65.5	68.2	69.4	71.0
Percent Alternative Light Truck Sales	6.15	6.30	6.22	7.75	7.85	12.15	12.23	12.81	12.83	13.43	13.64	13.73	13.84
Total New Truck Sales	411.8	410.8	416.7	432.5	445.6	461.3	465.1	477.2	485.0	488.0	499.6	505.7	512.9
Percent Total Alternative Sales	5.77	5.97	6.17	6.89	6.94	10.56	10.65	11.37	11.94	12.62	12.87	13.00	13.16
EPACT Legislative Alternative Sales	13.67	13.59	13.77	14.10	14.32	14.62	14.59	14.82	14.92	14.97	15.27	15.40	15.56
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	12.78	19.08	19.37	19.31	27.41	27.60	26.60	36.98	33.09	30.24
Total Vehicles Sales	836.8	838.5	858.3	876.4	886.4	901.1	899.0	912.3	918.6	917.6	931.1	934.5	939.2

Table 36. Light-Duty Vehicle Sales by Technology Type (Thousands) New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	367.6	369.8	373.0	374.8	374.3	375.2	375.7	377.8	380.3	381.5	383.4	-0.2%
TDI Diesel ICE	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	7.2%
Total Conventional	368.8	371.0	374.3	376.1	375.7	376.6	377.2	379.3	381.9	383.1	385.0	-0.2%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	25.3	25.5	25.7	25.7	25.6	25.6	25.6	25.7	25.9	25.9	26.1	1.4%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.0%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.1%
Electric-Diesel Hybrid	3.8	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.1	N/A
Electric-Gasoline Hybrid	20.8	21.0	21.2	21.4	21.4	21.5	21.6	21.7	21.9	21.9	22.1	11.1%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.2	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	N/A
Total Alternatives	52.7	53.2	53.7	54.3	54.1	54.2	54.3	54.6	55.0	55.2	55.4	3.8%
Percent Alternative Car Sales	12.50	12.53	12.55	12.61	12.59	12.59	12.59	12.58	12.58	12.59	12.58	3.7%
Total New Car Sales	421.6	424.2	428.0	430.4	429.8	430.8	431.5	433.8	436.8	438.3	440.4	0.1%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	405.2	413.1	421.1	427.4	431.4	435.9	442.7	451.1	460.1	469.7	479.9	1.2%
TDI Diesel ICE	37.0	38.1	39.2	40.2	41.0	42.4	43.2	44.4	46.3	47.5	47.8	4.9%
Total Conventional	442.2	451.2	460.3	467.7	472.5	478.2	485.9	495.5	506.4	517.2	527.7	1.4%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	41.3	42.3	43.4	44.3	44.8	45.4	46.4	47.6	48.9	50.4	51.8	4.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.7	0.8	0.8	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.4	10.0%
Electric-Diesel Hybrid	1.5	1.6	2.3	2.4	2.4	4.7	4.8	4.9	5.1	5.2	5.3	N/A
Electric-Gasoline Hybrid	21.1	21.8	22.1	22.7	23.2	22.7	23.4	24.2	25.1	26.0	27.1	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Compressed Natural Gas Bi-fuel	2.0	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.5	1.9%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5%
Liquefied Petroleum Gas Bi-fuel	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.8	8.0	8.2	1.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.3	0.3	0.3	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	N/A
Total Alternatives	73.8	75.8	78.1	80.8	81.9	84.4	86.4	88.7	91.3	94.2	97.0	6.2%
Percent Alternative Light Truck Sales	14.30	14.38	14.51	14.74	14.78	15.00	15.09	15.19	15.27	15.41	15.52	4.2%
Total New Truck Sales	516.0	527.0	538.4	548.5	554.4	562.6	572.3	584.3	597.6	611.5	624.7	1.9%
Percent Total Alternative Sales	13.49	13.55	13.64	13.80	13.83	13.96	14.01	14.07	14.14	14.23	14.30	4.0%
EPACT Legislative Alternative Sales	15.60	15.89	16.20	16.47	16.61	16.82	17.06	17.37	17.72	18.07	18.41	1.4%
ZEVP Legislative Alternative Sales	45.29	48.00	49.28	69.90	68.18	67.74	68.96	69.37	68.76	73.11	72.97	N/A
Total Vehicles Sales	937.5	951.2	966.4	978.9	984.3	993.5	1003.7	1018.1	1034.5	1049.7	1065.1	1.1%

Table 36. Light-Duty Vehicle Sales by Technology Type (Thousands) New England

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 37. Light-Duty Vehicle Sales by Technology Type (Thousands) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1154.2	1137.6	1154.0	1151.4	1139.1	1097.9	1079.0	1069.3	1048.4	1027.3	1025.6	1014.3	1003.3
TDI Diesel ICE	0.9	1.1	2.8	2.9	2.7	3.1	3.0	2.9	3.3	3.2	3.2	3.2	3.3
Total Conventional	1155.0	1138.7	1156.9	1154.3	1141.7	1101.0	1082.0	1072.2	1051.7	1030.5	1028.8	1017.5	1006.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	54.5	54.0	54.9	54.4	53.7	64.6	63.1	62.5	72.6	71.1	71.0	70.2	69.3
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	4.0	8.0	8.2	10.1
Electric-Gasoline Hybrid	2.9	6.1	12.1	11.3	11.2	34.6	35.4	46.2	45.2	53.8	53.5	54.4	54.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.7	1.6	1.6	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.4	6.2	6.2	6.1	5.9	5.7	5.5	5.4	5.2	5.1	5.2	5.1	5.1
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Total Alternatives	65.9	68.3	75.2	74.2	73.1	107.2	106.1	116.1	129.0	136.0	139.6	140.1	141.2
Percent Alternative Car Sales	5.40	5.66	6.11	6.04	6.01	8.87	8.93	9.77	10.92	11.66	11.95	12.10	12.30
Total New Car Sales	1221.0	1207.1	1232.1	1228.5	1214.8	1208.2	1188.1	1188.3	1180.6	1166.5	1168.4	1157.6	1147.8
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1066.2	1036.3	991.4	1002.9	1035.6	1021.3	1027.6	1048.5	1053.9	1051.6	1072.6	1081.3	1090.5
TDI Diesel ICE	43.4	50.4	99.1	101.8	96.4	92.3	91.0	88.7	98.2	96.5	96.8	97.8	100.2
Total Conventional	1109.6	1086.7	1090.5	1104.6	1132.0	1113.6	1118.5	1137.2	1152.0	1148.1	1169.4	1179.1	1190.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	52.4	52.5	51.7	55.0	57.0	101.6	102.4	104.9	105.9	105.9	108.7	109.8	111.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.9	0.9	0.9	1.2	1.1	1.0
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	16.3	17.3	29.4	30.5	37.8	39.0	47.3	49.7	51.9	54.3
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	4.7	4.6	4.6	4.7	4.8	5.0	5.0	5.1	5.2	5.2	5.3	5.4	5.4
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	15.5	15.2	15.2	15.7	16.1	16.6	16.7	17.1	17.3	17.4	17.7	17.9	18.1
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6	0.3	0.2
Total Alternatives	73.1	72.8	72.0	92.3	96.0	153.4	155.3	166.1	168.6	177.0	183.3	186.4	190.1
Percent Alternative Light Truck Sales	6.18	6.28	6.20	7.71	7.82	12.11	12.19	12.75	12.77	13.36	13.55	13.65	13.77
Total New Truck Sales	1182.7	1159.5	1162.6	1197.0	1228.0	1267.0	1273.9	1303.3	1320.6	1325.1	1352.7	1365.4	1380.8
Percent Total Alternative Sales	5.78	5.96	6.15	6.87	6.92	10.53	10.62	11.32	11.90	12.56	12.81	12.94	13.10
EPACT Legislative Alternative Sales	39.27	38.36	38.42	39.02	39.46	40.15	39.96	40.47	40.63	40.64	41.34	41.58	41.89
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	23.24	34.68	35.18	35.05	49.76	50.09	48.25	67.07	60.00	54.81
Total Vehicles Sales	2403.6	2366.5	2394.7	2425.5	2442.8	2475.2	2462.0	2491.6	2501.3	2491.6	2521.1	2523.0	2528.6

Table 37. Light-Duty Vehicle Sales by Technology Type (Thousands) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	987.5	990.3	996.0	998.1	993.8	992.8	991.1	993.3	996.8	996.7	998.2	-0.6%
TDI Diesel ICE	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.2	4.4	4.4	6.7%
Total Conventional	990.8	993.8	999.6	1001.7	997.5	996.7	995.0	997.4	1001.0	1001.0	1002.7	-0.6%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	68.0	68.2	68.5	68.5	68.0	67.8	67.6	67.6	67.8	67.7	67.8	1.0%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.9%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.8%
Electric-Diesel Hybrid	10.4	10.5	10.5	10.6	10.6	10.7	10.7	10.7	10.9	10.9	10.8	N/A
Electric-Gasoline Hybrid	55.2	55.6	56.2	56.5	56.4	56.4	56.4	56.6	56.8	56.8	57.0	10.7%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2%
Compressed Natural Gas Bi-fuel	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.3%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.1	-0.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.4	0.5	0.5	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	N/A
Total Alternatives	140.9	141.7	142.7	143.6	142.9	142.7	142.4	142.7	143.3	143.3	143.4	3.4%
Percent Alternative Car Sales	12.45	12.48	12.50	12.54	12.53	12.53	12.52	12.52	12.52	12.52	12.52	3.7%
Total New Car Sales	1131.7	1135.5	1142.3	1145.3	1140.3	1139.4	1137.5	1140.1	1144.3	1144.4	1146.1	-0.2%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	1086.7	1104.6	1122.7	1136.9	1143.7	1151.6	1166.0	1184.2	1203.6	1224.9	1247.3	0.8%
TDI Diesel ICE	101.9	104.8	107.4	110.0	112.0	115.3	117.2	120.3	125.1	128.0	128.3	4.3%
Total Conventional	1188.5	1209.4	1230.0	1246.8	1255.7	1267.0	1283.2	1304.5	1328.7	1352.9	1375.7	1.1%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	110.7	113.1	115.6	117.7	118.8	119.9	122.1	124.9	127.8	131.2	134.4	4.4%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	1.5	1.6	1.7	2.7	2.6	2.6	2.6	2.6	2.6	2.8	2.8	8.2%
Electric-Diesel Hybrid	4.2	4.3	6.3	6.5	6.6	12.5	12.8	13.1	13.5	13.8	13.9	N/A
Electric-Gasoline Hybrid	56.2	57.7	58.4	59.9	61.0	59.5	61.1	63.0	65.0	67.2	69.8	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Compressed Natural Gas Bi-fuel	5.5	5.6	5.7	5.8	5.8	5.9	5.9	6.1	6.2	6.3	6.4	1.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Liquefied Petroleum Gas Bi-fuel	18.2	18.5	18.8	19.1	19.3	19.5	19.8	20.1	20.5	20.9	21.3	1.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.5	0.6	0.6	1.2	1.2	1.1	1.2	1.2	1.2	1.3	1.3	N/A
Total Alternatives	196.7	201.3	207.0	212.8	215.2	221.0	225.4	230.9	236.9	243.6	250.0	5.8%
Percent Alternative Light Truck Sales	14.20	14.27	14.40	14.58	14.63	14.85	14.94	15.04	15.13	15.26	15.38	4.2%
Total New Truck Sales	1385.2	1410.7	1437.0	1459.7	1470.8	1488.0	1508.7	1535.4	1565.5	1596.5	1625.7	1.5%
Percent Total Alternative Sales	13.41	13.47	13.56	13.68	13.71	13.85	13.90	13.97	14.03	14.12	14.19	4.0%
EPACT Legislative Alternative Sales	41.89	42.54	43.24	43.82	44.06	44.48	44.97	45.65	46.42	47.19	47.92	1.0%
ZEVP Legislative Alternative Sales	82.07	86.95	89.27	126.59	123.44	122.62	124.80	125.51	124.39	132.21	131.92	N/A
Total Vehicles Sales	2517.0	2546.2	2579.3	2605.0	2611.2	2627.4	2646.1	2675.5	2709.8	2740.8	2771.8	0.7%

Table 37. Light-Duty Vehicle Sales by Technology Type (Thousands) Middle Atlantic

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 38. Light-Duty Vehicle Sales by Technology Type (Thousands) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1229.0	1209.1	1223.9	1218.6	1197.1	1149.4	1126.4	1113.6	1088.9	1064.6	1060.7	1047.2	1034.0
TDI Diesel ICE	1.0	1.0	2.8	2.8	2.8	3.2	3.1	3.0	3.4	3.4	3.4	3.4	3.4
Total Conventional	1230.0	1210.1	1226.7	1221.4	1200.0	1152.6	1129.5	1116.6	1092.4	1068.0	1064.1	1050.5	1037.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	58.0	57.3	58.3	57.6	56.4	67.7	65.9	65.1	75.4	73.7	73.5	72.4	71.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Electric Vehicle	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.2	8.3	8.5	10.4
Electric-Gasoline Hybrid	3.1	6.4	12.5	11.7	11.8	36.1	36.7	47.9	46.8	55.6	55.1	56.0	56.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.8	1.7	1.7	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.8	6.6	6.6	6.5	6.2	6.0	5.8	5.6	5.4	5.3	5.3	5.3	5.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	70.2	72.5	79.5	78.2	76.8	112.1	110.6	120.7	133.8	140.8	144.2	144.2	145.1
Percent Alternative Car Sales	5.40	5.65	6.08	6.02	6.01	8.86	8.92	9.75	10.91	11.65	11.94	12.07	12.27
Total New Car Sales	1300.2	1282.6	1306.2	1299.6	1276.7	1264.7	1240.0	1237.3	1226.2	1208.8	1208.3	1194.7	1182.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1132.3	1106.6	1061.5	1071.6	1086.8	1069.3	1073.7	1093.5	1094.4	1089.7	1110.0	1115.9	1123.5
TDI Diesel ICE	49.6	47.8	94.0	96.7	103.2	96.7	94.0	91.3	102.8	100.8	100.9	102.0	104.1
Total Conventional	1181.9	1154.4	1155.5	1168.4	1190.1	1166.0	1167.7	1184.8	1197.3	1190.5	1210.9	1217.9	1227.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	55.5	56.1	55.3	58.7	59.8	106.4	106.9	109.3	109.9	109.7	112.4	113.3	114.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	16.9	18.1	30.7	31.7	39.2	40.4	48.8	51.2	53.4	55.8
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	5.0	4.9	4.9	5.0	5.1	5.2	5.2	5.4	5.4	5.4	5.5	5.6	5.6
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	16.5	16.2	16.2	16.6	16.9	17.4	17.4	17.8	18.0	18.0	18.3	18.5	18.7
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	77.6	77.7	76.9	97.8	100.5	160.3	161.9	172.3	174.3	182.6	188.1	191.3	195.0
Percent Alternative Light Truck Sales	6.16	6.31	6.24	7.73	7.79	12.09	12.18	12.69	12.71	13.30	13.44	13.58	13.71
Total New Truck Sales	1259.5	1232.1	1232.4	1266.2	1290.6	1326.3	1329.6	1357.0	1371.6	1373.1	1398.9	1409.3	1422.6
Percent Total Alternative Sales	5.77	5.97	6.16	6.86	6.91	10.51	10.60	11.29	11.86	12.53	12.75	12.89	13.06
EPACT Legislative Alternative Sales	41.81	40.76	40.73	41.27	41.47	42.03	41.70	42.14	42.20	42.12	42.75	42.91	43.16
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	2559.7	2514.7	2538.6	2565.8	2567.4	2591.0	2569.6	2594.3	2597.7	2581.9	2607.3	2604.0	2605.1

Table 38. Light-Duty Vehicle Sales by Technology Type (Thousands) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	1016.0	1017.1	1020.9	1021.4	1014.9	1011.9	1008.2	1008.4	1009.8	1007.8	1007.2	-0.8%
TDI Diesel ICE	3.5	3.6	3.7	3.8	3.8	4.0	4.0	4.2	4.4	4.5	4.6	6.9%
Total Conventional	1019.5	1020.7	1024.5	1025.1	1018.8	1015.9	1012.2	1012.6	1014.2	1012.3	1011.8	-0.8%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	70.0	70.0	70.2	70.1	69.4	69.1	68.7	68.6	68.6	68.4	68.4	0.8%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	4.1%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.2%
Electric-Diesel Hybrid	10.7	10.8	10.9	11.0	11.0	11.0	11.0	11.0	11.1	11.2	11.0	N/A
Electric-Gasoline Hybrid	56.6	56.9	57.4	57.6	57.4	57.3	57.1	57.2	57.3	57.2	57.3	10.5%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Compressed Natural Gas Bi-fuel	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	5.1	5.1	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	-1.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	144.4	144.9	145.7	145.8	144.9	144.5	143.9	144.0	144.3	144.0	143.8	3.2%
Percent Alternative Car Sales	12.41	12.43	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.44	3.7%
Total New Car Sales	1163.9	1165.5	1170.2	1171.0	1163.6	1160.4	1156.2	1156.5	1158.5	1156.2	1155.6	-0.5%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	1118.3	1134.5	1150.3	1164.0	1168.7	1174.1	1186.4	1202.3	1219.3	1238.7	1258.5	0.6%
TDI Diesel ICE	105.7	108.8	111.7	114.4	116.1	119.6	121.4	124.5	129.3	132.1	132.4	4.7%
Total Conventional	1224.0	1243.2	1262.0	1278.4	1284.8	1293.7	1307.8	1326.8	1348.6	1370.7	1390.9	0.9%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	113.7	116.0	118.2	120.2	121.0	122.0	123.9	126.4	129.2	132.3	135.3	4.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	1.3%
Electric-Diesel Hybrid	4.3	4.5	6.5	6.7	6.8	12.9	13.1	13.4	13.9	14.1	14.2	N/A
Electric-Gasoline Hybrid	57.6	59.0	59.6	61.0	62.0	60.3	61.8	63.6	65.6	67.7	70.1	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Compressed Natural Gas Bi-fuel	5.6	5.7	5.8	5.9	5.9	6.0	6.0	6.1	6.3	6.4	6.5	1.3%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6%
Liquefied Petroleum Gas Bi-fuel	18.7	19.0	19.3	19.6	19.7	19.9	20.1	20.4	20.8	21.2	21.5	1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	200.6	204.8	210.1	214.0	216.1	221.7	225.6	230.7	236.3	242.3	248.3	5.4%
Percent Alternative Light Truck Sales	14.08	14.14	14.27	14.34	14.40	14.63	14.71	14.81	14.91	15.02	15.15	4.1%
Total New Truck Sales	1424.6	1448.0	1472.1	1492.4	1500.9	1515.4	1533.5	1557.5	1584.9	1613.0	1639.2	1.3%
Percent Total Alternative Sales	13.33	13.38	13.46	13.51	13.55	13.69	13.74	13.81	13.87	13.95	14.03	4.0%
EPACT Legislative Alternative Sales	43.08	43.67	44.29	44.80	44.96	45.30	45.71	46.31	47.00	47.68	48.31	0.8%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2588.4	2613.6	2642.3	2663.4	2664.6	2675.9	2689.6	2714.1	2743.4	2769.3	2794.8	0.5%

Table 38. Light-Duty Vehicle Sales by Technology Type (Thousands) East North Central

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 39. Light-Duty Vehicle Sales by Technology Type (Thousands) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	512.0	505.6	513.3	512.5	508.9	492.2	485.0	481.6	472.6	463.5	463.1	458.3	453.6
TDI Diesel ICE	0.4	0.5	1.4	1.4	1.2	1.4	1.3	1.3	1.5	1.4	1.4	1.5	1.5
Total Conventional	512.4	506.2	514.7	513.9	510.1	493.6	486.3	482.9	474.1	464.9	464.5	459.8	455.1
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	24.2	24.0	24.4	24.2	24.0	29.0	28.4	28.1	32.7	32.1	32.1	31.7	31.3
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6	3.7	4.5
Electric-Gasoline Hybrid	1.3	2.7	5.4	5.1	5.0	15.4	15.7	20.6	20.2	24.1	24.0	24.4	24.5
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	29.2	30.4	33.5	33.1	32.6	47.9	47.5	52.1	58.0	61.2	62.8	63.0	63.5
Percent Alternative Car Sales	5.40	5.66	6.11	6.05	6.01	8.85	8.91	9.74	10.90	11.63	11.92	12.05	12.25
Total New Car Sales	541.6	536.6	548.2	547.0	542.7	541.5	533.8	534.9	532.0	526.1	527.4	522.8	518.7
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	472.4	457.5	435.3	440.9	462.7	458.5	463.0	473.4	475.7	475.1	485.2	489.0	493.6
TDI Diesel ICE	19.8	25.8	50.1	51.3	43.2	40.7	39.7	38.8	43.8	43.1	43.3	43.9	44.9
Total Conventional	492.3	483.3	485.5	492.3	505.9	499.2	502.7	512.3	519.5	518.2	528.5	532.9	538.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	23.2	23.1	22.7	24.2	25.5	45.6	46.1	47.3	47.8	47.8	49.1	49.6	50.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	7.2	7.7	13.1	13.6	16.9	17.5	21.2	22.3	23.3	24.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.1	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.9	6.8	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.8	8.0	8.1	8.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	32.4	32.1	31.8	40.7	42.7	68.6	69.7	74.5	75.6	79.5	82.1	83.7	85.5
Percent Alternative Light Truck Sales	6.17	6.23	6.14	7.64	7.79	12.09	12.18	12.69	12.71	13.29	13.44	13.57	13.70
Total New Truck Sales	524.7	515.4	517.2	533.0	548.6	567.8	572.4	586.7	595.1	597.6	610.5	616.6	624.0
Percent Total Alternative Sales	5.78	5.94	6.13	6.83	6.91	10.51	10.60	11.28	11.85	12.51	12.73	12.87	13.05
EPACT Legislative Alternative Sales	17.42	17.05	17.09	17.37	17.63	17.99	17.95	18.22	18.31	18.33	18.66	18.78	18.93
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1066.3	1052.0	1065.4	1080.0	1091.3	1109.3	1106.2	1121.7	1127.2	1123.8	1137.9	1139.4	1142.6

Table 39. Light-Duty Vehicle Sales by Technology Type (Thousands) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	446.8	448.3	450.9	452.1	450.3	449.9	449.1	450.1	451.7	451.6	452.3	-0.5%
TDI Diesel ICE	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	6.2%
Total Conventional	448.3	449.8	452.5	453.8	451.9	451.6	450.9	452.0	453.6	453.6	454.3	-0.5%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	30.8	30.9	31.0	31.0	30.8	30.7	30.6	30.6	30.7	30.7	30.7	1.1%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.1%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Electric-Diesel Hybrid	4.7	4.7	4.8	4.8	4.8	4.9	4.8	4.9	4.9	4.9	4.9	N/A
Electric-Gasoline Hybrid	24.8	25.0	25.3	25.4	25.4	25.4	25.4	25.5	25.6	25.6	25.6	10.7%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	-0.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	63.4	63.7	64.2	64.4	64.1	64.1	64.0	64.1	64.4	64.4	64.4	3.5%
Percent Alternative Car Sales	12.38	12.41	12.43	12.43	12.43	12.43	12.43	12.42	12.43	12.43	12.42	3.6%
Total New Car Sales	511.7	513.5	516.7	518.2	516.1	515.7	514.9	516.1	518.0	518.0	518.7	-0.2%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	492.4	500.7	508.8	516.0	519.2	522.7	529.2	537.4	546.1	555.9	565.8	1.0%
TDI Diesel ICE	45.7	47.2	48.5	49.8	50.7	52.3	53.2	54.7	56.9	58.3	58.6	3.8%
Total Conventional	538.1	547.8	557.3	565.8	569.8	575.0	582.5	592.1	603.1	614.2	624.4	1.2%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	50.1	51.2	52.3	53.3	53.8	54.3	55.3	56.5	57.9	59.4	60.8	4.5%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.7%
Electric-Diesel Hybrid	1.9	1.9	2.8	2.9	3.0	5.7	5.8	5.9	6.1	6.3	6.3	N/A
Electric-Gasoline Hybrid	25.2	25.9	26.2	26.9	27.4	26.7	27.5	28.3	29.2	30.2	31.4	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Compressed Natural Gas Bi-fuel	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.9	1.6%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8%
Liquefied Petroleum Gas Bi-fuel	8.2	8.4	8.5	8.7	8.7	8.8	9.0	9.1	9.3	9.5	9.7	1.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	88.1	90.2	92.7	94.6	95.8	98.5	100.4	102.9	105.6	108.5	111.4	5.8%
Percent Alternative Light Truck Sales	14.07	14.14	14.27	14.33	14.39	14.62	14.71	14.81	14.90	15.01	15.14	4.1%
Total New Truck Sales	626.3	638.0	650.1	660.4	665.6	673.5	682.9	695.0	708.7	722.7	735.8	1.6%
Percent Total Alternative Sales	13.31	13.37	13.45	13.50	13.53	13.67	13.73	13.79	13.86	13.93	14.02	4.0%
EPACT Legislative Alternative Sales	18.94	19.24	19.56	19.83	19.94	20.13	20.36	20.66	21.01	21.36	21.69	1.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1137.9	1151.6	1166.8	1178.6	1181.7	1189.2	1197.8	1211.1	1226.7	1240.7	1254.5	0.8%

Table 39. Light-Duty Vehicle Sales by Technology Type (Thousands) West North Central

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 40. Light-Duty Vehicle Sales by Technology Type (Thousands) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1473.6	1450.5	1475.5	1479.2	1470.9	1428.3	1414.8	1413.8	1397.1	1380.1	1388.8	1384.8	1380.7
TDI Diesel ICE	1.1	1.3	3.5	3.6	3.3	3.8	3.7	3.6	4.2	4.1	4.2	4.2	4.3
Total Conventional	1474.7	1451.8	1479.0	1482.8	1474.2	1432.1	1418.5	1417.4	1401.3	1384.2	1393.0	1389.0	1385.1
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	69.5	68.8	70.2	69.9	69.3	84.1	82.8	82.6	96.8	95.5	96.2	95.8	95.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.1	10.4	10.7	13.3
Electric-Gasoline Hybrid	3.7	7.6	15.0	14.2	14.2	44.3	45.5	60.0	59.4	71.2	71.4	73.2	74.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.1	2.1	2.1	2.4	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	8.2	7.9	7.9	7.9	7.6	7.5	7.2	7.1	6.9	6.9	7.0	7.0	7.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	84.1	86.9	95.8	94.9	94.1	138.7	138.3	152.4	170.7	181.3	187.6	189.4	192.4
Percent Alternative Car Sales	5.40	5.65	6.08	6.02	6.00	8.83	8.88	9.71	10.86	11.58	11.87	12.00	12.20
Total New Car Sales	1558.8	1538.7	1574.8	1577.8	1568.3	1570.8	1556.7	1569.7	1572.0	1565.5	1580.6	1578.3	1577.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1360.0	1322.7	1271.1	1292.3	1344.8	1335.6	1355.4	1394.7	1411.7	1419.8	1460.2	1482.8	1507.3
TDI Diesel ICE	56.8	62.5	122.5	126.7	116.7	112.3	110.2	108.3	122.9	122.0	123.7	126.2	130.3
Total Conventional	1416.8	1385.2	1393.7	1419.0	1461.5	1447.8	1465.6	1503.0	1534.6	1541.8	1583.9	1609.0	1637.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	66.8	67.0	66.3	70.8	74.0	132.8	135.0	139.4	141.7	142.9	147.8	150.5	153.4
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	20.5	22.0	37.7	39.4	49.2	51.2	62.5	66.2	69.8	73.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	6.0	5.8	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.2	7.3	7.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	19.8	19.4	19.5	20.2	20.8	21.6	21.9	22.6	23.1	23.3	24.0	24.4	24.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	93.2	92.9	92.3	118.2	123.8	199.4	203.5	218.7	223.7	236.5	246.0	252.8	260.1
Percent Alternative Light Truck Sales	6.17	6.28	6.21	7.69	7.81	12.10	12.19	12.70	12.72	13.30	13.44	13.58	13.71
Total New Truck Sales	1510.0	1478.1	1485.9	1537.2	1585.3	1647.2	1669.1	1721.7	1758.3	1778.3	1829.9	1861.8	1897.7
Percent Total Alternative Sales	5.78	5.96	6.14	6.84	6.91	10.50	10.60	11.27	11.84	12.50	12.71	12.85	13.02
EPACT Legislative Alternative Sales	50.13	48.90	49.10	50.11	50.94	52.20	52.35	53.46	54.10	54.55	55.92	56.69	57.57
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	3068.8	3016.8	3060.8	3115.0	3153.6	3218.0	3225.9	3291.4	3330.3	3343.9	3410.5	3440.1	3475.2

Table 40. Light-Duty Vehicle Sales by Technology Type (Thousands) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	1369.9	1384.6	1403.0	1417.1	1421.4	1430.5	1438.4	1451.9	1467.2	1477.4	1489.8	0.1%
TDI Diesel ICE	4.4	4.6	4.8	4.9	5.1	5.3	5.5	5.7	6.0	6.2	6.4	7.4%
Total Conventional	1374.3	1389.1	1407.8	1422.0	1426.5	1435.8	1443.8	1457.6	1473.2	1483.6	1496.2	0.1%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	94.3	95.3	96.5	97.2	97.2	97.6	98.0	98.8	99.7	100.3	101.1	1.8%
Ethanol ICE	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.8%
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.3%
Electric-Diesel Hybrid	13.8	14.1	14.3	14.5	14.7	14.9	15.0	15.2	15.5	15.6	15.6	N/A
Electric-Gasoline Hybrid	75.6	76.7	78.1	79.1	79.5	80.1	80.7	81.6	82.5	83.1	83.9	11.5%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Compressed Natural Gas Bi-fuel	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	0.4%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	6.9	7.0	7.1	7.2	7.2	7.2	7.3	7.3	7.4	7.5	7.5	-0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	193.3	195.8	198.7	200.8	201.4	202.7	203.8	205.7	208.1	209.5	211.2	4.1%
Percent Alternative Car Sales	12.33	12.35	12.37	12.38	12.37	12.37	12.37	12.37	12.38	12.37	12.37	3.6%
Total New Car Sales	1567.6	1584.9	1606.5	1622.9	1627.9	1638.5	1647.6	1663.3	1681.2	1693.1	1707.3	0.5%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	1515.0	1551.8	1588.8	1623.3	1645.1	1668.6	1701.7	1740.3	1781.2	1825.6	1871.3	1.6%
TDI Diesel ICE	133.7	138.9	143.9	148.6	152.4	158.5	162.4	168.1	176.3	181.9	183.9	5.0%
Total Conventional	1648.7	1690.7	1732.7	1771.9	1797.6	1827.1	1864.1	1908.5	1957.5	2007.5	2055.2	1.8%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	154.1	158.6	163.3	167.6	170.3	173.3	177.6	183.0	188.7	194.9	201.1	5.1%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	2.3%
Electric-Diesel Hybrid	5.6	5.8	8.5	8.8	9.0	17.4	17.8	18.4	19.2	19.8	20.1	N/A
Electric-Gasoline Hybrid	76.8	79.5	81.1	83.8	86.0	84.6	87.5	90.9	94.6	98.5	102.9	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Compressed Natural Gas Bi-fuel	7.6	7.8	8.0	8.2	8.3	8.4	8.6	8.8	9.1	9.3	9.6	2.3%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Liquefied Petroleum Gas Bi-fuel	25.2	25.8	26.5	27.1	27.5	28.1	28.7	29.4	30.2	31.0	31.8	2.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	270.0	278.3	288.2	296.4	302.1	312.7	321.2	331.5	342.7	354.5	366.5	6.4%
Percent Alternative Light Truck Sales	14.07	14.14	14.26	14.33	14.39	14.61	14.70	14.80	14.90	15.01	15.13	4.1%
Total New Truck Sales	1918.7	1969.1	2020.9	2068.3	2099.7	2139.8	2185.3	2240.0	2300.2	2362.0	2421.7	2.3%
Percent Total Alternative Sales	13.29	13.34	13.42	13.47	13.51	13.64	13.70	13.76	13.83	13.91	13.99	4.0%
EPACT Legislative Alternative Sales	58.02	59.38	60.81	62.09	62.90	63.96	65.14	66.60	68.21	69.81	71.38	1.7%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	3486.3	3554.0	3627.4	3691.1	3727.5	3778.3	3833.0	3903.3	3981.4	4055.1	4129.1	1.4%

Table 40. Light-Duty Vehicle Sales by Technology Type (Thousands) South Atlantic

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 41. Light-Duty Vehicle Sales by Technology Type (Thousands) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	424.4	419.8	426.9	427.0	423.0	408.9	402.9	400.3	393.1	385.9	385.9	382.3	378.8
TDI Diesel ICE	0.3	0.4	1.1	1.1	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2
Total Conventional	424.7	420.2	428.0	428.1	424.0	410.0	404.0	401.3	394.3	387.1	387.1	383.5	380.0
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	20.0	19.9	20.3	20.2	19.9	24.1	23.6	23.4	27.2	26.7	26.7	26.4	26.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.1	3.8
Electric-Gasoline Hybrid	1.1	2.2	4.4	4.1	4.1	12.8	13.0	17.1	16.8	20.0	19.9	20.3	20.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.4	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	24.2	25.2	27.8	27.4	27.1	39.8	39.4	43.2	48.2	50.9	52.3	52.5	53.0
Percent Alternative Car Sales	5.40	5.65	6.09	6.02	6.00	8.84	8.89	9.73	10.88	11.61	11.90	12.04	12.24
Total New Car Sales	448.9	445.4	455.8	455.5	451.1	449.8	443.4	444.6	442.5	438.0	439.4	436.0	433.0
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	390.7	381.4	365.1	370.4	384.7	380.7	384.4	393.3	395.5	395.3	404.0	407.6	411.7
TDI Diesel ICE	17.4	19.7	38.4	39.5	35.7	34.0	33.2	32.4	36.7	36.2	36.4	37.0	37.9
Total Conventional	408.1	401.0	403.5	409.8	420.5	414.7	417.6	425.8	432.1	431.4	440.4	444.6	449.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	19.2	19.3	19.0	20.3	21.2	37.9	38.3	39.3	39.7	39.8	40.9	41.4	41.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	5.9	6.4	10.9	11.3	14.0	14.5	17.6	18.5	19.4	20.3
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	5.7	5.6	5.6	5.8	6.0	6.2	6.2	6.4	6.5	6.5	6.7	6.7	6.8
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	26.8	26.8	26.6	34.0	35.5	57.0	57.9	61.8	62.8	66.1	68.3	69.7	71.3
Percent Alternative Light Truck Sales	6.15	6.26	6.18	7.66	7.79	12.08	12.17	12.68	12.70	13.28	13.42	13.56	13.69
Total New Truck Sales	434.9	427.8	430.0	443.8	456.0	471.6	475.4	487.6	495.0	497.5	508.7	514.3	520.9
Percent Total Alternative Sales	5.77	5.95	6.13	6.83	6.90	10.50	10.59	11.27	11.84	12.50	12.72	12.86	13.03
EPACT Legislative Alternative Sales	14.44	14.15	14.21	14.47	14.65	14.95	14.91	15.14	15.23	15.26	15.55	15.66	15.80
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	883.8	873.2	885.8	899.3	907.0	921.4	918.8	932.2	937.5	935.5	948.1	950.3	953.9

Table 41. Light-Duty Vehicle Sales by Technology Type (Thousands) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	373.4	375.0	377.6	379.0	377.8	377.8	377.5	378.7	380.3	380.6	381.5	-0.4%
TDI Diesel ICE	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	6.7%
Total Conventional	374.7	376.3	379.0	380.4	379.2	379.3	379.1	380.3	382.0	382.3	383.2	-0.4%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	25.7	25.8	26.0	26.0	25.8	25.8	25.7	25.8	25.9	25.9	25.9	1.2%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.4%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.8%
Electric-Diesel Hybrid	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.2	4.2	4.1	N/A
Electric-Gasoline Hybrid	20.7	20.9	21.1	21.2	21.2	21.2	21.3	21.4	21.5	21.5	21.6	10.9%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-0.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	52.9	53.2	53.7	53.9	53.7	53.8	53.7	53.9	54.2	54.2	54.3	3.6%
Percent Alternative Car Sales	12.37	12.39	12.41	12.42	12.41	12.42	12.41	12.41	12.42	12.42	12.41	3.6%
Total New Car Sales	427.6	429.6	432.7	434.4	433.0	433.1	432.8	434.2	436.1	436.5	437.5	-0.1%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	411.2	418.5	425.7	432.2	435.3	438.6	444.5	451.8	459.5	468.0	476.8	1.0%
TDI Diesel ICE	38.6	39.9	41.0	42.1	42.9	44.3	45.1	46.4	48.4	49.6	49.8	4.3%
Total Conventional	449.8	458.4	466.8	474.3	478.2	483.0	489.7	498.2	507.9	517.6	526.7	1.2%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	41.8	42.8	43.8	44.6	45.1	45.6	46.4	47.5	48.7	50.0	51.3	4.5%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	1.7%
Electric-Diesel Hybrid	1.6	1.6	2.4	2.5	2.5	4.8	4.9	5.0	5.2	5.3	5.4	N/A
Electric-Gasoline Hybrid	21.0	21.6	21.9	22.5	22.9	22.4	23.0	23.7	24.5	25.4	26.4	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Compressed Natural Gas Bi-fuel	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	1.7%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7%
Liquefied Petroleum Gas Bi-fuel	6.9	7.0	7.1	7.3	7.3	7.4	7.5	7.7	7.8	8.0	8.1	1.7%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	73.6	75.4	77.6	79.2	80.3	82.6	84.3	86.5	88.8	91.3	93.8	5.9%
Percent Alternative Light Truck Sales	14.06	14.12	14.25	14.31	14.37	14.61	14.69	14.79	14.89	15.00	15.12	4.1%
Total New Truck Sales	523.4	533.7	544.3	553.6	558.5	565.6	574.0	584.7	596.7	609.0	620.5	1.7%
Percent Total Alternative Sales	13.30	13.35	13.44	13.48	13.52	13.66	13.71	13.78	13.85	13.92	14.00	4.0%
EPACT Legislative Alternative Sales	15.83	16.10	16.38	16.62	16.73	16.91	17.11	17.38	17.69	18.00	18.29	1.2%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	951.0	963.3	977.0	987.9	991.4	998.7	1006.8	1018.9	1032.8	1045.5	1058.0	0.9%

Table 41. Light-Duty Vehicle Sales by Technology Type (Thousands) East South Central

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 42. Light-Duty Vehicle Sales by Technology Type (Thousands) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	821.7	815.5	832.7	836.5	829.1	803.3	794.3	792.6	782.3	771.9	776.1	773.2	770.3
TDI Diesel ICE	0.6	0.7	1.9	1.9	2.0	2.3	2.2	2.2	2.5	2.5	2.5	2.5	2.6
Total Conventional	822.3	816.3	834.7	838.4	831.1	805.6	796.6	794.8	784.8	774.4	778.6	775.7	772.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	38.8	38.7	39.6	39.6	39.1	47.3	46.5	46.3	54.2	53.4	53.7	53.5	53.2
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.1	6.1	6.3	7.9
Electric-Gasoline Hybrid	2.1	4.3	8.4	7.9	8.1	25.1	25.7	33.8	33.4	40.0	40.0	41.0	41.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.2	1.2	1.2	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	4.6	4.4	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.9	3.9	3.9	3.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	46.9	48.8	54.0	53.6	53.1	78.2	77.8	85.7	95.9	101.8	105.3	106.2	107.9
Percent Alternative Car Sales	5.40	5.65	6.08	6.01	6.01	8.84	8.90	9.73	10.89	11.62	11.91	12.04	12.25
Total New Car Sales	869.2	865.1	888.6	892.0	884.2	883.8	874.4	880.4	880.7	876.2	883.8	881.9	880.7
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	757.6	745.8	721.2	734.9	752.5	746.0	755.8	776.8	785.1	788.9	810.8	822.6	835.5
TDI Diesel ICE	32.5	32.9	65.0	67.2	71.8	69.0	67.8	66.5	75.2	74.5	75.4	76.8	79.2
Total Conventional	790.1	778.7	786.2	802.1	824.3	815.0	823.6	843.4	860.2	863.4	886.1	899.4	914.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	37.2	37.8	37.6	40.3	41.4	74.2	75.3	77.7	78.8	79.5	82.1	83.5	85.1
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	11.5	12.5	21.3	22.2	27.7	28.8	35.1	37.2	39.1	41.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	3.3	3.3	3.3	3.4	3.5	3.7	3.7	3.8	3.9	3.9	4.0	4.1	4.2
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	11.0	10.9	11.0	11.4	11.7	12.2	12.3	12.7	12.9	13.1	13.4	13.6	13.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	51.9	52.4	52.3	67.0	69.5	111.8	113.9	122.3	124.9	131.9	137.1	140.8	144.8
Percent Alternative Light Truck Sales	6.16	6.30	6.23	7.71	7.78	12.06	12.15	12.66	12.68	13.26	13.40	13.54	13.67
Total New Truck Sales	842.0	831.0	838.5	869.1	893.8	926.8	937.5	965.6	985.1	995.3	1023.3	1040.2	1059.5
Percent Total Alternative Sales	5.77	5.97	6.15	6.85	6.90	10.49	10.58	11.26	11.83	12.49	12.71	12.85	13.02
EPACT Legislative Alternative Sales	27.95	27.49	27.71	28.33	28.72	29.37	29.41	29.98	30.31	30.53	31.27	31.68	32.14
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1711.3	1696.1	1727.1	1761.2	1778.0	1810.5	1811.9	1846.1	1865.8	1871.5	1907.1	1922.1	1940.2

Table 42. Light-Duty Vehicle Sales by Technology Type (Thousands) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	763.7	771.4	781.2	788.6	790.5	795.2	799.2	806.4	814.5	819.9	826.5	0.1%
TDI Diesel ICE	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.6	3.7	3.8	7.9%
Total Conventional	766.3	774.1	784.0	791.5	793.6	798.3	802.4	809.7	818.1	823.6	830.3	0.1%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	52.6	53.1	53.7	54.1	54.1	54.3	54.4	54.8	55.4	55.7	56.1	1.7%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	4.9%
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.4%
Electric-Diesel Hybrid	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.1	9.1	9.1	N/A
Electric-Gasoline Hybrid	42.2	42.8	43.6	44.1	44.3	44.6	44.9	45.4	45.9	46.2	46.6	11.5%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Compressed Natural Gas Bi-fuel	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	0.4%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.2	-0.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	108.3	109.6	111.2	112.3	112.5	113.2	113.8	114.8	116.1	116.8	117.7	4.1%
Percent Alternative Car Sales	12.38	12.40	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.42	12.41	3.6%
Total New Car Sales	874.6	883.7	895.2	903.8	906.1	911.6	916.2	924.6	934.2	940.4	948.0	0.4%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	839.0	858.8	878.8	897.3	908.9	921.2	939.0	959.9	982.0	1006.1	1031.1	1.5%
TDI Diesel ICE	81.2	84.2	87.1	89.9	92.1	95.7	97.9	101.3	106.1	109.4	110.5	5.7%
Total Conventional	920.2	943.1	965.9	987.2	1001.0	1016.8	1037.0	1061.2	1088.0	1115.5	1141.6	1.8%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	85.4	87.8	90.3	92.7	94.1	95.7	98.0	101.0	104.0	107.5	110.8	5.0%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	2.2%
Electric-Diesel Hybrid	3.3	3.4	5.0	5.2	5.3	10.2	10.5	10.8	11.2	11.6	11.8	N/A
Electric-Gasoline Hybrid	42.9	44.3	45.2	46.6	47.8	46.9	48.5	50.4	52.4	54.5	57.0	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Compressed Natural Gas Bi-fuel	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.2	5.3	2.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2%
Liquefied Petroleum Gas Bi-fuel	14.0	14.4	14.8	15.1	15.3	15.6	15.9	16.3	16.8	17.2	17.6	2.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	150.2	154.8	160.2	164.6	167.7	173.6	178.3	183.9	190.0	196.5	203.1	6.4%
Percent Alternative Light Truck Sales	14.04	14.10	14.23	14.29	14.35	14.59	14.67	14.77	14.87	14.98	15.10	4.1%
Total New Truck Sales	1070.5	1097.9	1126.1	1151.9	1168.7	1190.5	1215.2	1245.1	1278.0	1311.9	1344.7	2.2%
Percent Total Alternative Sales	13.29	13.34	13.43	13.47	13.51	13.65	13.70	13.77	13.84	13.91	13.99	3.9%
EPACT Legislative Alternative Sales	32.37	33.11	33.88	34.58	35.01	35.58	36.23	37.02	37.90	38.78	39.63	1.7%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1945.1	1981.6	2021.3	2055.7	2074.8	2102.0	2131.5	2169.7	2212.2	2252.3	2292.7	1.4%

Table 42. Light-Duty Vehicle Sales by Technology Type (Thousands) West South Central

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 43. Light-Duty Vehicle Sales by Technology Type (Thousands) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	461.1	466.1	481.9	488.5	481.0	464.7	458.6	457.2	453.4	449.2	453.0	452.0	452.0
TDI Diesel ICE	0.4	0.4	1.0	1.1	1.3	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.7
Total Conventional	461.5	466.5	483.0	489.5	482.3	466.2	460.1	458.6	455.0	450.8	454.6	453.6	453.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	21.8	22.1	22.9	23.1	22.7	27.4	26.8	26.7	31.4	31.1	31.4	31.3	31.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.0	3.9	4.1	5.0
Electric-Gasoline Hybrid	1.2	2.5	4.9	4.7	5.0	15.3	15.7	20.7	20.1	24.2	24.2	25.0	25.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.6	2.5	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	26.4	27.9	31.3	31.3	31.2	46.0	45.9	50.6	56.6	60.4	62.7	63.5	64.6
Percent Alternative Car Sales	5.40	5.65	6.09	6.02	6.08	8.99	9.06	9.93	11.06	11.81	12.12	12.27	12.46
Total New Car Sales	487.9	494.4	514.3	520.9	513.5	512.2	506.0	509.2	511.6	511.2	517.3	517.1	518.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	424.0	427.5	419.7	431.3	429.8	426.1	430.5	442.6	450.5	454.8	468.9	476.2	486.4
TDI Diesel ICE	19.5	17.5	35.2	36.9	48.9	46.3	46.1	45.0	49.1	48.6	49.4	50.7	51.5
Total Conventional	443.5	444.9	454.9	468.2	478.7	472.4	476.6	487.6	499.6	503.4	518.3	527.0	537.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	20.8	21.7	21.9	23.6	23.7	42.4	42.9	44.3	45.3	45.8	47.5	48.4	49.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	6.8	7.6	12.9	13.5	16.8	17.3	21.3	22.6	23.9	25.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.2	6.2	6.4	6.7	6.8	7.0	7.1	7.3	7.5	7.6	7.9	8.0	8.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	29.0	30.0	30.4	39.3	40.4	64.7	65.9	70.9	72.6	77.3	80.6	83.0	85.6
Percent Alternative Light Truck Sales	6.15	6.32	6.26	7.75	7.78	12.05	12.15	12.70	12.69	13.31	13.46	13.60	13.73
Total New Truck Sales	472.6	474.9	485.2	507.5	519.1	537.2	542.5	558.5	572.2	580.6	598.9	609.9	623.4
Percent Total Alternative Sales	5.77	5.98	6.17	6.87	6.93	10.56	10.66	11.38	11.92	12.61	12.84	12.99	13.15
EPACT Legislative Alternative Sales	15.69	15.71	16.03	16.54	16.68	17.02	17.02	17.34	17.61	17.81	18.30	18.57	18.91
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	960.5	969.4	999.5	1028.4	1032.6	1049.4	1048.5	1067.7	1083.8	1091.8	1116.2	1127.0	1141.7

Table 43. Light-Duty Vehicle Sales by Technology Type (Thousands) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	449.5	455.5	462.1	467.5	469.6	473.0	476.4	481.5	486.4	490.6	494.8	0.3%
TDI Diesel ICE	1.7	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5	8.8%
Total Conventional	451.2	457.2	463.9	469.4	471.5	475.0	478.5	483.7	488.7	493.0	497.3	0.3%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	31.0	31.3	31.8	32.1	32.1	32.3	32.5	32.7	33.1	33.3	33.6	1.9%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.6%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.1%
Electric-Diesel Hybrid	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.8	5.9	5.9	N/A
Electric-Gasoline Hybrid	25.7	26.1	26.7	27.1	27.2	27.5	27.7	28.0	28.4	28.6	28.9	11.9%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	0.0%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	65.0	66.0	67.1	67.9	68.2	68.8	69.2	69.9	70.8	71.3	72.0	4.4%
Percent Alternative Car Sales	12.59	12.61	12.64	12.64	12.63	12.64	12.63	12.63	12.66	12.63	12.64	3.7%
Total New Car Sales	516.2	523.2	531.0	537.3	539.7	543.8	547.7	553.6	559.6	564.3	569.3	0.6%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	489.8	502.9	515.5	527.8	535.6	543.2	555.2	568.7	581.4	597.0	611.8	1.6%
TDI Diesel ICE	52.8	54.9	56.9	58.5	60.1	62.6	63.9	66.0	69.5	71.5	72.8	6.7%
Total Conventional	542.6	557.9	572.4	586.3	595.6	605.8	619.2	634.7	650.8	668.5	684.6	2.0%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	49.9	51.5	53.0	54.5	55.5	56.5	58.0	59.8	61.6	63.8	65.8	5.2%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.5%
Electric-Diesel Hybrid	2.1	2.2	3.2	3.3	3.4	6.6	6.7	6.9	7.3	7.5	7.6	N/A
Electric-Gasoline Hybrid	26.2	27.1	27.7	28.6	29.4	28.9	29.8	31.1	32.4	33.7	35.3	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Compressed Natural Gas Bi-fuel	2.5	2.6	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	2.4%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3%
Liquefied Petroleum Gas Bi-fuel	8.3	8.5	8.8	9.0	9.1	9.3	9.5	9.8	10.0	10.3	10.6	2.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	89.2	92.1	95.6	98.5	100.5	104.3	107.3	110.9	114.7	118.7	122.9	6.6%
Percent Alternative Light Truck Sales	14.12	14.17	14.32	14.38	14.44	14.69	14.77	14.87	14.99	15.08	15.22	4.1%
Total New Truck Sales	631.8	650.0	668.0	684.8	696.1	710.2	726.4	745.6	765.6	787.2	807.5	2.4%
Percent Total Alternative Sales	13.43	13.47	13.57	13.62	13.65	13.80	13.85	13.92	14.00	14.06	14.15	4.0%
EPACT Legislative Alternative Sales	19.11	19.60	20.10	20.56	20.85	21.23	21.65	22.17	22.70	23.27	23.80	1.9%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1148.0	1173.2	1199.1	1222.1	1235.9	1253.9	1274.1	1299.2	1325.1	1351.6	1376.8	1.6%

Table 43. Light-Duty Vehicle Sales by Technology Type (Thousands) Mountain

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 44. Light-Duty Vehicle Sales by Technology Type (Thousands) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1249.9	1237.1	1259.8	1263.4	1266.5	1231.3	1216.1	1208.8	1194.4	1175.9	1179.4	1171.4	1164.3
TDI Diesel ICE	1.0	1.4	3.8	3.9	3.0	3.5	3.7	3.8	4.0	4.2	4.2	4.2	4.3
Total Conventional	1250.9	1238.6	1263.6	1267.3	1269.4	1234.9	1219.8	1212.5	1198.4	1180.0	1183.6	1175.6	1168.5
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	59.0	58.7	59.9	59.7	59.7	72.5	71.1	70.6	82.7	81.4	81.7	81.0	80.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	5.2	10.1	10.4	12.8
Electric-Gasoline Hybrid	3.2	7.0	13.8	13.0	12.6	39.3	40.7	53.7	52.3	62.9	62.8	64.4	64.9
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.8	1.8	1.8	2.3	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	6.9	6.7	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.9	5.9	5.9	5.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4
Total Alternatives	71.5	74.6	82.8	82.3	81.5	120.8	120.6	132.9	148.2	157.7	163.0	164.7	166.9
Percent Alternative Car Sales	5.41	5.68	6.15	6.10	6.03	8.91	9.00	9.88	11.01	11.79	12.10	12.29	12.50
Total New Car Sales	1322.4	1313.2	1346.4	1349.5	1350.9	1355.6	1340.3	1345.4	1346.6	1337.8	1346.6	1340.3	1335.4
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1150.9	1112.8	1055.3	1072.9	1151.3	1142.9	1147.6	1168.4	1190.3	1188.3	1218.7	1234.7	1251.7
TDI Diesel ICE	51.2	70.5	137.7	141.5	107.1	106.2	114.4	119.1	123.3	128.2	127.9	129.6	132.8
Total Conventional	1202.1	1183.3	1193.0	1214.4	1258.4	1249.1	1262.0	1287.5	1313.7	1316.5	1346.6	1364.3	1384.5
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	56.4	56.1	55.1	58.8	63.4	113.8	114.4	117.1	119.7	119.9	123.7	125.6	127.6
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.5	0.5	0.5	0.8	1.1	1.1	1.1	1.4	1.5	1.4	2.1	1.8	1.6
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	18.3	19.4	33.4	35.0	43.7	45.1	55.3	58.6	61.6	64.8
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	5.1	5.0	5.0	5.2	5.4	5.6	5.7	5.8	5.9	6.0	6.2	6.2	6.3
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	16.8	16.5	16.7	17.2	17.9	18.6	18.8	19.4	19.8	19.9	20.4	20.7	21.1
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.4	0.6	0.5
Total Alternatives	78.9	78.1	77.4	100.4	107.2	172.5	175.0	188.1	192.6	203.1	212.4	216.6	222.0
Percent Alternative Light Truck Sales	6.16	6.19	6.09	7.64	7.85	12.13	12.18	12.75	12.79	13.37	13.63	13.70	13.82
Total New Truck Sales	1280.9	1261.5	1270.4	1314.9	1365.6	1421.6	1437.1	1475.6	1506.3	1519.6	1559.0	1580.9	1606.5
Percent Total Alternative Sales	5.77	5.93	6.12	6.86	6.94	10.56	10.64	11.38	11.95	12.63	12.92	13.05	13.22
EPACT Legislative Alternative Sales	42.53	41.73	41.98	42.86	43.88	45.05	45.08	45.82	46.34	46.61	47.64	48.14	48.74
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	53.01	79.20	80.43	80.21	113.95	114.79	110.63	153.89	137.77	125.93
Total Vehicles Sales	2603.3	2574.7	2616.7	2664.4	2716.5	2777.3	2777.4	2821.0	2852.9	2857.4	2905.6	2921.2	2942.0

Table 44. Light-Duty Vehicle Sales by Technology Type (Thousands) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	1153.4	1162.4	1174.3	1183.4	1185.8	1190.6	1195.1	1203.7	1211.5	1219.4	1225.5	0.0%
TDI Diesel ICE	4.2	4.4	4.6	4.7	4.8	5.1	5.2	5.4	6.0	5.7	6.0	6.7%
Total Conventional	1157.5	1166.8	1179.0	1188.1	1190.6	1195.7	1200.3	1209.1	1217.5	1225.1	1231.5	0.0%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	79.5	80.1	80.8	81.3	81.2	81.4	81.5	82.0	82.5	82.9	83.3	1.6%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	4.7%
Electric Vehicle	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8%
Electric-Diesel Hybrid	12.8	13.2	13.6	13.7	13.6	14.0	14.1	14.2	14.9	14.1	14.4	N/A
Electric-Gasoline Hybrid	66.0	66.9	68.0	68.6	68.8	69.2	69.5	70.2	70.7	71.2	71.8	11.2%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Compressed Natural Gas Bi-fuel	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	0.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	5.8	5.9	6.0	6.0	6.0	6.0	6.1	6.1	6.2	6.2	6.2	-0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.9	1.1	1.1	2.1	1.9	1.9	1.9	1.8	1.7	1.9	1.9	N/A
Total Alternatives	167.5	169.6	171.9	174.3	174.2	175.1	175.6	176.9	178.7	179.0	180.3	4.1%
Percent Alternative Car Sales	12.64	12.69	12.73	12.79	12.76	12.77	12.76	12.76	12.80	12.75	12.77	3.7%
Total New Car Sales	1325.0	1336.4	1350.9	1362.4	1364.8	1370.8	1375.9	1385.9	1396.1	1404.1	1411.9	0.3%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	1260.2	1284.4	1308.9	1332.6	1351.1	1365.4	1389.3	1418.1	1437.5	1486.8	1513.9	1.4%
TDI Diesel ICE	128.9	136.5	143.3	146.4	147.7	154.7	158.9	163.3	179.9	168.1	175.8	4.2%
Total Conventional	1389.1	1421.0	1452.2	1479.0	1498.8	1520.0	1548.1	1581.4	1617.4	1654.9	1689.7	1.6%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	128.6	131.7	135.0	138.4	140.7	142.6	145.9	150.0	153.2	159.7	163.6	5.0%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	2.8	3.0	3.1	5.5	5.3	5.2	5.3	5.3	5.2	5.7	5.6	11.3%
Electric-Diesel Hybrid	5.2	5.5	8.2	8.4	8.5	16.4	16.8	17.3	18.6	17.9	18.6	N/A
Electric-Gasoline Hybrid	67.2	69.5	70.6	72.6	74.4	72.8	75.0	77.8	80.4	84.2	87.8	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Compressed Natural Gas Bi-fuel	6.4	6.6	6.7	6.9	7.0	7.1	7.2	7.4	7.5	7.7	7.9	2.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7%
Liquefied Petroleum Gas Bi-fuel	21.3	21.8	22.3	22.8	23.1	23.5	23.9	24.5	25.1	25.7	26.3	2.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	1.2	1.3	1.3	2.7	2.7	2.6	2.8	2.8	2.8	3.1	3.0	N/A
Total Alternatives	232.7	239.4	247.2	257.3	261.6	270.1	276.8	285.0	292.7	304.0	312.9	6.5%
Percent Alternative Light Truck Sales	14.35	14.42	14.55	14.82	14.86	15.09	15.17	15.27	15.33	15.52	15.62	4.3%
Total New Truck Sales	1621.8	1660.4	1699.4	1736.3	1760.4	1790.1	1825.0	1866.4	1910.1	1958.8	2002.6	2.1%
Percent Total Alternative Sales	13.58	13.65	13.74	13.93	13.94	14.08	14.13	14.20	14.26	14.36	14.45	4.1%
EPACT Legislative Alternative Sales	49.04	50.07	51.13	52.12	52.73	53.51	54.40	55.49	56.64	57.90	59.03	1.6%
ZEVP Legislative Alternative Sales	188.68	200.02	205.43	291.45	284.34	282.57	287.75	289.55	287.11	305.37	304.89	N/A
Total Vehicles Sales	2946.9	2996.8	3050.3	3098.7	3125.2	3160.9	3200.9	3252.4	3306.3	3363.0	3414.5	1.3%

Table 44. Light-Duty Vehicle Sales by Technology Type (Thousands) Pacific

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 45. Light-Duty Vehicle Sales by Technology Type (Thousands) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	7727.6	7644.5	7781.8	7793.2	7728.9	7475.6	7370.9	7328.5	7215.2	7096.6	7111.2	7058.9	7009.5
TDI Diesel ICE	6.1	7.3	19.3	19.7	18.1	21.0	20.7	20.2	22.9	22.8	22.8	23.0	23.4
Total Conventional	7733.7	7651.8	7801.1	7812.9	7747.0	7496.7	7391.6	7348.7	7238.1	7119.4	7134.1	7081.9	7033.0
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	364.6	362.6	370.4	368.5	364.2	440.2	431.2	428.3	499.7	491.0	492.5	488.2	484.1
Ethanol ICE	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1
Electric Vehicle	2.3	2.2	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4	28.3	56.3	57.9	71.6
Electric-Gasoline Hybrid	19.6	40.9	80.9	76.0	76.1	235.6	241.7	316.9	311.0	371.8	370.9	379.0	381.8
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Compressed Natural Gas Bi-fuel	11.2	10.9	10.9	12.9	12.5	12.0	11.6	11.2	10.9	10.8	10.9	10.8	10.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	42.9	41.6	41.7	41.4	40.1	39.1	37.6	36.8	35.8	35.5	35.7	35.5	35.4
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.7
Total Alternatives	441.4	459.0	506.8	501.8	496.0	729.7	725.0	796.2	887.8	940.4	969.2	975.5	987.3
Percent Alternative Car Sales	5.40	5.66	6.10	6.04	6.02	8.87	8.93	9.77	10.93	11.67	11.96	12.11	12.31
Total New Car Sales	8175.1	8110.8	8308.0	8314.8	8243.0	8226.4	8116.6	8144.9	8125.8	8059.8	8103.3	8057.4	8020.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	7123.9	6959.0	6678.4	6781.7	7024.8	6952.6	7013.6	7175.6	7244.7	7251.4	7427.0	7511.2	7605.7
TDI Diesel ICE	307.0	343.6	675.2	696.1	657.1	630.5	628.9	621.9	687.2	684.3	688.5	699.3	717.2
Total Conventional	7430.9	7302.6	7353.5	7477.7	7681.9	7583.1	7642.6	7797.5	7931.9	7935.7	8115.6	8210.5	8322.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	349.5	352.3	348.2	371.7	386.7	691.8	698.7	717.9	727.7	730.5	752.3	762.8	774.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	3.4	3.3	3.3	3.9	4.3	4.5	4.5	5.2	5.2	5.2	6.3	5.9	5.7
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric-Gasoline Hybrid	0.0	0.0	0.0	109.5	117.3	200.2	208.3	259.1	268.2	326.5	344.9	361.7	379.8
Compressed Natural Gas ICE	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	31.3	30.7	31.0	32.0	32.9	34.0	34.3	35.3	35.9	36.1	37.0	37.5	38.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	103.9	102.2	102.8	106.3	109.3	113.2	114.1	117.2	119.2	120.1	123.1	124.7	126.6
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.4	1.0	0.9
Total Alternatives	488.1	488.6	485.4	623.4	650.6	1043.7	1060.1	1135.8	1157.3	1219.5	1266.1	1293.8	1325.5
Percent Alternative Light Truck Sales	6.16	6.27	6.19	7.70	7.81	12.10	12.18	12.71	12.73	13.32	13.50	13.61	13.74
Total New Truck Sales	7919.0	7791.2	7839.0	8101.1	8332.5	8626.8	8702.6	8933.3	9089.2	9155.2	9381.7	9504.2	9648.4
Percent Total Alternative Sales	5.78	5.96	6.15	6.85	6.92	10.52	10.61	11.31	11.88	12.55	12.78	12.92	13.09
EPACT Legislative Alternative Sales	262.91	257.76	259.04	264.06	267.72	273.37	272.97	277.39	279.64	280.81	286.70	289.41	292.71
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	89.04	132.97	134.98	134.57	191.11	192.48	185.47	257.94	230.87	210.98
Total Vehicles Sales	16094.1	15902.0	16146.9	16415.9	16575.5	16853.2	16819.2	17078.2	17215.0	17214.9	17485.0	17561.6	17668.6

Table 45. Light-Duty Vehicle Sales by Technology Type (Thousands) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
New Car Sales 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	6927.7	6974.3	7039.0	7082.0	7078.5	7096.8	7110.7	7151.8	7198.5	7225.4	7259.1	-0.2%
TDI Diesel ICE	23.7	24.6	25.5	26.3	26.9	28.1	28.8	29.8	31.6	32.2	33.2	7.1%
Total Conventional	6951.4	6998.9	7064.5	7108.3	7105.4	7124.9	7139.5	7181.6	7230.1	7257.6	7292.3	-0.2%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	477.2	480.1	484.2	486.1	484.3	484.5	484.6	486.6	489.5	490.9	492.9	1.4%
Ethanol ICE	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	4.5%
Electric Vehicle	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.4%
Electric-Diesel Hybrid	73.4	74.6	75.8	76.6	76.8	78.0	78.2	78.7	80.5	80.1	79.8	N/A
Electric-Gasoline Hybrid	387.6	392.0	397.5	401.1	401.6	403.2	404.4	407.5	410.6	412.0	414.9	11.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2%
Compressed Natural Gas Bi-fuel	10.5	10.6	10.8	10.8	10.8	10.8	10.9	10.9	11.0	11.1	11.2	0.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	35.0	35.2	35.6	35.8	35.8	35.9	36.0	36.2	36.5	36.6	36.8	-0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	1.5	1.8	1.8	3.5	3.3	3.1	3.1	3.0	2.9	3.2	3.1	N/A
Total Alternatives	988.4	997.6	1009.0	1017.4	1016.0	1019.1	1020.7	1026.6	1034.8	1037.7	1042.5	3.8%
Percent Alternative Car Sales	12.45	12.48	12.50	12.52	12.51	12.51	12.51	12.51	12.52	12.51	12.51	3.7%
Total New Car Sales	7939.8	7996.5	8073.5	8125.7	8121.4	8144.1	8160.3	8208.2	8264.8	8295.3	8334.8	0.1%
New Light Truck Sales 2/												
Conventional Vehicles												
Gasoline ICE Vehicles	7617.8	7769.3	7920.6	8057.6	8138.9	8221.2	8354.1	8513.8	8670.6	8872.6	9056.6	1.2%
TDI Diesel ICE	725.6	753.4	778.9	799.9	815.0	845.5	863.4	889.1	937.7	946.4	959.9	4.8%
Total Conventional	8343.4	8522.7	8699.5	8857.4	8953.9	9066.7	9217.5	9402.8	9608.3	9819.0	10016.6	1.4%
Alternative-Fuel Vehicles												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	775.5	794.9	814.8	833.3	844.1	855.3	873.5	896.7	920.0	949.1	974.9	4.7%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric Vehicle	7.6	8.1	8.3	12.4	12.1	12.0	12.2	12.3	12.2	13.1	13.1	6.4%
Electric-Diesel Hybrid	29.8	31.0	45.3	46.6	47.6	91.0	93.1	95.8	100.1	101.4	103.3	N/A
Electric-Gasoline Hybrid	394.1	406.4	412.7	424.7	434.2	424.8	437.6	453.1	469.3	487.4	507.7	N/A
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Compressed Natural Gas Bi-fuel	38.3	39.2	40.1	40.9	41.3	42.0	42.7	43.6	44.6	45.7	46.6	1.9%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.4%
Liquefied Petroleum Gas Bi-fuel	127.5	130.3	133.2	135.8	137.4	139.5	142.0	145.0	148.3	151.8	155.1	1.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	2.0	2.1	2.3	4.6	4.5	4.4	4.6	4.7	4.6	5.1	5.0	N/A
Total Alternatives	1374.9	1412.1	1456.9	1498.3	1521.2	1569.0	1605.8	1651.1	1699.1	1753.6	1805.9	6.1%
Percent Alternative Light Truck Sales	14.15	14.21	14.34	14.47	14.52	14.75	14.84	14.94	15.03	15.15	15.27	4.1%
Total New Truck Sales	9718.2	9934.8	10156.4	10355.8	10475.1	10635.7	10823.2	11053.9	11307.4	11572.6	11822.4	1.9%
Percent Total Alternative Sales	13.38	13.44	13.53	13.61	13.64	13.78	13.84	13.90	13.97	14.05	14.13	4.0%
EPACT Legislative Alternative Sales	293.88	299.61	305.60	310.87	313.79	317.90	322.64	328.65	335.29	342.04	348.47	1.4%
ZEVP Legislative Alternative Sales	316.04	334.97	343.98	487.94	475.96	472.94	481.50	484.43	480.27	510.68	509.78	N/A
Total Vehicles Sales	17658.1	17931.3	18229.9	18481.4	18596.5	18779.8	18983.5	19262.2	19572.2	19867.9	20157.2	1.1%

Table 45. Light-Duty Vehicle Sales by Technology Type (Thousands) United States

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 46. Light-Duty Vehicle Stock by Technology Type (Millions)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Light-Duty Car Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	126.64	127.39	128.12	128.71	129.16	129.35	129.39	129.35	129.17	128.85	128.55	128.20	127.81
TDI Diesel ICE	0.51	0.47	0.44	0.42	0.40	0.39	0.38	0.37	0.37	0.37	0.37	0.37	0.37
Total Conventional	127.15	127.86	128.56	129.13	129.56	129.74	129.77	129.72	129.54	129.22	128.92	128.57	128.18
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	1.30	1.65	2.00	2.34	2.67	3.06	3.43	3.78	4.19	4.57	4.93	5.27	5.59
Ethanol ICE	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas Technology													
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.03	0.04	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.10	0.14	0.18	0.22	0.25	0.28	0.31	0.34	0.37	0.39	0.41	0.43	0.45
Electric Technology													
Electric Vehicle	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.11	0.17	0.24
Electric-Gasoline Hybrid	0.04	0.08	0.16	0.24	0.31	0.55	0.79	1.10	1.41	1.77	2.13	2.48	2.83
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Alternatives	1.49	1.94	2.42	2.89	3.34	4.01	4.66	5.37	6.14	6.94	7.75	8.54	9.30
Total Car Stock	128.64	129.80	130.98	132.02	132.90	133.76	134.43	135.08	135.68	136.17	136.67	137.11	137.48
Light-Duty Truck Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	68.03	71.71	75.00	78.30	81.76	85.02	88.18	91.36	94.45	97.38	100.32	103.17	105.94
TDI Diesel ICE	2.64	2.89	3.46	4.04	4.58	5.08	5.57	6.03	6.54	7.02	7.48	7.93	8.37
Total Conventional	70.68	74.60	78.46	82.34	86.34	90.09	93.74	97.39	100.99	104.40	107.80	111.10	114.31
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	1.14	1.49	1.82	2.17	2.53	3.18	3.82	4.47	5.12	5.75	6.37	6.98	7.57
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.37	0.40	0.42	0.45
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.29	0.39	0.48	0.59	0.69	0.79	0.89	0.99	1.09	1.18	1.27	1.36	1.44
Electric Technology													
Electric Vehicle	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.11	0.23	0.43	0.64	0.89	1.16	1.48	1.81	2.15	2.51
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Total Alternatives	1.56	2.03	2.49	3.09	3.70	4.69	5.67	6.71	7.75	8.83	9.91	10.98	12.03
Total Truck Stock	72.23	76.63	80.95	85.42	90.04	94.78	99.42	104.10	108.74	113.23	117.71	122.08	126.34
Total Vehicle Stock	200.88	206.43	211.94	217.45	222.94	228.54	233.85	239.19	244.41	249.39	254.38	259.18	263.82

Table 46. Light-Duty Vehicle Stock by Technology Type (Millions)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Light-Duty Car Stock 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	127.34	126.94	126.61	126.35	126.09	125.87	125.69	125.56	125.49	125.45	125.47	-0.1%
TDI Diesel ICE	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.42	0.43	0.44	0.45	-0.1%
Total Conventional	127.72	127.31	126.99	126.73	126.49	126.28	126.10	125.98	125.92	125.89	125.92	-0.1%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.8%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	5.88	6.15	6.40	6.64	6.85	7.04	7.21	7.37	7.51	7.64	7.76	7.3%
Ethanol ICE	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	7.3%
Natural Gas Technology												
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7%
Compressed Natural Gas Bi-fuel	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	6.3%
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.54	0.55	0.56	0.56	6.5%
Electric Technology												
Electric Vehicle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4.9%
Electric-Diesel Hybrid	0.31	0.39	0.46	0.53	0.60	0.67	0.74	0.80	0.86	0.92	0.97	N/A
Electric-Gasoline Hybrid	3.18	3.51	3.83	4.14	4.44	4.71	4.97	5.21	5.43	5.64	5.83	21.4%
Fuel Cell Technology												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	N/A
Total Alternatives	10.03	10.73	11.40	12.03	12.63	13.18	13.69	14.16	14.60	15.01	15.38	9.9%
Total Car Stock	137.75	138.04	138.39	138.77	139.11	139.45	139.79	140.14	140.52	140.90	141.30	0.4%
Light-Duty Truck Stock 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	108.54	111.12	113.67	116.18	118.59	120.93	123.22	125.50	127.79	130.12	132.50	2.8%
TDI Diesel ICE	8.80	9.22	9.64	10.06	10.46	10.87	11.27	11.66	12.08	12.48	12.87	7.0%
Total Conventional	117.34	120.34	123.31	126.24	129.06	131.79	134.49	137.17	139.87	142.60	145.37	3.1%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.3%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	8.13	8.68	9.22	9.73	10.23	10.70	11.15	11.60	12.03	12.46	12.89	10.3%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Technology												
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9%
Compressed Natural Gas Bi-fuel	0.47	0.49	0.51	0.53	0.55	0.57	0.59	0.60	0.62	0.63	0.65	7.1%
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.9%
Liquefied Petroleum Gas Bi-fuel	1.52	1.59	1.67	1.74	1.80	1.86	1.92	1.98	2.04	2.09	2.15	8.1%
Electric Technology												
Electric Vehicle	0.06	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.14	0.15	11.9%
Electric-Diesel Hybrid	0.03	0.06	0.11	0.15	0.20	0.29	0.38	0.47	0.57	0.66	0.76	N/A
Electric-Gasoline Hybrid	2.86	3.22	3.56	3.91	4.25	4.56	4.86	5.16	5.46	5.75	6.04	N/A
Fuel Cell Technology												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	N/A
Total Alternatives	13.09	14.13	15.16	16.17	17.15	18.11	19.05	19.97	20.88	21.79	22.68	11.6%
Total Truck Stock	130.42	134.47	138.47	142.41	146.21	149.91	153.54	157.14	160.75	164.39	168.05	3.6%
Total Vehicle Stock	268.17	272.51	276.86	281.18	285.32	289.36	293.32	297.28	301.27	305.29	309.35	1.9%

Table 46. Light-Duty Vehicle Stock by Technology Type (Millions)

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2003 derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 23 and Annual (Oak Ridge, TN, September 2003); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (Miles per Gallon Gasoline Equivalent)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	28.03	29.49	29.48	29.12	29.00	29.10	28.88	29.14	29.42	29.48	29.57	29.66	29.70
TDI Diesel ICE	40.57	42.46	39.79	39.25	38.67	37.31	36.93	37.00	37.86	37.87	37.88	37.94	38.00
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	27.26	28.47	28.48	28.33	28.25	28.28	28.02	28.25	28.52	28.56	28.64	28.72	28.78
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	28.08	29.57	29.58	29.28	29.16	28.26	28.03	28.27	29.11	29.16	29.24	29.34	29.42
Ethanol ICE	27.78	29.03	29.03	28.87	28.78	28.79	28.53	28.76	29.03	29.07	29.14	29.23	29.30
Natural Gas Technology													
Compressed Natural Gas ICE	27.63	28.50	28.49	28.18	28.03	28.05	27.82	28.03	28.27	28.31	28.37	28.45	28.50
Compressed Natural Gas Bi-fuel	30.19	31.67	31.69	28.00	27.80	27.71	27.48	27.71	27.96	28.05	28.16	28.24	28.30
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.00	0.00	0.00	27.88	27.60	27.45	27.23	27.43	27.70	27.79	27.89	27.99	28.06
Electric Technology													
Electric Vehicle	32.21	33.23	36.58	40.23	44.80	47.26	46.62	54.22	54.24	54.19	54.08	54.06	54.02
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.11	49.91	47.14	46.96	45.90
Electric-Gasoline Hybrid	43.29	45.57	45.60	45.19	44.67	40.99	40.51	39.65	39.44	40.32	40.31	40.28	40.31
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	38.97	38.96	38.96	38.92	38.90	38.87	38.83
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	63.03	62.18	61.43	60.57	60.58	60.62	60.57	60.53	50.68	50.64
Average New Car MPG	28.90	29.50	29.75	29.24	29.11	29.30	29.09	29.41	29.74	29.89	30.00	30.11	30.17
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	20.73	21.47	21.47	21.48	21.35	22.36	22.15	22.26	22.38	22.46	22.54	22.64	22.74
TDI Diesel ICE	24.75	25.36	27.05	27.00	26.71	28.03	27.68	27.73	28.42	28.44	28.46	28.47	28.50
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	20.09	20.83	20.88	20.62	20.42	22.01	21.82	21.94	22.08	22.18	22.29	22.40	22.52
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Technology													
Compressed Natural Gas ICE	19.84	20.34	20.37	20.43	20.33	21.16	20.93	20.98	21.11	21.16	21.21	21.28	21.33
Compressed Natural Gas Bi-fuel	18.74	19.22	19.26	19.32	19.21	19.93	19.72	19.77	19.91	19.96	20.01	20.05	20.11
Liquefied Petroleum Gas ICE	19.11	19.62	19.63	19.69	19.65	20.53	20.33	20.42	20.59	20.66	20.74	20.84	20.91
Liquefied Petroleum Gas Bi-fuel	18.76	19.26	19.29	19.34	19.23	20.04	19.84	19.91	20.07	20.14	20.22	20.27	20.36
Electric Technology													
Electric Vehicle	26.48	27.29	30.02	27.81	30.76	35.48	34.93	34.91	34.80	34.68	34.65	34.53	34.43
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	32.56	31.84	33.63	33.17	31.96	31.88	31.44	31.35	31.28	31.22
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.58	37.62	38.53
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	46.20	45.12	46.30	45.63	45.54	45.44	45.35	45.26	45.18	44.97
Average New Truck MPG	21.30	21.80	21.79	21.89	21.72	22.81	22.59	22.70	22.88	22.99	23.08	23.17	23.28

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (Miles per Gallon Gasoline Equivalent)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Fleet Average Stock Car MPG 2/	22.04	22.16	22.26	22.28	22.35	22.42	22.49	22.56	22.65	22.74	22.84	22.95	23.07
Fleet Average Stock Truck MPG 2/	17.06	17.12	17.19	17.23	17.27	17.40	17.51	17.61	17.70	17.80	17.89	17.97	18.06
Fleet Average Stock Vehicle MPG 2/	19.95	19.98	20.01	19.98	19.98	20.03	20.06	20.10	20.14	20.19	20.25	20.30	20.36

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (Miles per Gallon Gasoline Equivalent)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Automobiles 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	29.77	29.85	29.92	29.97	30.04	30.12	30.21	30.30	30.38	30.42	30.49	0.2%
TDI Diesel ICE	38.06	38.14	38.22	38.27	38.35	38.44	38.52	38.63	38.75	38.81	38.93	-0.4%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	28.85	28.91	28.98	29.05	29.12	29.19	29.29	29.37	29.44	29.50	29.56	0.2%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	29.50	29.60	29.70	29.78	29.87	29.97	30.08	30.18	30.28	30.34	30.42	0.1%
Ethanol ICE	29.37	29.44	29.51	29.57	29.64	29.71	29.81	29.89	29.97	30.03	30.09	0.2%
Natural Gas Technology												
Compressed Natural Gas ICE	28.54	28.60	28.65	28.70	28.76	28.83	28.93	29.00	29.07	29.10	29.15	0.1%
Compressed Natural Gas Bi-fuel	28.39	28.47	28.54	28.60	28.66	28.74	28.82	28.87	28.93	28.96	28.99	-0.4%
Liquefied Petroleum Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	28.16	28.26	28.36	28.44	28.52	28.61	28.70	28.77	28.85	28.89	28.94	N/A
Electric Technology												
Electric Vehicle	53.78	53.68	53.60	53.39	53.31	53.23	53.24	53.24	53.24	53.26	53.27	2.2%
Electric-Diesel Hybrid	45.76	45.66	45.59	45.53	45.50	45.47	45.47	45.48	45.49	45.48	45.49	N/A
Electric-Gasoline Hybrid	40.30	40.30	40.31	40.31	40.33	40.36	40.39	40.42	40.45	40.44	40.47	-0.5%
Fuel Cell Technology												
Fuel Cell Gasoline	38.80	38.77	38.74	38.72	38.71	38.68	38.71	38.73	38.75	38.78	38.80	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	50.61	49.81	49.76	49.72	49.68	49.65	49.69	49.75	49.84	49.91	50.01	N/A
Average New Car MPG	30.25	30.33	30.41	30.47	30.53	30.61	30.71	30.79	30.88	30.92	30.99	0.2%
Light-Duty Trucks 1/												
Conventional Vehicles												
Gasoline ICE Vehicles	22.85	22.97	23.10	23.21	23.31	23.43	23.56	23.68	23.81	23.91	24.01	0.5%
TDI Diesel ICE	28.54	28.59	28.66	28.70	28.74	28.80	28.89	28.96	29.03	29.09	29.15	0.6%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol-Flex Fuel ICE	22.66	22.80	22.94	23.07	23.19	23.32	23.46	23.59	23.73	23.83	23.94	0.6%
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Technology												
Compressed Natural Gas ICE	21.41	21.51	21.62	21.72	21.81	21.90	22.01	22.12	22.23	22.32	22.39	0.4%
Compressed Natural Gas Bi-fuel	20.19	20.28	20.37	20.44	20.50	20.59	20.68	20.76	20.86	20.90	20.96	0.4%
Liquefied Petroleum Gas ICE	21.01	21.13	21.27	21.39	21.49	21.60	21.75	21.87	22.01	22.13	22.22	0.6%
Liquefied Petroleum Gas Bi-fuel	20.46	20.57	20.70	20.79	20.87	20.97	21.08	21.19	21.31	21.38	21.47	0.5%
Electric Technology												
Electric Vehicle	34.45	34.39	34.32	35.38	35.18	35.03	35.10	35.08	35.01	35.27	35.23	1.2%
Electric-Diesel Hybrid	40.40	40.26	37.16	37.06	36.99	38.15	38.11	38.09	38.10	38.11	38.15	N/A
Electric-Gasoline Hybrid	30.97	30.95	31.01	31.01	31.02	30.97	31.03	31.09	31.14	31.17	31.21	N/A
Fuel Cell Technology												
Fuel Cell Gasoline	38.46	38.40	38.33	38.26	38.19	38.12	38.12	38.13	38.12	38.11	38.10	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	44.88	44.80	44.72	44.63	44.56	44.48	44.49	44.51	44.53	44.54	44.56	N/A
Average New Truck MPG	23.42	23.55	23.68	23.80	23.90	24.05	24.18	24.30	24.45	24.54	24.64	0.6%

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (Miles per Gallon Gasoline Equivalent)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Fleet Average Stock Car MPG 2/	23.18	23.30	23.42	23.55	23.68	23.81	23.94	24.07	24.13	24.19	24.25	0.4%
Fleet Average Stock Truck MPG 2/	18.13	18.21	18.29	18.36	18.43	18.50	18.57	18.64	18.74	18.84	18.94	0.5%
Fleet Average Stock Vehicle MPG 2/	20.41	20.48	20.54	20.60	20.67	20.73	20.79	20.86	20.92	20.98	21.05	0.2%

Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (Miles per Gallon Gasoline Equivalent)

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.

2/ Stock values are on-road efficiencies. Includes personal vehicles, fleet vehicles, and freight light trucks.

MPG = Miles per Gallon.

ICE = Internal combustion engine.

Sources: 2003 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type (Billion Miles, Unless Otherwise Noted)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Conventional Vehicles 1/													
Gasoline ICE Vehicles	2474.5	2503.5	2509.1	2528.9	2570.1	2618.1	2664.9	2711.0	2753.3	2790.9	2828.8	2866.8	2906.2
TDI Diesel ICE	38.6	40.7	46.6	52.8	58.8	64.8	70.7	76.4	82.7	88.7	94.5	100.2	105.9
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	32.8	42.2	51.1	59.8	68.0	80.5	92.8	105.0	117.9	130.3	142.5	154.3	165.9
Ethanol ICE	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas Technology													
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.8	3.6	4.3	5.0	5.5	6.0	6.4	6.9	7.4	7.8	8.2	8.6	9.0
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	7.6	10.3	13.0	15.6	17.4	19.1	20.7	22.3	23.8	25.2	26.7	28.0	29.4
Electric Technology													
Electric Vehicle	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	1.3
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.3	2.1	2.9
Electric-Gasoline Hybrid	0.5	1.0	1.9	4.1	6.4	11.6	16.9	23.8	30.7	39.0	47.4	56.0	64.7
Fuel Cell Technology													
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
VMT Equation Components													
Total VMT (billion miles)	2557.4	2602.0	2626.7	2666.9	2727.1	2801.0	2873.6	2946.6	3017.4	3083.8	3150.8	3217.5	3285.7
VMT/Driving Population (thousand miles)	11.4	11.5	11.5	11.5	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	13.0
Driving Population (million)	223.9	226.5	229.1	231.7	234.4	237.0	239.5	241.8	244.1	246.3	248.5	250.5	252.5
Price Effects													
Motor Gasoline Price (1987 \$/million Btu)	7.82	8.93	10.12	9.91	9.41	8.93	8.78	8.59	8.50	8.52	8.44	8.44	8.45
Fleet Miles per Gallon	20.08	20.08	20.08	20.03	20.02	20.06	20.10	20.14	20.18	20.23	20.29	20.35	20.41
Real Cost of Driving per Mile (1987 cents)	6.653	7.598	8.609	8.449	8.033	7.606	7.467	7.288	7.197	7.192	7.110	7.088	7.072
Point Price Elasticity	-0.046	-0.053	-0.060	-0.058	-0.055	-0.051	-0.050	-0.048	-0.046	-0.046	-0.045	-0.044	-0.043
Income Effects													
Disposable Income (billion 1987 dollars)	6573.5	6724.8	6980.0	7173.4	7409.6	7655.8	7882.3	8105.9	8341.9	8581.0	8834.9	9120.5	9432.5
Point Income Elasticity	431.872	435.135	448.313	454.791	460.533	464.301	466.744	468.673	471.370	474.628	478.323	483.409	489.353
Demographic Driving Population Effect													
Percentage Female Driving Population	0.617	0.624	0.630	0.636	0.641	0.646	0.650	0.654	0.658	0.661	0.664	0.666	0.668
Point Demographic Elasticity	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type (Billion Miles, Unless Otherwise Noted)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Conventional Vehicles 1/												
Gasoline ICE Vehicles	2945.6	2984.5	3022.6	3060.5	3098.2	3136.3	3178.1	3222.7	3269.8	3323.2	3378.6	1.4%
TDI Diesel ICE	111.7	117.4	123.1	128.7	134.2	139.8	145.6	151.5	157.8	164.2	170.6	6.7%
Alternative-Fuel Vehicles												
Alcohol Fuel Technology												
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol-Flex Fuel ICE	177.0	187.8	198.2	208.1	217.6	226.6	235.6	244.4	253.2	262.2	271.1	8.8%
Ethanol ICE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	7.5%
Natural Gas Technology												
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1%
Compressed Natural Gas Bi-fuel	9.4	9.7	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	5.9%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7%
Liquefied Petroleum Gas Bi-fuel	30.6	31.9	33.1	34.2	35.3	36.4	37.4	38.4	39.4	40.5	41.5	6.5%
Electric Technology												
Electric Vehicle	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	8.2%
Electric-Diesel Hybrid	4.2	5.5	7.0	8.5	9.9	12.0	14.0	16.0	18.1	20.1	22.2	N/A
Electric-Gasoline Hybrid	73.5	82.3	90.8	99.2	107.3	115.0	122.5	130.0	137.4	144.8	152.1	25.7%
Fuel Cell Technology												
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	N/A
VMT Equation Components												
Total VMT (billion miles)	3353.7	3420.9	3486.8	3551.8	3615.7	3679.7	3747.3	3817.7	3890.9	3970.8	4052.5	2.0%
VMT/Driving Population (thousand miles)	13.2	13.3	13.5	13.6	13.7	13.9	14.0	14.2	14.3	14.5	14.7	1.1%
Driving Population (million)	254.5	256.6	258.8	260.9	263.1	265.3	267.4	269.7	271.9	274.2	276.5	0.9%
Price Effects												
Motor Gasoline Price (1987 \$/million Btu)	8.46	8.51	8.55	8.57	8.60	8.65	8.67	8.71	8.78	8.78	8.85	0.0%
Fleet Miles per Gallon	20.47	20.54	20.60	20.67	20.74	20.81	20.88	20.95	21.02	21.08	21.15	0.2%
Real Cost of Driving per Mile (1987 cents)	7.066	7.076	7.092	7.083	7.083	7.098	7.095	7.105	7.140	7.115	7.148	-0.3%
Point Price Elasticity	-0.043	-0.042	-0.042	-0.041	-0.041	-0.041	-0.040	-0.040	-0.040	-0.039	-0.039	-1.4%
Income Effects												
Disposable Income (billion 1987 dollars)	9731.7	10021.5	10289.5	10558.7	10825.9	11115.1	11448.6	11798.0	12182.5	12605.8	13034.4	3.1%
Point Income Elasticity	494.425	499.036	502.800	506.603	510.333	514.970	520.989	527.155	534.290	541.968	549.347	1.1%
Demographic Driving Population Effect												
Percentage Female Driving Population	0.670	0.672	0.674	0.675	0.676	0.677	0.677	0.677	0.677	0.677	0.677	0.4%
Point Demographic Elasticity	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	N/A

Table 48. Light-Duty Vehicle Miles Traveled by Technology Type (Billion Miles, Unless Otherwise Noted)

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.

VMT = Vehicle miles traveled.

ICE = Internal combustion engine.

MmBtu = Million British thermal units.

N/A = Not applicable.

Sources: 2003 derived using: Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, Transportation Energy Data Book: 23 and Annual (Oak Ridge, TN, September 2003); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (miles per gallon)													
Minicompact	24.927	26.380	26.406	26.254	26.499	26.808	26.646	26.999	27.334	27.398	27.457	27.528	27.599
Subcompact	30.967	32.452	32.441	32.219	32.061	32.018	31.715	31.924	32.243	32.306	32.406	32.493	32.537
Compact	30.205	31.752	31.770	31.604	31.524	31.494	31.212	31.470	31.805	31.903	32.049	32.123	32.156
Midsized	26.742	27.918	27.933	27.790	27.725	27.766	27.515	27.752	28.014	28.055	28.121	28.198	28.235
Large	25.244	25.881	25.881	25.711	25.651	25.732	25.514	25.716	25.972	26.029	26.122	26.218	26.264
Two Seater	25.064	25.807	25.814	25.660	25.661	25.813	25.621	25.895	26.173	26.251	26.353	26.456	26.550
Average New Car	27.983	29.489	29.475	29.086	28.960	29.069	28.864	29.130	29.403	29.465	29.552	29.646	29.689
Average New Car On-Road MPG	21.043	22.250	22.315	22.038	22.015	22.173	22.092	22.368	22.650	22.771	22.917	23.067	23.178
Conventional Light Trucks (miles per gallon)													
Small Pickup	22.678	23.626	23.634	23.716	23.601	25.005	24.743	24.807	24.923	24.989	25.073	25.184	25.345
Large Pickup	19.078	19.602	19.618	19.657	19.522	20.302	20.115	20.207	20.381	20.460	20.550	20.648	20.727
Small Van	23.493	24.343	24.331	24.299	24.113	25.302	25.021	25.067	25.155	25.201	25.247	25.307	25.377
Large Van	18.242	18.733	18.766	18.823	18.813	19.692	19.505	19.599	19.776	19.856	19.944	20.012	20.112
Small Utility	21.624	22.559	22.558	22.584	22.491	23.967	23.730	23.818	23.967	24.040	24.129	24.228	24.332
Large Utility	17.676	18.053	18.082	18.129	18.118	18.990	18.823	18.938	19.117	19.202	19.295	19.381	19.486
Average New Light Truck	20.855	21.618	21.628	21.637	21.500	22.521	22.312	22.417	22.534	22.620	22.704	22.798	22.900
Average New Light Truck On-Road MPG	17.111	17.707	17.686	17.618	17.476	18.277	18.078	18.131	18.192	18.230	18.270	18.315	18.368
Degradation Factors 1/													
Cars	0.752	0.755	0.757	0.758	0.760	0.763	0.765	0.768	0.770	0.773	0.775	0.778	0.781
Light Trucks	0.820	0.819	0.818	0.814	0.813	0.812	0.810	0.809	0.807	0.806	0.805	0.803	0.802
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	0.00	0.00	0.00	0.00	0.00	44.49	43.90	43.98	44.06	44.03	43.99	43.95	43.91
Subcompact	0.000	0.000	0.000	63.034	62.181	61.433	60.573	57.059	32.107	37.003	36.978	37.038	37.134
Compact	32.079	34.754	36.462	36.405	36.302	36.231	36.013	36.308	37.596	37.791	37.996	38.164	38.301
Midsized	27.004	28.198	28.208	28.056	27.980	32.370	32.093	32.284	32.508	32.578	33.153	33.283	33.360
Large	27.213	27.875	27.868	25.791	25.544	25.602	25.344	29.469	29.653	29.781	29.911	30.053	30.645
Two Seater	36.052	37.147	37.115	36.775	36.394	36.133	35.748	35.852	35.987	35.972	35.969	35.968	35.967
Average New Alternative Cars	28.729	30.971	32.042	31.512	31.360	32.111	31.936	32.620	33.059	33.824	34.127	34.287	34.485
Alternative-Fuel Light Trucks													
Small Pickup	22.895	23.854	23.856	23.928	23.800	25.234	24.974	25.046	25.168	25.239	25.331	25.447	25.613
Large Pickup	19.269	19.798	19.811	19.847	19.715	20.515	20.333	20.435	20.622	20.075	23.229	23.421	23.606
Small Van	23.723	24.584	24.571	24.534	24.340	29.551	29.155	29.137	29.309	29.338	29.359	29.398	29.455
Large Van	19.032	19.510	19.569	18.927	18.821	19.370	19.191	19.433	19.663	19.743	20.067	20.091	20.195
Small Utility	25.207	26.182	28.804	32.557	31.848	25.264	25.019	25.154	25.346	25.460	25.670	25.791	25.943
Large Utility	17.852	18.232	18.259	18.307	18.295	19.210	19.046	20.974	21.140	21.246	21.339	21.438	21.558
Average New Alt. Light Trucks	20.143	20.933	21.009	23.076	22.832	24.254	24.073	24.339	24.479	24.808	24.945	25.062	25.199
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	28.240	29.486	29.498	29.268	29.179	29.139	28.875	29.108	29.428	29.488	29.581	29.663	29.705
Light Trucks	19.697	20.256	20.279	20.283	20.199	21.136	20.931	21.021	21.181	21.255	21.337	21.417	21.511
Average On-Road MPG													
Cars	21.082	21.412	21.751	22.005	22.253	22.291	22.266	22.303	22.416	22.549	22.756	22.941	23.080
Light Trucks	16.164	16.229	16.244	16.300	16.352	16.558	16.652	16.741	16.850	16.978	17.004	17.048	17.099
New Vehicle Sales Shares (percent)													
Conventional Cars													
Minicompact	0.355	0.430	0.422	0.375	0.364	0.363	0.375	0.372	0.376	0.380	0.376	0.379	0.379
Subcompact	13.552	15.999	15.868	14.138	13.746	13.745	14.201	14.173	14.305	14.467	14.350	14.426	14.423
Compact	32.206	35.885	35.817	33.141	32.583	32.590	33.263	33.162	33.379	33.595	33.401	33.584	33.600

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Midsize	35.903	32.607	32.659	35.099	35.599	35.607	35.010	35.073	34.886	34.690	34.855	34.707	34.700
Large	16.267	13.411	13.576	15.535	15.985	15.977	15.444	15.515	15.352	15.172	15.318	15.208	15.203
Two Seater	1.718	1.667	1.657	1.712	1.723	1.719	1.706	1.705	1.702	1.697	1.700	1.697	1.697
Conventional Light Trucks													
Small Pickup	13.058	11.315	11.419	12.607	12.486	12.480	12.530	12.657	12.552	12.447	12.532	12.460	12.441
Large Pickup	21.570	21.646	21.533	21.623	21.384	21.456	21.581	21.629	21.617	21.638	21.631	21.613	21.610
Small Van	16.904	19.378	19.395	17.533	16.778	16.817	17.501	17.515	17.654	17.804	17.680	17.781	17.796
Large Van	2.487	2.497	2.489	2.496	2.375	2.403	2.475	2.496	2.493	2.499	2.497	2.496	2.492
Small Utility	32.165	31.368	31.371	31.941	32.822	32.733	32.057	31.922	31.896	31.831	31.874	31.856	31.861
Large Utility	13.816	13.795	13.792	13.801	14.156	14.110	13.856	13.780	13.789	13.781	13.785	13.794	13.800
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	248.673	244.816	245.168	249.745	255.934	261.571	266.486	268.236	269.755	271.228	272.833	274.435	276.009
Subcompact	152.365	150.430	150.723	154.281	158.846	163.591	167.146	169.109	170.955	172.352	173.895	175.425	176.911
Compact	143.665	141.458	141.950	145.925	151.120	155.553	159.127	161.212	162.920	164.522	166.372	168.166	169.945
Midsize	185.591	183.527	184.142	189.340	195.571	201.494	206.087	209.012	211.446	213.386	215.552	217.727	219.858
Large	226.299	223.838	224.176	228.159	233.317	238.858	243.442	245.300	246.973	248.454	250.149	251.873	253.574
Two Seater	269.937	268.125	268.604	273.265	279.371	286.097	291.185	292.831	294.159	295.266	296.456	297.679	298.861
Average New Car	175.880	170.215	170.819	177.688	183.736	188.954	192.384	194.785	196.537	197.963	200.038	201.744	203.572
Conventional Light Trucks													
Small Pickup	170.646	169.603	170.159	174.177	181.005	191.810	195.221	196.480	197.727	198.808	199.981	201.193	202.453
Large Pickup	233.155	232.477	233.185	237.229	246.413	259.387	263.642	264.998	266.596	267.703	268.799	269.954	271.150
Small Van	189.666	188.212	188.646	191.561	199.659	208.612	212.546	214.137	215.639	216.918	218.284	219.682	221.119
Large Van	231.413	231.304	232.138	235.620	243.969	256.781	261.132	262.774	264.625	265.929	267.208	268.499	269.944
Small Utility	192.505	189.639	190.088	193.016	200.337	203.239	206.460	207.203	207.937	208.612	209.326	210.047	210.760
Large Utility	253.965	253.825	254.503	257.938	267.545	281.681	286.267	287.845	289.500	290.705	291.865	293.024	294.333
Average New Light Truck	207.398	206.263	206.744	209.969	218.212	227.118	230.869	232.061	233.355	234.402	235.427	236.510	237.629
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3477.708	3423.764	3428.143	3470.383	3510.634	3536.166	3583.502	3577.012	3570.311	3573.105	3576.367	3579.670	3582.731
Subcompact	2780.738	2745.523	2749.028	2783.216	2821.429	2855.770	2896.318	2895.796	2894.120	2896.616	2898.265	2900.090	2902.922
Compact	2836.514	2793.210	2797.020	2832.499	2872.146	2906.131	2947.321	2946.322	2943.285	2946.000	2948.291	2950.261	2952.855
Midsize	3315.816	3278.969	3283.371	3324.267	3368.457	3407.925	3455.198	3455.172	3453.118	3456.433	3459.124	3461.738	3465.033
Large	3690.407	3650.098	3654.599	3698.568	3746.958	3794.237	3846.907	3848.300	3847.766	3851.705	3854.495	3857.198	3860.921
Two Seater	3007.683	2982.331	2986.019	3022.698	3062.061	3100.190	3144.197	3144.569	3146.129	3149.241	3152.336	3155.460	3158.452
Average New Car	3145.154	3064.756	3070.468	3138.328	3187.290	3225.394	3262.562	3263.298	3258.781	3259.173	3263.805	3264.328	3267.303
Conventional Light Trucks													
Small Pickup	3637.990	3615.815	3621.937	3627.981	3717.189	3698.918	3753.835	3761.474	3769.325	3776.669	3783.762	3790.320	3796.540
Large Pickup	4719.376	4705.648	4713.816	4721.604	4837.814	4834.007	4903.723	4913.998	4925.334	4935.770	4945.750	4955.317	4963.435
Small Van	4062.858	4032.080	4038.958	4044.887	4144.706	4094.813	4154.725	4162.916	4171.264	4179.208	4186.953	4194.313	4201.183
Large Van	4761.653	4759.416	4767.750	4773.495	4872.102	4858.319	4928.227	4938.668	4950.317	4961.004	4971.176	4980.069	4988.796
Small Utility	3843.223	3785.611	3791.768	3797.154	3888.500	3788.824	3844.904	3852.804	3861.051	3868.747	3876.180	3883.305	3890.031
Large Utility	5166.147	5163.052	5171.775	5177.314	5285.021	5263.114	5338.520	5350.129	5361.426	5372.781	5383.581	5392.497	5401.917
Average New Light Truck	4248.154	4227.646	4233.490	4233.996	4334.145	4287.044	4349.993	4358.528	4368.398	4378.010	4386.040	4394.271	4401.758
Average Weight for the Stock													
Conventional Cars													
Conventional Cars	3161	3152	3145	3143	3143	3146	3151	3156	3162	3168	3175	3182	3189
Conventional Light Trucks													
Conventional Light Trucks	4072	4092	4111	4129	4152	4169	4189	4208	4225	4242	4258	4273	4286

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Personal Vehicles												
EPA Rated New Vehicle Fuel Efficiency												
Conventional Cars (miles per gallon)												
Minicompact	27.678	27.751	27.828	27.875	27.926	27.987	28.082	28.164	28.250	28.318	28.348	0.3%
Subcompact	32.608	32.682	32.759	32.811	32.870	32.948	33.059	33.148	33.234	33.298	33.352	0.1%
Compact	32.215	32.282	32.353	32.397	32.450	32.519	32.622	32.696	32.767	32.819	32.861	0.2%
Midsized	28.302	28.370	28.439	28.503	28.566	28.634	28.729	28.805	28.880	28.931	28.980	0.2%
Large	26.334	26.411	26.483	26.564	26.645	26.739	26.836	26.926	27.022	27.090	27.158	0.2%
Two Seater	26.655	26.755	26.831	26.898	26.962	27.044	27.135	27.217	27.308	27.385	27.438	0.3%
Average New Car	29.758	29.834	29.906	29.962	30.027	30.105	30.200	30.283	30.367	30.411	30.474	0.1%
Average New Car On-Road MPG	23.303	23.447	23.578	23.702	23.830	23.969	24.121	24.264	24.331	24.366	24.418	0.4%
Conventional Light Trucks (miles per gallon)												
Small Pickup	25.490	25.638	25.763	25.875	25.995	26.124	26.252	26.355	26.481	26.577	26.666	0.6%
Large Pickup	20.827	20.945	21.086	21.207	21.316	21.418	21.547	21.654	21.777	21.879	21.952	0.5%
Small Van	25.456	25.548	25.657	25.728	25.808	25.911	26.030	26.126	26.247	26.346	26.447	0.4%
Large Van	20.227	20.358	20.497	20.594	20.684	20.832	20.979	21.121	21.278	21.378	21.510	0.6%
Small Utility	24.444	24.543	24.663	24.777	24.892	25.021	25.145	25.272	25.414	25.530	25.643	0.6%
Large Utility	19.601	19.721	19.837	19.946	20.035	20.160	20.287	20.405	20.532	20.611	20.707	0.6%
Average New Light Truck	23.015	23.132	23.263	23.373	23.480	23.600	23.729	23.846	23.982	24.085	24.183	0.5%
Average New Light Truck On-Road MPG	18.425	18.494	18.565	18.624	18.677	18.741	18.811	18.871	18.978	19.059	19.138	0.4%
Degradation Factors 1/												
Cars	0.783	0.786	0.788	0.791	0.794	0.796	0.799	0.801	0.801	0.801	0.801	0.3%
Light Trucks	0.801	0.799	0.798	0.797	0.795	0.794	0.793	0.791	0.791	0.791	0.791	-0.2%
New Fuel Efficiency by Size Class 2/												
Alternative-Fuel Cars												
Minicompact	43.89	43.86	43.84	43.81	43.78	43.75	43.79	43.82	43.86	43.89	43.91	N/A
Subcompact	37.267	37.344	37.458	37.596	37.761	37.921	38.091	38.258	38.386	38.477	38.565	N/A
Compact	38.462	38.503	38.549	38.598	38.636	38.682	38.748	38.799	38.864	38.886	38.905	0.5%
Midsized	33.479	33.530	33.588	33.679	33.723	33.777	33.851	33.911	33.973	34.009	34.043	0.9%
Large	30.808	30.931	31.034	31.148	31.250	31.370	31.476	31.572	31.669	31.728	31.784	0.6%
Two Seater	35.974	35.987	36.007	36.029	36.043	36.065	36.115	36.160	36.207	36.238	36.268	-0.1%
Average New Alternative Cars	34.636	34.716	34.796	34.882	34.957	35.043	35.129	35.214	35.302	35.330	35.390	0.6%
Alternative-Fuel Light Trucks												
Small Pickup	25.766	25.920	26.075	26.192	26.319	26.465	26.616	26.730	26.852	26.946	27.033	0.6%
Large Pickup	23.823	23.953	24.095	24.238	24.395	24.560	24.744	24.917	25.106	25.257	25.401	1.1%
Small Van	30.310	30.328	30.368	30.395	30.430	30.491	30.565	30.629	30.704	30.742	30.787	1.0%
Large Van	23.500	23.679	23.835	24.071	24.187	24.349	24.518	24.692	24.886	25.033	25.215	1.2%
Small Utility	26.158	26.305	26.447	26.709	26.814	27.486	27.636	27.766	27.920	28.037	28.144	0.3%
Large Utility	21.697	21.799	22.234	22.314	22.390	22.503	22.611	22.706	22.821	22.873	22.961	1.1%
Average New Alt. Light Trucks	25.596	25.711	25.872	26.028	26.122	26.463	26.591	26.706	26.842	26.926	27.026	1.2%
Fleet Vehicles												
EPA Rated New Vehicle Fuel Efficiency												
Cars	29.774	29.847	29.921	29.984	30.049	30.126	30.227	30.309	30.389	30.446	30.498	0.2%
Light Trucks	21.618	21.736	21.862	21.963	22.056	22.174	22.301	22.414	22.543	22.632	22.728	0.5%
Average On-Road MPG												
Cars	23.207	23.344	23.470	23.605	23.736	23.869	24.006	24.147	24.215	24.279	24.335	0.6%
Light Trucks	17.137	17.192	17.245	17.305	17.362	17.420	17.480	17.537	17.630	17.720	17.809	0.4%
New Vehicle Sales Shares (percent)												
Conventional Cars												
Minicompact	0.379	0.381	0.381	0.380	0.380	0.381	0.380	0.380	0.381	0.378	0.381	-0.5%
Subcompact	14.451	14.496	14.515	14.482	14.501	14.521	14.479	14.503	14.534	14.430	14.531	-0.4%
Compact	33.622	33.672	33.673	33.612	33.633	33.674	33.626	33.666	33.724	33.568	33.720	-0.3%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Midsize	34.680	34.636	34.636	34.691	34.673	34.638	34.674	34.641	34.591	34.727	34.593	0.3%
Large	15.172	15.120	15.098	15.140	15.119	15.093	15.147	15.117	15.078	15.203	15.083	0.5%
Two Seater	1.697	1.696	1.697	1.695	1.694	1.693	1.694	1.693	1.692	1.694	1.691	0.1%
Conventional Light Trucks												
Small Pickup	12.452	12.433	12.431	12.464	12.457	12.441	12.450	12.430	12.411	12.487	12.418	0.4%
Large Pickup	21.618	21.632	21.660	21.666	21.677	21.670	21.657	21.659	21.646	21.637	21.650	0.0%
Small Van	17.805	17.833	17.827	17.789	17.797	17.822	17.800	17.832	17.866	17.775	17.871	-0.4%
Large Van	2.493	2.494	2.496	2.498	2.501	2.499	2.497	2.497	2.496	2.498	2.497	0.0%
Small Utility	31.842	31.823	31.808	31.811	31.801	31.798	31.817	31.804	31.800	31.823	31.787	0.1%
Large Utility	13.791	13.786	13.777	13.772	13.768	13.771	13.779	13.778	13.782	13.781	13.777	0.0%
New Vehicle Average Horsepower												
Conventional Cars												
Minicompact	277.362	278.589	279.726	280.523	281.266	281.956	282.424	282.831	283.255	283.674	284.086	0.7%
Subcompact	178.216	179.403	180.408	181.380	182.288	183.197	183.987	184.591	185.135	185.658	186.024	1.0%
Compact	171.494	172.863	174.077	175.236	176.310	177.398	178.463	179.327	180.177	181.114	181.839	1.1%
Midsize	221.756	223.422	224.853	226.186	227.405	228.590	229.694	230.563	231.395	232.226	232.864	1.1%
Large	255.126	256.511	257.707	258.875	260.014	261.298	262.017	262.704	263.500	264.194	264.688	0.8%
Two Seater	299.886	300.748	301.471	302.153	302.721	303.291	303.605	303.780	303.978	304.206	304.369	0.6%
Average New Car	205.164	206.541	207.774	209.015	210.089	211.166	212.197	212.944	213.665	214.622	215.057	1.1%
Conventional Light Trucks												
Small Pickup	203.674	204.840	205.987	207.124	208.240	209.367	210.136	210.658	210.624	210.605	210.586	1.0%
Large Pickup	272.363	273.497	274.028	274.577	275.084	275.582	275.544	275.465	275.342	275.271	275.215	0.8%
Small Van	222.418	223.647	224.811	225.929	227.031	228.168	228.931	229.350	229.910	230.411	230.937	0.9%
Large Van	271.402	272.895	274.421	275.955	276.750	277.174	277.041	276.832	276.608	276.474	276.324	0.8%
Small Utility	211.480	212.148	212.826	213.468	214.059	214.568	214.670	214.672	214.695	214.723	214.757	0.6%
Large Utility	295.616	296.514	297.144	297.787	298.394	298.975	298.953	298.829	298.681	298.624	298.498	0.7%
Average New Light Truck	238.714	239.706	240.523	241.307	242.050	242.755	242.998	243.105	243.156	243.203	243.294	0.8%
New Vehicle Average Weight												
Conventional Cars												
Minicompact	3584.367	3586.436	3588.272	3590.895	3593.485	3595.444	3592.822	3589.884	3586.707	3584.679	3582.967	0.2%
Subcompact	2905.065	2907.716	2910.262	2912.777	2915.139	2917.491	2916.097	2914.571	2913.070	2911.760	2910.381	0.3%
Compact	2954.545	2956.209	2958.178	2960.080	2961.802	2963.559	2961.561	2959.341	2957.244	2955.564	2953.816	0.3%
Midsize	3467.303	3469.615	3471.880	3474.071	3476.186	3478.302	3476.041	3473.491	3471.006	3469.008	3466.875	0.3%
Large	3864.022	3866.832	3869.592	3871.603	3873.454	3875.901	3873.363	3870.840	3868.722	3866.533	3864.116	0.3%
Two Seater	3160.877	3163.255	3164.921	3167.198	3169.446	3171.600	3169.719	3167.676	3165.696	3164.075	3162.552	0.3%
Average New Car	3269.091	3270.597	3272.664	3275.449	3277.139	3278.800	3277.402	3274.673	3271.898	3271.949	3268.221	0.3%
Conventional Light Trucks												
Small Pickup	3802.374	3808.144	3813.907	3819.916	3825.768	3831.754	3830.895	3830.153	3829.522	3829.187	3828.835	0.3%
Large Pickup	4971.825	4980.362	4988.940	4997.574	5005.382	5012.999	5011.043	5008.707	5006.217	5004.933	5003.911	0.3%
Small Van	4207.958	4214.792	4221.658	4227.907	4233.901	4239.702	4237.258	4234.158	4230.701	4228.134	4225.595	0.2%
Large Van	4997.470	5006.071	5015.079	5023.689	5031.825	5039.526	5037.110	5033.306	5029.237	5026.793	5024.070	0.2%
Small Utility	3896.773	3903.127	3909.575	3916.056	3921.941	3927.627	3925.536	3922.954	3920.949	3919.264	3917.570	0.2%
Large Utility	5410.820	5419.632	5428.678	5437.702	5445.958	5453.820	5450.850	5446.624	5442.062	5439.227	5435.941	0.2%
Average New Light Truck	4409.068	4416.486	4423.992	4431.098	4437.913	4444.471	4442.255	4439.728	4437.158	4434.948	4433.607	0.2%
Average Weight for the Stock												
Conventional Cars	3196	3202	3209	3215	3221	3227	3232	3237	3241	3245	3248	0.1%
Conventional Light Trucks	4300	4312	4324	4335	4345	4357	4366	4374	4382	4388	4394	0.3%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

1/ Conversion factor used to convert Environmental Protection Agency rated to "on road" miles per gallon.

2/ Environmental Protection Agency rated miles per gallon.

Sources: 2003 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Year Fuel Economy Reports from Auto Manufacturers, 1998; Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the U.S. Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (Trillion Btu)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cars 1/													
Conventional Gasoline	711.91	678.69	649.72	598.95	573.22	560.06	543.47	525.61	507.12	491.36	479.96	471.57	466.90
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.44	0.25	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	21.45	28.43	35.59	36.89	36.26	35.49	34.74	33.91	32.84	31.85	30.95	30.23	29.80
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	3.29	4.16	5.00	5.73	6.03	5.94	5.88	5.81	5.65	5.48	5.34	5.23	5.14
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.00	0.00	0.00	23.24	24.23	23.60	22.99	22.31	21.57	20.92	20.39	19.96	19.64
Electric	0.79	0.94	1.05	1.07	0.93	0.84	0.76	0.68	0.62	0.58	0.55	0.53	0.52
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	737.88	712.46	691.50	665.87	640.68	625.94	607.84	588.33	567.81	550.18	537.20	527.51	522.00
Light Trucks 1/													
Conventional Gasoline	742.38	696.36	659.69	608.62	613.10	615.56	624.27	635.59	644.86	651.02	660.78	670.05	678.20
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	26.11	38.07	50.81	63.65	67.81	68.39	69.51	71.01	72.17	72.91	73.89	74.88	75.74
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	15.75	19.06	22.43	25.86	26.03	26.18	26.60	27.15	27.63	27.96	28.42	28.85	29.24
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	41.96	55.21	69.34	83.44	86.21	86.64	87.92	89.64	91.08	92.06	93.44	94.79	95.97
Electric	0.96	1.29	1.59	1.93	2.02	1.95	1.89	1.88	1.86	1.84	1.86	1.90	1.94
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	827.16	810.00	803.86	783.50	795.17	798.72	810.20	825.27	837.59	845.79	858.39	870.46	881.08
Total Fleet Vehicles	1565.04	1522.46	1495.36	1449.37	1435.85	1424.66	1418.03	1413.60	1405.40	1395.97	1395.59	1397.98	1403.08
Commercial Light Trucks 2/	578.04	577.66	599.06	610.09	615.94	626.47	640.09	654.45	665.58	676.04	686.97	697.41	710.98

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (Trillion Btu)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Cars 1/												
Conventional Gasoline	462.30	457.91	455.55	454.38	454.24	453.62	452.04	450.38	450.93	451.68	452.82	-1.8%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28.1%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	29.45	29.16	28.97	28.85	28.77	28.70	28.59	28.47	28.48	28.50	28.54	0.0%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	5.08	5.03	5.00	4.98	4.96	4.95	4.94	4.93	4.94	4.94	4.96	0.8%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	19.38	19.18	19.05	18.95	18.88	18.83	18.77	18.71	18.73	18.75	18.78	N/A
Electric	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.52	0.52	0.52	-2.7%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	516.72	511.80	509.09	507.67	507.36	506.61	504.86	503.01	503.59	504.38	505.61	-1.5%
Light Trucks 1/												
Conventional Gasoline	685.47	693.96	702.75	712.24	721.56	731.69	741.37	751.23	760.40	771.38	783.54	0.5%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	76.48	77.34	78.27	79.25	80.22	81.27	82.32	83.39	84.39	85.56	86.87	3.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	29.59	30.00	30.42	30.87	31.30	31.78	32.25	32.72	33.16	33.68	34.26	2.7%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	97.02	98.25	99.51	100.86	102.17	103.61	105.02	106.45	107.78	109.36	111.11	3.2%
Electric	1.97	2.01	2.05	2.09	2.13	2.17	2.21	2.26	2.30	2.34	2.39	2.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Trucks	890.54	901.55	913.00	925.30	937.38	950.53	963.17	976.05	988.01	1002.33	1018.17	1.0%
Total Fleet Vehicles	1407.26	1413.36	1422.09	1432.97	1444.74	1457.14	1468.03	1479.07	1491.60	1506.71	1523.78	0.0%
Commercial Light Trucks 2/	721.32	729.54	741.61	754.98	768.12	780.27	791.77	803.86	817.10	830.64	843.91	1.7%

Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (Trillion Btu)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not Applicable.

Sources: 2003 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 51. Transportation Fleet Car and Truck Sales by Type and Technology (Thousands)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cars 1/													
Conventional Gasoline	1366.72	1326.39	1328.35	1299.13	1257.87	1225.34	1179.40	1153.82	1121.50	1112.38	1118.39	1112.05	1106.93
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	76.68	74.42	74.53	72.89	70.57	68.75	66.17	64.73	62.92	62.41	62.75	62.39	62.10
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	11.12	10.79	10.81	10.57	10.23	9.97	9.59	9.39	9.12	9.05	9.10	9.05	9.00
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	42.88	41.61	41.68	40.76	39.46	38.44	37.00	36.20	35.19	34.90	35.09	34.89	34.73
Electric	2.27	2.21	2.21	2.16	2.09	2.04	1.96	1.92	1.87	1.85	1.86	1.85	1.84
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	1499.67	1455.42	1457.57	1425.50	1380.23	1344.54	1294.13	1266.06	1230.59	1220.59	1227.18	1220.23	1214.60
Light Trucks 1/													
Conventional Gasoline	806.41	793.40	798.26	824.96	848.52	878.49	886.21	909.70	925.58	932.30	955.36	967.84	982.52
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	84.81	83.44	83.96	86.76	89.24	92.39	93.21	95.68	97.35	98.05	100.48	101.79	103.33
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	31.19	30.68	30.87	31.90	32.82	33.97	34.27	35.18	35.80	36.06	36.95	37.43	38.00
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	103.87	102.19	102.82	106.25	109.29	113.15	114.14	117.17	119.21	120.08	123.05	124.66	126.55
Electric	3.37	3.32	3.34	3.45	3.55	3.67	3.70	3.80	3.87	3.90	3.99	4.05	4.11
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	1029.65	1013.03	1019.24	1053.33	1083.42	1121.68	1131.54	1161.53	1181.80	1190.38	1219.83	1235.77	1254.51
Total Fleet Vehicles	2529.31	2468.45	2476.81	2478.84	2463.65	2466.23	2425.67	2427.60	2412.40	2410.97	2447.02	2456.00	2469.11
Commercial Light Trucks 2/	609.66	604.50	658.86	668.80	691.90	714.94	726.32	751.54	761.96	763.23	757.74	752.36	742.52

Table 51. Transportation Fleet Car and Truck Sales by Type and Technology (Thousands)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Cars 1/												
Conventional Gasoline	1095.82	1103.65	1114.27	1121.48	1120.88	1124.01	1126.25	1132.87	1140.68	1144.89	1150.34	-0.6%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	61.48	61.92	62.52	62.92	62.89	63.06	63.19	63.56	64.00	64.23	64.54	-0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	8.91	8.98	9.06	9.12	9.12	9.14	9.16	9.22	9.28	9.31	9.36	-0.6%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	34.38	34.63	34.96	35.19	35.17	35.26	35.33	35.54	35.79	35.92	36.09	-0.6%
Electric	1.82	1.84	1.85	1.87	1.86	1.87	1.87	1.88	1.90	1.90	1.91	-0.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	1202.42	1211.01	1222.67	1230.57	1229.92	1233.35	1235.81	1243.07	1251.65	1256.26	1262.24	-0.6%
Light Trucks 1/												
Conventional Gasoline	989.64	1011.69	1034.25	1054.56	1066.71	1083.06	1102.16	1125.65	1151.46	1178.47	1203.91	1.9%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	104.08	106.40	108.78	110.91	112.19	113.91	115.92	118.39	121.10	123.94	126.62	1.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	38.27	39.13	40.00	40.78	41.25	41.89	42.62	43.53	44.53	45.58	46.56	1.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	127.46	130.30	133.21	135.83	137.39	139.50	141.96	144.98	148.31	151.79	155.06	1.9%
Electric	4.14	4.23	4.32	4.41	4.46	4.53	4.61	4.70	4.81	4.93	5.03	1.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Trucks	1263.59	1291.75	1320.56	1346.49	1362.01	1382.88	1407.27	1437.26	1470.22	1504.71	1537.18	1.9%
Total Fleet Vehicles	2466.02	2502.75	2543.23	2577.06	2591.93	2616.24	2643.08	2680.34	2721.86	2760.97	2799.43	0.6%
Commercial Light Trucks 2/	740.66	748.56	761.91	771.88	776.71	784.51	792.81	804.65	817.44	829.90	841.92	1.5%

Table 51. Transportation Fleet Car and Truck Sales by Type and Technology (Thousands)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not Applicable.

Sources: 2003 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology (Thousands)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cars 1/													
Conventional Gasoline	6094.74	5901.40	5646.87	5263.20	5108.80	5006.46	4861.66	4720.24	4586.49	4476.99	4417.10	4376.90	4361.32
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	3.72	2.42	1.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	183.62	247.51	308.45	321.68	320.51	313.54	305.20	296.68	288.23	281.23	276.85	273.87	272.29
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	29.86	38.12	46.09	51.91	54.22	52.83	51.52	50.20	48.78	47.56	46.71	46.09	45.71
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	95.04	133.50	170.91	194.57	203.10	198.05	193.08	188.04	182.71	178.17	175.06	172.82	171.46
Electric	7.34	8.85	10.28	10.90	10.30	10.07	9.82	9.55	9.27	9.05	8.89	8.79	8.72
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	6414.32	6331.81	6183.71	5842.34	5696.94	5580.94	5421.28	5264.70	5115.48	4993.00	4924.61	4878.47	4859.50
Light Trucks 1/													
Conventional Gasoline	4889.33	4608.08	4301.39	3981.93	4035.35	4108.95	4198.51	4306.81	4406.70	4489.57	4567.53	4647.16	4720.28
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.10	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	173.11	254.55	335.42	417.37	444.80	452.75	462.02	473.67	484.84	494.16	503.01	511.66	519.89
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	96.92	117.17	137.11	157.72	159.62	162.46	165.96	170.25	174.22	177.53	180.61	183.77	186.67
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	260.62	344.75	428.55	514.58	533.92	543.43	555.05	569.33	582.63	593.72	604.09	614.62	624.34
Electric	8.23	11.10	13.94	16.84	18.11	18.43	18.79	19.26	19.72	20.10	20.47	20.82	21.16
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	5428.30	5335.72	5216.45	5088.44	5191.80	5286.02	5400.33	5539.32	5668.11	5775.08	5875.71	5978.03	6072.33
Total Fleet Vehicles	11842.63	11667.53	11400.17	10930.78	10888.73	10866.96	10821.61	10804.02	10783.59	10768.09	10800.32	10856.50	10931.84
Commercial Light Trucks 2/	5762.21	5936.30	6221.36	6545.50	6901.51	7275.20	7645.29	8017.98	8372.56	8696.16	8980.38	9226.64	9432.74

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology (Thousands)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Cars 1/												
Conventional Gasoline	4343.88	4330.20	4332.92	4347.77	4371.15	4390.63	4402.51	4414.22	4433.62	4454.13	4477.45	-1.2%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	271.00	270.29	270.35	271.05	272.15	273.35	274.26	275.09	276.21	277.42	278.80	0.5%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	45.42	45.31	45.31	45.38	45.50	45.67	45.85	46.02	46.20	46.38	46.60	0.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	170.43	170.01	170.02	170.32	170.81	171.48	172.14	172.75	173.42	174.13	174.94	1.2%
Electric	8.68	8.66	8.66	8.68	8.70	8.74	8.78	8.80	8.84	8.88	8.92	0.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	4839.41	4824.47	4827.26	4843.20	4868.32	4889.88	4903.53	4916.89	4938.29	4960.94	4986.71	-1.1%
Light Trucks 1/												
Conventional Gasoline	4784.16	4861.57	4940.89	5026.88	5110.60	5201.65	5291.37	5382.49	5479.31	5589.67	5709.08	1.0%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	526.99	535.38	544.25	553.62	562.79	572.65	582.64	592.76	603.43	615.38	628.40	4.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	189.19	192.26	195.39	198.78	202.08	205.68	209.24	212.85	216.66	221.01	225.72	3.0%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	632.80	643.04	653.54	664.85	675.88	687.90	699.83	711.91	724.67	739.17	754.90	3.6%
Electric	21.45	21.79	22.15	22.53	22.90	23.30	23.71	24.12	24.56	25.04	25.56	3.9%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Trucks	6154.59	6254.04	6356.23	6466.66	6574.24	6691.18	6806.80	6924.14	7048.63	7190.27	7343.66	1.5%
Total Fleet Vehicles	10994.00	11078.50	11183.49	11309.86	11442.56	11581.06	11710.33	11841.03	11986.93	12151.21	12330.37	0.3%
Commercial Light Trucks 2/	9608.59	9765.81	9911.89	10045.05	10162.04	10267.10	10363.11	10456.52	10550.63	10647.52	10748.66	2.7%

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology (Thousands)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2003 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (Billion Miles)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Cars 1/													
Conventional Gasoline	123.60	120.09	115.32	107.75	104.36	102.16	99.07	96.03	93.15	90.80	89.50	88.62	88.26
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.08	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	3.72	5.04	6.30	6.59	6.55	6.40	6.22	6.04	5.85	5.70	5.61	5.55	5.51
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.61	0.78	0.94	1.06	1.11	1.08	1.05	1.02	0.99	0.96	0.95	0.93	0.92
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	1.93	2.72	3.49	3.98	4.15	4.04	3.93	3.83	3.71	3.61	3.55	3.50	3.47
Electric	0.15	0.18	0.21	0.22	0.21	0.21	0.20	0.19	0.19	0.18	0.18	0.18	0.18
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	130.08	128.85	126.29	119.61	116.37	113.89	110.47	107.10	103.89	101.26	99.78	98.78	98.34
Light Trucks 1/													
Conventional Gasoline	99.16	93.77	87.84	81.52	82.43	83.85	85.55	87.61	89.50	91.05	92.54	94.09	95.52
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	3.51	5.18	6.85	8.54	9.09	9.24	9.41	9.64	9.85	10.02	10.19	10.36	10.52
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	1.97	2.38	2.80	3.23	3.26	3.32	3.38	3.46	3.54	3.60	3.66	3.72	3.78
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	5.29	7.02	8.75	10.53	10.91	11.09	11.31	11.58	11.83	12.04	12.24	12.44	12.63
Electric	0.17	0.23	0.28	0.34	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.42	0.43
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Truck	110.09	108.58	106.53	104.17	106.05	107.87	110.04	112.69	115.11	117.12	119.05	121.04	122.88
Total Fleet Vehicles	240.17	237.43	232.82	223.78	222.42	221.76	220.51	219.79	219.01	218.38	218.83	219.82	221.22
Commercial Light Trucks 2/	63.97	64.54	67.48	69.18	70.19	71.98	74.05	76.22	77.99	79.69	81.43	83.10	85.17

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (Billion Miles)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Cars 1/												
Conventional Gasoline	87.86	87.53	87.54	87.81	88.26	88.62	88.82	89.01	89.36	89.74	90.18	-1.3%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	5.48	5.46	5.46	5.47	5.50	5.52	5.53	5.55	5.57	5.59	5.61	0.5%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.94	0.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	3.45	3.44	3.44	3.44	3.45	3.46	3.47	3.48	3.50	3.51	3.52	1.2%
Electric	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	97.88	97.52	97.53	97.82	98.30	98.70	98.92	99.14	99.54	99.95	100.43	-1.1%
Light Trucks 1/												
Conventional Gasoline	96.76	98.27	99.82	101.53	103.19	104.99	106.75	108.53	110.44	112.62	114.98	0.9%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol												
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												
Flex	10.66	10.82	11.00	11.18	11.36	11.56	11.75	11.95	12.16	12.40	12.66	4.1%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	3.83	3.89	3.95	4.01	4.08	4.15	4.22	4.29	4.37	4.45	4.55	3.0%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	12.80	13.00	13.20	13.43	13.65	13.88	14.12	14.35	14.61	14.89	15.20	3.6%
Electric	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.49	0.50	0.51	3.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell												
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Truck	124.48	126.42	128.42	130.60	132.74	135.06	137.32	139.62	142.07	144.87	147.90	1.4%
Total Fleet Vehicles	222.36	223.94	225.94	228.42	231.04	233.76	236.24	238.76	241.61	244.83	248.33	0.2%
Commercial Light Trucks 2/	86.87	88.30	90.23	92.33	94.41	96.39	98.30	100.29	102.45	104.66	106.85	2.3%

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Type and Technology (Billion Miles)

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2003 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 54. Air Travel Energy Use

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Fuel Cost (1987 dollars per million Btu)	4.2	4.5	5.6	5.3	4.8	4.5	4.5	4.4	4.3	4.3	4.3	4.3	4.3
Yield-domestic (ticket price) 1/	10.8	10.9	10.1	9.5	9.0	8.6	8.2	7.9	7.6	7.3	7.1	6.8	6.8
Yield-international (1996 dollars) 1/	8.9	9.0	8.6	8.3	8.0	7.7	7.4	7.1	6.9	6.6	6.4	6.1	5.9
Travel Demand (billion miles)													
Revenue Passenger Miles, Domestic	479.3	504.4	515.0	524.2	536.6	552.0	573.7	594.4	619.8	643.5	664.7	683.3	702.9
Load Factor, Domestic 2/	0.70	0.71	0.71	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73
Revenue Passenger Miles, International	171.9	168.1	173.6	181.0	190.2	200.4	210.8	221.2	231.8	242.4	250.9	258.6	265.1
Load Factor, International 2/	0.76	0.75	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78
Revenue Ton Miles, Freight (billion)	28.1	29.7	28.6	32.3	35.6	39.1	39.3	40.8	43.3	45.5	47.7	49.8	52.1
Seat Miles Demanded (billion)													
Narrow Body Aircraft	560.0	577.0	588.3	596.6	609.7	625.3	647.2	667.9	695.3	718.7	739.8	758.8	777.6
Wide Body Aircraft	277.9	261.2	281.3	286.9	294.8	303.3	313.8	323.9	334.3	343.6	351.2	356.9	361.4
Regional Jets	69.9	94.1	81.4	86.3	91.9	98.4	106.0	113.8	122.7	131.7	140.4	147.9	156.8
Aircraft Sales													
Narrow Body Aircraft	164.0	98.0	221.6	234.1	238.0	243.8	241.3	241.9	239.7	236.7	235.6	238.2	243.0
Wide Body Aircraft	40.0	30.0	69.2	73.1	74.3	76.1	75.3	75.5	74.8	73.9	73.5	74.3	75.8
Regional Jets	281.0	303.0	124.6	131.6	133.8	137.1	135.7	136.0	134.8	133.1	132.5	134.0	136.7
Total Aircraft Sales	485.0	431.0	415.4	438.8	446.2	457.0	452.2	453.5	449.3	443.7	441.6	446.5	455.5
Aircraft Stock													
Narrow Body Aircraft	5002.0	4894.0	5080.4	5171.6	5269.2	5375.1	5481.2	5590.2	5698.6	5804.9	5908.9	6013.7	6124.9
Wide Body Aircraft	1373.0	1394.0	1403.1	1434.3	1463.8	1492.5	1517.9	1541.4	1563.8	1585.6	1608.2	1631.9	1658.0
Regional Jets	1290.0	1586.0	1408.8	1533.9	1660.2	1788.9	1915.1	2040.5	2163.4	2283.3	2401.7	2520.1	2639.4
Total Aircraft Stock	7665.0	7874.0	7892.3	8139.7	8393.3	8656.5	8914.2	9172.0	9425.7	9673.8	9918.8	10165.8	10422.3
Aircraft Active Stock													
Narrow Body Aircraft	4167.0	3785.0	3908.9	3993.8	4068.6	4160.1	4291.6	4414.7	4581.1	4720.6	4776.0	4823.8	4878.4
Wide Body Aircraft	1133.0	762.0	724.3	739.9	761.4	784.6	813.4	846.9	884.4	924.2	965.4	1008.5	1053.1
Regional Jets	1214.0	1214.0	1408.8	1516.8	1598.4	1678.9	1773.8	1875.8	1990.6	2105.4	2215.2	2304.8	2413.1
Total Active Stock	6514.0	5761.0	6042.0	6250.5	6428.4	6623.6	6878.8	7137.4	7456.2	7750.1	7956.7	8137.2	8344.6
Aircraft Parked Stock													
Narrow Body Aircraft	835.0	668.0	0.0	14.1	51.5	97.9	99.2	109.7	54.9	2.2	0.0	0.0	0.0
Wide Body Aircraft	240.0	187.0	148.7	162.6	171.5	187.0	195.7	205.5	210.7	210.2	210.3	203.0	200.2
Regional Jets	76.0	76.0	0.0	17.1	61.8	110.0	141.3	164.7	172.8	177.8	186.5	215.3	226.3
Total Parked Stock	1151.0	931.0	148.7	193.7	284.9	394.9	436.2	479.9	438.3	390.3	396.7	418.3	426.5
Aircraft Cargo Stock													
Narrow Body Aircraft	549.0	549.0	1171.4	1163.6	1149.1	1117.1	1090.4	1065.7	1062.6	1082.1	1132.9	1189.9	1246.6
Wide Body Aircraft	424.0	424.0	530.2	531.8	530.9	520.9	508.9	489.0	468.6	451.3	432.5	420.4	404.7
Total Cargo Stock	973.0	973.0	1701.6	1695.5	1680.0	1638.0	1599.2	1554.8	1531.2	1533.4	1565.4	1610.3	1651.3
Advanced Technology Penetration													
Ultra-high Bypass	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.11	0.20	0.34
Propfan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weight Reducing Materials	0.00	0.00	0.01	0.02	0.04	0.08	0.14	0.25	0.40	0.57	0.73	0.85	0.92
New Aircraft Efficiency 3/													
Narrow Body Aircraft	63.9	64.6	64.8	64.9	65.1	65.5	66.2	67.3	68.8	70.7	72.5	74.3	75.8
Wide Body Aircraft	62.3	63.0	63.2	63.3	63.5	63.9	64.6	65.7	67.2	69.0	70.9	72.6	74.1
Regional Jets	42.1	42.7	42.8	42.9	43.0	43.2	43.7	44.4	45.4	46.6	47.9	49.0	50.0

Table 54. Air Travel Energy Use

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Average Aircraft	61.9	58.1	57.7	57.6	57.6	57.8	58.3	59.1	60.3	61.8	63.3	64.7	65.8
Aircraft Stock Efficiency 3/													
Narrow Body Aircraft	57.2	56.7	58.4	59.1	59.7	60.3	60.8	61.3	61.8	62.4	63.1	63.9	64.7
Wide Body Aircraft	56.2	55.9	57.8	58.8	59.7	60.6	61.3	62.0	62.7	63.4	64.1	64.8	65.6
Regional Jets	41.3	41.2	41.2	41.5	41.7	41.9	42.0	42.2	42.5	42.7	43.1	43.4	43.8
Average Aircraft	55.2	55.3	56.2	56.9	57.4	57.9	58.4	58.8	59.2	59.6	60.2	60.8	61.4
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	2825.3	2702.2	2801.8	2883.9	2979.7	3088.4	3162.0	3255.0	3383.3	3492.8	3582.0	3653.5	3725.7
Aviation Gasoline	42.5	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1
Military													
Jet Fuel	514.7	554.8	621.8	642.2	649.9	651.4	652.5	653.5	653.5	654.0	654.7	655.4	656.4

Table 54. Air Travel Energy Use

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Fuel Cost (1987 dollars per million Btu)	4.3	4.4	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	0.3%
Yield-domestic (ticket price) 1/	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	-2.2%
Yield-international (1996 dollars) 1/	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	-2.2%
Travel Demand (billion miles)												
Revenue Passenger Miles, Domestic	721.9	737.9	754.0	768.0	780.3	790.2	799.8	807.6	814.2	820.7	825.2	2.3%
Load Factor, Domestic 2/	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.75	0.2%
Revenue Passenger Miles, International	271.7	279.7	287.6	295.1	302.4	309.2	315.9	321.7	326.7	330.9	334.1	3.2%
Load Factor, International 2/	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.3%
Revenue Ton Miles, Freight (billion)	54.1	55.8	58.2	61.2	64.1	66.6	69.0	71.5	74.4	77.3	80.2	4.6%
Seat Miles Demanded (billion)												
Narrow Body Aircraft	795.6	811.7	827.1	839.9	852.1	861.4	869.7	876.5	881.2	886.9	884.3	2.0%
Wide Body Aircraft	366.0	370.3	375.4	379.6	383.4	385.6	388.2	389.8	390.4	390.1	392.7	1.9%
Regional Jets	165.7	174.4	183.1	191.5	199.8	207.6	215.3	222.4	229.7	236.4	243.4	4.4%
Aircraft Sales												
Narrow Body Aircraft	244.7	246.3	250.2	255.2	259.5	264.8	269.8	276.8	284.9	292.6	301.4	5.2%
Wide Body Aircraft	76.4	76.9	78.1	79.7	81.0	82.7	84.2	86.4	88.9	91.3	94.1	5.3%
Regional Jets	137.6	138.5	140.7	143.5	145.9	148.9	151.7	155.7	160.2	164.5	169.5	-2.6%
Total Aircraft Sales	458.6	461.7	469.1	478.4	486.4	496.4	505.7	518.9	534.0	548.5	564.9	1.2%
Aircraft Stock												
Narrow Body Aircraft	6241.3	6359.8	6477.8	6595.3	6711.4	6828.1	6945.6	7066.4	7191.8	7321.4	7457.6	1.9%
Wide Body Aircraft	1685.6	1713.1	1741.0	1769.6	1799.5	1831.9	1866.7	1903.5	1943.4	1985.3	2029.1	1.7%
Regional Jets	2757.5	2874.2	2990.5	3106.9	3222.7	3338.3	3453.0	3567.9	3683.1	3798.3	3913.6	4.2%
Total Aircraft Stock	10684.3	10947.1	11209.3	11471.8	11733.6	11998.2	12265.3	12537.8	12818.3	13105.0	13400.3	2.4%
Aircraft Active Stock												
Narrow Body Aircraft	4930.2	4989.4	5056.6	5169.7	5313.2	5471.9	5546.3	5573.6	5588.2	5609.2	5577.6	1.8%
Wide Body Aircraft	1096.5	1136.8	1173.2	1205.7	1234.5	1261.1	1286.1	1310.2	1333.1	1354.8	1376.4	2.7%
Regional Jets	2520.7	2622.6	2724.5	2819.1	2912.6	2996.8	3078.8	3153.0	3227.0	3293.1	3361.6	4.7%
Total Active Stock	8547.5	8748.8	8954.4	9194.5	9460.3	9729.8	9911.2	10036.7	10148.3	10257.2	10315.6	2.7%
Aircraft Parked Stock												
Narrow Body Aircraft	0.0	0.0	0.0	0.0	0.0	0.0	100.4	252.8	372.5	423.5	514.3	-1.2%
Wide Body Aircraft	202.0	203.1	203.1	210.3	234.0	264.1	295.9	324.1	349.2	363.5	375.7	3.2%
Regional Jets	236.8	251.6	266.0	287.8	310.2	341.4	374.2	414.9	456.1	505.1	552.0	9.4%
Total Parked Stock	438.8	454.7	469.1	498.1	544.2	605.5	770.5	991.8	1177.8	1292.2	1442.1	2.0%
Aircraft Cargo Stock												
Narrow Body Aircraft	1311.1	1370.4	1421.2	1425.6	1398.2	1356.2	1298.9	1240.0	1231.1	1288.7	1365.7	4.2%
Wide Body Aircraft	387.0	373.2	364.7	353.6	330.9	306.7	284.6	269.3	261.1	267.0	276.9	-1.9%
Total Cargo Stock	1698.1	1743.6	1785.9	1779.2	1729.1	1662.9	1583.5	1509.3	1492.1	1555.7	1642.6	2.4%
Advanced Technology Penetration												
Ultra-high Bypass	0.51	0.69	0.83	0.91	0.96	0.98	0.99	1.00	1.00	1.00	1.00	31.4%
Propfan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Weight Reducing Materials	0.96	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	27.3%
New Aircraft Efficiency 3/												
Narrow Body Aircraft	77.3	78.7	79.7	80.3	80.7	80.8	80.9	80.9	80.9	80.9	80.9	1.0%
Wide Body Aircraft	75.6	77.0	78.0	78.6	79.0	79.1	79.2	79.3	79.3	79.4	79.4	1.1%
Regional Jets	51.0	52.0	52.6	53.0	53.2	53.3	53.4	53.4	53.4	53.4	53.4	1.0%

Table 54. Air Travel Energy Use

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Average Aircraft	67.0	68.0	68.7	69.2	69.4	69.6	69.6	69.5	69.4	69.3	69.1	0.8%
Aircraft Stock Efficiency 3/												
Narrow Body Aircraft	65.6	66.5	67.4	68.2	69.0	69.7	70.5	71.4	72.3	73.2	74.2	1.2%
Wide Body Aircraft	66.4	67.2	68.1	69.0	69.9	70.8	71.7	72.5	73.4	74.3	75.1	1.4%
Regional Jets	44.2	44.6	45.0	45.4	45.8	46.2	46.6	47.0	47.5	47.9	48.3	0.7%
Average Aircraft	62.1	62.7	63.4	64.0	64.6	65.2	65.9	66.5	67.2	67.9	68.5	1.0%
Fuel Consumption (trillion Btu)												
Commercial												
Jet Fuel	3790.0	3840.6	3901.1	3964.7	4026.1	4071.2	4106.9	4137.2	4166.3	4194.7	4211.8	2.0%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Military												
Jet Fuel	658.3	660.9	663.3	665.5	667.5	669.4	671.2	672.8	674.4	675.9	677.3	0.9%

Table 54. Air Travel Energy Use

1/ Fraction of seats filled.

2/ 1992 cents per passenger mile.

3/ Seat miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2003 derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 1999/1998 (Washington, DC, 1999); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data 2001, DOE/EIA-0214(2001) (Washington, DC, November 2004); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 55. Freight Transportation Energy Use

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	32.41	33.21	34.83	36.26	37.05	38.19	39.70	41.16	42.32	43.49	44.62	45.69	46.97
Gasoline	14.78	14.37	14.61	14.70	14.51	14.42	14.44	14.43	14.34	14.30	14.31	14.33	14.45
Liquefied Petroleum Gas	0.43	0.41	0.40	0.40	0.39	0.39	0.40	0.42	0.43	0.45	0.46	0.48	0.49
Compressed Natural Gas	0.06	0.09	0.13	0.18	0.25	0.33	0.43	0.55	0.67	0.79	0.91	1.02	1.13
Medium Subtotal	47.68	48.08	49.97	51.53	52.20	53.33	54.98	56.55	57.75	59.03	60.29	61.52	63.05
Heavy													
Diesel	160.41	164.17	173.17	180.91	184.81	189.80	196.54	202.82	207.48	212.28	216.84	221.37	227.37
Gasoline	1.82	1.79	1.86	1.91	1.93	1.95	1.99	2.03	2.06	2.09	2.12	2.16	2.22
Liquefied Petroleum Gas	0.05	0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22
Compressed Natural Gas	0.05	0.08	0.12	0.18	0.24	0.31	0.40	0.49	0.58	0.66	0.74	0.80	0.86
Heavy Subtotal	162.33	166.10	175.23	183.10	187.08	192.19	199.08	205.51	210.29	215.22	219.90	224.54	230.66
Total Vehicle Miles Traveled	210.01	214.18	225.20	234.63	239.28	245.52	254.06	262.06	268.04	274.25	280.19	286.05	293.72
Consumption (trillion Btu)													
Medium													
Diesel	491.30	501.28	523.75	543.59	554.38	570.75	592.96	614.34	631.37	648.66	665.07	680.64	699.33
Gasoline	217.84	211.02	213.79	214.53	211.33	209.58	209.39	208.69	206.85	205.88	205.43	205.34	206.56
Liquefied Petroleum Gas	8.37	7.84	7.58	7.40	7.16	7.04	7.17	7.34	7.49	7.67	7.87	8.06	8.28
Compressed Natural Gas	1.05	1.41	2.03	2.87	3.89	5.19	6.79	8.60	10.50	12.41	14.28	16.05	17.80
Medium Subtotal	718.56	721.54	747.15	768.39	776.77	792.56	816.32	838.98	856.20	874.63	892.65	910.10	931.97
Heavy													
Diesel	3635.05	3706.11	3898.04	4064.93	4148.68	4259.00	4410.26	4551.24	4653.54	4754.40	4843.77	4924.27	5026.81
Gasoline	32.21	31.40	32.42	33.23	33.39	33.75	34.38	34.94	35.27	35.72	36.22	36.80	37.70
Liquefied Petroleum Gas	0.90	1.11	1.41	1.68	1.91	2.19	2.53	2.85	3.11	3.32	3.48	3.60	3.71
Compressed Natural Gas	0.96	1.37	2.11	3.05	4.10	5.35	6.85	8.45	9.99	11.42	12.66	13.72	14.72
Heavy Subtotal	3669.12	3739.99	3933.98	4102.88	4188.08	4300.28	4454.02	4597.48	4701.92	4804.86	4896.14	4978.39	5082.94
Medium and Heavy Total													
Diesel	4126.35	4207.39	4421.79	4608.52	4703.07	4829.75	5003.22	5165.58	5284.92	5403.06	5508.84	5604.91	5726.14
Gasoline	250.05	242.42	246.22	247.76	244.72	243.32	243.78	243.63	242.12	241.60	241.66	242.15	244.27
Liquefied Petroleum Gas	9.27	8.95	8.98	9.08	9.08	9.23	9.70	10.18	10.60	10.99	11.35	11.66	11.99
Compressed Natural Gas	2.01	2.78	4.14	5.92	7.99	10.54	13.64	17.06	20.49	23.83	26.94	29.78	32.51
Total	4387.68	4461.53	4681.13	4871.27	4964.85	5092.84	5270.34	5436.46	5558.12	5679.49	5788.79	5888.49	6014.91
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.30	8.33	8.36	8.37	8.39	8.40	8.41	8.42	8.42	8.43	8.43	8.43	8.44
Gasoline	8.48	8.51	8.53	8.56	8.58	8.60	8.62	8.65	8.67	8.70	8.72	8.74	8.76
Liquefied Petroleum Gas	6.46	6.57	6.68	6.77	6.86	6.93	7.01	7.09	7.17	7.24	7.31	7.37	7.42
Compressed Natural Gas	7.72	7.80	7.85	7.88	7.90	7.91	7.92	7.93	7.94	7.95	7.96	7.97	7.97
Medium Average	8.34	8.37	8.39	8.41	8.43	8.44	8.45	8.46	8.47	8.48	8.48	8.49	8.50
Heavy													
Diesel	5.52	5.54	5.56	5.57	5.57	5.57	5.57	5.57	5.58	5.58	5.60	5.62	5.66
Gasoline	7.07	7.12	7.16	7.19	7.22	7.24	7.26	7.27	7.29	7.31	7.33	7.35	7.36
Liquefied Petroleum Gas	7.06	7.11	7.16	7.18	7.20	7.22	7.23	7.24	7.24	7.25	7.25	7.26	7.26
Compressed Natural Gas	7.14	7.18	7.21	7.23	7.24	7.25	7.26	7.26	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.53	5.55	5.57	5.58	5.59	5.59	5.59	5.59	5.59	5.60	5.62	5.64	5.68
Average	5.99	6.00	6.02	6.02	6.03	6.03	6.03	6.03	6.03	6.04	6.05	6.08	6.11
Stock (millions)													
Medium													
Diesel	2.06	2.12	2.19	2.26	2.32	2.39	2.46	2.53	2.60	2.66	2.71	2.76	2.81
Gasoline	2.01	1.97	1.93	1.89	1.86	1.82	1.79	1.76	1.73	1.70	1.68	1.65	1.63
Liquefied Petroleum Gas	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07

Table 55. Freight Transportation Energy Use

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Medium Subtotal	4.13	4.14	4.18	4.21	4.24	4.28	4.32	4.36	4.41	4.45	4.48	4.51	4.54
Heavy													
Diesel	4.22	4.30	4.41	4.51	4.60	4.69	4.78	4.88	4.97	5.06	5.13	5.20	5.28
Gasoline	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25
Liquefied Petroleum Gas	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Compressed Natural Gas	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04
Heavy Subtotal	4.59	4.65	4.75	4.84	4.92	5.00	5.08	5.18	5.27	5.36	5.43	5.50	5.58
Total Stock	8.72	8.79	8.93	9.05	9.16	9.28	9.40	9.54	9.68	9.81	9.91	10.01	10.12
New Trucks by Size Class													
Fuel Efficiency (gasoline equivalent MPG)													
Medium													
Diesel	8.68	8.59	8.52	8.50	8.49	8.49	8.48	8.47	8.47	8.46	8.46	8.46	8.46
Gasoline	8.99	8.97	8.95	8.94	8.93	8.92	8.95	8.97	8.99	9.01	9.03	9.05	9.09
Liquefied Petroleum Gas	8.01	8.00	7.98	7.98	7.98	7.96	7.98	7.99	8.00	8.01	8.02	8.02	8.02
Compressed Natural Gas	7.99	7.97	7.95	7.93	7.93	7.93	7.95	7.96	7.98	7.99	8.00	8.00	8.00
Medium Average	8.74	8.66	8.60	8.58	8.57	8.56	8.55	8.55	8.54	8.55	8.55	8.55	8.55
Heavy													
Diesel	5.76	5.69	5.65	5.62	5.60	5.59	5.58	5.59	5.62	5.67	5.73	5.82	5.94
Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Liquefied Petroleum Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28
Heavy Average	5.77	5.71	5.66	5.64	5.62	5.61	5.61	5.61	5.64	5.69	5.76	5.85	5.96
Average	6.16	6.10	6.03	6.01	5.99	5.99	5.98	5.99	6.02	6.06	6.13	6.21	6.31
Sales (millions)													
Medium													
Diesel	0.12	0.12	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Gasoline	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.17	0.18	0.20	0.20	0.20	0.21	0.22	0.23	0.23	0.23	0.23	0.22	0.22
Heavy													
Diesel	0.23	0.24	0.28	0.28	0.27	0.28	0.29	0.30	0.31	0.31	0.30	0.30	0.31
Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heavy Subtotal	0.24	0.25	0.29	0.29	0.29	0.29	0.31	0.32	0.32	0.32	0.32	0.32	0.33
Total Sales	0.41	0.42	0.49	0.49	0.49	0.50	0.52	0.55	0.56	0.55	0.54	0.54	0.55
Railroads													
Ton Miles by Rail (billion)	1327.53	1351.85	1396.97	1449.63	1470.90	1500.81	1536.79	1562.92	1575.86	1604.40	1623.95	1642.27	1667.10
Fuel Efficiency (ton miles per thousand Btu)	2.85	2.88	2.91	2.94	2.97	3.00	3.03	3.06	3.09	3.12	3.15	3.19	3.22
Fuel Consumption (trillion Btu)													
Distillate (diesel)	465.45	469.24	480.06	493.13	495.31	500.29	507.13	510.57	509.60	513.60	514.63	515.18	517.70
Residual Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Domestic Shipping													
Ton Miles Shipping (billion)	605.90	591.52	583.44	603.89	608.94	616.61	633.97	647.97	649.35	656.09	661.38	662.49	668.40
Fuel Efficiency (ton miles per thousand Btu)	2.29	2.30	2.30	2.31	2.31	2.31	2.32	2.32	2.33	2.33	2.34	2.34	2.35
Fuel Consumption (trillion Btu)													
Distillate (diesel)	187.89	184.31	190.14	196.40	197.63	199.70	204.90	208.99	209.00	210.73	211.99	211.90	213.35
Residual Oil	76.51	73.33	65.07	67.21	67.64	68.35	70.13	71.54	71.55	72.14	72.58	72.55	73.05
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 55. Freight Transportation Energy Use

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
International Shipping													
Gross Trade (billion 2000 \$)	1997.18	2069.73	2279.40	2455.88	2623.42	2820.35	3002.20	3200.38	3415.17	3625.85	3841.48	4076.03	4338.99
Exports (billion 2000 dollars)	706.45	721.72	807.35	910.77	1001.87	1098.35	1204.57	1317.30	1426.61	1535.72	1646.23	1761.21	1885.23
Imports (billion 2000 dollars)	1290.72	1348.01	1472.04	1545.11	1621.55	1722.01	1797.63	1883.08	1988.56	2090.13	2195.25	2314.82	2453.76
Fuel Consumption (trillion Btu)													
Distillate (diesel)	39.01	37.93	39.39	39.46	39.52	39.59	39.65	39.71	39.77	39.83	39.88	39.94	40.00
Residual Oil	550.32	522.89	467.04	467.87	468.62	469.46	470.19	470.94	471.70	472.40	473.09	473.78	474.52

Table 55. Freight Transportation Energy Use

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Existing Trucks by Size Class												
Vehicle Miles Traveled (billion miles)												
Medium												
Diesel	48.10	49.12	50.53	51.99	53.35	54.66	55.97	57.33	58.82	60.28	61.70	2.9%
Gasoline	14.54	14.62	14.82	15.03	15.23	15.43	15.63	15.87	16.14	16.41	16.68	0.7%
Liquefied Petroleum Gas	0.51	0.52	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	1.9%
Compressed Natural Gas	1.23	1.32	1.41	1.50	1.57	1.64	1.70	1.76	1.82	1.88	1.93	15.1%
Medium Subtotal	64.38	65.58	67.29	69.06	70.71	72.30	73.89	75.55	77.38	79.18	80.94	2.4%
Heavy												
Diesel	232.58	236.81	242.78	249.11	254.95	260.33	265.50	270.91	276.91	282.72	288.19	2.6%
Gasoline	2.27	2.32	2.39	2.46	2.53	2.60	2.66	2.73	2.81	2.89	2.97	2.3%
Liquefied Petroleum Gas	0.22	0.22	0.22	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.22	5.9%
Compressed Natural Gas	0.90	0.93	0.96	0.99	1.02	1.04	1.05	1.06	1.08	1.09	1.10	12.8%
Heavy Subtotal	235.97	240.28	246.35	252.78	258.72	264.19	269.43	274.93	281.02	286.92	292.48	2.6%
Total Vehicle Miles Traveled	300.35	305.86	313.64	321.84	329.43	336.49	343.32	350.49	358.40	366.10	373.41	2.6%
Consumption (trillion Btu)												
Medium												
Diesel	715.57	730.21	750.58	771.59	791.25	810.29	829.20	849.04	870.65	891.88	912.65	2.8%
Gasoline	207.27	207.74	209.91	212.27	214.37	216.46	218.69	221.30	224.51	227.75	231.02	0.4%
Liquefied Petroleum Gas	8.46	8.60	8.77	8.95	9.11	9.24	9.35	9.47	9.58	9.67	9.75	1.0%
Compressed Natural Gas	19.35	20.71	22.13	23.46	24.65	25.71	26.67	27.60	28.54	29.43	30.27	15.0%
Medium Subtotal	950.65	967.26	991.38	1016.27	1039.37	1061.70	1083.92	1107.41	1133.27	1158.73	1183.68	2.3%
Heavy												
Diesel	5101.85	5153.41	5239.07	5327.76	5408.48	5483.14	5543.57	5612.60	5694.91	5775.82	5852.49	2.1%
Gasoline	38.54	39.27	40.33	41.50	42.62	43.70	44.78	45.94	47.23	48.51	49.76	2.1%
Liquefied Petroleum Gas	3.76	3.78	3.81	3.83	3.86	3.87	3.85	3.84	3.83	3.82	3.81	5.8%
Compressed Natural Gas	15.48	16.00	16.54	17.05	17.47	17.80	18.02	18.24	18.49	18.73	18.95	12.7%
Heavy Subtotal	5159.62	5212.46	5299.74	5390.14	5472.43	5548.51	5610.23	5680.62	5764.47	5846.89	5925.01	2.1%
Medium and Heavy Total												
Diesel	5817.42	5883.63	5989.64	6099.35	6199.73	6293.43	6372.77	6461.63	6565.56	6667.71	6765.14	2.2%
Gasoline	245.81	247.01	250.25	253.77	256.99	260.16	263.47	267.24	271.73	276.26	280.78	0.7%
Liquefied Petroleum Gas	12.23	12.37	12.57	12.78	12.97	13.12	13.20	13.31	13.41	13.49	13.55	1.9%
Compressed Natural Gas	34.83	36.71	38.66	40.51	42.12	43.51	44.70	45.84	47.03	48.16	49.22	14.0%
Total	6110.28	6179.71	6291.13	6406.41	6511.80	6610.22	6694.14	6788.03	6897.74	7005.61	7108.69	2.1%
Fuel Efficiency (gasoline equivalent MPG)												
Medium												
Diesel	8.44	8.44	8.44	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.45	0.1%
Gasoline	8.79	8.81	8.84	8.87	8.90	8.92	8.95	8.97	8.99	9.01	9.03	0.3%
Liquefied Petroleum Gas	7.47	7.52	7.56	7.61	7.67	7.72	7.76	7.82	7.87	7.92	7.97	0.9%
Compressed Natural Gas	7.98	7.98	7.98	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	0.1%
Medium Average	8.50	8.51	8.52	8.52	8.53	8.53	8.54	8.54	8.55	8.55	8.56	0.1%
Heavy												
Diesel	5.70	5.75	5.80	5.85	5.90	5.94	5.99	6.04	6.08	6.12	6.16	0.5%
Gasoline	7.38	7.39	7.40	7.41	7.42	7.43	7.44	7.44	7.45	7.45	7.46	0.2%
Liquefied Petroleum Gas	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.1%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	7.28	7.28	0.1%
Heavy Average	5.72	5.77	5.81	5.87	5.91	5.96	6.01	6.05	6.10	6.14	6.17	0.5%
Average	6.15	6.19	6.24	6.28	6.33	6.37	6.41	6.46	6.50	6.54	6.57	0.4%
Stock (millions)												
Medium												
Diesel	2.85	2.90	2.94	2.99	3.03	3.07	3.11	3.15	3.19	3.24	3.28	2.0%
Gasoline	1.60	1.58	1.56	1.54	1.53	1.52	1.50	1.50	1.49	1.48	1.48	-1.3%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.1%
Compressed Natural Gas	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	13.3%

Table 55. Freight Transportation Energy Use

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Medium Subtotal	4.57	4.60	4.63	4.67	4.70	4.73	4.77	4.80	4.84	4.88	4.93	0.8%
Heavy												
Diesel	5.35	5.41	5.47	5.53	5.60	5.65	5.71	5.76	5.82	5.87	5.92	1.5%
Gasoline	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	-1.5%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.9%
Compressed Natural Gas	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	13.4%
Heavy Subtotal	5.65	5.71	5.77	5.84	5.90	5.96	6.02	6.08	6.14	6.20	6.25	1.4%
Total Stock	10.22	10.31	10.40	10.50	10.60	10.70	10.79	10.88	10.98	11.08	11.18	1.1%
New Trucks by Size Class												
Fuel Efficiency (gasoline equivalent MPG)												
Medium												
Diesel	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	-0.1%
Gasoline	9.13	9.17	9.21	9.25	9.25	9.25	9.25	9.25	9.25	9.25	9.25	0.1%
Liquefied Petroleum Gas	8.02	8.02	8.02	8.26	8.27	8.28	8.29	8.48	8.48	8.48	8.48	0.3%
Compressed Natural Gas	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0.0%
Medium Average	8.56	8.57	8.58	8.58	8.58	8.59	8.59	8.59	8.59	8.59	8.59	0.0%
Heavy												
Diesel	6.06	6.10	6.16	6.23	6.23	6.23	6.38	6.39	6.41	6.42	6.43	0.6%
Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	0.0%
Liquefied Petroleum Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Compressed Natural Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Heavy Average	6.08	6.12	6.18	6.25	6.25	6.25	6.40	6.40	6.43	6.44	6.45	0.6%
Average	6.41	6.46	6.52	6.58	6.58	6.58	6.72	6.72	6.74	6.76	6.77	0.5%
Sales (millions)												
Medium												
Diesel	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	1.6%
Gasoline	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	1.1%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.9%
Medium Subtotal	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	1.6%
Heavy												
Diesel	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	1.5%
Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.5%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6%
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.1%
Heavy Subtotal	0.33	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	1.6%
Total Sales	0.56	0.55	0.56	0.57	0.57	0.57	0.57	0.58	0.59	0.60	0.60	1.6%
Railroads												
Ton Miles by Rail (billion)	1690.13	1717.66	1745.50	1773.37	1803.11	1832.62	1859.18	1890.47	1929.97	1965.70	2001.09	1.8%
Fuel Efficiency (ton miles per thousand Btu)	3.25	3.28	3.32	3.35	3.38	3.42	3.45	3.49	3.52	3.56	3.59	1.0%
Fuel Consumption (trillion Btu)												
Distillate (diesel)	519.56	522.70	525.81	528.83	532.27	535.53	537.80	541.34	547.08	551.58	555.85	0.8%
Residual Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Domestic Shipping												
Ton Miles Shipping (billion)	669.45	673.20	686.91	697.47	702.45	706.21	708.80	711.48	718.66	727.92	732.84	1.0%
Fuel Efficiency (ton miles per thousand Btu)	2.35	2.36	2.36	2.37	2.37	2.38	2.38	2.39	2.39	2.39	2.40	0.2%
Fuel Consumption (trillion Btu)												
Distillate (diesel)	213.24	213.98	217.89	220.78	221.89	222.61	222.96	223.34	225.12	227.54	228.60	1.0%
Residual Oil	73.02	73.28	74.62	75.62	76.01	76.26	76.39	76.52	77.14	77.97	78.34	0.3%
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 55. Freight Transportation Energy Use

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
International Shipping												
Gross Trade (billion 2000 \$)	4608.67	4872.73	5171.02	5504.38	5848.62	6194.40	6559.52	6951.49	7387.70	7855.75	8352.21	6.5%
Exports (billion 2000 dollars)	2007.70	2124.20	2272.04	2452.84	2639.38	2818.19	2999.12	3198.60	3424.41	3666.07	3923.09	8.0%
Imports (billion 2000 dollars)	2600.98	2748.54	2898.97	3051.54	3209.24	3376.21	3560.40	3752.88	3963.29	4189.68	4429.12	5.6%
Fuel Consumption (trillion Btu)												
Distillate (diesel)	40.06	40.11	40.17	40.22	40.28	40.34	40.39	40.45	40.50	40.56	40.62	0.3%
Residual Oil	475.23	475.90	476.61	477.35	478.06	478.75	479.43	480.13	480.85	481.59	482.32	-0.4%

Table 55. Freight Transportation Energy Use

MPG = Miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2003 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, 19, 20,21, 22, and 23 and Annual (Oak Ridge, TN, September 2003); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2002 (Washington, DC, November 2003); and Energy Information Administration (EIA), AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Car													
Unit Body Construction	92.91	95.13	95.07	94.36	94.20	94.21	94.40	94.37	94.43	94.49	94.44	94.48	94.48
Material Substitution II	50.91	72.45	72.43	72.08	71.98	71.89	71.97	71.91	71.81	71.82	71.77	71.76	71.73
Material Substitution III	0.31	3.31	3.32	3.46	4.87	7.71	7.93	9.22	10.99	11.00	11.20	11.45	11.46
Material Substitution IV	0.00	0.00	0.00	0.00	0.03	0.14	0.32	0.58	0.97	1.31	1.69	2.07	2.47
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Drag Reduction II	55.76	73.58	73.57	73.61	69.24	60.24	58.97	52.01	44.30	43.83	42.90	42.02	41.36
Drag Reduction III	0.90	8.77	8.77	9.11	15.16	24.10	24.62	29.60	34.49	34.75	35.28	35.66	35.66
Drag Reduction IV	0.09	1.81	1.82	2.36	5.29	10.68	11.88	15.39	19.23	19.30	19.49	19.63	19.88
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.21	0.57	1.06	1.74
Roll-Over Technology	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	13.25	25.32	26.20	29.08	38.54	46.21	48.35	53.04	58.01	59.78	62.70	65.26	66.12
Early Torque Converter Lockup	0.18	5.22	5.52	7.31	16.97	26.72	29.42	35.30	41.99	43.43	45.46	47.25	49.33
Aggressive Shift Logic	3.26	9.27	9.28	9.54	10.59	12.27	12.58	13.66	15.07	15.06	15.28	15.52	15.54
4-Speed Automatic	71.59	69.23	69.25	70.35	70.09	69.28	68.03	65.91	63.38	62.38	61.41	59.71	59.39
5-Speed Automatic	7.99	7.93	7.99	8.29	8.52	8.74	8.76	8.89	9.02	9.06	9.17	9.27	9.30
6-Speed Automatic	0.00	0.00	0.02	0.10	0.25	0.46	0.64	0.89	1.14	1.38	1.59	1.80	1.95
6-Speed Manual	1.18	2.47	2.50	2.58	2.87	3.40	3.47	3.72	4.02	4.06	4.11	4.18	4.20
CVT	0.15	0.64	0.69	0.89	1.31	1.80	1.99	2.39	2.76	2.86	2.99	3.24	3.32
Automated Manual Trans	0.00	0.00	0.00	0.00	0.04	0.22	0.86	2.63	5.15	6.75	8.81	10.08	10.14
Roller Cam	96.12	99.57	99.60	99.67	99.74	99.78	99.81	99.85	99.87	99.88	99.88	99.88	99.88
OHC/AdvOHV-4 Cylinder	3.50	1.36	1.36	1.21	1.18	1.18	1.22	1.22	1.23	1.24	1.23	1.24	1.24
OHC/AdvOHV-6 Cylinder	5.20	4.77	4.63	4.44	4.07	3.83	3.72	3.59	3.52	3.49	3.44	3.43	3.43
OHC/AdvOHV-8 Cylinder	3.21	2.77	2.79	3.09	3.15	3.14	3.05	3.05	3.02	2.99	3.01	2.99	2.99
4-Valve/4-Cylinder	46.83	52.51	52.37	50.00	49.48	49.49	50.10	50.02	50.21	50.42	50.25	50.39	50.40
4-Valve/6-Cylinder	22.97	21.72	21.93	23.28	23.89	24.12	23.93	24.10	24.06	23.99	24.12	24.07	24.07
4-Valve/8-Cylinder	8.83	8.07	8.23	9.12	9.54	9.55	9.40	9.42	9.39	9.33	9.38	9.35	9.35
5-Valve/6-Cylinder	2.19	2.15	2.15	2.22	2.24	2.25	2.24	2.24	2.24	2.24	2.24	2.24	2.24
VVT-4 Cylinder	17.33	32.74	33.06	34.83	38.20	39.60	40.18	41.52	42.76	42.90	42.73	42.77	42.69
VVT-6 Cylinder	3.47	4.29	4.43	4.83	5.22	5.57	5.64	5.89	6.17	6.24	6.38	6.49	6.51
VVT-8 Cylinder	0.64	1.31	1.41	1.75	2.09	2.45	2.43	2.62	2.85	2.81	2.88	2.93	2.88
VVL-4 Cylinder	6.54	7.49	7.72	8.43	9.34	9.68	9.83	10.03	10.14	10.20	10.30	10.34	10.34
VVL-6 Cylinder	0.54	1.18	1.51	2.13	2.69	3.06	3.18	3.46	3.62	3.70	3.84	3.92	3.92
VVL-8 Cylinder	1.27	1.48	1.64	2.04	2.21	2.29	2.23	2.22	2.18	2.13	2.10	2.05	1.97
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.25	0.42	0.64	0.88
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.51	0.68	0.85
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.51	0.68	0.85
Cylinder Deactivation	0.00	0.00	0.02	0.12	0.31	0.58	0.81	1.14	1.40	1.52	1.67	1.80	1.95
Turbocharging/Supercharging	0.13	0.50	0.73	1.06	1.35	1.57	1.71	1.92	2.04	2.13	2.23	2.31	2.32
Engine Friction Reduction I	69.04	59.88	59.81	58.12	55.74	50.19	49.97	47.23	44.23	43.50	42.38	41.24	40.03
Engine Friction Reduction II	22.38	39.59	39.68	41.75	44.26	49.81	49.98	52.49	54.84	54.78	54.86	54.87	54.87
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.27	0.93	1.72	2.76	3.89	5.10
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.02	0.13	0.30	0.55	0.90	1.20	1.54	2.02	2.43
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.02	0.12	0.26	0.47	0.75	1.01	1.29	1.64	1.95
Lean Burn GDI	0.00	0.00	0.00	0.00	0.03	0.16	0.37	0.70	1.19	1.55	1.95	2.35	2.76
5W-30 Engine Oil	40.36	57.62	57.65	58.10	58.16	58.06	57.89	57.57	55.82	55.65	55.63	55.58	55.49
5W-20 Engine Oil	0.00	1.15	1.40	2.27	6.51	15.03	17.27	22.66	28.50	29.51	30.42	31.15	32.01
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.00	0.00	0.02	0.11	0.26	0.49	0.73	1.04	1.38	1.62	1.90	2.19	2.42
Improved Alternator	0.00	0.00	0.00	0.03	0.16	0.42	0.69	1.13	1.66	1.99	2.38	2.76	3.15
Improved Oil/Water Pump	0.68	8.33	8.34	8.70	15.02	24.06	24.64	29.76	34.74	35.03	35.60	36.01	36.01
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.31	0.57	0.88	1.23	1.59	1.96
Tires II	58.06	80.20	80.23	80.81	80.93	81.51	81.25	80.43	77.79	76.77	75.90	74.78	74.06
Tires III	0.00	0.00	0.00	0.06	0.40	1.87	3.71	7.31	12.71	14.89	17.06	19.13	20.44
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	82.69	82.50	82.54	82.67	82.71	82.72	82.69	82.69	82.68	82.67	82.67	82.68	82.68

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Four Wheel Drive Improvements	0.15	0.83	0.86	0.92	1.24	1.70	1.75	1.99	2.18	2.18	2.18	2.18	2.18
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.36	0.55	0.75	0.94	1.13	1.32
42V-Engine Off at Idle	0.00	0.00	0.00	0.02	0.10	0.22	0.36	0.55	0.75	0.94	1.13	1.32	1.52
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Truck													
Unit Body Construction	20.99	27.46	27.47	26.40	26.30	36.14	36.23	36.14	36.24	36.32	36.25	36.32	36.33
Material Substitution II	36.14	48.08	48.08	48.46	49.49	70.94	70.98	71.01	70.99	70.94	70.88	70.79	70.71
Material Substitution III	0.06	0.63	0.85	1.36	2.86	14.20	14.18	14.18	14.20	14.20	14.20	14.22	14.22
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.23	0.42	0.71
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction II	48.42	62.47	62.92	63.46	63.34	40.08	38.98	35.80	28.12	24.58	21.59	19.19	17.32
Drag Reduction III	4.42	15.73	16.44	18.58	29.44	57.76	57.75	57.86	60.66	61.25	61.15	61.12	61.28
Drag Reduction IV	0.00	0.00	0.00	0.00	0.09	2.16	3.27	6.33	11.22	14.17	17.26	19.69	21.36
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Roll-Over Technology	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.00	0.00	0.00	0.19	1.56	13.05	17.95	25.98	33.65	39.56	46.06	52.32	57.95
Early Torque Converter Lockup	0.00	0.00	0.00	0.00	0.20	5.05	8.44	14.83	22.04	26.76	31.47	36.67	42.14
Aggressive Shift Logic	0.00	0.00	0.00	0.00	0.07	1.20	1.75	3.31	5.84	7.32	8.80	10.20	11.70
4-Speed Automatic	83.36	83.81	83.77	83.14	82.67	80.06	80.19	80.11	80.02	79.88	79.45	78.86	78.23
5-Speed Automatic	6.36	6.82	6.87	7.11	7.72	11.01	10.89	10.87	10.86	10.85	10.86	10.86	10.86
6-Speed Automatic	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.22	0.39	0.64	0.90	1.17
6-Speed Manual	0.40	1.25	1.27	1.49	2.25	5.41	5.38	5.39	5.37	5.36	5.37	5.36	5.36
CVT	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.11	0.17	0.24	0.31
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.26	0.78	1.56
Roller Cam	83.54	87.72	89.19	91.15	93.83	98.09	98.75	99.66	99.71	99.71	99.71	99.71	99.71
OHC/AdvOHV-4 Cylinder	2.88	2.22	2.18	2.08	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OHC/AdvOHV-6 Cylinder	41.74	41.49	41.52	40.91	39.89	31.24	31.35	31.34	31.38	31.40	31.37	31.40	31.41
OHC/AdvOHV-8 Cylinder	25.18	24.65	24.57	24.52	24.37	21.29	21.24	21.23	21.23	21.23	21.23	21.23	21.23
4-Valve/4-Cylinder	6.84	6.87	6.94	7.48	7.65	9.57	9.54	9.57	9.54	9.50	9.53	9.50	9.50
4-Valve/6-Cylinder	8.53	10.57	10.62	11.25	12.43	24.29	24.37	24.37	24.39	24.41	24.39	24.40	24.40
4-Valve/8-Cylinder	3.90	4.90	4.93	5.40	6.02	13.30	13.18	13.17	13.16	13.15	13.16	13.15	13.15
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VVT-4 Cylinder	3.01	6.80	6.82	7.55	8.70	9.57	9.54	9.57	9.54	9.50	9.53	9.50	9.48
VVT-6 Cylinder	0.62	2.26	2.29	2.67	4.03	13.21	13.22	13.22	13.22	13.22	13.22	13.20	13.19
VVT-8 Cylinder	0.38	1.27	1.30	1.61	2.76	9.84	9.77	9.76	9.75	9.74	9.72	9.68	9.65
VVL-4 Cylinder	0.03	0.31	0.45	0.89	1.45	5.04	5.01	5.00	4.95	4.88	4.76	4.62	4.45
VVL-6 Cylinder	0.39	1.26	1.39	1.80	2.45	6.33	6.33	6.33	6.33	6.32	6.30	6.26	6.21
VVL-8 Cylinder	0.00	0.00	0.00	0.00	0.02	0.23	0.32	0.52	0.76	0.95	1.13	1.30	1.47
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.20
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.14	0.25
Cylinder Deactivation	0.00	0.00	0.02	0.08	0.23	1.08	1.15	1.51	1.99	2.20	2.48	2.73	3.01
Turbocharging/Supercharging	0.18	0.51	0.59	0.79	0.98	1.93	1.93	1.93	1.95	2.00	2.03	2.06	2.08
Engine Friction Reduction I	65.63	76.05	75.71	75.15	68.13	40.20	40.21	39.19	35.12	33.75	32.89	31.17	28.77
Engine Friction Reduction II	4.95	16.97	17.97	20.90	31.87	59.80	59.79	60.81	64.79	65.94	66.16	66.71	67.14
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.31	0.95	2.12	4.09
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.18	0.33	0.55	0.80	1.08
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.40	0.68
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.28	0.54	0.92
5W-30 Engine Oil	48.60	62.44	62.25	62.17	62.97	65.62	65.62	63.01	57.22	55.03	51.84	48.80	45.60
5W-20 Engine Oil	0.00	0.95	1.86	3.67	11.24	34.38	34.38	36.99	42.78	44.97	48.16	51.20	54.40
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.00	0.00	0.00	0.01	0.07	0.37	0.47	0.68	0.92	1.09	1.29	1.48	1.66

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Improved Alternator	0.00	0.00	0.00	0.03	0.14	1.17	1.41	1.98	2.79	3.21	3.71	4.19	4.65
Improved Oil/Water Pump	4.42	15.59	16.37	18.59	29.53	57.55	57.53	57.92	61.13	61.84	61.94	62.25	62.58
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.28	0.52	0.88	1.30	1.75
Tires II	58.06	75.80	75.80	75.89	82.88	91.13	88.13	82.48	75.72	72.81	69.18	65.40	61.80
Tires III	0.00	0.00	0.00	0.09	0.54	8.87	11.87	17.52	24.28	27.19	30.82	34.60	38.20
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	15.24	17.46	17.48	15.80	15.13	15.17	15.78	15.79	15.91	16.05	15.94	16.03	16.04
Four Wheel Drive Improvements	0.49	1.75	1.79	2.08	3.27	12.44	12.35	12.34	12.33	12.31	12.32	12.31	12.31
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.02	0.08	0.34	0.50	0.71	0.92	1.11	1.31	1.51
42V-Engine Off at Idle	0.00	0.00	0.00	0.02	0.08	0.34	0.50	0.71	0.92	1.11	1.31	1.51	1.69
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light-Duty Vehicle Total													
Unit Body Construction	57.52	61.98	62.12	60.82	60.07	64.49	64.30	63.91	63.71	63.55	63.22	63.00	62.73
Material Substitution II	43.64	60.51	60.56	60.43	60.67	71.41	71.46	71.44	71.38	71.35	71.29	71.24	71.17
Material Substitution III	0.19	2.00	2.12	2.42	3.86	11.03	11.16	11.82	12.69	12.70	12.81	12.95	12.97
Material Substitution IV	0.00	0.00	0.00	0.00	0.01	0.07	0.15	0.28	0.47	0.67	0.90	1.18	1.51
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Drag Reduction II	52.15	68.13	68.38	68.60	66.27	49.92	48.63	43.53	35.76	33.59	31.46	29.67	28.23
Drag Reduction III	2.63	12.18	12.51	13.78	22.34	41.33	41.76	44.38	48.30	48.84	49.16	49.44	49.65
Drag Reduction IV	0.04	0.92	0.93	1.19	2.68	6.32	7.42	10.66	15.00	16.57	18.29	19.66	20.69
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.26	0.49	0.81
Roll-Over Technology	0.00	0.00	0.00	12.66	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	12.66	50.00	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	6.73	12.92	13.43	14.82	19.95	29.24	32.62	38.88	45.15	49.02	53.78	58.26	61.65
Early Torque Converter Lockup	0.09	2.66	2.83	3.70	8.54	15.63	18.57	24.59	31.46	34.56	37.95	41.53	45.41
Aggressive Shift Logic	1.66	4.73	4.75	4.83	5.30	6.60	6.98	8.25	10.19	10.94	11.80	12.64	13.44
4-Speed Automatic	77.38	76.38	76.33	76.66	76.42	74.80	74.33	73.34	72.17	71.69	71.09	70.07	69.68
5-Speed Automatic	7.19	7.39	7.44	7.71	8.12	9.90	9.86	9.92	9.99	10.01	10.08	10.13	10.15
6-Speed Automatic	0.00	0.00	0.01	0.05	0.13	0.23	0.32	0.47	0.66	0.85	1.08	1.31	1.52
6-Speed Manual	0.79	1.87	1.90	2.04	2.56	4.43	4.46	4.59	4.73	4.75	4.79	4.82	4.83
CVT	0.08	0.33	0.36	0.45	0.65	0.88	0.97	1.15	1.33	1.39	1.48	1.62	1.68
Automated Manual Trans	0.00	0.00	0.00	0.00	0.02	0.11	0.41	1.25	2.44	3.19	4.22	5.05	5.45
Roller Cam	89.93	93.76	94.53	95.47	96.77	98.91	99.26	99.75	99.79	99.79	99.79	99.79	99.79
OHC/AdvOHV-4 Cylinder	3.19	1.78	1.76	1.64	1.56	0.58	0.59	0.58	0.58	0.58	0.57	0.57	0.56
OHC/AdvOHV-6 Cylinder	23.18	22.76	22.61	22.44	22.08	17.86	18.02	18.11	18.23	18.33	18.43	18.57	18.71
OHC/AdvOHV-8 Cylinder	14.02	13.49	13.40	13.67	13.82	12.43	12.46	12.56	12.63	12.69	12.79	12.86	12.95
4-Valve/4-Cylinder	27.15	30.15	30.23	29.02	28.45	29.06	29.12	28.86	28.74	28.66	28.40	28.27	28.06
4-Valve/6-Cylinder	15.86	16.26	16.42	17.34	18.13	24.21	24.16	24.24	24.23	24.21	24.27	24.25	24.25
4-Valve/8-Cylinder	6.40	6.52	6.63	7.28	7.77	11.47	11.36	11.38	11.38	11.36	11.41	11.41	11.42
5-Valve/6-Cylinder	1.11	1.10	1.10	1.12	1.12	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01
VVT-4 Cylinder	10.28	20.03	20.27	21.37	23.37	24.23	24.32	24.81	25.22	25.14	24.91	24.77	24.56
VVT-6 Cylinder	2.07	3.30	3.38	3.76	4.62	9.48	9.56	9.73	9.89	9.95	10.05	10.12	10.15
VVT-8 Cylinder	0.51	1.29	1.36	1.68	2.43	6.23	6.22	6.35	6.50	6.50	6.55	6.59	6.57
VVL-4 Cylinder	3.34	3.97	4.17	4.71	5.37	7.31	7.33	7.40	7.40	7.37	7.33	7.24	7.12
VVL-6 Cylinder	0.46	1.22	1.45	1.97	2.57	4.73	4.81	4.96	5.05	5.09	5.16	5.19	5.17
VVL-8 Cylinder	0.65	0.76	0.84	1.03	1.11	1.23	1.24	1.33	1.43	1.50	1.58	1.64	1.70
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.11	0.19	0.29	0.41
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.12	0.19	0.31	0.45	0.62
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.10	0.17	0.25	0.35	0.47	0.62
Cylinder Deactivation	0.00	0.00	0.02	0.10	0.27	0.83	0.99	1.33	1.71	1.88	2.10	2.31	2.53
Turbocharging/Supercharging	0.15	0.51	0.66	0.93	1.16	1.75	1.83	1.93	1.99	2.06	2.12	2.17	2.19
Engine Friction Reduction I	67.36	67.80	67.56	66.52	61.97	45.08	44.92	43.03	39.42	38.31	37.29	35.79	33.88
Engine Friction Reduction II	13.80	28.51	29.10	31.46	38.03	54.92	55.06	56.84	60.10	60.72	60.92	61.28	61.57
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.49	0.97	1.79	2.93	4.55
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.01	0.06	0.15	0.30	0.52	0.74	1.01	1.36	1.69
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.22	0.37	0.52	0.71	0.97	1.26
Lean Burn GDI	0.00	0.00	0.00	0.00	0.02	0.08	0.18	0.33	0.58	0.79	1.05	1.37	1.76
5W-30 Engine Oil	44.41	59.98	59.89	60.11	60.58	61.93	61.89	60.42	56.56	55.32	53.60	51.91	50.09
5W-20 Engine Oil	0.00	1.05	1.62	2.96	8.89	24.94	26.12	30.15	36.04	37.73	39.94	42.00	44.24
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.00	0.00	0.01	0.06	0.16	0.43	0.60	0.85	1.13	1.34	1.57	1.81	2.00
Improved Alternator	0.00	0.00	0.00	0.03	0.15	0.80	1.06	1.57	2.26	2.64	3.09	3.54	3.97
Improved Oil/Water Pump	2.52	11.89	12.25	13.58	22.32	41.20	41.66	44.49	48.68	49.29	49.73	50.21	50.52
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.21	0.42	0.69	1.04	1.43	1.85
Tires II	58.06	78.04	78.07	78.38	81.91	86.43	84.81	81.51	76.70	74.66	72.29	69.70	67.36
Tires III	0.00	0.00	0.00	0.07	0.47	5.45	7.93	12.65	18.82	21.43	24.44	27.50	30.14
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	49.50	50.64	50.83	49.67	48.74	48.14	48.06	47.69	47.43	47.24	46.87	46.61	46.29
Four Wheel Drive Improvements	0.32	1.28	1.31	1.49	2.26	7.20	7.23	7.41	7.54	7.57	7.62	7.66	7.71
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.02	0.09	0.28	0.43	0.63	0.84	1.03	1.23	1.43
42V-Engine Off at Idle	0.00	0.00	0.00	0.02	0.09	0.28	0.43	0.63	0.84	1.03	1.23	1.42	1.61
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Car												
Unit Body Construction	94.49	94.51	94.52	94.51	94.51	94.52	94.50	94.51	94.53	94.48	94.53	0.0%
Material Substitution II	71.68	71.59	71.43	71.27	71.13	70.98	70.84	70.70	70.56	70.45	70.37	-0.1%
Material Substitution III	11.59	11.70	11.70	11.70	11.70	11.70	11.70	11.72	11.78	11.79	11.82	6.0%
Material Substitution IV	2.89	3.26	3.63	3.93	4.24	4.45	4.65	4.83	4.91	4.96	5.01	N/A
Material Substitution V	0.11	0.25	0.44	0.70	0.97	1.27	1.57	1.89	2.22	2.50	2.79	N/A
Drag Reduction II	40.59	39.73	38.93	38.10	37.25	36.37	35.50	34.60	33.57	33.02	32.55	-3.6%
Drag Reduction III	35.73	35.83	35.82	35.82	35.80	35.78	35.80	35.83	35.93	35.99	36.00	6.6%
Drag Reduction IV	19.99	20.12	20.25	20.26	20.26	20.33	20.38	20.41	20.49	20.52	20.54	11.7%
Drag Reduction V	2.52	3.36	4.27	5.24	6.27	7.31	8.32	9.16	10.01	10.48	10.92	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Advanced Low Loss Torque Converter	67.52	68.61	68.61	68.63	68.62	68.69	68.78	68.85	68.98	69.03	69.03	4.7%
Early Torque Converter Lockup	50.00	50.99	51.89	51.95	51.95	52.32	52.53	52.66	52.87	52.95	53.00	11.1%
Aggressive Shift Logic	15.66	15.78	15.78	15.78	15.78	15.79	15.82	15.84	15.89	15.91	15.92	2.5%
4-Speed Automatic	59.02	58.72	58.59	58.58	58.39	58.25	58.25	58.19	58.11	58.20	58.08	-0.8%
5-Speed Automatic	9.36	9.39	9.36	9.37	9.36	9.36	9.37	9.37	9.37	9.38	9.37	0.8%
6-Speed Automatic	2.11	2.21	2.29	2.33	2.50	2.58	2.60	2.60	2.61	2.62	2.61	N/A
6-Speed Manual	4.23	4.26	4.26	4.25	4.25	4.26	4.26	4.26	4.27	4.26	4.27	2.5%
CVT	3.40	3.46	3.47	3.48	3.49	3.52	3.54	3.56	3.59	3.61	3.63	8.2%
Automated Manual Trans	10.20	10.28	10.34	10.32	10.33	10.34	10.32	10.34	10.35	10.30	10.35	N/A
Roller Cam	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	99.88	0.0%
OHC/AdvOHV-4 Cylinder	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.25	1.24	1.25	-0.4%
OHC/AdvOHV-6 Cylinder	3.42	3.41	3.41	3.42	3.41	3.41	3.42	3.41	3.41	3.43	3.41	-1.5%
OHC/AdvOHV-8 Cylinder	2.99	2.98	2.98	2.98	2.98	2.97	2.98	2.98	2.97	2.99	2.97	0.3%
4-Valve/4-Cylinder	50.43	50.48	50.49	50.44	50.47	50.50	50.45	50.48	50.53	50.39	50.53	-0.2%
4-Valve/6-Cylinder	24.06	24.04	24.04	24.05	24.05	24.04	24.05	24.04	24.02	24.07	24.03	0.5%
4-Valve/8-Cylinder	9.34	9.33	9.32	9.33	9.33	9.32	9.33	9.33	9.31	9.35	9.32	0.7%
5-Valve/6-Cylinder	2.23	2.23	2.23	2.24	2.24	2.23	2.23	2.23	2.23	2.24	2.23	0.2%
VVT-4 Cylinder	42.64	42.58	42.50	42.36	42.28	42.20	42.05	41.97	41.95	41.70	41.75	1.1%
VVT-6 Cylinder	6.56	6.62	6.62	6.62	6.62	6.62	6.63	6.63	6.64	6.64	6.64	2.0%
VVT-8 Cylinder	2.87	2.87	2.86	2.86	2.86	2.86	2.87	2.87	2.88	2.89	2.89	3.7%
VVL-4 Cylinder	10.37	10.40	10.40	10.40	10.40	10.40	10.39	10.40	10.41	10.29	10.24	1.4%
VVL-6 Cylinder	3.95	3.97	3.95	3.94	3.93	3.93	3.92	3.92	3.92	3.92	3.92	5.6%
VVL-8 Cylinder	1.91	1.88	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.1%
Camless Valve Actuation-4cyl	1.13	1.45	1.74	2.04	2.29	2.56	2.75	2.95	3.06	3.36	3.49	N/A
Camless Valve Actuation-6cyl	1.42	1.69	1.97	2.20	2.43	2.64	2.83	2.92	3.17	3.27	3.30	N/A
Camless Valve Actuation-8cyl	1.23	1.39	1.50	1.61	1.72	1.83	1.88	1.98	2.04	2.05	2.05	N/A
Cylinder Deactivation	2.10	2.26	2.42	2.49	2.57	2.65	2.67	2.67	2.68	2.69	2.68	N/A
Turbocharging/Supercharging	2.36	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.39	2.38	2.39	7.3%
Engine Friction Reduction I	38.72	37.32	35.68	34.04	32.31	30.37	29.02	27.78	26.33	24.92	23.80	-4.1%
Engine Friction Reduction II	54.85	54.83	54.79	54.78	54.75	54.71	54.70	54.67	54.65	54.67	54.60	1.5%
Engine Friction Reduction III	6.43	7.82	9.35	10.69	12.01	13.36	13.97	14.42	14.99	15.42	15.59	N/A
Engine Friction Reduction IV	0.00	0.03	0.18	0.49	0.94	1.57	2.30	3.12	4.03	4.99	6.01	N/A
Stoichiometric GDI/4-Cylinder	2.87	3.23	3.60	3.89	4.18	4.41	5.05	5.34	5.49	5.56	5.64	N/A
Stoichiometric GDI/6-Cylinder	2.28	2.55	2.82	3.04	3.27	3.41	3.75	3.90	3.96	3.99	4.01	N/A
Lean Burn GDI	3.19	3.55	3.91	4.19	4.47	4.66	4.87	5.01	5.06	5.07	5.09	N/A
5W-30 Engine Oil	54.93	54.67	54.38	54.13	54.10	53.95	53.89	53.84	53.77	53.78	53.76	-0.3%
5W-20 Engine Oil	33.41	34.09	34.93	35.74	35.87	36.38	36.65	36.81	37.04	37.14	37.18	17.1%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	2.66	2.85	3.04	3.14	3.24	3.36	3.39	3.41	3.43	3.45	3.46	N/A
Improved Alternator	3.49	3.83	4.10	4.37	4.50	4.68	4.82	4.85	4.87	4.88	4.88	N/A
Improved Oil/Water Pump	36.11	36.23	36.22	36.24	36.23	36.22	36.25	36.29	36.40	36.46	36.46	6.9%
Electric Oil/Water Pump	2.36	2.77	3.13	3.50	3.80	4.14	4.33	4.52	4.69	4.76	4.80	N/A
Tires II	72.87	71.23	69.56	67.56	65.87	63.48	61.16	59.22	57.20	55.25	53.17	-1.9%
Tires III	22.27	24.47	26.56	27.94	28.75	30.35	31.71	32.31	32.78	32.96	33.07	N/A
Tires IV	0.05	0.24	0.70	1.43	2.51	3.93	5.59	7.45	9.53	11.75	13.76	N/A
Front Wheel Drive	82.68	82.67	82.67	82.67	82.67	82.67	82.67	82.67	82.67	82.68	82.67	0.0%

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Four Wheel Drive Improvements	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	4.5%
42V-Launch Assist and Regen	1.52	1.68	1.84	1.96	2.08	2.13	2.20	2.25	2.26	2.26	2.27	N/A
42V-Engine Off at Idle	1.68	1.84	1.96	2.08	2.13	2.20	2.25	2.26	2.26	2.27	2.27	N/A
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increased Size/Weight	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	9.0%
Variable Compression Ratio	0.02	0.10	0.22	0.37	0.56	0.75	0.95	1.18	1.40	1.61	1.78	N/A
Light Truck												
Unit Body Construction	36.32	36.33	36.32	36.29	36.29	36.31	36.30	36.32	36.34	36.29	36.34	1.3%
Material Substitution II	70.63	70.54	70.44	70.31	70.15	70.00	69.86	69.73	69.48	69.30	69.10	1.7%
Material Substitution III	14.23	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	15.2%
Material Substitution IV	1.03	1.37	1.72	2.09	2.48	2.87	3.24	3.59	3.95	4.13	4.32	N/A
Material Substitution V	0.00	0.00	0.00	0.02	0.06	0.13	0.24	0.40	0.57	0.75	0.93	N/A
Drag Reduction II	15.16	13.56	11.99	10.41	9.47	8.34	7.29	6.57	5.89	5.32	4.71	-11.1%
Drag Reduction III	61.13	60.59	59.76	58.68	57.72	56.10	54.70	53.83	53.02	52.38	51.71	5.6%
Drag Reduction IV	23.59	25.50	27.52	29.56	30.67	32.43	33.80	34.18	34.41	34.41	34.41	N/A
Drag Reduction V	0.12	0.35	0.73	1.35	2.14	3.12	4.21	5.42	6.68	7.89	9.17	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Advanced Low Loss Torque Converter	63.59	68.89	74.33	76.57	79.21	81.52	81.70	81.72	81.79	81.78	81.78	N/A
Early Torque Converter Lockup	47.12	52.14	56.62	61.13	62.98	65.78	67.78	68.06	68.19	68.18	68.18	N/A
Aggressive Shift Logic	13.24	14.83	16.05	17.34	17.81	18.59	19.18	19.38	19.51	19.51	19.51	N/A
4-Speed Automatic	77.05	75.87	74.93	73.99	73.00	71.96	71.32	71.18	70.68	70.43	70.45	-0.8%
5-Speed Automatic	10.85	10.85	10.85	10.85	10.84	10.84	10.85	10.85	10.85	10.85	10.84	2.1%
6-Speed Automatic	1.52	1.83	2.14	2.42	2.70	2.98	3.25	3.37	3.77	3.92	3.94	N/A
6-Speed Manual	5.36	5.35	5.35	5.36	5.36	5.36	5.36	5.35	5.35	5.36	5.35	6.8%
CVT	0.40	0.49	0.58	0.65	0.73	0.80	0.87	0.91	1.02	1.06	1.08	N/A
Automated Manual Trans	2.45	3.32	3.93	4.58	5.23	5.92	6.22	6.21	6.20	6.24	6.20	N/A
Roller Cam	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	99.71	0.6%
OHC/AdvOHV-4 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-55.6%
OHC/AdvOHV-6 Cylinder	31.41	31.41	31.40	31.39	31.38	31.39	31.39	31.40	31.41	31.39	31.41	-1.3%
OHC/AdvOHV-8 Cylinder	21.23	21.23	21.24	21.24	21.25	21.25	21.24	21.24	21.24	21.23	21.24	-0.7%
4-Valve/4-Cylinder	9.50	9.49	9.49	9.50	9.50	9.49	9.50	9.49	9.48	9.51	9.48	1.5%
4-Valve/6-Cylinder	24.41	24.41	24.41	24.41	24.41	24.41	24.40	24.41	24.41	24.40	24.41	3.9%
4-Valve/8-Cylinder	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	4.6%
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
VVT-4 Cylinder	9.44	9.36	9.25	9.10	8.92	8.72	8.47	8.22	7.97	7.77	7.52	0.5%
VVT-6 Cylinder	13.16	13.12	13.07	13.03	12.96	12.90	12.84	12.79	12.73	12.68	12.63	8.1%
VVT-8 Cylinder	9.63	9.61	9.60	9.58	9.56	9.49	9.42	9.33	9.25	9.17	9.13	9.4%
VVL-4 Cylinder	4.21	3.97	3.69	3.37	3.08	3.08	3.08	3.03	2.88	2.82	2.77	10.4%
VVL-6 Cylinder	6.14	6.05	5.94	5.83	5.71	5.59	5.54	5.54	5.54	5.54	5.54	6.9%
VVL-8 Cylinder	1.67	1.88	2.08	2.28	2.37	2.49	2.58	2.58	2.59	2.59	2.59	N/A
Camless Valve Actuation-4cyl	0.06	0.13	0.24	0.40	0.58	0.77	1.03	1.27	1.51	1.74	1.96	N/A
Camless Valve Actuation-6cyl	0.36	0.60	0.86	1.13	1.47	1.80	2.14	2.44	2.76	3.04	3.32	N/A
Camless Valve Actuation-8cyl	0.39	0.54	0.70	0.90	1.08	1.26	1.45	1.64	1.83	2.02	2.11	N/A
Cylinder Deactivation	3.30	3.61	3.74	3.88	3.99	4.05	4.05	4.05	4.05	4.06	4.05	N/A
Turbocharging/Supercharging	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	6.6%
Engine Friction Reduction I	26.33	23.37	19.97	16.57	13.69	10.94	8.61	7.23	5.59	4.28	2.84	-13.9%
Engine Friction Reduction II	66.93	66.85	66.68	65.95	64.83	63.75	62.09	59.14	55.93	53.56	51.22	5.1%
Engine Friction Reduction III	6.74	9.73	13.16	16.93	20.31	23.05	25.60	28.20	31.06	32.60	34.20	N/A
Engine Friction Reduction IV	0.00	0.05	0.19	0.55	1.17	2.26	3.71	5.43	7.42	9.56	11.74	N/A
Stoichiometric GDI/4-Cylinder	1.48	1.86	2.25	2.62	2.93	2.93	2.88	2.80	2.90	2.86	2.76	N/A
Stoichiometric GDI/6-Cylinder	0.98	1.30	1.73	2.13	2.54	2.93	3.27	3.52	3.79	3.90	4.31	N/A
Lean Burn GDI	1.35	1.80	2.32	2.84	3.37	3.91	4.37	4.74	5.11	5.27	5.54	N/A
5W-30 Engine Oil	44.50	43.04	41.97	41.97	41.97	41.95	41.95	41.94	41.92	41.92	41.92	-1.8%
5W-20 Engine Oil	55.50	56.96	58.03	58.03	58.03	58.05	58.05	58.06	58.08	58.08	58.08	20.5%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	1.84	1.99	2.14	2.22	2.30	2.39	2.42	2.44	2.45	2.46	2.47	N/A

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Improved Alternator	5.13	5.58	6.05	6.27	6.49	6.76	6.81	6.82	6.83	6.83	6.83	N/A
Improved Oil/Water Pump	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	62.58	6.5%
Electric Oil/Water Pump	2.24	2.76	3.31	3.85	4.40	4.99	5.57	5.92	6.29	6.58	6.70	N/A
Tires II	57.83	53.97	49.67	47.02	43.38	38.86	35.50	31.85	27.63	24.16	21.80	-5.5%
Tires III	42.10	45.79	49.56	51.19	53.05	54.94	55.10	55.12	55.16	54.94	54.79	N/A
Tires IV	0.07	0.25	0.77	1.78	3.57	6.20	9.40	13.04	17.20	20.90	23.42	N/A
Front Wheel Drive	16.05	16.07	16.07	16.03	16.04	16.06	16.04	16.07	16.10	16.02	16.11	-0.4%
Four Wheel Drive Improvements	12.31	12.31	12.31	12.31	12.31	12.31	12.31	12.31	12.30	12.31	12.30	9.3%
42V-Launch Assist and Regen	1.69	1.87	2.03	2.18	2.25	2.33	2.40	2.41	2.42	2.42	2.42	N/A
42V-Engine Off at Idle	1.87	2.03	2.18	2.25	2.33	2.40	2.41	2.42	2.42	2.42	2.43	N/A
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increased Size/Weight	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	9.0%
Variable Compression Ratio	0.01	0.06	0.14	0.24	0.38	0.53	0.68	0.86	1.02	1.19	1.32	N/A
Light-Duty Vehicle Total												
Unit Body Construction	62.48	62.28	62.09	61.89	61.72	61.55	61.32	61.12	60.91	60.59	60.40	-0.1%
Material Substitution II	71.11	71.01	70.88	70.73	70.57	70.43	70.28	70.14	69.93	69.78	69.62	0.6%
Material Substitution III	13.04	13.11	13.12	13.12	13.13	13.14	13.15	13.17	13.20	13.22	13.24	9.0%
Material Substitution IV	1.87	2.21	2.57	2.90	3.25	3.55	3.85	4.12	4.36	4.48	4.61	N/A
Material Substitution V	0.05	0.11	0.20	0.31	0.46	0.62	0.81	1.03	1.27	1.48	1.70	N/A
Drag Reduction II	26.59	25.23	23.92	22.59	21.60	20.50	19.42	18.51	17.58	16.88	16.22	-6.3%
Drag Reduction III	49.71	49.55	49.16	48.63	48.15	47.29	46.57	46.16	45.80	45.53	45.21	6.1%
Drag Reduction IV	21.97	23.10	24.30	25.47	26.12	27.19	28.03	28.31	28.53	28.61	28.68	16.9%
Drag Reduction V	1.20	1.69	2.30	3.06	3.94	4.94	5.98	7.01	8.09	8.97	9.89	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Advanced Low Loss Torque Converter	65.36	68.76	71.79	73.08	74.59	75.96	76.15	76.23	76.38	76.46	76.51	8.4%
Early Torque Converter Lockup	48.41	51.63	54.53	57.09	58.16	59.94	61.23	61.50	61.72	61.82	61.90	15.4%
Aggressive Shift Logic	14.33	15.26	15.93	16.66	16.93	17.38	17.74	17.87	17.98	18.01	18.03	6.3%
4-Speed Automatic	68.94	68.22	67.70	67.21	66.62	66.02	65.70	65.64	65.38	65.32	65.34	-0.7%
5-Speed Automatic	10.18	10.20	10.19	10.20	10.20	10.20	10.21	10.22	10.22	10.24	10.23	1.5%
6-Speed Automatic	1.79	2.00	2.21	2.38	2.62	2.81	2.97	3.05	3.28	3.38	3.39	N/A
6-Speed Manual	4.85	4.86	4.87	4.87	4.88	4.88	4.88	4.89	4.89	4.90	4.90	4.5%
CVT	1.75	1.81	1.86	1.89	1.93	1.98	2.02	2.04	2.11	2.12	2.14	8.9%
Automated Manual Trans	5.94	6.42	6.77	7.11	7.46	7.84	7.98	7.97	7.95	7.93	7.92	N/A
Roller Cam	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.78	99.78	99.78	99.78	0.3%
OHC/AdvOHV-4 Cylinder	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.53	0.52	0.52	-5.5%
OHC/AdvOHV-6 Cylinder	18.82	18.92	19.00	19.09	19.17	19.26	19.37	19.47	19.59	19.72	19.83	-0.6%
OHC/AdvOHV-8 Cylinder	13.03	13.09	13.15	13.21	13.27	13.32	13.39	13.46	13.52	13.62	13.68	0.1%
4-Valve/4-Cylinder	27.90	27.77	27.65	27.50	27.39	27.28	27.10	26.96	26.82	26.58	26.45	-0.6%
4-Valve/6-Cylinder	24.25	24.24	24.24	24.25	24.25	24.25	24.25	24.25	24.25	24.26	24.25	1.8%
4-Valve/8-Cylinder	11.44	11.44	11.45	11.47	11.48	11.49	11.51	11.52	11.53	11.56	11.56	2.6%
5-Valve/6-Cylinder	1.00	1.00	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	-0.8%
VVT-4 Cylinder	24.37	24.18	23.97	23.72	23.49	23.24	22.90	22.60	22.32	21.94	21.67	0.4%
VVT-6 Cylinder	10.19	10.22	10.21	10.21	10.19	10.18	10.17	10.16	10.16	10.16	10.15	5.2%
VVT-8 Cylinder	6.59	6.61	6.61	6.62	6.63	6.62	6.60	6.58	6.56	6.55	6.55	7.7%
VVL-4 Cylinder	6.98	6.84	6.66	6.46	6.28	6.25	6.22	6.17	6.06	5.94	5.86	1.8%
VVL-6 Cylinder	5.15	5.12	5.06	5.00	4.93	4.87	4.84	4.85	4.85	4.86	4.87	6.5%
VVL-8 Cylinder	1.78	1.88	1.98	2.10	2.15	2.22	2.27	2.28	2.28	2.29	2.29	5.2%
Camless Valve Actuation-4cyl	0.54	0.72	0.91	1.12	1.33	1.55	1.77	1.98	2.16	2.41	2.59	N/A
Camless Valve Actuation-6cyl	0.84	1.09	1.35	1.60	1.89	2.16	2.43	2.65	2.93	3.14	3.31	N/A
Camless Valve Actuation-8cyl	0.77	0.92	1.06	1.21	1.35	1.51	1.64	1.79	1.92	2.03	2.09	N/A
Cylinder Deactivation	2.76	3.00	3.15	3.27	3.37	3.44	3.46	3.46	3.47	3.48	3.49	N/A
Turbocharging/Supercharging	2.21	2.22	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	6.9%
Engine Friction Reduction I	31.90	29.59	26.93	24.25	21.82	19.36	17.38	15.99	14.35	12.90	11.51	-7.7%
Engine Friction Reduction II	61.50	61.49	61.41	61.04	60.43	59.83	58.91	57.24	55.39	54.02	52.62	2.8%
Engine Friction Reduction III	6.60	8.88	11.47	14.19	16.68	18.84	20.60	22.33	24.27	25.43	26.51	N/A
Engine Friction Reduction IV	0.00	0.04	0.19	0.52	1.07	1.96	3.10	4.45	5.99	7.65	9.37	N/A

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Stoichiometric GDI/4-Cylinder	2.11	2.47	2.85	3.18	3.48	3.57	3.81	3.88	3.99	3.99	3.95	N/A
Stoichiometric GDI/6-Cylinder	1.56	1.86	2.21	2.53	2.85	3.14	3.48	3.69	3.86	3.93	4.18	N/A
Lean Burn GDI	2.18	2.58	3.02	3.43	3.85	4.23	4.58	4.85	5.09	5.19	5.35	N/A
5W-30 Engine Oil	49.19	48.22	47.47	47.32	47.27	47.16	47.08	47.01	46.93	46.87	46.81	-1.1%
5W-20 Engine Oil	45.56	46.76	47.80	48.23	48.35	48.65	48.85	49.01	49.20	49.34	49.44	19.1%
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	2.21	2.37	2.54	2.62	2.71	2.81	2.84	2.85	2.87	2.87	2.88	N/A
Improved Alternator	4.39	4.80	5.19	5.43	5.62	5.86	5.95	5.98	6.00	6.02	6.03	N/A
Improved Oil/Water Pump	50.68	50.83	50.91	51.00	51.07	51.15	51.26	51.38	51.52	51.67	51.78	6.9%
Electric Oil/Water Pump	2.29	2.76	3.23	3.69	4.14	4.62	5.04	5.33	5.62	5.82	5.92	N/A
Tires II	64.59	61.67	58.48	56.05	53.20	49.54	46.53	43.51	40.12	37.14	34.77	-3.6%
Tires III	33.19	36.28	39.37	40.97	42.44	44.28	45.05	45.40	45.71	45.76	45.81	N/A
Tires IV	0.06	0.24	0.74	1.63	3.11	5.22	7.76	10.66	13.96	17.08	19.43	N/A
Front Wheel Drive	46.01	45.77	45.56	45.33	45.14	44.95	44.68	44.45	44.21	43.85	43.63	-0.7%
Four Wheel Drive Improvements	7.75	7.79	7.82	7.86	7.89	7.92	7.96	7.99	8.03	8.08	8.12	8.7%
42V-Launch Assist and Regen	1.61	1.78	1.94	2.09	2.18	2.25	2.32	2.34	2.35	2.36	2.36	N/A
42V-Engine Off at Idle	1.78	1.94	2.09	2.18	2.25	2.32	2.34	2.35	2.36	2.36	2.36	N/A
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increased Size/Weight	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	9.0%
Variable Compression Ratio	0.02	0.08	0.17	0.30	0.46	0.62	0.80	1.00	1.18	1.36	1.51	N/A

Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gasoline													
Mini-compact Cars	24.93	26.38	26.41	26.25	26.50	26.81	26.65	27.00	27.33	27.40	27.46	27.53	27.60
Subcompact Cars	30.97	32.45	32.44	32.22	32.06	32.02	31.71	31.92	32.24	32.31	32.41	32.49	32.54
Compact Cars	30.21	31.75	31.77	31.60	31.52	31.49	31.21	31.47	31.80	31.90	32.05	32.12	32.16
Midsize Cars	26.74	27.92	27.93	27.79	27.73	27.77	27.51	27.75	28.01	28.05	28.12	28.20	28.24
Large Cars	25.24	25.88	25.88	25.71	25.65	25.73	25.51	25.72	25.97	26.03	26.12	26.22	26.26
Two Seater Cars	25.06	25.81	25.81	25.66	25.66	25.81	25.62	25.89	26.17	26.25	26.35	26.46	26.55
Small Pickup	22.68	23.63	23.63	23.72	23.60	25.01	24.74	24.81	24.92	24.99	25.07	25.18	25.34
Large Pickup	19.08	19.60	19.62	19.66	19.52	20.30	20.12	20.21	20.38	20.46	20.55	20.65	20.73
Small Van	23.49	24.34	24.33	24.30	24.11	25.30	25.02	25.07	25.16	25.20	25.25	25.31	25.38
Large Van	18.24	18.73	18.77	18.82	18.81	19.69	19.50	19.60	19.78	19.86	19.94	20.01	20.11
Small Utility	21.62	22.56	22.56	22.58	22.49	23.97	23.73	23.82	23.97	24.04	24.13	24.23	24.33
Large Utility	17.68	18.05	18.08	18.13	18.12	18.99	18.82	18.94	19.12	19.20	19.30	19.38	19.49
Turbo Direct Injection Diesel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.91	42.77	42.64	42.55	42.46
Compact Cars	40.57	42.46	42.45	42.12	41.68	41.34	40.87	40.95	41.12	41.14	41.18	41.24	41.28
Midsize Cars	0.00	0.00	37.66	37.27	36.79	36.42	36.00	36.04	36.15	36.13	36.12	36.10	36.07
Large Cars	0.00	0.00	0.00	0.00	0.00	34.15	33.72	33.70	33.77	33.77	33.80	33.84	33.89
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	32.15	31.72	31.68	31.69	31.67	31.65	31.65	31.70
Large Pickup	25.59	26.28	26.27	26.24	25.94	26.79	26.47	26.47	26.54	26.55	26.55	26.57	26.59
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.69	33.59	33.49	33.41	33.35
Large Van	24.53	25.13	25.11	25.07	24.90	25.94	25.63	25.64	25.70	25.72	25.72	25.75	25.79
Small Utility	0.00	0.00	30.43	30.39	29.86	31.17	30.76	30.75	30.79	30.78	30.79	30.80	30.82
Large Utility	23.74	24.19	24.17	24.13	23.93	24.96	24.67	24.70	24.77	24.80	24.82	24.86	24.90
Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	27.26	28.47	28.48	28.33	28.25	28.28	28.02	28.25	28.52	28.56	28.64	28.72	28.78
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	27.78	29.03	29.03	28.87	28.78	28.79	28.53	28.76	29.03	29.07	29.14	29.23	29.30
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol Flex													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.11	32.02	31.99	32.03	32.12
Compact Cars	30.50	32.07	32.09	31.90	31.80	31.76	31.47	31.72	32.10	32.19	32.34	32.43	32.46
Midsize Cars	27.00	28.20	28.21	28.05	27.98	28.02	27.76	28.00	28.27	28.31	28.38	28.47	28.52
Large Cars	0.00	0.00	0.00	0.00	0.00	25.61	25.35	25.48	25.68	25.77	25.87	25.99	26.12
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	22.90	23.85	23.86	23.93	23.80	25.23	24.97	25.05	25.17	25.24	25.33	25.45	25.61
Large Pickup	19.27	19.80	19.81	19.85	19.71	20.52	20.33	20.44	20.62	20.71	20.80	20.91	21.00
Small Van	23.72	24.58	24.57	24.53	24.34	25.55	25.27	25.32	25.41	25.46	25.51	25.58	25.66
Large Van	0.00	0.00	0.00	18.87	18.69	19.22	19.04	19.18	19.41	19.50	19.65	19.75	19.91
Small Utility	0.00	0.00	0.00	0.00	0.00	23.14	22.90	22.99	23.18	23.28	23.43	23.58	23.72
Large Utility	17.85	18.23	18.26	18.31	18.29	19.21	19.05	19.17	19.36	19.45	19.55	19.64	19.75
Compressed Natural Gas													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	32.57	34.23	34.25	34.09	33.96	33.86	33.53	33.72	34.04	34.11	34.22	34.35	34.35
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	27.21	27.88	27.87	27.66	27.54	27.55	27.29	27.48	27.71	27.74	27.80	27.88	27.93
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	20.55	21.09	21.11	21.15	20.98	21.71	21.48	21.52	21.64	21.69	21.74	21.80	21.87
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	19.69	20.18	20.20	20.26	20.17	21.03	20.80	20.85	20.98	21.03	21.09	21.16	21.21
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	30.19	31.67	31.69	31.59	31.53	31.48	31.20	31.42	31.72	31.80	31.93	31.98	31.98
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	25.65	25.40	25.23	25.04	25.23	25.46	25.54	25.63	25.72	25.79
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.05	19.55	19.58	19.64	19.49	20.18	19.96	20.01	20.14	20.19	20.24	20.27	20.33
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	18.25	18.70	18.74	18.80	18.74	19.53	19.32	19.39	19.53	19.58	19.64	19.68	19.75
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.82	20.37	20.38	20.41	20.26	21.05	20.85	20.93	21.10	21.17	21.26	21.35	21.42
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	18.96	19.47	19.49	19.55	19.51	20.41	20.22	20.30	20.47	20.54	20.63	20.72	20.80
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	31.45	31.10	30.92	30.66	30.88	31.22	31.36	31.55	31.65	31.71
Midsize Cars	0.00	0.00	0.00	27.69	27.42	27.28	27.05	27.24	27.49	27.56	27.64	27.73	27.79
Large Cars	0.00	0.00	0.00	25.65	25.40	25.24	25.06	25.27	25.52	25.60	25.71	25.82	25.91
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	19.07	19.59	19.62	19.66	19.51	20.27	20.07	20.14	20.30	20.36	20.44	20.50	20.58
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	18.25	18.72	18.75	18.81	18.79	19.65	19.45	19.53	19.70	19.77	19.85	19.90	19.99
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	44.49	43.90	43.98	44.06	44.03	43.99	43.95	43.91
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.33	54.36	54.31	54.28	54.24	54.19
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	32.21	33.23	36.58	40.23	44.80	50.74	50.03	50.03	50.00	49.95	49.90	49.85	49.81
Small Pickup	26.63	27.41	30.15	33.52	36.90	42.53	41.91	41.82	41.74	41.65	41.58	41.50	41.44
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	25.48	28.16	32.38	31.92	31.85	31.78	31.71	31.65	31.59	31.53
Small Utility	25.21	26.18	28.80	32.03	35.28	41.52	40.92	40.83	40.74	40.66	40.59	40.51	40.44
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diesel-Electric Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.11	49.91	49.72	49.56	49.41
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.68	44.49	44.31
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.82
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gasoline-Electric Hybrid													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.55	46.36	46.19	46.03
Compact Cars	43.57	45.79	45.78	45.39	44.87	44.31	43.75	43.71	43.73	43.66	43.61	43.56	43.50
Midsize Cars	0.00	0.00	0.00	0.00	0.00	39.55	39.01	38.90	38.82	38.75	38.68	38.62	38.57
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.88	36.79	36.72	36.66	36.61	36.58
Two Seater Cars	36.05	37.15	37.12	36.77	36.39	36.13	35.75	35.85	35.99	35.97	35.97	35.97	35.96
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.41	29.29	29.19	29.12
Small Van	0.00	0.00	0.00	0.00	0.00	34.84	34.30	34.14	34.03	33.93	33.84	33.77	33.71
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	32.56	31.84	32.78	32.33	32.26	32.26	32.22	32.19	32.17	32.15
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.16	27.08	27.02	26.98	26.94	26.93
Fuel Cell Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	63.03	62.18	61.43	60.57	60.58	60.62	60.57	60.53	60.49	60.44
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.68	50.63
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.76
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	46.20	45.12	46.30	45.63	45.54	45.44	45.35	45.26	45.18	45.10
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Gasoline													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	38.97	38.96	38.96	38.92	38.90	38.87	38.83
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.81	35.74	35.69
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.68	38.61	38.54
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Gasoline												
Mini-compact Cars	27.68	27.75	27.83	27.87	27.93	27.99	28.08	28.16	28.25	28.32	28.35	0.3%
Subcompact Cars	32.61	32.68	32.76	32.81	32.87	32.95	33.06	33.15	33.23	33.30	33.35	0.1%
Compact Cars	32.22	32.28	32.35	32.40	32.45	32.52	32.62	32.70	32.77	32.82	32.86	0.2%
Midsize Cars	28.30	28.37	28.44	28.50	28.57	28.63	28.73	28.81	28.88	28.93	28.98	0.2%
Large Cars	26.33	26.41	26.48	26.56	26.64	26.74	26.84	26.93	27.02	27.09	27.16	0.2%
Two Seater Cars	26.66	26.76	26.83	26.90	26.96	27.04	27.13	27.22	27.31	27.38	27.44	0.3%
Small Pickup	25.49	25.64	25.76	25.88	25.99	26.12	26.25	26.36	26.48	26.58	26.67	0.6%
Large Pickup	20.83	20.95	21.09	21.21	21.32	21.42	21.55	21.65	21.78	21.88	21.95	0.5%
Small Van	25.46	25.55	25.66	25.73	25.81	25.91	26.03	26.13	26.25	26.35	26.45	0.4%
Large Van	20.23	20.36	20.50	20.59	20.68	20.83	20.98	21.12	21.28	21.38	21.51	0.6%
Small Utility	24.44	24.54	24.66	24.78	24.89	25.02	25.14	25.27	25.41	25.53	25.64	0.6%
Large Utility	19.60	19.72	19.84	19.95	20.04	20.16	20.29	20.41	20.53	20.61	20.71	0.6%
Turbo Direct Injection Diesel												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	42.40	42.38	42.40	42.39	42.39	42.42	42.46	42.50	42.54	42.55	42.56	N/A
Compact Cars	41.31	41.28	41.27	41.26	41.25	41.26	41.28	41.30	41.32	41.31	41.31	-0.1%
Midsize Cars	36.07	36.07	36.08	36.08	36.09	36.08	36.09	36.10	36.11	36.09	36.09	N/A
Large Cars	33.96	34.03	34.10	34.14	34.18	34.23	34.28	34.32	34.36	34.38	34.40	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	31.80	31.92	32.03	32.09	32.15	32.23	32.34	32.42	32.46	32.49	32.52	N/A
Large Pickup	26.63	26.68	26.75	26.80	26.82	26.87	26.93	26.99	27.03	27.07	27.11	0.1%
Small Van	33.33	33.33	33.35	33.36	33.38	33.43	33.50	33.57	33.64	33.69	33.74	N/A
Large Van	25.84	25.90	25.98	26.02	26.06	26.14	26.23	26.32	26.39	26.45	26.52	0.2%
Small Utility	30.85	30.89	30.94	30.99	31.03	31.10	31.18	31.26	31.34	31.41	31.47	N/A
Large Utility	24.95	25.02	25.08	25.12	25.18	25.26	25.36	25.42	25.51	25.58	25.66	0.3%
Methanol												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol Flex												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	28.85	28.91	28.98	29.05	29.12	29.19	29.29	29.37	29.44	29.50	29.56	0.2%
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol												

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	29.37	29.44	29.51	29.57	29.64	29.71	29.81	29.89	29.97	30.03	30.09	0.2%
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol Flex												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	32.22	32.31	32.44	32.58	32.75	32.91	33.10	33.27	33.41	33.52	33.62	N/A
Compact Cars	32.52	32.59	32.67	32.73	32.79	32.84	32.94	33.01	33.09	33.14	33.19	0.2%
Midsize Cars	28.59	28.65	28.72	28.79	28.86	28.93	29.02	29.10	29.18	29.24	29.29	0.2%
Large Cars	26.25	26.38	26.50	26.62	26.74	26.88	27.00	27.11	27.23	27.31	27.39	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	25.77	25.92	26.07	26.19	26.32	26.47	26.62	26.73	26.85	26.95	27.03	0.6%
Large Pickup	21.11	21.23	21.37	21.49	21.60	21.71	21.84	21.95	22.07	22.17	22.24	0.5%
Small Van	25.75	25.84	25.95	26.02	26.11	26.21	26.34	26.46	26.57	26.67	26.78	0.4%
Large Van	20.09	20.25	20.42	20.55	20.65	20.80	20.95	21.09	21.25	21.35	21.48	N/A
Small Utility	23.88	24.04	24.20	24.38	24.52	24.68	24.83	24.98	25.14	25.26	25.39	N/A
Large Utility	19.87	20.00	20.12	20.22	20.31	20.44	20.57	20.69	20.82	20.89	20.99	0.6%
Compressed Natural Gas												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	34.38	34.41	34.46	34.50	34.54	34.57	34.63	34.68	34.72	34.73	34.75	0.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	27.97	28.02	28.07	28.13	28.19	28.26	28.36	28.44	28.50	28.54	28.58	0.1%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	21.93	22.01	22.11	22.19	22.27	22.35	22.45	22.54	22.64	22.71	22.75	0.3%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	21.28	21.38	21.51	21.61	21.70	21.79	21.91	22.02	22.13	22.23	22.30	0.5%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-Fuel												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	32.01	32.04	32.09	32.11	32.13	32.17	32.24	32.28	32.32	32.33	32.34	0.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	25.90	26.01	26.10	26.18	26.26	26.36	26.44	26.51	26.59	26.63	26.68	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	20.40	20.49	20.58	20.65	20.69	20.78	20.86	20.94	21.02	21.05	21.10	0.3%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	19.83	19.94	20.03	20.10	20.17	20.27	20.37	20.47	20.59	20.65	20.74	0.5%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	21.52	21.62	21.76	21.87	21.97	22.08	22.21	22.32	22.44	22.53	22.60	0.5%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	20.89	21.02	21.15	21.27	21.37	21.49	21.64	21.77	21.91	22.04	22.13	0.6%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-Fuel												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	31.79	31.87	31.97	32.03	32.10	32.18	32.28	32.35	32.41	32.45	32.49	N/A
Midsize Cars	27.88	27.97	28.07	28.14	28.21	28.28	28.37	28.44	28.50	28.54	28.58	N/A
Large Cars	26.03	26.16	26.26	26.36	26.45	26.57	26.67	26.75	26.84	26.90	26.96	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	20.67	20.78	20.91	21.00	21.08	21.17	21.28	21.37	21.48	21.54	21.62	0.4%
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	20.10	20.22	20.35	20.44	20.52	20.64	20.77	20.89	21.02	21.11	21.22	0.6%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric												
Mini-compact Cars	43.89	43.86	43.84	43.81	43.78	43.75	43.79	43.82	43.86	43.89	43.91	N/A
Subcompact Cars	54.15	54.10	54.06	54.01	53.96	53.92	53.95	53.98	54.00	54.03	54.05	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	49.77	49.73	49.71	49.67	49.63	49.60	49.63	49.66	49.69	49.72	49.74	1.9%
Small Pickup	41.37	41.31	41.25	41.18	41.12	41.06	41.06	41.07	41.08	41.08	41.09	1.9%
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	31.48	31.42	31.37	31.31	31.26	31.22	31.23	31.25	31.28	31.30	31.31	N/A
Small Utility	40.37	40.30	40.24	40.17	40.11	40.05	40.07	40.10	40.12	40.14	40.16	2.0%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Diesel-Electric Hybrid												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	49.29	49.22	49.18	49.14	49.12	49.10	49.11	49.12	49.11	49.10	49.09	N/A
Midsize Cars	44.17	44.07	44.00	43.95	43.92	43.89	43.89	43.89	43.90	43.90	43.89	N/A
Large Cars	41.70	41.61	41.54	41.49	41.45	41.41	41.43	41.45	41.48	41.51	41.55	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	40.40	40.26	40.15	40.06	39.98	39.93	39.93	39.95	39.98	40.01	40.06	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	39.67	39.57	39.50	39.46	39.44	39.45	N/A
Large Utility	0.00	0.00	31.44	31.35	31.28	31.22	31.22	31.24	31.27	31.31	31.38	N/A
Gasoline-Electric Hybrid												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Subcompact Cars	45.91	45.84	45.80	45.78	45.78	45.79	45.82	45.85	45.89	45.90	45.93	N/A
Compact Cars	43.46	43.44	43.43	43.42	43.41	43.41	43.44	43.45	43.47	43.46	43.47	-0.2%
Midsize Cars	38.55	38.55	38.57	38.57	38.59	38.60	38.63	38.65	38.67	38.66	38.66	N/A
Large Cars	36.55	36.53	36.53	36.55	36.58	36.62	36.68	36.72	36.76	36.79	36.81	N/A
Two Seater Cars	35.97	35.98	36.00	36.02	36.03	36.05	36.10	36.15	36.20	36.23	36.26	-0.1%
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	29.07	29.04	29.03	29.06	29.09	29.13	29.22	29.30	29.38	29.44	29.49	N/A
Small Van	33.67	33.66	33.66	33.67	33.68	33.69	33.75	33.81	33.88	33.93	33.99	N/A
Large Van	29.02	28.93	28.86	28.81	28.78	28.78	28.82	28.88	28.95	29.04	29.13	N/A
Small Utility	32.16	32.16	32.17	32.20	32.23	32.27	32.35	32.44	32.52	32.59	32.66	N/A
Large Utility	26.94	26.97	27.01	27.05	27.11	27.17	27.26	27.36	27.45	27.53	27.61	N/A
Fuel Cell Methanol												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	60.39	60.34	60.28	60.23	60.18	60.13	60.16	60.19	60.22	60.25	60.28	N/A
Compact Cars	0.00	0.00	0.00	59.27	59.23	59.20	59.24	59.28	59.33	59.36	59.39	N/A
Midsize Cars	50.60	50.56	50.53	50.50	50.47	50.44	50.47	50.51	50.54	50.57	50.60	N/A
Large Cars	0.00	45.37	45.34	45.31	45.29	45.26	45.29	45.32	45.35	45.37	45.40	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	41.69	41.62	41.56	41.50	41.44	41.38	41.40	41.43	41.47	41.49	41.52	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	45.02	44.95	44.87	44.80	44.73	44.67	44.69	44.72	44.74	44.76	44.78	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Gasoline												
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	38.80	38.77	38.74	38.72	38.71	38.68	38.71	38.73	38.75	38.78	38.80	N/A
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	35.63	35.57	35.51	35.46	35.41	35.36	35.38	35.41	35.44	35.46	35.48	N/A
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	38.47	38.41	38.35	38.28	38.23	38.17	38.19	38.22	38.24	38.25	38.27	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 57. New Light-Duty Vehicle Fuel Economy (Miles per Gallon)

Sources: 2003 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gasoline													
Mini-compact Cars	55.4	55.6	55.6	55.7	56.0	56.2	56.4	56.4	56.5	56.5	56.6	56.6	56.6
Subcompact Cars	19.1	19.2	19.2	19.4	19.6	19.8	19.9	20.0	20.1	20.1	20.1	20.2	20.2
Compact Cars	19.4	19.5	19.5	19.7	19.9	20.1	20.3	20.3	20.4	20.5	20.5	20.6	20.6
Midsize Cars	26.0	26.1	26.1	26.3	26.5	26.7	26.9	27.0	27.0	27.1	27.1	27.2	27.2
Large Cars	30.7	30.7	30.7	30.9	31.1	31.3	31.4	31.5	31.5	31.6	31.6	31.7	31.7
Two Seater Cars	44.1	44.2	44.2	44.3	44.6	44.8	44.9	44.9	45.0	45.0	45.1	45.1	45.1
Small Pickup	18.2	18.3	18.3	18.3	18.8	19.3	19.4	19.5	19.5	19.6	19.6	19.6	19.7
Large Pickup	25.3	25.4	25.4	25.4	25.9	26.3	26.5	26.5	26.5	26.6	26.6	26.6	26.7
Small Van	26.7	26.8	26.8	26.8	27.3	27.8	27.9	27.9	28.0	28.0	28.0	28.1	28.1
Large Van	22.9	23.0	23.0	23.0	23.5	23.9	24.1	24.1	24.2	24.2	24.2	24.3	24.3
Small Utility	27.7	27.8	27.8	27.9	28.4	28.8	28.9	29.0	29.0	29.0	29.1	29.1	29.1
Large Utility	35.5	35.5	35.5	35.6	36.1	36.5	36.7	36.7	36.7	36.8	36.8	36.8	36.9
Turbo Direct Injection Diesel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	21.1	21.1	21.2	21.2
Compact Cars	20.9	21.0	20.9	21.1	21.4	21.5	21.7	21.7	21.8	21.8	21.9	21.9	21.9
Midsize Cars	0.0	0.0	27.6	27.8	28.0	28.2	28.3	28.4	28.4	28.5	28.5	28.6	28.6
Large Cars	0.0	0.0	0.0	0.0	0.0	32.8	32.9	32.9	33.0	33.0	33.0	33.1	33.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	21.2	21.3	21.4	21.4	21.4	21.5	21.5	21.6
Large Pickup	26.9	26.9	26.9	27.0	27.4	27.8	27.9	28.0	28.0	28.0	28.0	28.1	28.1
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	30.1	30.1	30.1	30.2
Large Van	24.9	24.9	24.8	24.9	25.4	25.8	25.9	26.0	26.0	26.0	26.1	26.1	26.1
Small Utility	0.0	0.0	29.9	29.9	30.4	30.8	30.9	30.9	31.0	31.0	31.0	31.1	31.1
Large Utility	37.0	37.1	37.1	37.1	37.6	38.0	38.1	38.1	38.2	38.2	38.2	38.3	38.3
Methanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	28.3	28.5	28.5	28.6	28.9	29.1	29.2	29.3	29.4	29.4	29.5	29.5	29.6
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	28.2	28.3	28.3	28.5	28.7	28.9	29.0	29.1	29.2	29.2	29.3	29.3	29.4
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol Flex													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	20.4	20.4	20.5	20.5
Compact Cars	20.2	20.2	20.2	20.5	20.7	20.9	21.0	21.1	21.2	21.2	21.3	21.3	21.4
Midsize Cars	26.3	26.4	26.5	26.6	26.9	27.1	27.2	27.3	27.4	27.4	27.5	27.5	27.6
Large Cars	0.0	0.0	0.0	0.0	0.0	31.6	31.7	31.8	31.8	31.9	31.9	32.0	32.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	20.0	20.3	20.3	20.2	20.7	21.2	21.3	21.3	21.3	21.3	21.3	21.4	21.4
Large Pickup	26.4	26.5	26.5	26.5	27.0	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.6
Small Van	27.8	27.8	27.8	27.9	28.4	28.8	28.9	28.9	28.9	28.9	29.0	29.0	29.0
Large Van	0.0	0.0	0.0	23.3	23.8	24.1	24.3	24.3	24.4	24.4	24.5	24.5	24.6
Small Utility	0.0	0.0	0.0	0.0	0.0	29.0	29.1	29.2	29.2	29.2	29.3	29.3	29.4
Large Utility	36.1	36.2	36.2	36.2	36.7	37.1	37.2	37.2	37.3	37.3	37.3	37.3	37.3
Compressed Natural Gas													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	25.7	25.8	25.8	26.0	26.2	26.4	26.6	26.6	26.7	26.8	26.8	26.9	26.9
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	37.3	37.3	37.3	37.5	37.7	37.9	38.0	38.1	38.1	38.2	38.2	38.3	38.3
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	31.9	32.0	32.0	32.1	32.6	33.0	33.1	33.1	33.2	33.2	33.3	33.3	33.4
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	29.5	29.6	29.6	29.6	30.1	30.6	30.7	30.7	30.8	30.8	30.9	30.9	30.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	24.5	24.6	24.6	24.8	25.1	25.3	25.4	25.5	25.6	25.6	25.7	25.8	25.8
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	33.5	33.7	33.8	34.0	34.0	34.1	34.2	34.2	34.3	34.3
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	31.0	31.0	31.0	31.1	31.6	32.0	32.2	32.2	32.3	32.3	32.4	32.4	32.5
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	28.6	28.6	28.6	28.7	29.2	29.6	29.8	29.8	29.9	29.9	29.9	30.0	30.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	31.2	31.3	31.3	31.3	31.8	32.2	32.4	32.4	32.4	32.5	32.5	32.5	32.6
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	28.8	28.9	28.9	28.9	29.4	29.9	30.0	30.0	30.1	30.1	30.1	30.2	30.2
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	21.1	21.3	21.5	21.6	21.7	21.8	21.9	21.9	22.0	22.0
Midsize Cars	0.0	0.0	0.0	27.7	28.0	28.1	28.3	28.4	28.5	28.5	28.6	28.7	28.7
Large Cars	0.0	0.0	0.0	32.3	32.5	32.7	32.8	32.9	33.0	33.0	33.1	33.1	33.2
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	30.1	30.2	30.2	30.3	30.8	31.2	31.3	31.4	31.4	31.4	31.5	31.5	31.6
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	27.7	27.8	27.8	27.8	28.3	28.8	28.9	28.9	29.0	29.0	29.1	29.1	29.2
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	69.7	69.4	69.0	68.7	68.3	68.0	67.6	67.3
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	30.5	30.2	29.9	29.6	29.4
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	67.9	67.5	67.4	68.0	68.6	69.2	69.0	68.7	68.3	68.0	67.7	67.4	67.1
Small Pickup	43.9	43.4	43.3	43.9	44.8	45.3	45.0	44.7	44.3	43.9	43.6	43.3	42.9
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	39.4	40.4	41.1	40.8	40.3	39.9	39.4	39.0	38.6	38.1
Small Utility	54.0	53.4	53.3	53.9	54.8	55.1	54.8	54.5	54.1	53.7	53.4	53.0	52.7
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel-Electric Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	22.7	22.7	22.7	22.7
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	29.8	29.7
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline-Electric Hybrid													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.0	21.9	21.9
Compact Cars	25.0	23.9	22.6	22.8	22.9	23.0	23.0	22.9	22.9	22.9	22.8	22.7	22.7
Midsize Cars	0.0	0.0	0.0	0.0	0.0	29.2	29.3	29.2	29.2	29.2	29.1	29.1	29.1
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	34.0	34.0	33.9	33.9	33.8
Two Seater Cars	51.0	50.4	49.6	49.7	49.8	49.9	50.0	49.9	49.9	49.9	49.8	49.8	49.7
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	29.7	29.7	29.6
Small Van	0.0	0.0	0.0	0.0	0.0	30.7	30.7	30.7	30.6	30.6	30.5	30.5	30.4
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	31.0	31.3	31.6	31.6	31.5	31.5	31.4	31.4	31.3	31.3
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	40.3	40.2	40.1	40.1	40.0
Fuel Cell Methanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	68.5	67.2	66.0	64.8	63.2	61.6	60.1	58.8	57.4	56.2
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8	69.3
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	91.4	90.2	86.6	85.0	83.0	81.0	79.1	77.3	75.6	73.9
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	112.7	109.1	105.8	102.5	99.4	96.6	93.8
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.7	98.7	95.7
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.5	94.8	92.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Price													
Cars	24.0	23.7	23.7	24.2	24.5	24.8	24.8	25.0	25.0	25.0	25.1	25.1	25.2
Trucks	27.0	27.2	27.3	27.3	27.8	28.3	28.4	28.4	28.5	28.5	28.5	28.6	28.6
Light Duty Vehicles	25.5	25.4	25.5	25.7	26.2	26.6	26.7	26.8	26.8	26.9	26.9	27.0	27.1

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Gasoline												
Mini-compact Cars	56.7	56.7	56.8	56.8	56.8	56.8	56.9	56.9	56.9	56.9	56.9	0.1%
Subcompact Cars	20.3	20.3	20.3	20.4	20.4	20.4	20.5	20.5	20.5	20.5	20.5	0.3%
Compact Cars	20.6	20.7	20.7	20.8	20.8	20.8	20.9	20.9	20.9	20.9	21.0	0.3%
Midsize Cars	27.3	27.3	27.4	27.4	27.4	27.5	27.5	27.5	27.6	27.6	27.6	0.3%
Large Cars	31.7	31.8	31.8	31.9	31.9	31.9	32.0	32.0	32.0	32.0	32.1	0.2%
Two Seater Cars	45.1	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.3	45.3	0.1%
Small Pickup	19.7	19.7	19.8	19.8	19.8	19.8	19.9	19.9	19.9	19.9	19.9	0.4%
Large Pickup	26.7	26.8	26.8	26.8	26.9	26.9	26.9	26.9	27.0	27.0	27.0	0.3%
Small Van	28.1	28.2	28.2	28.2	28.3	28.3	28.4	28.4	28.4	28.5	28.5	0.3%
Large Van	24.3	24.4	24.4	24.5	24.5	24.6	24.6	24.6	24.7	24.7	24.7	0.3%
Small Utility	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.5	29.5	29.5	0.3%
Large Utility	36.9	37.0	37.0	37.0	37.1	37.1	37.2	37.2	37.2	37.3	37.3	0.2%
Turbo Direct Injection Diesel												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	21.2	21.2	21.3	21.3	21.3	21.4	21.4	21.4	21.4	21.5	21.5	N/A
Compact Cars	22.0	22.0	22.0	22.0	22.1	22.1	22.1	22.1	22.2	22.2	22.2	0.3%
Midsize Cars	28.6	28.7	28.7	28.7	28.8	28.8	28.8	28.8	28.9	28.9	28.9	N/A
Large Cars	33.1	33.2	33.2	33.2	33.3	33.3	33.3	33.3	33.4	33.4	33.4	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	21.6	21.6	21.7	21.7	21.7	21.7	21.7	21.7	21.8	21.8	21.8	N/A
Large Pickup	28.1	28.2	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.4	28.4	0.2%
Small Van	30.2	30.2	30.3	30.3	30.3	30.4	30.4	30.4	30.5	30.5	30.5	N/A
Large Van	26.2	26.2	26.2	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.4	0.3%
Small Utility	31.1	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.4	31.4	31.4	N/A
Large Utility	38.3	38.4	38.4	38.4	38.5	38.5	38.5	38.6	38.6	38.6	38.6	0.2%
Methanol												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Methanol Flex												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	29.6	29.7	29.7	29.7	29.8	29.8	29.8	29.9	29.9	29.9	29.9	0.2%
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.7	0.2%
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Ethanol Flex												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	20.5	20.6	20.6	20.6	20.7	20.7	20.7	20.8	20.8	20.8	20.8	N/A
Compact Cars	21.4	21.5	21.5	21.5	21.6	21.6	21.6	21.6	21.7	21.7	21.7	0.3%
Midsize Cars	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.9	27.9	27.9	27.9	0.2%
Large Cars	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.4	32.4	32.4	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	0.3%
Large Pickup	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.7	27.7	27.7	0.2%
Small Van	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	0.2%
Large Van	24.6	24.7	24.7	24.7	24.8	24.8	24.8	24.9	24.9	24.9	25.0	N/A
Small Utility	29.4	29.5	29.5	29.5	29.6	29.6	29.7	29.7	29.7	29.7	29.8	N/A
Large Utility	37.4	37.4	37.4	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.6	0.2%
Compressed Natural Gas												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	27.0	27.0	27.1	27.1	27.1	27.2	27.2	27.2	27.3	27.3	27.3	0.3%
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	38.4	38.4	38.4	38.5	38.5	38.6	38.6	38.6	38.7	38.7	38.7	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	33.4	33.5	33.5	33.5	33.6	33.6	33.7	33.7	33.7	33.8	33.8	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	31.0	31.1	31.1	31.2	31.2	31.2	31.3	31.4	31.4	31.4	31.5	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compressed Natural Gas Bi-Fuel												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	25.9	25.9	26.0	26.0	26.0	26.1	26.1	26.2	26.2	26.2	26.3	0.3%
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	34.4	34.4	34.5	34.5	34.6	34.6	34.7	34.7	34.7	34.8	34.8	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	32.5	32.6	32.6	32.7	32.7	32.8	32.8	32.9	32.9	32.9	33.0	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	30.1	30.2	30.2	30.3	30.3	30.4	30.4	30.5	30.5	30.6	30.6	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	32.6	32.7	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.9	32.9	0.2%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	30.2	30.3	30.3	30.4	30.4	30.4	30.5	30.5	30.5	30.6	30.6	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas Bi-Fuel												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	22.1	22.1	22.2	22.2	22.3	22.3	22.3	22.4	22.4	22.4	22.5	N/A
Midsize Cars	28.8	28.8	28.9	28.9	29.0	29.0	29.1	29.1	29.1	29.2	29.2	N/A
Large Cars	33.2	33.3	33.3	33.4	33.4	33.5	33.5	33.5	33.6	33.6	33.6	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	31.6	31.7	31.7	31.8	31.8	31.8	31.9	31.9	31.9	32.0	32.0	0.3%
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	29.2	29.3	29.3	29.4	29.4	29.5	29.5	29.6	29.6	29.6	29.7	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electric												
Mini-compact Cars	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	N/A
Subcompact Cars	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	N/A
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Two Seater Cars	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	0.0%
Small Pickup	42.6	42.6	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	-0.1%
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	37.7	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	N/A
Small Utility	52.4	52.4	52.4	49.8	50.1	50.3	50.1	50.2	50.3	49.7	49.8	-0.3%
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Diesel-Electric Hybrid												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	22.6	22.7	22.7	22.7	22.7	22.8	22.8	22.8	22.8	22.9	22.9	N/A
Midsize Cars	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.9	29.9	29.9	N/A
Large Cars	34.4	34.5	34.5	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.7	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.3	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	32.2	32.3	32.3	32.3	32.3	32.3	N/A
Large Utility	0.0	0.0	41.0	41.0	41.0	41.0	41.0	41.0	41.1	41.1	41.1	N/A
Gasoline-Electric Hybrid												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	21.9	21.9	21.9	22.0	22.0	22.0	22.0	22.1	22.1	22.1	22.1	N/A
Compact Cars	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.8	-0.2%
Midsize Cars	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	N/A
Large Cars	33.8	33.8	33.9	33.9	33.9	33.9	34.0	34.0	34.0	34.0	34.0	N/A
Two Seater Cars	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	49.9	0.0%
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Large Pickup	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	N/A
Small Van	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.6	30.6	30.6	30.6	N/A
Large Van	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.4	27.4	27.4	27.4	N/A
Small Utility	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.4	31.4	31.4	31.4	N/A
Large Utility	39.9	39.9	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	40.1	N/A
Fuel Cell Methanol												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	54.9	53.8	52.7	51.6	50.7	49.7	48.8	47.9	47.0	46.2	45.4	N/A
Compact Cars	0.0	0.0	0.0	53.5	52.5	51.5	50.6	49.7	48.8	48.0	47.2	N/A
Midsize Cars	67.8	66.4	65.2	63.9	62.7	61.6	60.5	59.4	58.4	57.4	56.4	N/A
Large Cars	0.0	74.4	73.0	71.5	70.2	68.9	67.7	66.5	65.4	64.3	63.2	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	75.3	73.6	72.1	70.6	69.2	67.8	66.5	65.1	63.9	62.7	61.5	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	72.3	70.8	69.4	68.0	66.7	65.4	64.1	62.9	61.8	60.7	59.6	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Gasoline												
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	91.0	88.6	86.1	83.8	81.6	79.4	77.4	75.4	73.5	71.8	70.0	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	92.8	90.1	87.5	85.1	82.6	80.4	78.1	76.0	73.8	72.0	70.0	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	89.3	86.8	84.4	82.1	79.9	77.8	75.7	73.7	71.8	70.0	68.2	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Average Price												
Cars	25.2	25.3	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.5	25.5	0.3%
Trucks	28.7	28.7	28.8	28.8	28.8	28.9	28.9	28.9	29.0	29.0	29.0	0.3%
Light Duty Vehicles	27.1	27.2	27.2	27.3	27.3	27.4	27.4	27.5	27.5	27.5	27.6	0.4%

Table 58. New Light-Duty Vehicle Prices (Thousand 2003 Dollars)

Sources: 2003 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 59. New Light-Duty Vehicle Range (Miles)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Gasoline													
Mini-compact Cars	411	435	436	433	437	442	440	445	451	452	453	454	455
Subcompact Cars	431	452	451	448	446	446	441	444	449	450	451	452	453
Compact Cars	434	456	457	454	453	453	449	452	457	459	461	462	462
Midsize Cars	454	475	476	473	472	473	469	473	477	478	479	480	481
Large Cars	458	470	470	467	466	467	463	467	471	472	474	476	477
Two Seater Cars	401	414	414	411	411	413	410	415	419	420	422	424	425
Small Pickup	416	434	434	435	433	459	454	455	458	459	460	462	465
Large Pickup	488	502	502	503	499	519	515	517	521	523	526	528	530
Small Van	526	545	545	544	540	567	561	562	564	565	566	567	569
Large Van	593	609	610	612	611	640	634	637	643	645	648	650	654
Small Utility	411	429	429	430	428	457	452	454	456	458	460	461	463
Large Utility	481	491	492	493	493	516	512	515	520	522	525	527	530
Turbo Direct Injection Diesel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	606	607	609	611	611
Compact Cars	586	616	617	613	612	611	606	611	617	619	622	623	624
Midsize Cars	0	0	642	639	637	638	633	638	644	645	647	648	649
Large Cars	0	0	0	0	0	630	625	630	636	638	640	642	643
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	620	613	615	618	619	621	624	628
Large Pickup	659	677	678	679	674	701	695	698	704	707	710	713	716
Small Van	0	0	0	0	0	0	0	0	761	762	764	766	768
Large Van	800	822	823	826	825	864	856	860	868	871	875	878	882
Small Utility	0	0	580	580	578	616	610	612	616	618	620	623	625
Large Utility	649	663	664	665	665	697	691	695	702	705	708	711	715
Methanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Methanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	259	271	271	270	269	270	267	270	272	272	273	274	274
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	345	361	361	360	359	359	356	359	363	363	364	365	365
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethanol Flex													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	328	328	329	330	331
Compact Cars	317	333	333	332	331	330	328	330	334	335	336	337	337
Midsize Cars	332	347	347	345	345	345	342	345	348	349	350	351	351
Large Cars	0	0	0	0	0	341	338	341	344	345	346	347	348
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	304	317	317	318	316	335	332	332	334	335	336	338	340
Large Pickup	356	366	366	367	365	379	376	377	381	382	384	386	387
Small Van	384	398	398	397	394	414	409	410	411	412	413	414	415
Large Van	0	0	0	447	446	467	463	465	469	471	473	475	477
Small Utility	0	0	0	0	0	333	330	331	333	334	335	337	338
Large Utility	351	358	359	360	360	377	374	376	379	381	383	385	387
Compressed Natural Gas													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	261	274	274	273	272	272	269	271	274	275	276	277	277
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	275	282	282	280	279	280	278	280	283	283	284	285	286
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	293	301	301	302	300	312	309	310	313	314	315	317	318
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	356	365	366	367	367	384	380	382	386	387	389	390	392
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Compressed Natural Gas Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	217	228	228	227	227	226	224	226	229	229	230	231	231
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	233	233	233	232	233	236	236	237	238	238
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	244	251	251	251	250	260	257	258	261	262	263	264	265
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	296	304	305	306	306	320	317	318	321	323	324	325	327
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gas													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	415	426	427	427	425	442	437	439	443	445	447	449	451
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	504	517	518	520	520	544	539	541	546	549	551	553	556
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gas Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	363	363	362	359	362	366	367	369	369	370
Midsize Cars	0	0	0	378	378	378	375	378	382	382	383	384	385
Large Cars	0	0	0	373	372	374	370	373	377	378	379	381	381
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	390	401	402	402	400	416	412	414	417	419	421	423	424
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	474	487	488	489	489	512	507	510	514	516	519	520	523
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Electric													
Mini-compact Cars	0	0	0	0	0	80	80	80	80	80	80	80	80
Subcompact Cars	0	0	0	0	0	0	0	80	80	80	80	80	80
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	80	80	80	80	80	80	80	80	80	80
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	594	596	599	600	601
Midsize Cars	0	0	0	0	0	0	0	0	0	0	623	624	625
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	620
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline-Electric Hybrid													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	562	564	565	566
Compact Cars	543	571	571	568	566	566	561	565	572	573	576	577	578
Midsize Cars	0	0	0	0	0	591	586	591	597	597	599	600	601
Large Cars	0	0	0	0	0	0	0	583	589	590	593	595	596
Two Seater Cars	502	517	517	514	514	517	513	518	524	526	528	530	531
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Large Pickup	0	0	0	0	0	0	0	0	0	654	657	660	663
Small Van	0	0	0	0	0	709	701	702	705	706	707	709	711
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	537	535	571	565	567	571	572	574	577	579
Large Utility	0	0	0	0	0	0	0	643	650	652	656	659	662
Fuel Cell Methanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Hydrogen													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	448	446	446	441	444	449	450	451	452	453
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	480	481
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	0	0	569
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	430	428	457	452	454	456	458	460	461	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Gasoline													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	463	467	471	472	474	476	477
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	0	0	0	0	0	0	0	0	0	0	566	567	569
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	460	461	463
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Gasoline												
Mini-compact Cars	457	458	459	460	461	462	463	465	466	467	468	0.3%
Subcompact Cars	454	455	456	457	457	459	460	461	462	463	464	0.1%
Compact Cars	463	464	465	466	466	467	469	470	471	472	472	0.2%
Midsize Cars	482	483	484	485	486	487	489	490	492	492	493	0.2%
Large Cars	478	479	481	482	484	485	487	489	490	492	493	0.2%
Two Seater Cars	427	428	430	431	432	433	435	436	437	439	439	0.3%
Small Pickup	468	471	473	475	477	480	482	484	486	488	490	0.6%
Large Pickup	533	536	539	543	545	548	551	554	557	560	562	0.5%
Small Van	570	572	575	576	578	581	583	585	588	590	593	0.4%
Large Van	657	662	666	669	672	677	682	686	692	695	699	0.6%
Small Utility	465	467	469	472	474	476	478	481	483	486	488	0.6%
Large Utility	533	536	539	542	545	548	552	555	558	560	563	0.6%
Turbo Direct Injection Diesel												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	613	614	615	616	618	619	621	623	624	625	627	N/A
Compact Cars	625	626	628	629	630	631	633	634	636	637	638	0.2%
Midsize Cars	651	652	654	655	657	658	660	662	664	665	666	N/A
Large Cars	645	647	649	651	653	655	657	660	662	664	665	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	632	635	639	641	644	648	651	653	656	659	661	N/A
Large Pickup	719	723	728	732	736	740	744	748	752	756	758	0.5%
Small Van	770	773	776	778	781	784	787	790	794	797	800	N/A
Large Van	887	893	899	904	908	914	920	927	934	938	944	0.6%
Small Utility	628	631	634	637	639	643	646	649	653	656	658	N/A
Large Utility	719	724	728	732	735	740	745	749	754	756	760	0.6%
Methanol												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Methanol Flex												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	275	275	276	277	277	278	279	279	280	281	281	0.2%
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Ethanol												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	366	367	368	369	370	370	372	373	374	374	375	0.2%
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Ethanol Flex												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	331	332	333	333	334	335	336	337	338	338	339	N/A
Compact Cars	338	339	339	340	340	341	342	343	344	344	345	0.2%
Midsize Cars	352	353	353	354	355	356	357	358	359	360	360	0.2%
Large Cars	349	350	351	352	353	354	356	357	358	359	360	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	342	344	345	347	348	350	352	353	355	356	357	0.6%
Large Pickup	389	391	394	396	398	400	402	404	407	409	410	0.5%
Small Van	416	418	420	421	422	424	426	427	429	431	433	0.4%
Large Van	480	483	486	489	491	494	498	501	505	507	510	N/A
Small Utility	340	341	343	344	346	348	349	351	353	354	356	N/A
Large Utility	389	391	394	396	398	400	403	405	407	409	411	0.6%
Compressed Natural Gas												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	278	278	279	279	280	280	281	282	283	283	283	0.2%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	287	288	288	289	290	291	292	293	294	295	296	0.2%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	320	322	324	326	327	329	331	332	334	336	337	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	394	397	400	402	403	406	409	412	415	417	419	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Compressed Natural Gas Bi-Fuel												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	232	232	233	233	233	234	234	235	235	236	236	0.2%
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	239	240	240	241	242	243	244	244	245	246	246	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	266	268	270	271	273	274	276	277	279	280	281	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	329	331	333	335	336	339	341	343	346	347	350	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Liquefied Petroleum Gas												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	453	455	459	461	464	466	469	471	474	476	477	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	559	562	566	569	571	575	580	583	588	591	594	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Liquefied Petroleum Gas Bi-Fuel												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	370	371	372	373	373	374	375	376	377	377	378	N/A
Midsize Cars	386	386	387	388	389	390	391	392	393	394	395	N/A
Large Cars	382	383	384	386	387	388	390	391	392	393	394	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	426	429	432	434	436	438	441	443	446	448	449	0.5%
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	526	529	533	535	538	542	545	549	553	556	559	0.6%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Electric												
Mini-compact Cars	80	80	80	80	80	80	80	80	80	80	80	N/A
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Utility	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Diesel-Electric Hybrid												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	602	603	605	605	606	608	610	611	612	613	614	N/A
Midsize Cars	627	628	630	631	632	634	636	637	639	640	641	N/A
Large Cars	621	623	625	627	629	631	633	635	637	639	641	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	741	744	747	749	752	755	758	761	765	767	770	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	619	622	625	628	631	634	N/A
Large Utility	0	0	701	705	708	712	717	721	726	728	732	N/A
Gasoline-Electric Hybrid												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	567	569	570	571	572	573	575	577	578	579	580	N/A
Compact Cars	579	580	581	582	583	584	586	587	589	590	590	0.2%
Midsize Cars	602	604	605	607	608	609	611	613	615	616	617	N/A
Large Cars	597	599	601	603	604	607	609	611	613	615	616	N/A
Two Seater Cars	534	536	537	538	540	541	543	545	547	548	549	0.3%
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Large Pickup	666	670	674	678	682	685	689	693	696	700	702	N/A
Small Van	713	716	719	721	723	726	729	732	735	738	741	N/A
Large Van	822	827	833	837	840	846	852	858	864	868	874	N/A
Small Utility	582	584	587	589	592	595	598	601	604	607	610	N/A
Large Utility	666	670	674	678	681	685	689	693	698	700	704	N/A
Fuel Cell Methanol												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Fuel Cell Hydrogen												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	454	455	456	457	457	459	460	461	462	463	464	N/A
Compact Cars	0	0	0	466	466	467	469	470	471	472	472	N/A
Midsize Cars	482	483	484	485	486	487	489	490	492	492	493	N/A
Large Cars	0	479	481	482	484	485	487	489	490	492	493	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	570	572	575	576	578	581	583	585	588	590	593	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	465	467	469	472	474	476	478	481	483	486	488	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A
Fuel Cell Gasoline												
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	478	479	481	482	484	485	487	489	490	492	493	N/A
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	570	572	575	576	578	581	583	585	588	590	593	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	465	467	469	472	474	476	478	481	483	486	488	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	N/A

Table 59. New Light-Duty Vehicle Range (Miles)

Sources: 2003 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	84.31	84.27	84.27	84.26	82.93	82.93	82.93	82.93	82.93	82.93	82.57	82.57	82.57
Other Fossil Steam 2/	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	0.95	0.16	0.16
Combined Cycle	5.77	10.54	11.64	11.64	12.36	12.36	12.36	12.36	12.36	12.36	12.19	12.19	12.19
Combustion Turbine/Diesel	18.70	19.24	19.93	20.17	20.17	20.15	20.12	20.12	20.12	20.12	19.82	19.81	20.03
Nuclear Power	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69
Pumped Storage/Other 3/	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.62	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	125.36	130.76	132.55	132.78	132.17	132.14	132.11	132.11	132.11	132.11	128.45	127.65	127.87
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.09	1.09	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81
Combustion Turbine/Diesel	0.00	0.00	0.68	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.79	2.12	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
Cumulative Total Additions	0.00	0.00	1.79	2.12	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	3.06
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.01	1.34	1.34	1.34	1.34	1.34	1.34	1.70	1.70	1.70
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	3.63	3.63
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16
Combustion Turbine/Diesel	0.00	0.00	0.00	0.09	0.09	0.11	0.14	0.14	0.14	0.14	0.44	0.45	0.45
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.10	1.43	1.46	1.49	1.49	1.49	1.49	5.15	5.95	5.95
End Use Sector 8/													
Coal	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Petroleum	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Natural Gas	0.88	0.90	0.95	0.96	0.98	1.00	1.03	1.05	1.08	1.11	1.14	1.17	1.20
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Renewable Sources 4/	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	2.09	2.09	2.17	2.19	2.21	2.23	2.27	2.30	2.33	2.36	2.39	2.43	2.46
Electricity Demand (billion kilowatthours)													
Residential	170.53	167.80	171.10	178.28	180.70	184.08	187.93	190.51	193.11	195.29	197.87	199.45	201.49
Commercial/Other	149.54	145.61	149.83	155.29	159.48	164.26	169.00	173.35	177.44	181.33	185.01	188.65	192.23
Industrial	196.07	193.20	204.33	209.47	210.50	212.67	216.66	220.72	222.67	224.97	227.00	228.39	231.12
Transportation	3.08	3.12	3.21	3.27	3.33	3.38	3.44	3.50	3.56	3.61	3.67	3.72	3.78
Total Sales	519.22	509.74	528.48	546.31	554.01	564.40	577.04	588.09	596.78	605.20	613.55	620.21	628.62
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.01	1.27	5.92	5.39	6.70	5.50	5.39	5.33	4.42	6.79	8.20	7.53	7.46
Gross International Exports	0.93	4.93	4.98	5.13	4.48	4.62	4.16	3.74	3.37	3.30	3.23	3.17	3.10
Gross Interregional Electricity Imports	6.67	7.19	9.69	7.64	8.81	8.05	7.55	6.22	5.91	5.96	6.08	5.45	4.66
Gross Interregional Electricity Exports	47.55	70.34	57.42	59.78	56.35	58.72	57.80	61.93	60.68	63.74	63.77	61.29	58.90
Purchases from Combined Heat and Power 8/	0.95	1.06	1.14	1.19	1.25	1.28	1.32	1.37	1.40	1.43	1.46	1.48	1.51
Electric Power Sector Generation for Customers	579.57	569.99	613.74	632.01	633.23	648.36	660.66	676.95	685.43	694.47	701.35	706.75	713.59
Total Net Energy for Load	538.71	504.23	568.09	581.32	589.16	599.85	612.97	624.21	633.11	641.61	650.08	656.74	665.22
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	496.67	499.26	510.76	531.46	532.94	548.04	558.32	568.91	572.34	575.76	580.35	583.04	585.76
Petroleum	5.27	4.91	3.74	4.05	3.92	4.03	4.13	4.23	4.27	4.30	4.36	4.40	4.43
Natural Gas	22.23	15.88	40.18	40.57	40.02	39.72	40.98	45.78	49.78	55.24	57.14	59.50	63.20
Nuclear	55.55	49.05	61.38	57.97	58.12	58.25	58.32	58.40	58.47	58.55	58.62	58.70	58.73
Pumped Storage/Other 3/	-2.22	-1.97	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79
Renewable Sources 4/	5.87	6.33	6.40	6.69	7.00	7.11	7.70	8.43	9.36	9.41	9.66	9.91	10.27
Total Generation	583.37	573.45	620.66	638.96	640.21	655.36	667.67	683.96	692.44	701.47	708.35	713.75	720.60
Sales to Customers	579.57	569.99	613.74	632.01	633.23	648.36	660.66	676.95	685.43	694.47	701.35	706.75	713.59
Generation for Own Use	3.80	3.47	6.92	6.95	6.98	7.00	7.01	7.01	7.01	7.01	7.01	7.01	7.01
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	4.22	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12
Petroleum	0.08	0.09	0.10	0.10	0.12	0.12	0.13	0.14	0.14	0.14	0.14	0.15	0.15
Natural Gas	0.68	0.62	0.65	0.67	0.72	0.74	0.76	0.79	0.82	0.85	0.87	0.90	0.93
Other Gaseous Fuels	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08
Renewable Sources 4/	1.53	1.57	1.67	1.74	1.76	1.79	1.83	1.87	1.89	1.92	1.94	1.95	1.98
Other	2.26	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Total	8.87	9.00	9.14	9.22	9.28	9.33	9.41	9.49	9.55	9.60	9.66	9.70	9.76
Sales to Utilities	0.95	1.06	1.14	1.19	1.25	1.28	1.32	1.37	1.40	1.43	1.46	1.48	1.51
Generation for Own Use	7.93	7.94	7.99	8.03	8.03	8.05	8.09	8.12	8.15	8.18	8.20	8.22	8.25
Total Electricity Generation	592.24	582.46	629.80	648.18	649.49	664.69	677.08	693.45	701.99	711.07	718.01	723.45	730.36
End-Use Prices (2003 cents per kilowatthour)													
Residential	7.5	7.4	7.4	7.3	7.4	7.1	6.9	6.9	6.9	7.0	7.1	7.2	7.4
Commercial	6.9	6.7	7.2	7.2	6.9	6.5	6.3	6.2	6.2	6.3	6.5	6.7	7.0
Industrial	4.4	4.3	5.0	4.9	4.8	4.6	4.5	4.4	4.4	4.4	4.5	4.6	4.8
Transportation	6.1	6.5	6.5	6.3	5.9	5.7	5.5	5.5	5.5	5.6	5.7	5.8	6.0
All Sectors Average	6.1	6.0	6.4	6.4	6.2	6.0	5.8	5.8	5.7	5.8	5.9	6.1	6.3
Prices by Service Category (2003 cents per kilowatthour)													
Generation	4.0	4.0	4.4	4.3	4.2	4.0	3.8	3.7	3.7	3.7	3.9	4.0	4.3

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Distribution	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Fuel Consumption (quadrillion Btu) 9/													
Coal	5.18	5.26	5.22	5.43	5.44	5.60	5.71	5.82	5.86	5.90	5.95	5.98	6.02
Natural Gas	0.23	0.16	0.39	0.40	0.39	0.39	0.40	0.44	0.47	0.51	0.51	0.53	0.56
Oil	0.07	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
Total	5.47	5.47	5.65	5.87	5.88	6.03	6.15	6.30	6.37	6.45	6.50	6.56	6.62
Fuel Prices (dollars per million Btu)													
Coal	1.24	1.13	1.17	1.18	1.18	1.17	1.18	1.26	1.31	1.33	1.33	1.35	1.35
Natural Gas	3.71	5.56	6.04	5.93	5.19	4.69	4.29	4.18	4.04	4.05	4.15	4.26	4.44
Distillate Fuel	5.67	6.48	7.12	6.85	6.23	5.81	5.68	5.46	5.31	5.26	5.31	5.35	5.41
Residual Fuel	4.24	5.09	5.75	5.62	4.94	4.52	4.34	4.20	4.16	4.21	4.27	4.32	4.37
Biomass	0.89	0.88	0.88	1.16	1.25	1.28	1.32	1.42	1.47	1.43	1.45	1.50	1.53
Emissions 10/													
Total Carbon (million tons)	153.13	157.50	155.35	161.38	161.59	166.00	169.33	173.24	174.89	176.74	178.25	179.46	180.87
Carbon Dioxide (million tons)	561.48	577.50	569.61	591.74	592.49	608.66	620.87	635.22	641.27	648.05	653.58	658.01	663.19
Sulfur Dioxide (million tons)	3.03	3.24	3.51	3.71	3.53	3.47	3.30	2.99	2.72	2.64	2.63	2.60	2.61
Nitrogen Oxide (million tons)	1.09	1.03	0.86	0.86	0.87	0.90	0.94	0.96	0.97	0.98	0.98	0.98	0.98
Mercury (tons)	12.78	12.00	11.96	13.03	12.98	12.92	12.98	13.18	12.83	12.87	12.95	12.99	13.15

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	-0.1%
Other Fossil Steam 2/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-13.3%
Combined Cycle	12.19	12.19	12.19	12.19	12.51	13.16	14.26	15.80	17.23	18.59	19.34	2.8%
Combustion Turbine/Diesel	21.35	22.86	24.41	26.19	27.50	28.75	29.34	29.80	30.31	31.21	32.43	2.4%
Nuclear Power	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	0.0%
Pumped Storage/Other 3/	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	1.75	1.75	1.75	1.75	1.81	1.91	1.94	1.94	1.99	2.05	2.05	0.8%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Capacity	129.19	130.70	132.25	134.03	135.72	137.72	139.45	141.45	143.43	145.76	147.72	0.6%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	N/A
Combustion Turbine/Diesel	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.32	0.97	2.07	3.61	5.04	6.40	7.15	N/A
Combustion Turbine/Diesel	1.54	3.05	4.60	6.38	7.69	8.94	9.53	9.99	10.50	11.40	12.62	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.06	0.16	0.20	0.20	0.25	0.30	0.30	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Unplanned Additions	1.54	3.05	4.60	6.38	8.07	10.06	11.79	13.80	15.78	18.11	20.07	N/A
Cumulative Total Additions	4.38	5.89	7.44	9.22	10.91	12.90	14.63	16.64	18.62	20.95	22.91	N/A
Cumulative Retirements 7/												
Coal Steam	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	N/A
Other Fossil Steam 3/	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	N/A
Combined Cycle	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
Combustion Turbine/Diesel	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	N/A
End Use Sector 8/												
Coal	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.0%
Petroleum	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	4.2%
Natural Gas	1.23	1.26	1.30	1.34	1.38	1.42	1.47	1.51	1.56	1.61	1.66	2.9%
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.3%
Renewable Sources 4/	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.30	0.31	2.7%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	2.50	2.53	2.57	2.62	2.67	2.73	2.78	2.84	2.90	2.96	3.02	1.7%
Electricity Demand (billion kilowatthours)												
Residential	203.69	206.26	207.90	209.93	211.87	214.43	215.92	218.21	220.59	223.51	225.30	1.3%
Commercial/Other	196.06	200.16	204.44	208.45	212.50	216.71	221.14	225.88	230.69	235.75	240.82	2.3%
Industrial	232.84	233.63	236.11	239.30	241.93	243.97	245.52	247.26	249.33	251.32	253.09	1.2%
Transportation	3.83	3.89	3.95	4.02	4.08	4.15	4.21	4.28	4.35	4.42	4.49	1.7%
Total Sales	636.42	643.94	652.40	661.70	670.38	679.26	686.79	695.64	704.96	715.00	723.70	1.6%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	5.66	5.65	4.15	4.49	4.66	4.67	4.07	3.68	3.63	0.42	0.35	-5.7%
Gross International Exports	3.04	2.98	2.92	2.86	2.81	2.75	2.70	2.64	2.59	2.54	2.49	-3.1%
Gross Interregional Electricity Imports	3.98	4.25	3.89	3.53	2.44	1.73	1.17	0.74	0.59	0.48	0.65	-10.3%
Gross Interregional Electricity Exports	54.18	51.70	50.51	46.56	43.39	35.60	30.38	23.03	19.96	14.54	12.20	-7.7%
Purchases from Combined Heat and Power 8/	1.54	1.57	1.61	1.65	1.70	1.75	1.80	1.84	1.87	1.91	1.94	2.8%
Electric Power Sector Generation for Customers	719.10	724.23	733.75	739.56	746.38	748.57	752.29	755.10	761.99	770.43	777.10	1.4%
Total Net Energy for Load	673.07	681.02	689.97	699.80	708.98	718.37	726.24	735.69	745.54	756.16	765.36	1.9%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	587.26	588.50	590.16	590.67	591.49	591.87	591.75	591.31	592.40	593.60	594.93	0.8%
Petroleum	4.45	4.47	4.51	4.51	4.77	4.78	4.78	4.77	4.77	4.78	4.79	-0.1%
Natural Gas	66.99	70.90	78.88	83.88	89.37	90.86	94.68	98.04	104.86	111.76	117.49	9.5%
Nuclear	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	0.8%
Pumped Storage/Other 3/	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-0.4%
Renewable Sources 4/	10.46	10.44	10.26	10.56	10.82	11.12	11.14	11.05	10.03	10.36	9.95	2.1%
Total Generation	726.11	731.24	740.75	746.57	753.39	755.58	759.29	762.11	769.00	777.43	784.10	1.4%
Sales to Customers	719.10	724.23	733.75	739.56	746.38	748.57	752.29	755.10	761.99	770.43	777.10	1.4%
Generation for Own Use	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	3.2%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
End Use Sector 8/												
Coal	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	0.0%
Petroleum	0.15	0.16	0.17	0.17	0.18	0.19	0.20	0.20	0.20	0.20	0.20	3.8%
Natural Gas	0.96	1.00	1.03	1.07	1.11	1.15	1.20	1.24	1.29	1.34	1.39	3.7%
Other Gaseous Fuels	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	-0.4%
Renewable Sources 4/	2.01	2.02	2.06	2.11	2.16	2.20	2.25	2.29	2.35	2.39	2.44	2.0%
Other	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	0.0%
Total	9.83	9.88	9.96	10.05	10.15	10.25	10.36	10.45	10.55	10.64	10.74	0.8%
Sales to Utilities	1.54	1.57	1.61	1.65	1.70	1.75	1.80	1.84	1.87	1.91	1.94	2.8%
Generation for Own Use	8.28	8.31	8.36	8.40	8.45	8.50	8.56	8.61	8.67	8.73	8.80	0.5%
Total Electricity Generation	735.94	741.12	750.72	756.62	763.54	765.83	769.65	772.56	779.55	788.08	794.85	1.4%
End-Use Prices (2003 cents per kilowatthour)												
Residential	7.4	7.4	7.5	7.5	7.6	7.6	7.7	7.7	7.7	7.7	7.7	0.2%
Commercial	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.7	7.7	7.7	7.7	0.6%
Industrial	5.0	5.0	5.1	5.2	5.4	5.4	5.5	5.5	5.5	5.5	5.6	1.2%
Transportation	6.0	6.0	6.1	6.1	6.2	6.3	6.3	6.3	6.2	6.2	6.3	-0.2%
All Sectors Average	6.4	6.5	6.5	6.6	6.8	6.8	6.9	6.9	6.9	6.9	7.0	0.7%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.4	4.4	4.5	4.6	4.7	4.8	4.8	4.8	4.9	4.9	4.9	1.0%

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8%
Distribution	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	-0.3%
Fuel Consumption (quadrillion Btu) 9/												
Coal	6.03	6.05	6.07	6.07	6.08	6.09	6.08	6.08	6.09	6.10	6.12	0.7%
Natural Gas	0.59	0.62	0.68	0.72	0.76	0.77	0.79	0.80	0.85	0.89	0.93	8.4%
Oil	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.4%
Total	6.67	6.71	6.79	6.84	6.89	6.90	6.93	6.93	6.99	7.05	7.10	1.2%
Fuel Prices (dollars per million Btu)												
Coal	1.36	1.36	1.37	1.38	1.39	1.40	1.40	1.40	1.41	1.41	1.42	1.1%
Natural Gas	4.57	4.55	4.60	4.75	4.92	5.03	5.13	5.18	5.19	5.26	5.34	-0.2%
Distillate Fuel	5.45	5.52	5.56	5.72	5.85	5.95	6.07	6.18	6.24	6.26	6.24	-0.2%
Residual Fuel	4.43	4.48	4.54	4.59	4.65	4.71	4.76	4.82	4.87	4.93	4.99	-0.1%
Biomass	1.53	1.53	1.52	1.55	1.54	1.54	1.57	1.56	1.61	1.65	1.66	3.0%
Emissions 10/												
Total Carbon (million tons)	181.88	182.84	184.43	185.37	186.43	186.66	187.00	187.16	188.14	189.23	190.35	0.9%
Carbon Dioxide (million tons)	666.89	670.42	676.25	679.69	683.56	684.43	685.65	686.27	689.86	693.86	697.95	0.9%
Sulfur Dioxide (million tons)	2.59	2.62	2.62	2.61	2.53	2.53	2.54	2.54	2.55	2.55	2.54	-1.1%
Nitrogen Oxide (million tons)	0.98	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98	0.98	0.98	-0.2%
Mercury (tons)	13.19	13.42	13.46	13.51	13.37	13.44	13.38	13.51	13.66	13.69	13.87	0.7%

Table 60. Electric Power Projections for Electricity Market Module Region East Central Area Reliability Coordination Agreement

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power

5/ Primarily peak-load capacity fueled by natural gas

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power)

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16
Other Fossil Steam 2/	29.91	29.52	29.28	28.75	27.90	25.63	24.52	23.36	23.36	23.26	23.26	23.16	23.16
Combined Cycle	17.08	21.77	23.15	23.15	23.66	23.66	23.85	24.24	24.62	24.76	25.31	26.10	27.05
Combustion Turbine/Diesel	5.27	4.84	4.89	4.88	4.88	4.52	5.11	6.82	8.76	9.63	10.42	10.63	10.68
Nuclear Power	4.74	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.94	4.94	4.94	4.94	4.94
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.84	2.07	2.16	2.33	2.49	2.65	2.81	2.98	2.98	2.98	2.98	2.98	2.98
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.12	0.21	0.29	0.37	0.44	0.52	0.58	0.66
Total Capacity	74.00	78.14	79.41	79.03	78.89	76.52	76.44	77.62	80.19	81.18	82.59	83.56	84.64
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.38	1.38	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
Combustion Turbine/Diesel	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.09	0.26	0.42	0.58	0.74	0.91	0.91	0.91	0.91	0.91	0.91
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.52	1.68	2.36	2.52	2.68	2.85	2.85	2.85	2.85	2.85	2.85
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.57	0.96	1.10	1.64	2.44	3.39
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.59	2.31	4.25	5.12	5.91	6.11	6.17
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.12	0.21	0.29	0.37	0.44	0.52	0.58	0.66
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.03	0.12	0.99	3.17	5.57	6.66	8.07	9.14	10.21
Cumulative Total Additions	0.00	0.00	1.52	1.68	2.38	2.64	3.67	6.02	8.42	9.51	10.92	11.99	13.07
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 3/	0.00	0.00	0.25	0.77	1.62	3.89	5.01	6.16	6.16	6.26	6.26	6.36	6.36
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.01	0.01	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.25	0.79	1.63	4.26	5.37	6.54	6.54	6.64	6.64	6.74	6.74
End Use Sector 8/													
Coal	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Petroleum	0.06	0.04	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Natural Gas	4.33	4.39	4.65	4.72	4.80	4.89	5.02	5.16	5.30	5.44	5.57	5.71	5.86
Other Gaseous Fuels	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	4.94	4.98	5.28	5.35	5.42	5.51	5.65	5.78	5.93	6.06	6.19	6.34	6.49
Electricity Demand (billion kilowatthours)													
Residential	107.27	104.86	110.53	114.93	117.15	119.80	122.91	125.26	127.80	130.13	132.65	134.50	136.59
Commercial/Other	83.38	80.17	85.32	87.54	90.15	93.20	96.36	99.33	102.27	105.20	108.11	110.98	113.75
Industrial	81.86	78.38	85.63	87.59	87.89	91.42	93.48	94.99	95.64	96.89	98.13	99.18	101.57
Transportation	1.38	1.35	1.45	1.49	1.52	1.56	1.60	1.64	1.68	1.71	1.75	1.79	1.83
Total Sales	273.89	264.75	282.93	291.54	296.71	305.97	314.35	321.22	327.38	333.93	340.64	346.45	353.75
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
Gross Interregional Electricity Imports	5.72	5.13	6.08	5.72	5.68	5.41	5.42	4.45	3.86	3.32	2.76	2.44	1.99
Gross Interregional Electricity Exports	1.61	1.61	1.51	1.51	1.51	1.51	1.51	1.51	1.53	1.53	1.90	1.81	1.67
Purchases from Combined Heat and Power 8/	7.07	6.43	7.00	7.33	8.84	9.26	9.90	10.57	11.23	11.83	12.44	13.07	13.74
Electric Power Sector Generation for Customers	271.86	268.84	288.24	297.21	301.04	310.47	318.49	325.77	332.03	338.64	345.81	351.30	358.37
Total Net Energy for Load	283.00	278.76	299.79	308.72	314.02	323.60	332.26	339.24	345.55	352.21	359.07	364.96	372.39
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	107.06	112.29	103.08	106.43	109.40	111.49	112.01	111.95	111.91	111.91	111.91	111.73	111.67
Petroleum	1.48	2.18	0.87	0.89	0.90	0.92	0.92	0.92	0.91	0.91	0.93	0.93	0.95
Natural Gas	126.97	119.92	156.71	161.33	161.41	167.69	174.62	181.16	185.80	192.26	199.25	204.60	211.56
Nuclear	35.62	33.44	34.82	35.10	35.33	35.55	35.78	35.95	37.57	37.72	37.88	38.02	38.09
Pumped Storage/Other 3/	0.49	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	3.22	3.00	5.64	6.34	6.89	7.70	8.05	8.68	8.72	8.72	8.73	8.91	8.97
Total Generation	274.84	271.38	301.13	310.10	313.93	323.36	331.38	338.66	344.91	351.53	358.70	364.19	371.25
Sales to Customers	271.86	268.84	288.24	297.21	301.04	310.47	318.49	325.77	332.03	338.64	345.81	351.30	358.37
Generation for Own Use	2.98	2.54	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.05	0.09	0.13	0.16	0.19	0.23	0.26	0.29
End Use Sector 8/													
Coal	2.81	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Petroleum	0.23	0.24	0.27	0.27	0.32	0.32	0.35	0.37	0.39	0.39	0.39	0.40	0.40
Natural Gas	28.87	26.21	27.59	28.18	30.26	31.03	32.17	33.37	34.59	35.72	36.88	38.09	39.37
Other Gaseous Fuels	0.26	0.25	0.26	0.26	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21
Renewable Sources 4/	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.24
Other	1.30	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
Total	33.65	31.08	32.50	33.10	35.16	35.92	37.10	38.34	39.57	40.71	41.88	43.10	44.40
Sales to Utilities	7.07	6.43	7.00	7.33	8.84	9.26	9.90	10.57	11.23	11.83	12.44	13.07	13.74
Generation for Own Use	26.58	24.65	25.49	25.77	26.32	26.67	27.20	27.77	28.35	28.89	29.45	30.03	30.65
Total Electricity Generation	308.49	302.46	333.62	343.20	349.09	359.33	368.58	377.12	384.65	392.44	400.81	407.55	415.94
End-Use Prices (2003 cents per kilowatthour)													
Residential	8.3	9.3	8.4	8.4	8.1	8.0	7.7	7.8	7.7	7.8	7.9	8.0	8.2
Commercial	7.4	8.1	8.5	8.5	8.0	7.5	7.2	7.1	6.9	6.9	7.0	7.1	7.3
Industrial	4.8	5.5	6.0	6.0	5.6	5.3	5.0	5.0	4.8	4.8	4.9	5.0	5.2
Transportation	6.5	6.9	7.5	7.5	7.0	6.5	6.3	6.4	6.3	6.5	6.6	6.8	7.0
All Sectors Average	6.9	7.8	7.7	7.7	7.3	7.0	6.8	6.7	6.6	6.6	6.7	6.9	7.0
Prices by Service Category (2003 cents per kilowatthour)													
Generation	4.3	5.2	5.2	5.2	4.9	4.6	4.3	4.3	4.1	4.2	4.3	4.5	4.7

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Distribution	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.09	1.08	1.09	1.12	1.15	1.17	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Natural Gas	1.23	1.12	1.21	1.25	1.26	1.32	1.38	1.42	1.45	1.49	1.54	1.58	1.62
Oil	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	2.34	2.23	2.30	2.38	2.42	2.50	2.56	2.61	2.63	2.68	2.73	2.76	2.81
Fuel Prices (dollars per million Btu)													
Coal	1.20	1.07	1.09	1.18	1.16	1.15	1.15	1.20	1.19	1.19	1.19	1.22	1.21
Natural Gas	3.44	5.31	5.63	5.40	4.63	4.14	3.76	3.77	3.74	3.80	3.93	4.05	4.23
Distillate Fuel	5.60	6.40	7.05	6.78	6.06	5.64	5.44	5.26	5.16	5.12	5.17	5.20	5.26
Residual Fuel	4.33	5.19	5.86	5.73	4.99	4.58	4.39	4.26	4.21	4.27	4.32	4.38	4.44
Biomass	0.69	0.69	0.91	1.09	0.99	1.30	1.00	1.03	1.04	1.04	1.04	1.14	1.33
Emissions 10/													
Total Carbon (million tons)	51.15	49.44	51.26	52.96	53.95	55.55	56.63	57.29	57.73	58.52	59.31	59.76	60.45
Carbon Dioxide (million tons)	187.53	181.28	187.94	194.20	197.83	203.70	207.64	210.05	211.69	214.59	217.46	219.10	221.66
Sulfur Dioxide (million tons)	0.26	0.24	0.24	0.25	0.25	0.26	0.25	0.26	0.25	0.25	0.25	0.24	0.24
Nitrogen Oxide (million tons)	0.23	0.22	0.15	0.16	0.16	0.16	0.17	0.17	0.16	0.17	0.17	0.17	0.17
Mercury (tons)	3.49	3.30	3.35	3.48	3.63	3.70	3.73	3.79	3.80	3.82	3.81	3.79	3.79

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	15.16	15.16	15.16	15.16	15.16	15.16	15.25	15.78	17.20	18.39	19.28	1.1%
Other Fossil Steam 2/	23.00	23.00	23.00	23.00	23.00	22.78	22.78	22.55	22.55	22.55	22.14	-1.3%
Combined Cycle	28.00	29.31	30.30	31.38	31.86	32.91	33.93	34.21	34.21	34.50	34.78	2.2%
Combustion Turbine/Diesel	10.68	10.68	10.68	10.68	11.16	11.25	11.30	11.69	11.76	11.85	11.88	4.2%
Nuclear Power	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	0.4%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	2.99	2.99	3.04	3.04	3.05	3.10	3.19	3.20	3.20	3.29	3.39	2.3%
Distributed Generation 5/	0.72	0.80	0.87	0.94	1.00	1.07	1.13	1.20	1.28	1.37	1.44	N/A
Total Capacity	85.75	87.13	88.24	89.39	90.42	91.46	92.78	93.82	95.39	97.15	98.10	1.0%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	N/A
Combustion Turbine/Diesel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.91	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.93	0.93	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	2.86	2.86	2.86	2.86	2.86	2.87	2.87	2.87	2.87	2.87	2.88	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.62	2.04	3.23	4.12	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	4.34	5.65	6.64	7.71	8.19	9.24	10.27	10.55	10.55	10.84	11.11	N/A
Combustion Turbine/Diesel	6.17	6.17	6.17	6.17	6.65	6.74	6.79	7.18	7.25	7.34	7.37	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.05	0.05	0.05	0.10	0.20	0.20	0.20	0.29	0.39	N/A
Distributed Generation 5/	0.72	0.80	0.87	0.94	1.00	1.07	1.13	1.20	1.28	1.37	1.44	N/A
Total Unplanned Additions	11.23	12.61	13.73	14.87	15.89	17.16	18.47	19.74	21.31	23.07	24.43	N/A
Cumulative Total Additions	14.09	15.47	16.59	17.73	18.76	20.02	21.34	22.61	24.18	25.94	27.30	N/A
Cumulative Retirements 7/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	6.52	6.52	6.52	6.52	6.52	6.74	6.74	6.97	6.97	6.97	7.38	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	6.90	6.90	6.90	6.90	6.90	7.12	7.12	7.35	7.35	7.35	7.76	N/A
End Use Sector 8/												
Coal	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.0%
Petroleum	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	4.2%
Natural Gas	6.01	6.17	6.35	6.55	6.75	6.97	7.19	7.42	7.66	7.90	8.15	2.9%
Other Gaseous Fuels	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	-0.3%
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	6.64	6.80	6.98	7.18	7.39	7.61	7.84	8.06	8.30	8.54	8.80	2.6%
Electricity Demand (billion kilowatthours)												
Residential	138.76	141.20	143.06	145.13	147.09	149.48	151.30	153.72	156.31	159.31	161.44	2.0%
Commercial/Other	116.59	119.62	122.73	125.81	128.58	131.43	134.46	137.71	141.12	144.77	148.36	2.8%
Industrial	102.31	102.88	104.34	105.83	106.55	107.28	107.69	107.96	108.26	109.25	110.09	1.6%
Transportation	1.87	1.91	1.96	2.00	2.05	2.10	2.14	2.19	2.24	2.29	2.34	2.5%
Total Sales	359.53	365.61	372.09	378.77	384.27	390.28	395.60	401.58	407.93	415.62	422.23	2.1%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.0%
Gross Interregional Electricity Imports	1.53	1.39	1.47	1.66	1.65	1.60	1.05	0.86	0.65	0.62	0.70	-8.7%
Gross Interregional Electricity Exports	1.52	1.37	1.03	0.88	0.73	0.57	0.43	0.28	0.28	0.28	0.28	-7.7%
Purchases from Combined Heat and Power 8/	14.40	15.12	15.90	16.72	17.62	18.56	19.51	20.42	21.36	22.32	23.30	6.0%
Electric Power Sector Generation for Customers	363.88	369.51	375.12	380.96	385.68	390.93	395.95	401.35	407.27	414.40	420.27	2.1%
Total Net Energy for Load	378.25	384.62	391.41	398.42	404.18	410.47	416.04	422.31	428.96	437.02	443.94	2.1%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	111.67	111.82	111.97	111.99	112.03	112.08	112.70	116.64	126.90	135.85	142.41	1.1%
Petroleum	0.97	0.97	0.98	1.00	1.00	1.00	1.02	1.05	1.15	1.23	1.29	-2.3%
Natural Gas	215.20	220.74	226.02	231.67	236.32	241.35	245.24	246.45	241.70	239.55	238.23	3.2%
Nuclear	39.95	40.03	40.12	40.21	40.21	40.21	40.21	40.21	40.21	40.21	40.21	0.8%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	8.98	8.83	8.92	8.98	9.01	9.19	9.68	9.90	10.20	10.45	11.01	6.1%
Total Generation	376.77	382.40	388.00	393.84	398.57	403.82	408.84	414.24	420.16	427.28	433.16	2.1%
Sales to Customers	363.88	369.51	375.12	380.96	385.68	390.93	395.95	401.35	407.27	414.40	420.27	2.1%
Generation for Own Use	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	7.7%
Distributed Generation 5/	0.32	0.35	0.38	0.41	0.44	0.47	0.50	0.53	0.56	0.60	0.63	N/A
End Use Sector 8/												
Coal	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.0%
Petroleum	0.42	0.44	0.45	0.47	0.49	0.52	0.55	0.56	0.55	0.55	0.55	3.8%
Natural Gas	40.63	42.00	43.50	45.10	46.84	48.65	50.53	52.40	54.36	56.38	58.48	3.7%
Other Gaseous Fuels	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	-0.4%
Renewable Sources 4/	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.29	2.0%
Other	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	0.0%
Total	45.68	47.07	48.59	50.22	51.99	53.84	55.76	57.65	59.61	61.63	63.74	3.3%
Sales to Utilities	14.40	15.12	15.90	16.72	17.62	18.56	19.51	20.42	21.36	22.32	23.30	6.0%
Generation for Own Use	31.27	31.95	32.70	33.50	34.37	35.29	36.26	37.23	38.25	39.32	40.45	2.3%
Total Electricity Generation	422.77	429.82	436.98	444.47	450.99	458.14	465.10	472.41	480.33	489.52	497.53	2.3%
End-Use Prices (2003 cents per kilowatthour)												
Residential	8.3	8.2	8.3	8.4	8.6	8.7	8.7	8.7	8.6	8.6	8.7	-0.3%
Commercial	7.4	7.4	7.5	7.7	7.9	8.0	8.1	8.1	8.0	8.0	8.2	0.0%
Industrial	5.3	5.2	5.3	5.5	5.7	5.8	5.8	5.9	5.8	5.8	5.9	0.3%
Transportation	7.0	7.0	7.1	7.2	7.4	7.5	7.5	7.6	7.5	7.5	7.6	0.4%
All Sectors Average	7.1	7.1	7.2	7.4	7.5	7.6	7.7	7.7	7.7	7.7	7.8	0.0%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.8	4.8	4.8	5.0	5.2	5.4	5.4	5.5	5.4	5.4	5.6	0.3%

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7%
Distribution	1.7	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	-1.2%
Fuel Consumption (quadrillion Btu) 9/												
Coal	1.18	1.18	1.18	1.18	1.18	1.18	1.19	1.22	1.31	1.38	1.44	1.3%
Natural Gas	1.64	1.66	1.69	1.72	1.76	1.78	1.80	1.81	1.77	1.75	1.74	2.0%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-3.1%
Total	2.82	2.85	2.88	2.91	2.95	2.97	3.00	3.04	3.09	3.15	3.19	1.6%
Fuel Prices (dollars per million Btu)												
Coal	1.21	1.20	1.19	1.19	1.19	1.15	1.15	1.16	1.20	1.23	1.25	0.7%
Natural Gas	4.36	4.33	4.42	4.59	4.75	4.86	4.93	4.94	4.91	4.93	4.99	-0.3%
Distillate Fuel	5.32	5.38	5.44	5.62	5.75	5.81	5.96	6.08	6.15	6.16	6.17	-0.2%
Residual Fuel	4.49	4.55	4.60	4.66	4.72	4.77	4.82	4.88	4.93	4.99	5.05	-0.1%
Biomass	1.31	1.24	1.18	1.15	1.14	1.13	1.26	1.43	1.46	1.50	1.52	3.7%
Emissions 10/												
Total Carbon (million tons)	60.73	61.22	61.73	62.26	62.75	63.18	63.63	64.68	66.61	68.55	70.01	1.6%
Carbon Dioxide (million tons)	222.69	224.46	226.35	228.29	230.07	231.65	233.29	237.18	244.23	251.36	256.70	1.6%
Sulfur Dioxide (million tons)	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.0%
Nitrogen Oxide (million tons)	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	-1.0%
Mercury (tons)	3.79	3.79	3.79	3.77	3.77	3.76	3.78	3.80	3.84	3.88	3.92	0.8%

Table 61. Electric Power Projections for Electricity Market Module Region Electric Reliability Council of Texas

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	20.20	20.01	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53
Other Fossil Steam 2/	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	7.12	7.12	7.12
Combined Cycle	8.33	10.00	12.13	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31
Combustion Turbine/Diesel	10.35	11.16	11.16	11.31	11.31	11.31	11.31	11.31	11.31	11.31	10.94	10.94	11.54
Nuclear Power	13.05	13.12	13.26	13.26	13.40	13.40	13.40	13.42	13.42	13.42	13.42	13.42	13.42
Pumped Storage/Other 3/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.89	1.92	1.92	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08
Total Capacity	63.75	66.14	68.94	70.34	70.47	70.47	70.47	70.49	70.49	70.49	68.85	68.89	69.53
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	2.13	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Combustion Turbine/Diesel	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	2.65	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.67
Cumulative Total Additions	0.00	0.00	2.65	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.08	4.72
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64
End Use Sector 8/													
Coal	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Petroleum	0.04	0.03	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.92	0.93	0.99	1.00	1.02	1.04	1.07	1.09	1.12	1.15	1.18	1.21	1.24
Other Gaseous Fuels	0.07	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	1.22	1.22	1.31	1.33	1.34	1.37	1.40	1.43	1.46	1.50	1.53	1.56	1.59
Electricity Demand (billion kilowatthours)													
Residential	92.41	95.19	95.05	97.81	99.75	102.21	104.57	105.84	107.07	108.16	109.34	110.07	111.16
Commercial/Other	106.91	107.86	108.60	111.30	114.57	118.54	122.35	125.47	128.22	130.80	132.82	134.82	136.93
Industrial	58.78	59.42	61.28	62.47	62.64	63.29	64.40	65.42	65.78	66.31	66.77	67.03	67.68
Transportation	1.96	2.03	2.05	2.09	2.13	2.17	2.21	2.25	2.29	2.33	2.37	2.40	2.44
Total Sales	260.06	264.51	266.99	273.67	279.09	286.20	293.53	298.98	303.36	307.60	311.30	314.33	318.21
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	16.32	23.37	16.33	16.87	18.89	20.97	22.19	20.88	20.53	21.41	21.28	19.39	16.96
Gross Interregional Electricity Exports	5.84	4.35	4.02	3.94	4.42	4.69	5.11	5.62	5.68	6.07	6.02	5.54	4.89
Purchases from Combined Heat and Power 8/	1.01	1.00	1.14	1.18	1.41	1.44	1.58	1.71	1.81	1.87	1.94	2.00	2.08
Electric Power Sector Generation for Customers	251.83	254.48	271.17	277.48	281.32	286.87	293.57	300.80	305.59	309.32	313.07	317.41	322.98
Total Net Energy for Load	263.32	274.51	284.62	291.60	297.20	304.60	312.22	317.76	322.25	326.54	330.26	333.26	337.13
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	117.50	121.45	121.49	126.10	129.37	133.47	136.28	140.45	141.19	141.04	143.23	143.86	144.10
Petroleum	6.36	10.11	10.70	10.83	10.57	10.61	10.80	10.90	10.95	11.10	8.20	8.23	8.79
Natural Gas	25.69	19.50	25.15	25.44	24.64	25.68	29.20	32.03	34.84	38.02	42.61	46.21	50.74
Nuclear	105.49	105.14	109.67	109.88	110.91	110.99	111.06	111.14	111.21	111.28	111.35	111.42	111.43
Pumped Storage/Other 3/	-0.10	-0.35	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82
Renewable Sources 4/	7.73	9.43	10.37	11.50	12.14	12.49	12.61	12.66	13.79	14.25	14.06	14.07	14.31
Total Generation	262.67	265.29	276.56	282.93	286.81	292.41	299.13	306.35	311.15	314.88	318.63	322.97	328.54
Sales to Customers	251.83	254.48	271.17	277.48	281.32	286.87	293.57	300.80	305.59	309.32	313.07	317.41	322.98
Generation for Own Use	10.84	10.81	5.39	5.44	5.49	5.54	5.56	5.56	5.56	5.56	5.56	5.56	5.56
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03
End Use Sector 8/													
Coal	1.09	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Petroleum	0.61	0.64	0.71	0.71	0.84	0.84	0.91	0.98	1.02	1.02	1.03	1.04	1.06
Natural Gas	2.47	2.24	2.36	2.41	2.59	2.66	2.75	2.86	2.96	3.06	3.16	3.26	3.37
Other Gaseous Fuels	0.68	0.67	0.68	0.68	0.47	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.55
Renewable Sources 4/	0.72	0.74	0.79	0.82	0.83	0.84	0.86	0.88	0.90	0.91	0.92	0.92	0.94
Other	0.26	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Total	5.82	5.64	5.88	5.97	6.09	6.16	6.36	6.56	6.73	6.85	6.98	7.11	7.26
Sales to Utilities	1.01	1.00	1.14	1.18	1.41	1.44	1.58	1.71	1.81	1.87	1.94	2.00	2.08
Generation for Own Use	4.81	4.64	4.75	4.78	4.68	4.71	4.78	4.85	4.92	4.98	5.04	5.11	5.18
Total Electricity Generation	268.50	270.93	282.44	288.89	292.90	298.57	305.49	312.91	317.88	321.73	325.61	330.10	335.83
End-Use Prices (2003 cents per kilowatthour)													
Residential	9.7	9.5	8.8	8.5	7.8	7.2	7.1	7.4	7.6	7.8	8.2	8.5	8.7
Commercial	8.1	8.2	7.6	7.3	6.6	5.9	5.7	5.9	6.0	6.2	6.7	7.0	7.3
Industrial	6.3	6.4	6.4	6.3	6.0	5.6	5.4	5.3	5.1	5.1	5.3	5.6	5.9
Transportation	6.5	7.1	7.0	6.7	6.2	5.8	5.8	6.0	6.1	6.3	6.6	6.9	7.1
All Sectors Average	8.3	8.2	7.7	7.5	6.9	6.3	6.1	6.3	6.4	6.5	6.9	7.2	7.5
Prices by Service Category (2003 cents per kilowatthour)													
Generation	5.4	5.4	5.0	4.7	4.1	3.5	3.4	3.5	3.6	3.7	4.1	4.4	4.7

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Distribution	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.21	1.20	1.22	1.27	1.30	1.34	1.37	1.42	1.43	1.43	1.46	1.47	1.48
Natural Gas	0.25	0.18	0.25	0.25	0.24	0.25	0.28	0.30	0.32	0.35	0.38	0.41	0.44
Oil	0.08	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.10	0.10	0.10
Total	1.54	1.50	1.60	1.65	1.67	1.72	1.78	1.85	1.89	1.91	1.94	1.98	2.02
Fuel Prices (dollars per million Btu)													
Coal	1.42	1.35	1.40	1.44	1.40	1.43	1.43	1.44	1.43	1.43	1.43	1.42	1.42
Natural Gas	4.04	6.08	6.12	5.93	5.13	4.64	4.34	4.24	4.11	4.14	4.23	4.35	4.55
Distillate Fuel	5.63	6.44	7.08	6.80	6.07	5.68	5.49	5.31	5.29	5.26	5.26	5.33	5.40
Residual Fuel	4.02	4.81	5.44	5.32	4.95	4.54	4.33	4.20	4.15	4.20	4.25	4.30	4.35
Biomass	0.69	0.69	0.70	1.51	1.83	1.80	1.82	1.86	1.82	1.71	1.70	1.70	1.70
Emissions 10/													
Total Carbon (million tons)	41.02	41.09	41.45	42.77	43.55	44.87	46.18	47.97	48.61	49.04	49.57	50.26	51.08
Carbon Dioxide (million tons)	150.41	150.68	151.99	156.81	159.67	164.51	169.34	175.89	178.24	179.82	181.74	184.28	187.29
Sulfur Dioxide (million tons)	1.29	1.16	1.17	1.29	1.29	1.27	1.28	1.07	1.03	1.06	1.02	1.02	1.03
Nitrogen Oxide (million tons)	0.24	0.23	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24
Mercury (tons)	4.00	4.35	4.48	4.54	4.55	4.81	4.88	5.15	5.28	5.17	5.08	5.08	5.12

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	20.53	20.53	20.53	20.53	20.63	20.87	21.72	22.63	23.65	24.61	25.53	1.1%
Other Fossil Steam 2/	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	-0.7%
Combined Cycle	13.31	13.31	13.96	14.48	14.62	15.22	15.22	15.22	15.22	15.42	15.42	2.0%
Combustion Turbine/Diesel	12.06	12.55	12.69	13.02	13.54	13.67	13.67	13.75	13.75	13.75	13.82	1.0%
Nuclear Power	13.42	13.42	13.66	13.66	13.66	13.66	13.66	13.66	13.66	13.66	13.66	0.2%
Pumped Storage/Other 3/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	0.2%
Distributed Generation 5/	0.21	0.35	0.50	0.65	0.80	0.95	1.10	1.26	1.44	1.63	1.80	N/A
Total Capacity	70.18	70.81	71.99	72.99	73.90	75.02	76.01	77.17	78.37	79.72	80.88	0.9%
Cumulative Planned Additions 6/												
Coal Steam	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	N/A
Combustion Turbine/Diesel	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.10	0.34	1.19	2.10	3.12	4.08	5.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.65	1.16	1.31	1.91	1.91	1.91	1.91	2.11	2.11	N/A
Combustion Turbine/Diesel	1.12	1.60	1.75	2.08	2.60	2.73	2.73	2.80	2.80	2.80	2.88	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.21	0.35	0.50	0.65	0.80	0.95	1.10	1.26	1.44	1.63	1.80	N/A
Total Unplanned Additions	1.32	1.96	2.90	3.90	4.81	5.93	6.92	8.08	9.27	10.63	11.79	N/A
Cumulative Total Additions	5.37	6.01	6.95	7.95	8.86	9.98	10.97	12.13	13.32	14.68	15.84	N/A
Cumulative Retirements 7/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	N/A
End Use Sector 8/												
Coal	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%
Petroleum	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	4.2%
Natural Gas	1.27	1.31	1.35	1.39	1.43	1.48	1.53	1.57	1.62	1.68	1.73	2.9%
Other Gaseous Fuels	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.3%
Renewable Sources 4/	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	2.7%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	1.63	1.66	1.70	1.75	1.80	1.86	1.91	1.96	2.02	2.08	2.14	2.6%
Electricity Demand (billion kilowatthours)												
Residential	112.40	113.88	114.89	116.12	117.30	118.84	119.82	121.26	122.77	124.53	125.70	1.3%
Commercial/Other	139.25	141.71	144.39	146.93	149.40	151.96	154.71	157.66	160.72	163.89	167.12	2.0%
Industrial	67.90	67.80	68.37	69.09	69.66	70.16	70.43	70.88	71.47	72.02	72.47	0.9%
Transportation	2.49	2.53	2.57	2.62	2.66	2.71	2.76	2.81	2.86	2.91	2.96	1.7%
Total Sales	322.03	325.92	330.22	334.76	339.03	343.67	347.72	352.61	357.83	363.36	368.25	1.5%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Electricity Imports	12.01	13.62	11.31	11.56	12.37	8.10	7.17	8.07	6.27	4.12	3.53	-8.2%
Gross Interregional Electricity Exports	1.79	1.59	1.48	1.34	1.27	1.29	1.17	0.59	0.35	0.44	0.63	-8.4%
Purchases from Combined Heat and Power 8/	2.16	2.24	2.33	2.43	2.56	2.71	2.86	2.95	3.04	3.13	3.22	5.4%
Electric Power Sector Generation for Customers	328.54	330.69	337.31	341.55	344.99	353.98	358.86	362.39	369.32	377.24	383.04	1.9%
Total Net Energy for Load	340.92	344.96	349.46	354.20	358.66	363.50	367.73	372.83	378.28	384.05	389.16	1.6%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	144.16	144.54	144.87	145.10	146.08	147.89	153.49	159.67	166.63	173.16	179.56	1.8%
Petroleum	8.81	8.75	9.24	9.57	9.88	9.97	10.10	10.05	10.11	10.17	10.28	0.1%
Natural Gas	56.21	58.03	62.13	65.73	67.86	74.94	74.10	71.50	71.42	72.79	72.33	6.1%
Nuclear	111.43	111.43	113.25	113.25	113.25	113.25	113.25	113.25	113.25	113.25	113.25	0.3%
Pumped Storage/Other 3/	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	3.9%
Renewable Sources 4/	14.30	14.32	14.19	14.28	14.29	14.31	14.30	14.30	14.27	14.24	13.99	1.8%
Total Generation	334.10	336.25	342.87	347.11	350.55	359.54	364.42	367.95	374.87	382.80	388.60	1.8%
Sales to Customers	328.54	330.69	337.31	341.55	344.99	353.98	358.86	362.39	369.32	377.24	383.04	1.9%
Generation for Own Use	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	-3.0%
Distributed Generation 5/	0.09	0.15	0.22	0.29	0.35	0.42	0.48	0.55	0.63	0.72	0.79	N/A
End Use Sector 8/												
Coal	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	0.0%
Petroleum	1.10	1.15	1.18	1.23	1.29	1.37	1.46	1.46	1.46	1.45	1.45	3.8%
Natural Gas	3.48	3.60	3.72	3.86	4.01	4.16	4.33	4.49	4.65	4.83	5.01	3.7%
Other Gaseous Fuels	0.55	0.56	0.56	0.57	0.58	0.58	0.59	0.60	0.60	0.61	0.62	-0.4%
Renewable Sources 4/	0.95	0.96	0.97	1.00	1.02	1.04	1.06	1.09	1.11	1.13	1.16	2.0%
Other	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.0%
Total	7.43	7.61	7.80	8.00	8.25	8.51	8.79	8.98	9.18	9.37	9.57	2.4%
Sales to Utilities	2.16	2.24	2.33	2.43	2.56	2.71	2.86	2.95	3.04	3.13	3.22	5.4%
Generation for Own Use	5.27	5.37	5.47	5.57	5.69	5.80	5.93	6.03	6.14	6.24	6.36	1.4%
Total Electricity Generation	341.62	344.01	350.88	355.40	359.15	368.47	373.69	377.48	384.68	392.88	398.96	1.8%
End-Use Prices (2003 cents per kilowatthour)												
Residential	8.8	8.9	8.9	9.1	9.2	9.3	9.3	9.3	9.3	9.3	9.4	-0.1%
Commercial	7.6	7.7	7.8	8.0	8.3	8.3	8.4	8.5	8.5	8.5	8.6	0.2%
Industrial	6.1	6.2	6.3	6.5	6.7	6.8	6.9	6.9	6.9	7.0	7.0	0.4%
Transportation	7.2	7.3	7.3	7.5	7.6	7.7	7.7	7.7	7.7	7.7	7.8	0.4%
All Sectors Average	7.7	7.8	7.9	8.1	8.3	8.4	8.4	8.5	8.4	8.5	8.5	0.2%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.9	5.0	5.1	5.3	5.5	5.6	5.7	5.7	5.7	5.8	5.9	0.3%

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2%
Distribution	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	-0.2%
Fuel Consumption (quadrillion Btu) 9/												
Coal	1.48	1.48	1.48	1.49	1.49	1.51	1.55	1.59	1.64	1.68	1.73	1.7%
Natural Gas	0.49	0.50	0.53	0.55	0.57	0.62	0.61	0.60	0.60	0.61	0.60	5.6%
Oil	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	-0.2%
Total	2.06	2.08	2.12	2.15	2.17	2.24	2.27	2.30	2.34	2.40	2.44	2.2%
Fuel Prices (dollars per million Btu)												
Coal	1.42	1.42	1.42	1.42	1.42	1.42	1.43	1.44	1.46	1.47	1.49	0.4%
Natural Gas	4.69	4.70	4.78	4.95	5.12	5.22	5.30	5.35	5.34	5.42	5.49	-0.5%
Distillate Fuel	5.45	5.50	5.56	5.70	5.78	5.84	5.89	5.94	6.00	6.05	6.10	-0.2%
Residual Fuel	4.41	4.46	4.51	4.56	4.62	4.68	4.73	4.79	4.84	4.89	4.95	0.1%
Biomass	1.70	1.70	1.68	1.69	1.70	1.70	1.70	1.70	1.69	1.68	1.63	4.0%
Emissions 10/												
Total Carbon (million tons)	51.80	52.13	52.74	53.28	53.79	55.03	56.03	56.95	58.31	59.78	61.03	1.8%
Carbon Dioxide (million tons)	189.92	191.16	193.40	195.36	197.24	201.76	205.45	208.80	213.81	219.19	223.76	1.8%
Sulfur Dioxide (million tons)	1.03	1.03	1.02	1.03	1.04	1.05	1.04	1.04	1.04	1.03	1.02	-0.6%
Nitrogen Oxide (million tons)	0.24	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.2%
Mercury (tons)	5.07	5.08	5.07	5.04	4.97	4.76	3.89	3.81	3.80	3.79	3.76	-0.7%

Table 62. Electric Power Projections for Electricity Market Module Region Mid-Atlantic Area Council

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	29.62	29.54	29.52	29.58	29.57	29.50	29.50	29.50	29.50	29.50	29.40	29.40	29.40
Other Fossil Steam 2/	3.97	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	1.51	0.98	0.98
Combined Cycle	3.01	3.01	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
Combustion Turbine/Diesel	15.81	16.57	16.63	16.62	16.62	16.62	16.62	16.62	16.62	16.62	16.27	16.27	16.51
Nuclear Power	14.42	14.43	14.43	14.43	14.48	14.48	14.59	14.59	14.59	14.67	14.67	14.67	14.67
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.98	1.04	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Total Capacity	68.24	68.66	69.90	69.95	69.98	69.92	70.04	70.04	70.04	70.12	67.54	67.01	67.30
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Combustion Turbine/Diesel	0.00	0.00	0.06	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.26	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
Cumulative Total Additions	0.00	0.00	1.26	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.73
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.01	0.01	0.03	0.09	0.09	0.09	0.09	0.09	0.19	0.19	0.19
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	2.65	2.65
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.48	0.48	0.48
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.01	0.15	0.16	0.23	0.23	0.23	0.23	0.23	2.80	3.33	3.33
End Use Sector 8/													
Coal	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Petroleum	0.04	0.03	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07
Natural Gas	0.39	0.39	0.42	0.42	0.43	0.44	0.45	0.46	0.47	0.49	0.50	0.51	0.52
Other Gaseous Fuels	0.08	0.08	0.08	0.08	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07
Renewable Sources 4/	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.25	0.25	0.25	0.26
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	1.57	1.55	1.62	1.64	1.64	1.65	1.67	1.69	1.71	1.73	1.74	1.76	1.78
Electricity Demand (billion kilowatthours)													
Residential	81.05	80.31	79.80	83.88	85.06	86.59	88.35	89.55	90.76	91.83	93.12	93.92	94.94
Commercial/Other	89.42	87.63	87.75	91.35	93.65	96.24	98.80	101.17	103.40	105.55	107.64	109.68	111.67
Industrial	80.85	79.80	82.63	84.80	85.39	86.28	87.87	89.52	90.35	91.22	91.96	92.47	93.51
Transportation	1.54	1.57	1.58	1.60	1.63	1.66	1.68	1.71	1.73	1.76	1.78	1.81	1.83
Total Sales	252.86	249.31	251.75	261.63	265.73	270.77	276.71	281.95	286.25	290.35	294.51	297.89	301.95
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	6.82	5.25	9.19	8.11	8.31	6.70	4.67	4.08	4.38	4.96	4.64	3.77	3.50
Gross Interregional Electricity Exports	52.30	55.05	62.22	55.62	59.38	57.21	56.32	52.19	49.92	50.08	48.67	46.92	45.42
Purchases from Combined Heat and Power 8/	0.96	1.01	1.12	1.18	1.31	1.34	1.43	1.51	1.57	1.61	1.66	1.70	1.75
Electric Power Sector Generation for Customers	291.06	298.41	319.34	324.10	331.72	336.30	343.51	345.22	346.99	350.68	353.75	356.23	359.02
Total Net Energy for Load	246.54	249.61	267.44	277.76	281.96	287.13	293.29	298.62	303.01	307.17	311.38	314.77	318.85
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	164.07	173.81	177.42	181.04	188.59	192.92	198.63	199.78	200.68	202.89	204.63	205.76	206.64
Petroleum	0.89	1.43	1.76	1.82	1.87	1.91	1.96	1.98	1.99	2.01	2.17	2.18	2.20
Natural Gas	13.39	7.06	18.60	19.19	18.58	18.63	19.31	19.67	20.53	21.76	22.88	23.99	25.86
Nuclear	113.81	117.99	120.87	121.10	121.55	121.55	122.32	122.32	122.32	122.38	122.38	122.38	122.38
Pumped Storage/Other 3/	0.06	-0.14	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Renewable Sources 4/	4.65	3.87	4.51	4.76	4.94	5.10	5.10	5.27	5.28	5.45	5.50	5.72	5.76
Total Generation	296.88	304.02	323.02	327.78	335.40	339.98	347.19	348.90	350.67	354.36	357.43	359.91	362.70
Sales to Customers	291.06	298.41	319.34	324.10	331.72	336.30	343.51	345.22	346.99	350.68	353.75	356.23	359.02
Generation for Own Use	5.82	5.61	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
End Use Sector 8/													
Coal	3.65	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56
Petroleum	0.30	0.32	0.35	0.35	0.42	0.42	0.45	0.49	0.51	0.51	0.51	0.52	0.52
Natural Gas	1.44	1.31	1.38	1.41	1.51	1.55	1.61	1.67	1.73	1.79	1.84	1.91	1.97
Other Gaseous Fuels	0.34	0.33	0.34	0.34	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.27	0.27
Renewable Sources 4/	1.37	1.41	1.50	1.56	1.58	1.61	1.64	1.68	1.70	1.72	1.74	1.75	1.78
Other	0.20	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Total	7.30	7.16	7.35	7.44	7.53	7.59	7.73	7.86	7.97	8.05	8.14	8.23	8.33
Sales to Utilities	0.96	1.01	1.12	1.18	1.31	1.34	1.43	1.51	1.57	1.61	1.66	1.70	1.75
Generation for Own Use	6.34	6.15	6.22	6.26	6.22	6.25	6.30	6.35	6.40	6.44	6.48	6.53	6.58
Total Electricity Generation	304.18	311.18	330.37	335.22	342.93	347.57	354.92	356.76	358.64	362.42	365.57	368.14	371.04
End-Use Prices (2003 cents per kilowatthour)													
Residential	8.3	8.2	7.8	8.0	7.7	7.5	7.5	7.6	7.7	7.8	7.9	8.1	8.1
Commercial	7.1	6.9	6.7	6.8	6.5	6.2	6.2	6.2	6.3	6.4	6.5	6.7	6.9
Industrial	4.6	4.7	4.8	4.7	4.6	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.6
Transportation	5.6	6.2	6.3	6.0	5.9	5.7	5.7	5.8	5.9	6.0	6.1	6.2	6.3
All Sectors Average	6.7	6.6	6.4	6.5	6.3	6.0	6.0	6.0	6.1	6.2	6.3	6.4	6.6
Prices by Service Category (2003 cents per kilowatthour)													
Generation	4.1	4.1	4.0	3.9	3.8	3.5	3.4	3.5	3.5	3.6	3.7	3.9	4.0

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6
Distribution	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.84	1.95	1.95	1.97	2.05	2.09	2.17	2.19	2.20	2.24	2.26	2.28	2.29
Natural Gas	0.14	0.08	0.20	0.21	0.20	0.20	0.21	0.21	0.22	0.23	0.24	0.25	0.26
Oil	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	1.99	2.04	2.18	2.20	2.27	2.32	2.40	2.43	2.44	2.49	2.52	2.55	2.58
Fuel Prices (dollars per million Btu)													
Coal	1.08	0.96	0.98	1.00	1.00	1.00	1.01	1.11	1.23	1.24	1.24	1.27	1.27
Natural Gas	3.42	5.63	6.22	6.22	5.56	5.07	4.65	4.48	4.31	4.31	4.41	4.55	4.73
Distillate Fuel	5.69	6.50	7.15	6.88	6.23	5.81	5.70	5.47	5.28	5.24	5.28	5.32	5.37
Residual Fuel	4.24	5.09	5.75	5.62	4.94	4.52	4.34	4.20	4.16	4.21	4.27	4.32	4.37
Biomass	1.06	1.06	1.06	1.06	1.10	1.15	1.15	1.20	1.21	1.30	1.33	1.49	1.56
Emissions 10/													
Total Carbon (million tons)	57.47	60.06	60.06	60.81	62.88	64.14	66.60	67.33	67.79	68.91	69.84	70.53	71.10
Carbon Dioxide (million tons)	210.74	220.21	220.21	222.96	230.57	235.19	244.20	246.87	248.55	252.69	256.07	258.61	260.69
Sulfur Dioxide (million tons)	0.80	0.99	0.98	0.96	0.99	0.99	0.95	0.84	0.81	0.83	0.83	0.81	0.80
Nitrogen Oxide (million tons)	0.33	0.31	0.27	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32
Mercury (tons)	4.95	4.93	4.99	5.11	5.29	5.43	5.69	5.84	5.84	5.95	6.04	6.10	6.14

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	0.0%
Other Fossil Steam 2/	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	-5.8%
Combined Cycle	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.31	4.47	4.47	4.47	1.8%
Combustion Turbine/Diesel	16.88	17.59	18.26	19.07	19.87	20.79	21.54	22.24	22.88	23.82	24.64	1.8%
Nuclear Power	14.67	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	0.2%
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	1.10	1.10	1.10	1.10	1.10	1.10	1.15	1.21	1.29	1.38	1.45	1.5%
Distributed Generation 5/	0.09	0.14	0.18	0.23	0.28	0.33	0.37	0.42	0.59	0.77	0.92	N/A
Total Capacity	67.71	68.70	69.42	70.28	71.12	72.09	72.94	73.92	74.96	76.17	77.21	0.5%
Cumulative Planned Additions 6/												
Coal Steam	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	N/A
Combustion Turbine/Diesel	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.32	0.32	0.32	N/A
Combustion Turbine/Diesel	0.61	1.31	1.99	2.80	3.59	4.51	5.27	5.97	6.61	7.54	8.36	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.19	0.28	0.35	N/A
Distributed Generation 5/	0.09	0.14	0.18	0.23	0.28	0.33	0.37	0.42	0.59	0.77	0.92	N/A
Total Unplanned Additions	0.70	1.45	2.17	3.03	3.87	4.84	5.68	6.67	7.71	8.92	9.96	N/A
Cumulative Total Additions	2.14	2.89	3.62	4.47	5.32	6.28	7.13	8.11	9.15	10.36	11.40	N/A
Cumulative Retirements 7/												
Coal Steam	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Other Fossil Steam 3/	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	N/A
End Use Sector 8/												
Coal	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.0%
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.07	4.2%
Natural Gas	0.54	0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.68	0.71	0.73	2.9%
Other Gaseous Fuels	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-0.3%
Renewable Sources 4/	0.26	0.27	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	2.7%
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	1.79	1.81	1.83	1.86	1.89	1.92	1.96	1.99	2.02	2.05	2.09	1.4%
Electricity Demand (billion kilowatthours)												
Residential	96.04	97.29	98.08	99.08	100.05	101.33	102.08	103.20	104.37	105.81	106.72	1.3%
Commercial/Other	113.77	116.01	118.33	120.54	122.78	125.10	127.53	130.12	132.74	135.50	138.25	2.1%
Industrial	94.21	94.55	95.49	96.75	97.83	98.59	99.15	99.78	100.51	101.18	101.80	1.1%
Transportation	1.86	1.89	1.92	1.95	1.98	2.00	2.03	2.06	2.10	2.13	2.16	1.5%
Total Sales	305.88	309.74	313.82	318.31	322.64	327.03	330.80	335.17	339.71	344.62	348.93	1.5%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Electricity Imports	2.95	2.67	2.40	2.26	2.02	1.76	1.88	2.60	3.61	6.00	7.33	1.5%
Gross Interregional Electricity Exports	42.60	41.96	40.22	36.57	33.68	29.39	25.29	21.08	18.47	16.78	16.55	-5.3%
Purchases from Combined Heat and Power 8/	1.81	1.86	1.92	1.99	2.07	2.17	2.26	2.33	2.39	2.44	2.50	4.2%
Electric Power Sector Generation for Customers	360.64	364.27	367.03	368.17	369.99	370.46	370.11	369.73	370.76	371.72	374.59	1.0%
Total Net Energy for Load	322.80	326.84	331.13	335.85	340.40	345.01	348.97	353.57	358.28	363.38	367.86	1.8%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	206.92	207.10	208.25	208.77	209.46	209.09	208.23	207.76	207.49	207.50	208.76	0.8%
Petroleum	2.20	2.20	2.21	2.21	2.22	2.22	2.21	2.20	2.19	2.18	2.20	2.0%
Natural Gas	27.32	28.70	30.29	30.83	32.08	32.90	33.38	33.26	34.31	34.90	35.97	7.7%
Nuclear	122.38	124.45	124.45	124.45	124.45	124.45	124.45	124.45	124.45	124.45	124.45	0.2%
Pumped Storage/Other 3/	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.2%
Renewable Sources 4/	5.63	5.64	5.64	5.71	5.60	5.62	5.66	5.88	6.13	6.51	7.03	2.7%
Total Generation	364.32	367.95	370.71	371.85	373.67	374.14	373.79	373.41	374.44	375.40	378.27	1.0%
Sales to Customers	360.64	364.27	367.03	368.17	369.99	370.46	370.11	369.73	370.76	371.72	374.59	1.0%
Generation for Own Use	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	-1.9%
Distributed Generation 5/	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.26	0.34	0.40	N/A
End Use Sector 8/												
Coal	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	0.0%
Petroleum	0.55	0.57	0.59	0.61	0.64	0.68	0.73	0.73	0.73	0.72	0.72	3.8%
Natural Gas	2.03	2.10	2.18	2.26	2.34	2.43	2.53	2.62	2.72	2.82	2.93	3.7%
Other Gaseous Fuels	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.31	-0.4%
Renewable Sources 4/	1.80	1.82	1.85	1.89	1.94	1.98	2.02	2.06	2.11	2.15	2.19	2.0%
Other	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Total	8.44	8.55	8.68	8.83	8.99	9.17	9.35	9.49	9.64	9.78	9.93	1.5%
Sales to Utilities	1.81	1.86	1.92	1.99	2.07	2.17	2.26	2.33	2.39	2.44	2.50	4.2%
Generation for Own Use	6.64	6.69	6.76	6.84	6.92	7.00	7.09	7.17	7.25	7.33	7.42	0.9%
Total Electricity Generation	372.80	376.56	379.47	380.77	382.78	383.45	383.31	383.09	384.33	385.51	388.60	1.0%
End-Use Prices (2003 cents per kilowatthour)												
Residential	8.2	8.1	8.2	8.3	8.4	8.4	8.5	8.5	8.5	8.5	8.5	0.1%
Commercial	7.0	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.5	7.6	7.6	0.4%
Industrial	4.7	4.7	4.7	4.8	5.0	5.0	5.1	5.1	5.2	5.2	5.2	0.5%
Transportation	6.3	6.3	6.3	6.4	6.5	6.6	6.6	6.6	6.6	6.6	6.6	0.3%
All Sectors Average	6.6	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.1	7.1	7.2	0.4%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.1	4.1	4.1	4.2	4.4	4.5	4.6	4.6	4.6	4.7	4.7	0.6%

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.0%
Distribution	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.5%
Fuel Consumption (quadrillion Btu) 9/												
Coal	2.29	2.30	2.31	2.32	2.33	2.32	2.31	2.31	2.31	2.31	2.32	0.8%
Natural Gas	0.27	0.28	0.30	0.30	0.31	0.32	0.32	0.32	0.33	0.33	0.34	6.9%
Oil	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	1.4%
Total	2.59	2.61	2.63	2.64	2.66	2.67	2.66	2.65	2.66	2.66	2.68	1.3%
Fuel Prices (dollars per million Btu)												
Coal	1.29	1.29	1.29	1.31	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.5%
Natural Gas	4.87	4.86	4.90	5.03	5.21	5.33	5.44	5.50	5.51	5.59	5.66	0.0%
Distillate Fuel	5.41	5.48	5.53	5.68	5.82	5.93	6.08	6.20	6.27	6.28	6.22	-0.2%
Residual Fuel	4.43	4.48	4.54	4.59	4.65	4.71	4.76	4.82	4.87	4.93	4.99	-0.1%
Biomass	1.54	1.54	1.54	1.58	1.54	1.51	1.52	1.49	1.56	1.63	1.67	2.1%
Emissions 10/												
Total Carbon (million tons)	71.42	71.71	72.40	72.69	73.08	73.09	72.84	72.66	72.68	72.79	73.33	0.9%
Carbon Dioxide (million tons)	261.87	262.94	265.45	266.51	267.97	267.98	267.09	266.42	266.49	266.88	268.89	0.9%
Sulfur Dioxide (million tons)	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	-1.4%
Nitrogen Oxide (million tons)	0.32	0.32	0.32	0.32	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.2%
Mercury (tons)	6.16	6.19	6.23	6.25	6.29	6.30	6.27	6.26	6.25	6.25	6.29	1.1%

Table 63. Electric Power Projections for Electricity Market Module Region Mid-America Interconnected Network

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	18.65	18.65	18.65	18.67	18.67	19.46	19.46	19.46	19.46	19.46	19.45	19.45	19.45
Other Fossil Steam 2/	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.52	0.52	0.52
Combined Cycle	0.61	0.69	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Combustion Turbine/Diesel	6.34	7.45	7.69	7.70	7.70	7.70	7.70	7.70	7.92	8.21	8.70	9.09	9.52
Nuclear Power	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	4.02	4.26	4.29	4.79	4.81	4.83	4.84	4.86	4.88	4.88	4.88	4.88	4.88
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07
Total Capacity	33.31	34.74	35.25	35.78	35.79	36.60	36.62	36.64	36.89	37.19	37.65	38.04	38.50
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.01	0.01	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Combustion Turbine/Diesel	0.00	0.00	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.03	0.53	0.55	0.56	0.58	0.60	0.62	0.62	0.62	0.62	0.62
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.51	1.04	1.06	1.86	1.88	1.90	1.91	1.91	1.91	1.91	1.91
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.51	1.17	1.55	1.98
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.54	1.20	1.59	2.06
Cumulative Total Additions	0.00	0.00	0.51	1.04	1.06	1.86	1.88	1.90	2.15	2.45	3.12	3.51	3.97
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21
End Use Sector 8/													
Coal	0.55	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Petroleum	0.04	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
Other Gaseous Fuels	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.21	0.21	0.21
Other	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.91	0.89	0.94	0.95	0.94	0.95	0.95	0.96	0.97	0.97	0.98	0.98	0.99
Electricity Demand (billion kilowatthours)													
Residential	50.44	51.13	50.14	52.92	53.84	54.95	56.13	56.94	57.81	58.75	59.89	60.70	61.62
Commercial/Other	44.33	44.73	44.30	46.23	47.40	48.70	49.92	51.07	52.15	53.33	54.55	55.74	56.88
Industrial	47.18	47.25	48.70	49.98	50.58	51.10	52.03	53.00	53.51	54.01	54.43	54.74	55.34
Transportation	0.84	0.87	0.87	0.88	0.90	0.91	0.93	0.94	0.96	0.97	0.99	1.00	1.02
Total Sales	142.79	143.98	144.00	150.01	152.72	155.66	159.02	161.95	164.44	167.06	169.86	172.19	174.86
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	8.00	5.11	5.57	4.68	4.62	3.54	4.33	5.16	5.33	6.08	6.40	6.43	7.13
Gross International Exports	3.34	8.19	8.27	8.52	8.09	7.69	7.30	6.94	6.59	6.26	5.95	5.65	5.37
Gross Interregional Electricity Imports	4.35	10.00	14.16	10.46	8.74	7.06	6.62	6.90	6.66	6.79	7.11	7.26	6.69
Gross Interregional Electricity Exports	18.58	16.96	20.78	17.67	18.55	20.20	20.28	19.24	17.95	17.29	16.39	15.25	13.78
Purchases from Combined Heat and Power 8/	0.43	0.47	0.52	0.55	0.58	0.60	0.62	0.65	0.67	0.69	0.70	0.72	0.73
Electric Power Sector Generation for Customers	157.83	159.15	164.48	172.54	177.55	184.49	187.43	187.87	188.85	189.63	190.63	191.35	192.16
Total Net Energy for Load	148.69	149.57	155.67	162.04	164.85	167.80	171.41	174.40	176.96	179.63	182.50	184.86	187.57
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	116.90	120.43	122.17	127.37	131.88	138.88	141.62	141.30	141.70	141.95	142.21	142.34	142.46
Petroleum	0.77	1.04	0.99	1.05	1.08	1.08	1.09	1.12	1.14	1.16	1.18	1.21	1.23
Natural Gas	2.07	2.67	1.60	1.36	1.25	1.13	1.26	1.89	2.39	2.87	3.58	4.13	4.78
Nuclear	26.27	24.06	24.19	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	12.83	12.67	15.78	18.81	19.39	19.45	19.51	19.62	19.68	19.71	19.72	19.75	19.75
Total Generation	158.83	160.86	164.74	172.80	177.82	184.76	187.71	188.15	189.13	189.92	190.91	191.64	192.45
Sales to Customers	157.83	159.15	164.48	172.54	177.55	184.49	187.43	187.87	188.85	189.63	190.63	191.35	192.16
Generation for Own Use	1.00	1.72	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03
End Use Sector 8/													
Coal	2.30	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
Petroleum	0.07	0.07	0.08	0.08	0.10	0.09	0.10	0.11	0.12	0.12	0.12	0.12	0.12
Natural Gas	0.39	0.36	0.37	0.38	0.41	0.42	0.44	0.45	0.47	0.49	0.50	0.52	0.54
Other Gaseous Fuels	0.08	0.08	0.08	0.08	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	0.84	0.86	0.91	0.95	0.96	0.98	1.00	1.02	1.04	1.05	1.06	1.07	1.08
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	3.74	3.68	3.76	3.81	3.84	3.86	3.91	3.96	3.99	4.02	4.05	4.08	4.11
Sales to Utilities	0.43	0.47	0.52	0.55	0.58	0.60	0.62	0.65	0.67	0.69	0.70	0.72	0.73
Generation for Own Use	3.31	3.21	3.24	3.26	3.26	3.27	3.29	3.31	3.32	3.34	3.35	3.36	3.38
Total Electricity Generation	162.56	164.54	168.50	176.61	181.66	188.63	191.62	192.11	193.13	193.95	194.98	195.74	196.60
End-Use Prices (2003 cents per kilowatthour)													
Residential	7.6	7.6	7.2	7.3	7.2	7.1	7.1	7.2	7.2	7.0	6.9	6.9	6.8
Commercial	6.0	6.0	5.8	5.7	5.7	5.6	5.7	5.7	5.8	5.6	5.6	5.6	5.6
Industrial	4.2	4.3	4.3	4.1	4.1	4.0	4.1	4.2	4.2	4.1	4.0	4.0	4.0
Transportation	5.3	5.5	5.6	5.3	5.2	5.1	5.2	5.2	5.3	5.1	5.1	5.1	5.1
All Sectors Average	6.0	6.0	5.8	5.7	5.7	5.6	5.7	5.7	5.8	5.6	5.5	5.6	5.5
Prices by Service Category (2003 cents per kilowatthour)													
Generation	3.3	3.3	3.2	3.1	3.0	3.0	3.0	3.1	3.1	3.0	2.9	2.9	2.9

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9
Distribution	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.28	1.29	1.31	1.37	1.42	1.48	1.51	1.51	1.51	1.52	1.52	1.52	1.52
Natural Gas	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.31	1.33	1.34	1.39	1.44	1.51	1.54	1.54	1.55	1.55	1.57	1.57	1.58
Fuel Prices (dollars per million Btu)													
Coal	0.95	0.91	0.94	0.94	0.95	0.95	0.95	1.03	1.06	1.05	1.04	1.05	1.05
Natural Gas	3.56	5.00	5.70	5.85	5.37	4.97	4.53	4.31	4.17	4.22	4.35	4.52	4.74
Distillate Fuel	5.72	6.54	7.19	6.90	6.18	5.76	5.65	5.41	5.22	5.18	5.22	5.26	5.32
Residual Fuel	3.48	5.01	5.70	5.52	4.85	4.48	4.26	3.94	3.89	3.94	3.48	3.60	3.65
Biomass	0.88	0.93	0.93	0.93	0.94	0.97	0.96	1.00	1.00	1.05	1.07	1.15	1.18
Emissions 10/													
Total Carbon (million tons)	37.69	38.03	38.73	40.36	41.79	43.67	44.55	44.50	44.76	44.93	45.14	45.27	45.42
Carbon Dioxide (million tons)	138.19	139.43	142.02	148.00	153.23	160.12	163.34	163.17	164.11	164.76	165.52	165.98	166.52
Sulfur Dioxide (million tons)	0.33	0.37	0.33	0.35	0.36	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34
Nitrogen Oxide (million tons)	0.28	0.27	0.26	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Mercury (tons)	3.31	3.39	3.40	3.54	3.67	3.72	3.77	3.73	3.74	3.76	3.77	3.78	3.78

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	20.37	20.79	20.80	20.80	20.80	20.80	21.15	21.46	21.72	21.98	22.35	0.8%
Other Fossil Steam 2/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	-0.3%
Combined Cycle	0.93	0.93	0.93	0.93	0.93	0.93	0.93	1.12	1.30	1.30	1.30	2.9%
Combustion Turbine/Diesel	8.71	9.68	10.54	11.04	11.19	10.97	10.97	11.62	12.30	12.67	12.85	2.5%
Nuclear Power	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	0.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.92	4.96	4.98	4.98	0.7%
Distributed Generation 5/	0.10	0.13	0.16	0.19	0.22	0.25	0.27	0.30	0.34	0.37	0.40	N/A
Total Capacity	38.65	40.06	40.96	41.50	41.67	41.49	41.86	43.06	44.27	44.95	45.53	1.2%
Cumulative Planned Additions 6/												
Coal Steam	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	N/A
Combustion Turbine/Diesel	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.92	1.34	1.35	1.35	1.35	1.35	1.70	2.01	2.27	2.53	2.90	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.37	0.37	0.37	N/A
Combustion Turbine/Diesel	2.60	4.02	4.89	5.39	5.54	5.54	5.54	6.19	6.87	7.24	7.42	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.10	0.10	N/A
Distributed Generation 5/	0.10	0.13	0.16	0.19	0.22	0.25	0.27	0.30	0.34	0.37	0.40	N/A
Total Unplanned Additions	3.63	5.50	6.40	6.94	7.11	7.14	7.52	8.72	9.92	10.61	11.19	N/A
Cumulative Total Additions	5.54	7.41	8.31	8.85	9.03	9.06	9.44	10.64	11.84	12.52	13.10	N/A
Cumulative Retirements 7/												
Coal Steam	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Other Fossil Steam 3/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	1.59	2.05	2.05	2.05	2.05	2.27	2.27	2.27	2.27	2.27	2.27	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	1.63	2.09	2.09	2.09	2.09	2.31	2.31	2.31	2.31	2.31	2.31	N/A
End Use Sector 8/												
Coal	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.0%
Petroleum	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	4.2%
Natural Gas	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	2.9%
Other Gaseous Fuels	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-0.3%
Renewable Sources 4/	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.28	0.29	2.7%
Other	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	1.00	1.00	1.01	1.02	1.03	1.05	1.06	1.07	1.08	1.10	1.11	1.0%
Electricity Demand (billion kilowatthours)												
Residential	62.54	63.50	64.13	64.92	65.74	66.76	67.43	68.31	69.21	70.30	71.05	1.5%
Commercial/Other	58.06	59.23	60.42	61.64	62.89	64.17	65.46	66.80	68.19	69.65	71.14	2.1%
Industrial	55.77	55.97	56.52	57.26	57.91	58.35	58.67	59.03	59.45	59.83	60.17	1.1%
Transportation	1.04	1.05	1.07	1.09	1.10	1.12	1.14	1.16	1.17	1.19	1.21	1.5%
Total Sales	177.41	179.74	182.13	184.91	187.64	190.40	192.70	195.30	198.02	200.97	203.58	1.6%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	6.48	6.93	6.65	6.94	7.01	6.97	7.87	9.20	11.39	10.71	12.62	4.2%
Gross International Exports	5.10	4.85	4.60	4.37	4.15	3.95	3.75	3.56	3.38	3.21	3.05	-4.4%
Gross Interregional Electricity Imports	5.08	4.05	3.79	3.38	3.83	4.46	3.84	2.57	2.53	3.00	2.45	-6.2%
Gross Interregional Electricity Exports	16.29	16.87	15.18	12.74	10.99	9.13	9.40	10.08	11.59	10.62	11.93	-1.6%
Purchases from Combined Heat and Power 8/	0.75	0.77	0.79	0.82	0.84	0.87	0.90	0.93	0.95	0.97	0.99	3.4%
Electric Power Sector Generation for Customers	199.22	202.61	203.75	204.14	204.53	204.79	207.00	210.19	212.26	214.44	217.01	1.4%
Total Net Energy for Load	190.15	192.64	195.18	198.16	201.07	204.01	206.47	209.24	212.14	215.29	218.08	1.7%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	149.29	152.33	152.46	152.59	152.62	152.63	155.18	157.36	159.16	161.06	163.88	1.4%
Petroleum	1.31	1.32	1.35	1.35	1.35	1.36	1.38	1.41	1.43	1.45	2.12	3.3%
Natural Gas	5.00	5.33	6.31	6.58	6.95	7.18	6.83	7.69	7.78	7.98	7.05	4.5%
Nuclear	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	0.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	19.69	19.69	19.69	19.69	19.68	19.68	19.67	19.80	19.96	20.02	20.02	2.1%
Total Generation	199.51	202.89	204.03	204.43	204.82	205.07	207.29	210.48	212.54	214.73	217.30	1.4%
Sales to Customers	199.22	202.61	203.75	204.14	204.53	204.79	207.00	210.19	212.26	214.44	217.01	1.4%
Generation for Own Use	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	-7.8%
Distributed Generation 5/	0.05	0.06	0.07	0.08	0.10	0.11	0.12	0.13	0.15	0.16	0.18	N/A
End Use Sector 8/												
Coal	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	0.0%
Petroleum	0.12	0.13	0.13	0.14	0.15	0.16	0.17	0.17	0.17	0.16	0.16	3.8%
Natural Gas	0.55	0.57	0.59	0.61	0.64	0.66	0.69	0.71	0.74	0.77	0.79	3.7%
Other Gaseous Fuels	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-0.4%
Renewable Sources 4/	1.10	1.11	1.13	1.15	1.18	1.21	1.23	1.26	1.28	1.31	1.34	2.0%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Total	4.15	4.19	4.23	4.28	4.34	4.40	4.47	4.52	4.57	4.63	4.68	1.1%
Sales to Utilities	0.75	0.77	0.79	0.82	0.84	0.87	0.90	0.93	0.95	0.97	0.99	3.4%
Generation for Own Use	3.40	3.42	3.44	3.47	3.50	3.53	3.56	3.59	3.63	3.66	3.69	0.6%
Total Electricity Generation	203.71	207.14	208.34	208.79	209.26	209.59	211.88	215.13	217.26	219.52	222.15	1.4%
End-Use Prices (2003 cents per kilowatthour)												
Residential	6.8	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.7	-0.6%
Commercial	5.6	5.7	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.7	-0.2%
Industrial	4.0	4.1	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	-0.2%
Transportation	5.1	5.1	5.2	5.2	5.1	5.1	5.1	5.1	5.0	5.0	5.0	-0.4%
All Sectors Average	5.5	5.6	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	-0.3%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	-0.3%

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0%
Distribution	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-1.0%
Fuel Consumption (quadrillion Btu) 9/												
Coal	1.58	1.61	1.61	1.61	1.61	1.61	1.63	1.65	1.67	1.68	1.71	1.3%
Natural Gas	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.06	3.0%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	2.8%
Total	1.64	1.67	1.68	1.68	1.69	1.69	1.71	1.73	1.75	1.77	1.79	1.4%
Fuel Prices (dollars per million Btu)												
Coal	1.06	1.06	1.06	1.06	1.07	1.06	1.06	1.07	1.06	1.06	1.03	0.5%
Natural Gas	4.87	4.87	4.87	5.00	5.20	5.35	5.46	5.55	5.59	5.68	5.72	0.6%
Distillate Fuel	5.35	5.42	5.47	5.62	5.76	5.87	6.02	6.14	6.21	6.22	6.15	-0.3%
Residual Fuel	3.72	3.79	3.84	3.89	3.94	4.00	4.06	4.12	4.17	4.24	4.30	-0.7%
Biomass	1.32	1.33	1.36	1.46	1.30	1.59	1.60	1.59	1.62	1.65	1.67	2.7%
Emissions 10/												
Total Carbon (million tons)	47.16	47.94	48.12	48.23	48.29	48.33	48.92	49.56	50.00	50.49	51.21	1.4%
Carbon Dioxide (million tons)	172.93	175.78	176.43	176.84	177.06	177.22	179.39	181.73	183.34	185.12	187.77	1.4%
Sulfur Dioxide (million tons)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	-0.4%
Nitrogen Oxide (million tons)	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.6%
Mercury (tons)	3.82	3.82	3.82	3.83	3.83	3.83	3.84	3.85	3.85	3.86	3.89	0.6%

Table 64. Electric Power Projections for Electricity Market Module Region Mid-Continent Area Power Pool

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.83	3.83	3.83
Other Fossil Steam 2/	12.58	12.58	12.58	12.58	12.58	12.58	12.58	12.58	12.58	12.58	10.75	10.75	10.75
Combined Cycle	3.86	5.12	5.12	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	6.04
Combustion Turbine/Diesel	4.64	4.72	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.94	4.94
Nuclear Power	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05
Pumped Storage/Other 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	4.80	4.87	4.94	5.16	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	36.10	37.51	37.63	38.62	38.76	38.76	38.76	38.76	38.76	38.76	36.88	37.05	37.21
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Combustion Turbine/Diesel	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.05	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.33
Cumulative Total Additions	0.00	0.00	0.05	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	1.13	1.29
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.83	1.83
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88	1.88	1.88
End Use Sector 8/													
Coal	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Petroleum	0.11	0.08	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Natural Gas	0.35	0.36	0.38	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.48
Other Gaseous Fuels	0.20	0.19	0.19	0.19	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17
Renewable Sources 4/	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.89	0.86	0.97	0.98	0.96	0.97	0.98	1.00	1.01	1.02	1.03	1.05	1.06
Electricity Demand (billion kilowatthours)													
Residential	48.70	49.30	47.28	48.65	49.55	50.67	51.66	52.01	52.32	52.55	52.81	52.87	53.14
Commercial/Other	69.93	69.07	66.77	68.49	70.37	72.71	74.92	76.54	77.87	79.03	79.67	80.29	81.01
Industrial	25.15	24.91	24.85	25.29	25.37	25.65	26.07	26.46	26.57	26.74	26.87	26.92	27.13
Transportation	1.29	1.32	1.29	1.31	1.33	1.35	1.37	1.40	1.42	1.44	1.46	1.48	1.50
Total Sales	145.08	144.60	140.19	143.74	146.62	150.38	154.02	156.40	158.18	159.76	160.81	161.56	162.78
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	13.90	9.99	11.26	11.98	13.01	12.96	14.07	13.65	14.55	15.39	14.96	13.95	13.78
Gross International Exports	2.95	4.51	5.46	5.35	5.24	4.72	4.24	3.82	3.38	3.04	2.88	2.64	2.41
Gross Interregional Electricity Imports	5.72	4.50	2.78	2.76	3.58	4.51	5.04	5.54	5.90	5.38	4.76	4.47	3.85
Gross Interregional Electricity Exports	9.40	8.85	9.55	9.61	10.58	10.03	9.55	9.48	9.74	9.97	9.65	9.28	8.84
Purchases from Combined Heat and Power 8/	0.48	0.48	0.54	0.56	0.66	0.68	0.74	0.80	0.84	0.87	0.90	0.94	0.97
Electric Power Sector Generation for Customers	134.05	131.75	150.93	153.87	155.76	157.72	158.87	160.65	160.96	162.06	163.60	164.95	166.20
Total Net Energy for Load	141.80	133.36	150.52	154.21	157.20	161.12	164.93	167.33	169.13	170.70	171.69	172.38	173.55
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	22.50	23.09	29.58	29.72	30.73	31.68	31.87	31.96	33.01	33.95	33.73	33.82	34.07
Petroleum	11.34	18.58	19.69	22.00	22.01	22.12	17.97	18.33	18.37	18.52	18.46	18.65	18.73
Natural Gas	37.20	26.11	33.73	31.97	31.97	32.49	37.63	38.92	39.23	39.91	41.58	42.69	43.83
Nuclear	39.62	40.68	41.42	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49
Pumped Storage/Other 3/	-0.92	-0.91	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57
Renewable Sources 4/	27.02	26.82	28.36	30.53	31.41	31.78	31.76	31.80	30.71	30.05	30.19	30.15	29.92
Total Generation	136.76	134.37	152.21	155.15	157.04	158.99	160.15	161.93	162.24	163.34	164.88	166.23	167.48
Sales to Customers	134.05	131.75	150.93	153.87	155.76	157.72	158.87	160.65	160.96	162.06	163.60	164.95	166.20
Generation for Own Use	2.71	2.62	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Petroleum	0.22	0.23	0.26	0.26	0.31	0.30	0.33	0.36	0.37	0.37	0.38	0.38	0.38
Natural Gas	1.22	1.11	1.16	1.19	1.28	1.31	1.36	1.41	1.46	1.51	1.56	1.61	1.66
Other Gaseous Fuels	0.25	0.24	0.25	0.25	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20
Renewable Sources 4/	0.42	0.43	0.45	0.47	0.48	0.49	0.50	0.51	0.52	0.52	0.53	0.53	0.54
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	2.84	2.74	2.85	2.90	2.97	3.00	3.10	3.18	3.26	3.32	3.38	3.45	3.52
Sales to Utilities	0.48	0.48	0.54	0.56	0.66	0.68	0.74	0.80	0.84	0.87	0.90	0.94	0.97
Generation for Own Use	2.36	2.26	2.31	2.33	2.30	2.32	2.35	2.39	2.42	2.45	2.48	2.51	2.54
Total Electricity Generation	139.60	137.11	155.06	158.05	160.01	162.00	163.25	165.11	165.50	166.67	168.27	169.68	170.99
End-Use Prices (2003 cents per kilowatthour)													
Residential	13.8	14.3	12.7	12.5	11.7	11.1	11.1	11.4	11.5	11.8	12.4	12.4	12.5
Commercial	12.7	13.1	11.2	10.8	9.7	8.5	8.2	8.2	8.2	8.3	9.1	9.1	9.5
Industrial	5.3	6.0	5.4	5.2	4.8	4.5	4.6	4.7	4.7	4.8	5.3	5.4	5.6
Transportation	8.9	9.9	9.9	9.5	8.9	8.4	8.4	8.5	8.6	8.8	9.3	9.3	9.5
All Sectors Average	11.5	12.2	10.6	10.4	9.5	8.7	8.5	8.7	8.7	8.9	9.6	9.6	9.8
Prices by Service Category (2003 cents per kilowatthour)													
Generation	6.6	7.3	5.8	5.4	4.6	3.8	3.6	3.7	3.7	3.9	4.6	4.6	4.9

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Distribution	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.5	3.5	3.6	3.6
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.30	0.30	0.30	0.30	0.31	0.32	0.32	0.32	0.33	0.34	0.34	0.34	0.34
Natural Gas	0.37	0.26	0.29	0.28	0.28	0.28	0.34	0.35	0.35	0.36	0.37	0.38	0.39
Oil	0.12	0.20	0.22	0.24	0.24	0.24	0.19	0.20	0.20	0.20	0.20	0.20	0.20
Total	0.80	0.75	0.81	0.82	0.83	0.84	0.85	0.87	0.88	0.90	0.91	0.92	0.93
Fuel Prices (dollars per million Btu)													
Coal	1.46	1.43	1.38	1.43	1.38	1.46	1.47	1.49	1.50	1.49	1.48	1.50	1.51
Natural Gas	4.11	6.24	6.12	5.91	5.12	4.64	4.36	4.23	4.07	4.08	4.14	4.24	4.41
Distillate Fuel	5.65	6.46	7.11	6.82	6.08	5.69	5.50	5.33	5.32	5.30	5.34	5.43	5.49
Residual Fuel	4.13	4.95	5.60	5.47	4.99	4.57	4.35	4.22	4.17	4.22	4.27	4.32	4.38
Biomass	0.69	0.69	0.69	1.60	1.97	2.01	2.01	2.06	1.95	1.77	1.78	1.78	1.76
Emissions 10/													
Total Carbon (million tons)	17.69	18.61	18.35	18.60	18.89	19.28	19.10	19.37	19.74	20.15	20.26	20.47	20.69
Carbon Dioxide (million tons)	64.87	68.25	67.27	68.21	69.25	70.69	70.02	71.01	72.39	73.88	74.29	75.05	75.85
Sulfur Dioxide (million tons)	0.36	0.36	0.42	0.43	0.45	0.39	0.35	0.31	0.31	0.32	0.32	0.31	0.31
Nitrogen Oxide (million tons)	0.06	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Mercury (tons)	1.43	1.82	1.76	1.57	1.70	1.50	1.46	1.08	1.16	1.24	1.19	1.14	1.15

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	3.83	3.83	3.83	3.83	3.83	3.83	4.18	4.60	5.11	5.61	5.98	2.0%
Other Fossil Steam 2/	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	-0.7%
Combined Cycle	6.44	6.63	6.95	7.33	7.63	8.02	8.02	8.02	8.02	8.02	8.06	2.1%
Combustion Turbine/Diesel	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.65	4.71	0.0%
Nuclear Power	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	0.0%
Pumped Storage/Other 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Renewable Sources 4/	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	0.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	N/A
Total Capacity	37.30	37.49	37.81	38.19	38.49	38.88	39.24	39.67	40.19	40.73	41.21	0.4%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	N/A
Combustion Turbine/Diesel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.77	1.28	1.78	2.15	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.56	0.74	1.06	1.44	1.74	2.14	2.14	2.14	2.14	2.14	2.17	N/A
Combustion Turbine/Diesel	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.26	0.32	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	N/A
Total Unplanned Additions	0.80	0.98	1.31	1.68	1.99	2.38	2.74	3.17	3.69	4.23	4.71	N/A
Cumulative Total Additions	1.76	1.95	2.27	2.65	2.95	3.34	3.70	4.13	4.65	5.19	5.67	N/A
Cumulative Retirements 7/												
Coal Steam	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Other Fossil Steam 3/	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	N/A
End Use Sector 8/												
Coal	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Petroleum	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.19	0.19	4.2%
Natural Gas	0.49	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.66	2.9%
Other Gaseous Fuels	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	-0.3%
Renewable Sources 4/	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	2.7%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	1.08	1.09	1.11	1.13	1.16	1.19	1.21	1.24	1.26	1.28	1.30	1.9%
Electricity Demand (billion kilowatthours)												
Residential	53.52	54.04	54.35	54.76	55.14	55.70	56.00	56.53	57.10	57.77	58.16	0.8%
Commercial/Other	81.90	82.87	84.00	85.11	86.12	87.19	88.36	89.65	91.01	92.39	93.79	1.4%
Industrial	27.17	27.07	27.25	27.49	27.68	27.83	27.88	28.02	28.21	28.38	28.51	0.6%
Transportation	1.53	1.55	1.57	1.60	1.63	1.65	1.68	1.71	1.73	1.76	1.79	1.4%
Total Sales	164.11	165.54	167.17	168.95	170.57	172.37	173.92	175.91	178.05	180.30	182.25	1.1%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	15.47	15.20	14.38	13.77	13.17	10.46	9.66	8.58	7.13	4.77	4.57	-3.5%
Gross International Exports	2.18	1.96	1.74	1.53	1.33	1.13	0.94	0.75	0.66	0.58	0.50	-9.5%
Gross Interregional Electricity Imports	1.08	0.94	0.93	0.89	0.88	0.93	0.74	0.67	0.66	1.17	1.16	-6.0%
Gross Interregional Electricity Exports	8.11	7.57	7.25	6.95	6.99	4.95	4.88	5.34	5.47	4.82	4.97	-2.6%
Purchases from Combined Heat and Power 8/	1.01	1.05	1.09	1.14	1.20	1.27	1.33	1.38	1.42	1.46	1.51	5.4%
Electric Power Sector Generation for Customers	167.58	168.71	170.70	172.68	174.81	177.08	179.38	182.87	186.59	190.04	192.36	1.7%
Total Net Energy for Load	174.86	176.38	178.12	180.01	181.74	183.65	185.30	187.41	189.68	192.06	194.13	1.7%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	34.04	33.98	34.01	34.08	34.09	34.11	36.61	39.65	43.27	46.79	49.37	3.5%
Petroleum	18.58	18.56	18.53	22.47	23.84	23.75	23.83	24.03	24.13	24.16	24.15	1.2%
Natural Gas	45.39	46.61	48.62	46.58	47.32	49.67	49.39	49.64	49.65	49.57	49.33	2.9%
Nuclear	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	0.1%
Pumped Storage/Other 3/	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-2.1%
Renewable Sources 4/	29.93	29.92	29.91	29.91	29.91	29.92	29.91	29.91	29.90	29.89	29.88	0.5%
Total Generation	168.87	169.99	171.98	173.97	176.09	178.36	180.67	184.15	187.87	191.32	193.64	1.7%
Sales to Customers	167.58	168.71	170.70	172.68	174.81	177.08	179.38	182.87	186.59	190.04	192.36	1.7%
Generation for Own Use	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	-3.2%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	N/A
End Use Sector 8/												
Coal	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.0%
Petroleum	0.40	0.42	0.43	0.45	0.47	0.50	0.53	0.53	0.53	0.53	0.53	3.8%
Natural Gas	1.72	1.77	1.84	1.90	1.98	2.05	2.13	2.21	2.30	2.38	2.47	3.7%
Other Gaseous Fuels	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	-0.4%
Renewable Sources 4/	0.55	0.55	0.56	0.57	0.59	0.60	0.61	0.63	0.64	0.65	0.67	2.0%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Total	3.60	3.68	3.77	3.86	3.98	4.10	4.22	4.32	4.42	4.51	4.62	2.4%
Sales to Utilities	1.01	1.05	1.09	1.14	1.20	1.27	1.33	1.38	1.42	1.46	1.51	5.4%
Generation for Own Use	2.59	2.63	2.68	2.72	2.78	2.83	2.89	2.94	3.00	3.05	3.11	1.4%
Total Electricity Generation	172.46	173.67	175.75	177.83	180.07	182.46	184.89	188.47	192.30	195.86	198.29	1.7%
End-Use Prices (2003 cents per kilowatthour)												
Residential	12.7	12.7	12.7	12.8	12.9	12.9	13.0	13.0	13.0	13.1	13.1	-0.4%
Commercial	9.8	9.9	10.0	10.2	10.3	10.4	10.4	10.5	10.4	10.7	10.7	-0.9%
Industrial	5.8	5.8	5.9	6.0	6.2	6.2	6.3	6.3	6.2	6.4	6.4	0.3%
Transportation	9.6	9.6	9.6	9.7	9.8	9.8	9.8	9.8	9.8	9.9	9.9	0.0%
All Sectors Average	10.1	10.1	10.2	10.3	10.5	10.5	10.6	10.6	10.6	10.8	10.8	-0.6%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	5.1	5.2	5.2	5.4	5.5	5.6	5.6	5.7	5.7	5.9	5.9	-1.0%

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.2%
Distribution	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.1%
Fuel Consumption (quadrillion Btu) 9/												
Coal	0.34	0.34	0.34	0.34	0.34	0.35	0.36	0.38	0.41	0.43	0.45	1.9%
Natural Gas	0.40	0.40	0.42	0.39	0.38	0.40	0.40	0.40	0.40	0.40	0.40	2.0%
Oil	0.20	0.20	0.20	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	1.2%
Total	0.94	0.94	0.96	0.97	0.98	1.00	1.01	1.04	1.07	1.09	1.11	1.8%
Fuel Prices (dollars per million Btu)												
Coal	1.51	1.51	1.51	1.51	1.51	1.51	1.50	1.50	1.51	1.51	1.52	0.3%
Natural Gas	4.52	4.52	4.58	4.73	4.86	4.95	5.04	5.10	5.09	5.16	5.23	-0.8%
Distillate Fuel	5.54	5.59	5.64	5.74	5.81	5.86	5.92	5.97	6.02	6.07	6.13	-0.2%
Residual Fuel	4.43	4.48	4.54	4.60	4.67	4.72	4.78	4.83	4.89	4.94	5.00	0.0%
Biomass	1.77	1.77	1.75	1.75	1.76	1.76	1.75	1.75	1.74	1.72	1.68	4.1%
Emissions 10/												
Total Carbon (million tons)	20.79	20.90	21.10	21.65	21.98	22.21	22.69	23.37	24.11	24.82	25.31	1.4%
Carbon Dioxide (million tons)	76.24	76.62	77.37	79.40	80.61	81.43	83.19	85.69	88.42	91.02	92.80	1.4%
Sulfur Dioxide (million tons)	0.31	0.30	0.30	0.33	0.33	0.34	0.34	0.34	0.34	0.33	0.33	-0.3%
Nitrogen Oxide (million tons)	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	1.8%
Mercury (tons)	1.21	1.20	1.20	1.19	1.17	1.14	1.09	1.12	1.13	1.14	1.23	-1.8%

Table 65. Electric Power Projections for Electricity Market Module Region Northeast Power Coordinating Council/New York

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.86	2.86	2.86
Other Fossil Steam 2/	7.41	7.41	7.08	7.08	7.08	7.08	7.08	7.08	7.08	7.08	6.09	5.08	4.05
Combined Cycle	7.58	9.97	9.97	9.97	10.46	10.46	10.46	10.46	10.32	10.32	10.32	10.32	10.32
Combustion Turbine/Diesel	2.31	2.34	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
Nuclear Power	4.34	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
Pumped Storage/Other 3/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	2.76	2.78	2.79	2.80	2.80	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	28.93	31.38	31.53	31.54	32.04	32.04	32.04	32.04	31.90	31.90	30.88	29.87	28.84
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Combustion Turbine/Diesel	0.00	0.00	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.48	0.49	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative Total Additions	0.00	0.00	0.48	0.49	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02
Other Fossil Steam 3/	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	1.32	2.33	3.36
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.14	0.14
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.33	0.33	0.33	0.33	0.33	0.33	0.47	0.47	1.48	2.49	3.52
End Use Sector 8/													
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Petroleum	0.19	0.14	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.29	0.29	0.29
Natural Gas	0.34	0.34	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.46
Other Gaseous Fuels	0.35	0.34	0.34	0.34	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30
Renewable Sources 4/	0.62	0.63	0.67	0.70	0.71	0.73	0.75	0.77	0.79	0.80	0.81	0.82	0.83
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	1.53	1.48	1.68	1.72	1.70	1.72	1.76	1.79	1.82	1.85	1.87	1.89	1.91
Electricity Demand (billion kilowatthours)													
Residential	43.08	44.44	44.90	46.06	46.97	48.10	49.14	49.64	50.10	50.43	50.88	51.09	51.43
Commercial/Other	51.07	51.67	52.32	53.65	55.08	56.83	58.54	60.02	61.36	62.58	63.69	64.71	65.52
Industrial	21.42	21.40	22.68	23.09	23.03	23.24	23.64	23.97	24.09	24.22	24.33	24.39	24.57
Transportation	1.05	1.09	1.13	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.30	1.32	1.34
Total Sales	116.62	118.59	121.03	123.94	126.26	129.37	132.53	134.87	136.81	138.51	140.21	141.50	142.86
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	6.18	5.71	4.94	6.98	6.83	6.34	5.85	5.35	5.94	5.64	5.24	5.15	5.35
Gross International Exports	0.19	0.54	0.54	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.49	0.49	0.49
Gross Interregional Electricity Imports	7.83	7.31	10.23	10.23	11.15	10.78	10.56	10.49	10.55	10.67	10.66	10.18	9.52
Gross Interregional Electricity Exports	0.53	0.53	0.04	0.03	0.02	0.03	0.04	0.04	0.34	0.39	0.39	0.14	0.22
Purchases from Combined Heat and Power 8/	1.48	1.57	1.84	1.96	2.30	2.36	2.61	2.83	2.99	3.09	3.19	3.28	3.39
Electric Power Sector Generation for Customers	106.80	108.99	113.47	114.34	115.62	119.65	123.42	126.14	127.60	129.44	131.46	132.97	134.72
Total Net Energy for Load	121.58	122.50	129.91	132.93	135.32	138.57	141.88	144.25	146.24	147.95	149.66	150.94	152.27
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	18.66	19.22	20.05	20.60	21.07	21.46	21.63	21.63	21.63	21.63	21.62	21.62	21.62
Petroleum	10.00	12.24	8.28	8.62	8.53	9.19	9.66	10.75	10.58	11.48	12.85	13.25	14.76
Natural Gas	42.07	39.63	43.45	42.85	43.55	46.53	49.67	51.30	52.93	53.75	54.40	55.51	55.75
Nuclear	33.94	34.78	35.33	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38
Pumped Storage/Other 3/	-0.85	-0.70	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52
Renewable Sources 4/	12.31	12.98	11.42	11.97	12.17	12.17	12.17	12.17	12.17	12.17	12.17	12.17	12.17
Total Generation	116.13	118.14	118.02	118.89	120.17	124.20	127.98	130.69	132.16	133.88	135.90	137.40	139.16
Sales to Customers	106.80	108.99	113.47	114.34	115.62	119.65	123.42	126.14	127.60	129.44	131.46	132.97	134.72
Generation for Own Use	9.33	9.15	4.55	4.55	4.55	4.55	4.56	4.56	4.56	4.44	4.44	4.44	4.44
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Petroleum	1.13	1.18	1.31	1.31	1.56	1.55	1.69	1.81	1.89	1.90	1.91	1.93	1.96
Natural Gas	2.81	2.55	2.68	2.74	2.94	3.02	3.13	3.24	3.36	3.47	3.58	3.70	3.83
Other Gaseous Fuels	1.25	1.25	1.25	1.25	0.87	0.87	0.89	0.91	0.93	0.95	0.97	0.99	1.01
Renewable Sources 4/	3.20	3.29	3.48	3.63	3.68	3.74	3.83	3.91	3.96	4.01	4.06	4.09	4.14
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.59	8.46	8.93	9.14	9.25	9.37	9.73	10.08	10.34	10.53	10.72	10.91	11.13
Sales to Utilities	1.48	1.57	1.84	1.96	2.30	2.36	2.61	2.83	2.99	3.09	3.19	3.28	3.39
Generation for Own Use	7.11	6.89	7.09	7.17	6.95	7.01	7.13	7.24	7.35	7.44	7.54	7.63	7.74
Total Electricity Generation	124.72	126.60	126.95	128.03	129.42	133.57	137.71	140.77	142.50	144.40	146.62	148.31	150.29
End-Use Prices (2003 cents per kilowatthour)													
Residential	11.4	11.6	11.9	11.6	10.7	10.1	10.0	10.1	10.2	10.5	10.7	10.8	11.2
Commercial	10.1	10.4	10.1	9.9	9.1	8.3	7.9	7.8	7.7	7.8	8.0	8.3	8.9
Industrial	8.7	8.9	9.2	9.0	8.3	7.6	7.1	6.8	6.4	6.3	6.3	6.5	6.9
Transportation	8.9	9.6	10.1	9.8	9.0	8.5	8.3	8.3	8.3	8.5	8.6	8.8	9.1
All Sectors Average	10.4	10.6	10.6	10.4	9.6	8.8	8.6	8.5	8.4	8.5	8.7	8.9	9.4
Prices by Service Category (2003 cents per kilowatthour)													
Generation	6.1	6.4	6.4	6.2	5.3	4.7	4.4	4.3	4.2	4.4	4.5	4.7	5.2

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Distribution	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.21	0.21	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Natural Gas	0.35	0.32	0.34	0.33	0.34	0.36	0.39	0.40	0.41	0.42	0.42	0.43	0.43
Oil	0.11	0.13	0.09	0.09	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.15
Total	0.66	0.65	0.63	0.63	0.64	0.67	0.70	0.73	0.74	0.75	0.77	0.78	0.80
Fuel Prices (dollars per million Btu)													
Coal	1.65	1.60	1.62	1.68	1.63	1.61	1.61	1.67	1.67	1.67	1.66	1.66	1.67
Natural Gas	4.01	5.89	6.00	5.90	5.21	4.88	4.64	4.51	4.40	4.44	4.49	4.59	4.72
Distillate Fuel	5.66	6.47	7.12	6.85	6.13	5.74	5.55	5.37	5.37	5.34	5.39	5.48	5.54
Residual Fuel	3.88	4.64	5.25	5.13	4.46	4.04	3.86	3.73	3.68	3.74	3.81	3.86	3.93
Biomass	2.13	2.13	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
Emissions 10/													
Total Carbon (million tons)	12.91	14.16	13.21	13.36	13.57	14.18	14.71	15.15	15.34	15.63	16.00	16.23	16.60
Carbon Dioxide (million tons)	47.33	51.92	48.43	48.98	49.74	51.99	53.92	55.56	56.26	57.31	58.66	59.52	60.86
Sulfur Dioxide (million tons)	0.16	0.19	0.17	0.16	0.14	0.14	0.15	0.13	0.13	0.13	0.14	0.14	0.15
Nitrogen Oxide (million tons)	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06
Mercury (tons)	0.52	0.55	0.53	0.52	0.47	0.48	0.48	0.43	0.45	0.43	0.45	0.45	0.46

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	3.42	0.8%
Other Fossil Steam 2/	4.05	4.05	4.05	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	-2.8%
Combined Cycle	10.59	10.78	11.26	11.84	12.31	12.82	13.31	13.69	14.22	14.84	14.84	1.8%
Combustion Turbine/Diesel	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.97	2.97	2.99	3.01	1.2%
Nuclear Power	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	0.0%
Pumped Storage/Other 3/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	2.88	3.47	3.50	3.53	3.56	3.61	3.66	3.69	3.74	3.74	3.74	1.4%
Distributed Generation 5/	0.01	0.03	0.05	0.07	0.09	0.11	0.14	0.16	0.19	0.21	0.24	N/A
Total Capacity	29.20	30.00	30.53	31.08	31.62	32.19	32.75	33.35	33.95	34.63	35.23	0.5%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	N/A
Combustion Turbine/Diesel	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.26	0.46	0.94	1.51	1.99	2.50	2.99	3.36	3.89	4.52	4.52	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.19	0.21	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.09	0.68	0.70	0.73	0.77	0.81	0.86	0.90	0.94	0.94	0.94	N/A
Distributed Generation 5/	0.01	0.03	0.05	0.07	0.09	0.11	0.14	0.16	0.19	0.21	0.24	N/A
Total Unplanned Additions	0.36	1.16	1.69	2.31	2.85	3.43	3.99	4.58	5.18	5.86	6.47	N/A
Cumulative Total Additions	1.34	2.14	2.67	3.30	3.83	4.41	4.97	5.57	6.17	6.85	7.45	N/A
Cumulative Retirements 7/												
Coal Steam	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Other Fossil Steam 3/	3.36	3.36	3.36	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	N/A
Combined Cycle	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	3.52	3.52	3.52	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	N/A
End Use Sector 8/												
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Petroleum	0.29	0.29	0.29	0.31	0.32	0.33	0.34	0.34	0.34	0.34	0.33	4.2%
Natural Gas	0.47	0.48	0.49	0.51	0.53	0.54	0.56	0.58	0.60	0.62	0.64	2.9%
Other Gaseous Fuels	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	-0.3%
Renewable Sources 4/	0.85	0.85	0.88	0.90	0.93	0.96	0.99	1.02	1.06	1.10	1.14	2.7%
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	1.94	1.97	2.00	2.06	2.12	2.17	2.23	2.28	2.34	2.40	2.46	2.3%
Electricity Demand (billion kilowatthours)												
Residential	51.92	52.54	52.96	53.47	53.94	54.63	55.02	55.61	56.25	57.02	57.53	1.2%
Commercial/Other	66.51	67.68	68.99	70.26	71.49	72.77	74.13	75.55	77.07	78.67	80.34	2.0%
Industrial	24.61	24.55	24.71	24.94	25.12	25.25	25.32	25.45	25.62	25.76	25.87	0.9%
Transportation	1.36	1.38	1.41	1.43	1.46	1.49	1.51	1.54	1.57	1.60	1.63	1.8%
Total Sales	144.40	146.15	148.07	150.10	152.02	154.13	155.98	158.16	160.52	163.05	165.36	1.5%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	7.13	6.79	6.17	5.75	5.35	9.13	9.12	8.97	9.06	8.02	7.60	1.3%
Gross International Exports	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.4%
Gross Interregional Electricity Imports	8.51	7.92	7.48	6.69	6.41	4.33	3.90	4.31	4.56	4.65	4.79	-1.9%
Gross Interregional Electricity Exports	0.37	0.37	0.38	0.38	0.38	0.39	0.40	0.39	0.39	0.76	0.64	0.9%
Purchases from Combined Heat and Power 8/	3.52	3.64	3.78	3.95	4.17	4.43	4.67	4.80	4.94	5.06	5.19	5.6%
Electric Power Sector Generation for Customers	135.51	138.18	141.15	144.33	146.84	147.13	149.30	151.20	153.23	157.11	159.61	1.7%
Total Net Energy for Load	153.81	155.67	157.70	159.85	161.89	164.14	166.10	168.40	170.91	173.59	176.05	1.7%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	21.62	21.62	21.62	21.62	21.62	21.62	21.62	21.62	21.62	21.62	25.72	1.3%
Petroleum	14.03	13.71	13.37	13.98	14.25	13.69	13.78	13.79	13.45	13.53	13.14	0.3%
Natural Gas	56.85	57.63	60.85	63.32	65.44	66.13	68.05	69.82	72.02	75.82	74.61	2.9%
Nuclear	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	0.1%
Pumped Storage/Other 3/	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-1.3%
Renewable Sources 4/	12.59	14.79	14.89	14.98	15.11	15.27	15.43	15.55	15.72	15.72	15.72	0.9%
Total Generation	139.95	142.62	145.59	148.76	151.28	151.56	153.74	155.64	157.67	161.55	164.04	1.5%
Sales to Customers	135.51	138.18	141.15	144.33	146.84	147.13	149.30	151.20	153.23	157.11	159.61	1.7%
Generation for Own Use	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	-3.2%
Distributed Generation 5/	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.11	N/A
End Use Sector 8/												
Coal	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Petroleum	2.04	2.13	2.20	2.27	2.40	2.54	2.71	2.72	2.71	2.68	2.68	3.8%
Natural Gas	3.95	4.08	4.23	4.38	4.55	4.73	4.91	5.09	5.28	5.48	5.68	3.7%
Other Gaseous Fuels	1.02	1.03	1.05	1.06	1.07	1.08	1.09	1.10	1.12	1.13	1.14	-0.4%
Renewable Sources 4/	4.20	4.23	4.31	4.41	4.51	4.61	4.71	4.80	4.91	5.01	5.11	2.0%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	11.41	11.68	11.98	12.32	12.73	13.16	13.62	13.91	14.22	14.50	14.81	2.6%
Sales to Utilities	3.52	3.64	3.78	3.95	4.17	4.43	4.67	4.80	4.94	5.06	5.19	5.6%
Generation for Own Use	7.89	8.04	8.20	8.37	8.56	8.74	8.94	9.11	9.28	9.44	9.63	1.5%
Total Electricity Generation	151.36	154.30	157.59	161.11	164.04	164.78	167.41	169.62	171.97	176.15	178.96	1.6%
End-Use Prices (2003 cents per kilowatthour)												
Residential	11.1	11.1	11.1	11.2	11.3	11.3	11.3	11.4	11.3	11.4	11.4	-0.1%
Commercial	8.9	9.0	9.0	9.1	9.2	9.3	9.3	9.4	9.3	9.3	9.3	-0.5%
Industrial	6.9	6.9	7.0	7.1	7.2	7.3	7.3	7.4	7.4	7.4	7.4	-0.8%
Transportation	9.0	9.0	9.0	9.0	9.1	9.1	9.2	9.2	9.1	9.2	9.2	-0.2%
All Sectors Average	9.4	9.4	9.4	9.5	9.6	9.7	9.7	9.8	9.7	9.8	9.8	-0.4%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.6	5.7	5.7	-0.5%

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.1%
Distribution	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	-0.4%
Fuel Consumption (quadrillion Btu) 9/												
Coal	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.25	0.9%
Natural Gas	0.44	0.44	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.54	0.53	2.4%
Oil	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.0%
Total	0.80	0.80	0.81	0.83	0.85	0.84	0.85	0.86	0.87	0.90	0.92	1.5%
Fuel Prices (dollars per million Btu)												
Coal	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.68	1.68	1.71	0.3%
Natural Gas	4.77	4.82	4.86	5.02	5.17	5.18	5.30	5.40	5.41	5.53	5.57	-0.3%
Distillate Fuel	5.59	5.63	5.68	5.79	5.86	5.91	5.96	6.02	6.07	6.12	6.17	-0.2%
Residual Fuel	3.98	4.02	4.07	4.13	4.19	4.23	4.29	4.34	4.39	4.45	4.50	-0.1%
Biomass	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	0.0%
Emissions 10/												
Total Carbon (million tons)	16.52	16.51	16.76	17.10	17.33	17.23	17.42	17.58	17.70	18.10	18.70	1.3%
Carbon Dioxide (million tons)	60.56	60.55	61.45	62.70	63.55	63.18	63.86	64.47	64.92	66.36	68.56	1.3%
Sulfur Dioxide (million tons)	0.15	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.14	0.15	0.14	-1.2%
Nitrogen Oxide (million tons)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.2%
Mercury (tons)	0.46	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	-0.9%

Table 66. Electric Power Projections for Electricity Market Module Northeast Power Coordinating Council/New England

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	11.46	11.46	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96
Other Fossil Steam 2/	12.00	11.31	11.31	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.06	10.76	10.76
Combined Cycle	7.05	9.16	10.74	11.44	11.44	11.44	11.44	12.46	13.99	13.99	14.10	14.87	15.91
Combustion Turbine/Diesel	10.09	10.09	10.06	10.06	9.92	10.03	10.91	11.11	10.97	12.29	13.38	13.99	14.05
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.55	0.55	0.55	0.55	0.55	0.57	0.57	0.57	0.62	0.62	0.62	0.62	0.69
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	45.04	46.47	47.52	48.02	47.89	48.01	48.92	50.13	51.57	52.89	54.04	55.13	56.29
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.58	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.58	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	2.55	2.55	2.65	3.43	4.47
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.18	1.09	1.29	1.41	2.83	3.93	4.54	4.60
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.07	0.07	0.07	0.07	0.14
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.20	1.11	2.33	4.03	5.46	6.66	8.05	9.21
Cumulative Total Additions	0.00	0.00	1.58	2.28	2.28	2.48	3.39	4.61	6.31	7.74	8.93	10.33	11.49
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Other Fossil Steam 3/	0.00	0.00	0.00	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.24	0.55	0.55
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.03	0.03	0.16	0.24	0.27	0.27	0.53	0.64	0.64	0.64	0.64
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.54	0.73	0.86	0.94	0.97	0.97	1.23	1.34	1.38	1.69	1.69
End Use Sector 8/													
Coal	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Petroleum	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Natural Gas	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
Renewable Sources 4/	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.21
Other	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.79	0.79	0.82	0.83	0.83	0.84	0.84	0.85	0.86	0.87	0.87	0.88	0.88
Electricity Demand (billion kilowatthours)													
Residential	102.00	106.12	106.73	109.86	112.36	115.64	119.18	121.96	124.81	127.54	130.50	132.80	135.35
Commercial/Other	78.75	80.83	81.94	83.82	86.59	89.83	93.05	96.10	99.06	102.02	104.99	107.98	110.94
Industrial	16.39	16.92	17.34	17.75	17.78	17.93	18.29	18.65	18.82	19.07	19.32	19.51	19.80
Transportation	1.09	1.14	1.15	1.18	1.21	1.24	1.27	1.30	1.34	1.37	1.40	1.43	1.46
Total Sales	198.24	205.02	207.15	212.61	217.94	224.64	231.79	238.02	244.03	250.00	256.21	261.72	267.56
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	35.11	37.99	38.69	39.67	40.35	41.37	42.67	43.71	40.21	40.39	40.40	39.91	39.47
Gross Interregional Electricity Exports	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Purchases from Combined Heat and Power 8/	0.42	0.47	0.53	0.56	0.62	0.63	0.68	0.72	0.75	0.77	0.79	0.81	0.84
Electric Power Sector Generation for Customers	193.48	193.41	180.85	185.48	190.28	196.21	202.33	207.66	217.35	223.32	229.69	235.83	242.24
Total Net Energy for Load	229.01	231.01	220.06	225.72	231.25	238.22	245.68	252.08	258.31	264.48	270.88	276.55	282.54
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	64.26	58.90	71.39	73.85	75.99	78.04	79.00	79.49	80.34	80.61	80.96	81.18	81.40
Petroleum	33.53	36.94	36.86	36.85	36.83	37.19	37.30	37.38	37.18	37.18	37.34	37.20	37.44
Natural Gas	59.59	64.11	39.09	41.04	43.61	46.90	51.65	56.39	65.21	70.74	76.52	82.57	88.21
Nuclear	33.70	30.98	31.76	31.86	31.89	31.93	32.13	32.13	32.13	32.13	32.13	32.13	32.13
Pumped Storage/Other 3/	0.31	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	3.79	3.99	3.73	3.88	3.96	4.17	4.28	4.30	4.52	4.69	4.76	4.78	5.09
Total Generation	195.18	195.16	182.83	187.48	192.29	198.23	204.36	209.68	219.38	225.35	231.72	237.86	244.26
Sales to Customers	193.48	193.41	180.85	185.48	190.28	196.21	202.33	207.66	217.35	223.32	229.69	235.83	242.24
Generation for Own Use	1.70	1.75	1.98	2.00	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.03
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Petroleum	0.13	0.13	0.15	0.15	0.17	0.17	0.19	0.20	0.21	0.21	0.21	0.22	0.22
Natural Gas	0.60	0.55	0.57	0.59	0.63	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.82
Other Gaseous Fuels	0.14	0.14	0.14	0.14	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11
Renewable Sources 4/	0.98	1.01	1.07	1.11	1.13	1.15	1.17	1.20	1.22	1.23	1.24	1.25	1.27
Other	1.21	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
Total	3.18	3.29	3.39	3.45	3.49	3.52	3.59	3.66	3.71	3.75	3.79	3.83	3.88
Sales to Utilities	0.42	0.47	0.53	0.56	0.62	0.63	0.68	0.72	0.75	0.77	0.79	0.81	0.84
Generation for Own Use	2.77	2.82	2.86	2.89	2.87	2.89	2.91	2.94	2.96	2.98	3.00	3.02	3.04
Total Electricity Generation	198.37	198.45	186.22	190.93	195.78	201.75	207.95	213.34	223.09	229.10	235.51	241.69	248.15
End-Use Prices (2003 cents per kilowatthour)													
Residential	8.4	8.6	9.6	9.9	9.6	9.3	9.1	9.0	9.0	8.9	8.8	8.9	8.9
Commercial	6.8	7.2	8.0	8.3	8.1	7.8	7.7	7.6	7.6	7.6	7.6	7.6	7.7
Industrial	5.4	5.5	6.1	6.3	6.2	6.0	5.9	5.8	5.8	5.8	5.8	5.8	5.9
Transportation	7.2	7.0	7.4	7.7	7.4	7.1	7.0	6.9	6.9	6.8	6.8	6.9	6.9
All Sectors Average	7.5	7.8	8.7	9.0	8.7	8.4	8.2	8.2	8.2	8.1	8.1	8.1	8.2
Prices by Service Category (2003 cents per kilowatthour)													
Generation	5.0	5.3	6.2	6.4	6.2	5.9	5.7	5.6	5.5	5.4	5.4	5.4	5.5

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7
Distribution	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.70	0.73	0.70	0.72	0.74	0.76	0.77	0.78	0.79	0.79	0.79	0.80	0.80
Natural Gas	0.52	0.53	0.33	0.35	0.37	0.40	0.44	0.47	0.53	0.57	0.61	0.65	0.69
Oil	0.34	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Total	1.56	1.64	1.41	1.45	1.49	1.54	1.59	1.63	1.70	1.74	1.79	1.83	1.87
Fuel Prices (dollars per million Btu)													
Coal	1.67	1.55	1.61	1.70	1.67	1.68	1.66	1.65	1.66	1.66	1.67	1.68	1.68
Natural Gas	4.11	5.96	6.24	6.14	5.36	4.86	4.55	4.55	4.43	4.56	4.67	4.79	5.03
Distillate Fuel	5.52	6.31	6.94	6.68	6.00	5.61	5.42	5.23	5.13	5.09	5.14	5.17	5.24
Residual Fuel	3.93	4.71	5.33	5.21	4.93	4.51	4.32	4.18	4.13	4.18	4.23	4.28	4.34
Biomass	0.69	0.69	0.69	0.97	1.04	1.09	1.27	1.41	1.37	1.38	1.40	1.40	1.44
Emissions 10/													
Total Carbon (million tons)	33.75	34.95	33.89	34.80	35.71	36.83	37.76	38.42	39.56	40.31	41.15	41.80	42.49
Carbon Dioxide (million tons)	123.74	128.15	124.25	127.61	130.94	135.05	138.44	140.87	145.06	147.80	150.88	153.27	155.80
Sulfur Dioxide (million tons)	0.48	0.46	0.41	0.43	0.43	0.44	0.44	0.46	0.48	0.48	0.47	0.48	0.48
Nitrogen Oxide (million tons)	0.26	0.25	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24
Mercury (tons)	1.39	1.32	1.24	1.29	1.32	1.37	1.39	1.49	1.59	1.63	1.63	1.64	1.64

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	10.96	11.24	11.52	11.92	11.92	11.92	13.17	14.87	16.26	17.46	18.68	2.2%
Other Fossil Steam 2/	10.76	10.76	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	-0.4%
Combined Cycle	16.92	17.82	18.62	19.81	20.68	21.82	21.82	21.82	21.82	22.16	22.53	4.2%
Combustion Turbine/Diesel	14.05	14.05	14.04	14.00	14.19	14.24	14.22	13.97	13.97	13.62	13.54	1.3%
Nuclear Power	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	0.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.75	0.75	0.83	0.94	1.01	1.15	1.15	1.15	1.15	1.33	1.51	4.7%
Distributed Generation 5/	0.00	0.02	0.02	0.02	0.04	0.07	0.07	0.09	0.12	0.15	0.18	N/A
Total Capacity	57.36	58.57	59.21	60.88	62.02	63.38	64.61	66.08	67.50	68.90	70.63	1.9%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.29	0.56	0.97	0.97	0.97	2.22	3.91	5.30	6.50	7.73	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	5.48	6.38	7.17	8.37	9.23	10.38	10.38	10.38	10.38	10.72	11.09	N/A
Combustion Turbine/Diesel	4.60	4.60	4.60	4.60	4.78	5.05	5.05	5.05	5.05	5.33	5.67	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.20	0.20	0.28	0.39	0.46	0.60	0.60	0.60	0.60	0.78	0.96	N/A
Distributed Generation 5/	0.00	0.02	0.02	0.02	0.04	0.07	0.07	0.09	0.12	0.15	0.18	N/A
Total Unplanned Additions	10.27	11.49	12.64	14.35	15.49	17.07	18.32	20.04	21.46	23.48	25.62	N/A
Cumulative Total Additions	12.55	13.76	14.92	16.63	17.77	19.35	20.60	22.32	23.74	25.76	27.90	N/A
Cumulative Retirements 7/												
Coal Steam	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	N/A
Other Fossil Steam 3/	0.55	0.55	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.64	0.64	0.65	0.68	0.68	0.90	0.92	1.17	1.17	1.79	2.21	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	1.69	1.69	2.20	2.24	2.24	2.46	2.48	2.73	2.73	3.35	3.77	N/A
End Use Sector 8/												
Coal	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Petroleum	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	4.2%
Natural Gas	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	2.9%
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.3%
Renewable Sources 4/	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29	2.7%
Other	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.0%

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	0.89	0.90	0.90	0.92	0.93	0.94	0.95	0.97	0.98	1.00	1.01	1.1%
Electricity Demand (billion kilowatthours)												
Residential	137.87	140.55	142.65	145.00	147.33	150.06	152.09	154.61	157.21	160.18	162.39	2.0%
Commercial/Other	113.99	117.15	120.43	123.45	126.51	129.67	132.99	136.47	140.06	143.82	147.67	2.8%
Industrial	19.98	20.07	20.35	20.67	20.90	21.15	21.35	21.57	21.84	22.12	22.36	1.3%
Transportation	1.49	1.53	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	2.2%
Total Sales	273.34	279.30	284.98	290.71	296.38	302.55	308.14	314.39	320.90	327.95	334.28	2.2%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Electricity Imports	39.28	38.46	36.98	36.71	34.93	34.64	33.01	29.41	27.50	24.26	20.71	-2.7%
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Purchases from Combined Heat and Power 8/	0.86	0.89	0.92	0.95	1.00	1.05	1.09	1.12	1.15	1.18	1.21	4.4%
Electric Power Sector Generation for Customers	248.33	255.40	262.86	269.13	276.85	283.58	291.07	301.22	309.96	320.59	330.78	2.5%
Total Net Energy for Load	288.47	294.75	300.76	306.80	312.77	319.27	325.17	331.76	338.61	346.03	352.71	1.9%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	81.43	83.58	85.74	88.65	88.65	88.86	97.94	110.32	120.24	129.07	137.78	3.9%
Petroleum	37.50	37.46	36.24	33.84	33.94	33.81	34.53	33.75	33.72	33.53	33.30	-0.5%
Natural Gas	93.83	98.71	104.84	109.98	117.03	122.99	120.32	118.60	117.32	118.85	119.80	2.9%
Nuclear	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	0.2%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	5.47	5.54	5.94	6.55	7.13	7.80	8.16	8.43	8.56	9.03	9.78	4.2%
Total Generation	250.36	257.43	264.89	271.16	278.88	285.60	293.09	303.24	311.97	322.60	332.80	2.5%
Sales to Customers	248.33	255.40	262.86	269.13	276.85	283.58	291.07	301.22	309.96	320.59	330.78	2.5%
Generation for Own Use	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	0.6%
Distributed Generation 5/	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.07	0.08	N/A
End Use Sector 8/												
Coal	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	N/A
Petroleum	0.23	0.24	0.25	0.25	0.27	0.28	0.30	0.30	0.30	0.30	0.30	3.8%
Natural Gas	0.85	0.87	0.91	0.94	0.98	1.01	1.05	1.09	1.13	1.17	1.22	3.7%
Other Gaseous Fuels	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	-0.4%
Renewable Sources 4/	1.29	1.30	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.57	2.0%
Other	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	0.0%
Total	3.94	3.99	4.05	4.12	4.21	4.29	4.38	4.45	4.53	4.60	4.67	1.6%
Sales to Utilities	0.86	0.89	0.92	0.95	1.00	1.05	1.09	1.12	1.15	1.18	1.21	4.4%
Generation for Own Use	3.07	3.10	3.13	3.17	3.21	3.25	3.29	3.33	3.37	3.41	3.46	0.9%
Total Electricity Generation	254.30	261.42	268.95	275.29	283.10	289.92	297.50	307.73	316.55	327.27	337.55	2.4%
End-Use Prices (2003 cents per kilowatthour)												
Residential	9.0	9.0	8.9	9.0	9.0	9.0	9.1	9.0	9.0	9.0	9.0	0.2%
Commercial	7.8	7.8	7.8	7.9	7.9	8.0	8.0	8.0	8.0	8.0	8.1	0.5%
Industrial	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	0.4%
Transportation	7.0	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	-0.1%
All Sectors Average	8.2	8.3	8.2	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	0.3%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	5.5	5.5	5.5	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	0.3%

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.3%
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.2%
Fuel Consumption (quadrillion Btu) 9/												
Coal	0.80	0.81	0.83	0.85	0.85	0.85	0.93	1.03	1.12	1.19	1.27	2.5%
Natural Gas	0.72	0.75	0.79	0.82	0.87	0.90	0.88	0.87	0.86	0.87	0.88	2.3%
Oil	0.38	0.38	0.37	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	-0.5%
Total	1.90	1.95	1.99	2.02	2.06	2.10	2.16	2.25	2.32	2.40	2.48	1.9%
Fuel Prices (dollars per million Btu)												
Coal	1.68	1.68	1.67	1.69	1.69	1.69	1.74	1.76	1.78	1.80	1.81	0.7%
Natural Gas	5.17	5.16	5.28	5.44	5.62	5.72	5.76	5.75	5.71	5.75	5.81	-0.1%
Distillate Fuel	5.29	5.35	5.41	5.60	5.72	5.78	5.83	5.88	5.93	5.99	6.04	-0.2%
Residual Fuel	4.39	4.44	4.49	4.53	4.59	4.64	4.69	4.75	4.80	4.85	4.91	0.2%
Biomass	1.46	1.48	1.51	1.58	1.62	1.61	1.64	1.65	1.65	1.62	1.60	3.9%
Emissions 10/												
Total Carbon (million tons)	43.08	43.98	44.77	45.22	45.96	46.56	48.47	51.08	53.29	55.49	57.59	2.3%
Carbon Dioxide (million tons)	157.96	161.26	164.16	165.81	168.53	170.72	177.72	187.28	195.40	203.47	211.18	2.3%
Sulfur Dioxide (million tons)	0.48	0.48	0.47	0.45	0.45	0.44	0.44	0.44	0.44	0.45	0.46	0.0%
Nitrogen Oxide (million tons)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.1%
Mercury (tons)	1.64	1.65	1.65	1.61	1.60	1.52	1.53	1.55	1.56	1.58	1.64	1.0%

Table 67. Electric Power Projections for Electricity Market Module Region Florida Reliability Coordinating Council

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	71.41	71.16	71.19	71.19	71.19	71.19	71.19	71.19	71.19	71.19	71.15	71.15	71.29
Other Fossil Steam 2/	18.61	18.87	18.84	18.84	18.82	18.82	18.77	18.77	18.73	18.73	17.87	17.87	17.56
Combined Cycle	22.51	31.40	35.31	35.96	38.59	38.59	38.59	38.59	38.59	38.59	38.59	38.59	39.16
Combustion Turbine/Diesel	29.30	31.11	31.85	31.85	31.76	31.64	31.64	31.38	31.38	31.38	30.74	30.74	32.45
Nuclear Power	32.21	32.30	32.43	32.78	32.90	33.02	33.05	33.08	33.13	33.15	33.52	33.87	34.23
Pumped Storage/Other 3/	7.04	7.11	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	12.29	12.29	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.49
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	193.37	204.24	209.13	210.13	212.77	212.77	212.75	212.51	212.52	212.54	211.38	211.74	214.36
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	3.91	4.56	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19
Combustion Turbine/Diesel	0.00	0.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	4.70	5.35	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.57
Cumulative Total Additions	0.00	0.00	4.70	5.35	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	10.55
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 3/	0.00	0.00	0.03	0.03	0.05	0.05	0.10	0.10	0.14	0.14	1.00	1.00	1.31
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.09	0.21	0.21	0.48	0.48	0.48	1.11	1.11	1.11
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.03	0.03	0.14	0.26	0.31	0.57	0.62	0.62	2.12	2.12	2.43
End Use Sector 8/													
Coal	0.81	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Petroleum	0.32	0.23	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.50	0.49	0.49	0.49
Natural Gas	4.16	4.22	4.46	4.53	4.61	4.70	4.83	4.96	5.09	5.22	5.35	5.49	5.63
Other Gaseous Fuels	0.58	0.57	0.57	0.57	0.48	0.48	0.48	0.49	0.49	0.50	0.50	0.50	0.51

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Renewable Sources 4/	2.99	3.02	3.20	3.36	3.42	3.50	3.61	3.71	3.80	3.85	3.90	3.93	3.99
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	8.92	8.90	9.57	9.80	9.87	10.03	10.27	10.52	10.74	10.93	11.10	11.28	11.49
Electricity Demand (billion kilowatthours)													
Residential	298.18	296.18	298.29	306.97	312.25	319.69	327.91	334.05	340.43	346.47	353.15	358.04	363.55
Commercial/Other	232.99	230.47	235.87	241.86	249.76	258.90	267.98	276.60	285.01	293.47	301.92	310.47	318.92
Industrial	247.45	247.13	256.14	262.13	262.85	266.79	272.32	277.43	279.86	283.58	287.27	290.09	295.00
Transportation	3.98	4.05	4.11	4.21	4.31	4.41	4.51	4.61	4.71	4.80	4.91	5.01	5.11
Total Sales	782.60	777.82	794.41	815.16	829.16	849.78	872.71	892.69	910.01	928.32	947.25	963.61	982.58
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	82.73	89.55	89.61	86.56	86.07	87.47	84.12	84.03	82.74	85.16	84.51	81.21	80.27
Gross Interregional Electricity Exports	51.88	55.86	60.55	56.10	57.07	57.70	57.67	57.93	54.58	54.77	54.92	52.93	51.11
Purchases from Combined Heat and Power 8/	9.32	9.66	10.99	11.83	13.52	14.07	15.10	16.11	16.92	17.63	18.36	19.04	19.84
Electric Power Sector Generation for Customers	821.62	813.67	803.53	822.77	836.90	856.94	883.07	902.93	917.90	933.73	953.29	970.64	988.35
Total Net Energy for Load	861.79	857.03	843.58	865.06	879.42	900.78	924.63	945.14	962.99	981.75	1001.25	1017.96	1037.35
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	436.56	443.39	444.51	458.41	471.46	484.67	492.91	499.20	501.31	503.64	505.93	506.33	508.00
Petroleum	7.04	12.22	15.06	15.76	15.57	15.73	16.13	16.32	16.66	16.74	17.11	17.84	18.40
Natural Gas	102.06	74.13	72.80	69.37	67.84	66.50	82.89	95.66	107.52	120.87	135.27	148.63	161.04
Nuclear	252.76	246.95	253.05	256.34	257.46	265.46	265.72	265.72	266.13	266.36	268.93	271.85	274.31
Pumped Storage/Other 3/	-2.75	-2.91	-3.63	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64
Renewable Sources 4/	30.27	44.46	35.02	39.91	41.60	41.62	42.46	43.09	43.33	43.17	42.87	42.81	43.40
Total Generation	825.94	818.24	816.82	836.15	850.29	870.34	896.48	916.35	931.32	947.15	966.47	983.82	1001.52
Sales to Customers	821.62	813.67	803.53	822.77	836.90	856.94	883.07	902.93	917.90	933.73	953.29	970.64	988.35
Generation for Own Use	4.32	4.57	13.28	13.38	13.39	13.41	13.41	13.41	13.41	13.41	13.18	13.18	13.18
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	3.93	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84
Petroleum	1.56	1.64	1.81	1.81	2.17	2.15	2.35	2.52	2.62	2.63	2.65	2.68	2.71
Natural Gas	25.52	23.17	24.39	24.91	26.75	27.43	28.44	29.50	30.58	31.58	32.60	33.67	34.80
Other Gaseous Fuels	1.74	1.73	1.74	1.74	1.21	1.21	1.23	1.26	1.29	1.32	1.35	1.37	1.40
Renewable Sources 4/	20.01	20.55	21.78	22.72	23.00	23.37	23.91	24.43	24.77	25.05	25.36	25.54	25.88
Other	2.17	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
Total	54.93	53.33	55.97	57.43	59.37	60.40	62.18	63.96	65.49	66.82	68.20	69.52	71.04
Sales to Utilities	9.32	9.66	10.99	11.83	13.52	14.07	15.10	16.11	16.92	17.63	18.36	19.04	19.84
Generation for Own Use	45.61	43.67	44.98	45.60	45.85	46.33	47.08	47.85	48.57	49.19	49.84	50.47	51.20
Total Electricity Generation	880.87	871.57	872.79	893.58	909.66	930.74	958.66	980.31	996.81	1013.97	1034.67	1053.33	1072.56
End-Use Prices (2003 cents per kilowatthour)													
Residential	7.7	7.7	8.0	7.9	7.7	7.4	7.3	7.2	7.1	7.0	6.9	6.9	6.9
Commercial	6.6	6.6	6.9	6.8	6.6	6.4	6.3	6.2	6.2	6.1	6.1	6.1	6.1
Industrial	4.2	4.3	4.5	4.5	4.4	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1
Transportation	5.9	6.2	6.2	6.1	5.9	5.7	5.6	5.5	5.5	5.4	5.4	5.4	5.4
All Sectors Average	6.2	6.3	6.6	6.5	6.3	6.1	6.0	5.9	5.9	5.9	5.8	5.8	5.8

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Prices by Service Category (2003 cents per kilowatthour)													
Generation	4.2	4.4	4.6	4.6	4.4	4.2	4.1	4.0	4.0	4.0	3.9	3.9	3.9
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
Distribution	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4
Fuel Consumption (quadrillion Btu) 9/													
Coal	4.35	4.39	4.46	4.60	4.73	4.86	4.95	5.01	5.04	5.06	5.09	5.09	5.11
Natural Gas	0.99	0.70	0.60	0.58	0.57	0.56	0.69	0.79	0.88	0.99	1.09	1.20	1.29
Oil	0.07	0.13	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19
Total	5.41	5.22	5.22	5.34	5.46	5.59	5.80	5.98	6.10	6.23	6.36	6.48	6.59
Fuel Prices (dollars per million Btu)													
Coal	1.49	1.29	1.42	1.39	1.40	1.39	1.39	1.43	1.43	1.46	1.45	1.46	1.46
Natural Gas	3.64	5.68	5.95	5.69	4.88	4.36	4.04	4.05	4.00	4.07	4.20	4.34	4.55
Distillate Fuel	5.62	6.39	7.01	6.74	6.08	5.68	5.49	5.31	5.20	5.16	5.21	5.24	5.30
Residual Fuel	3.86	4.67	5.31	5.19	4.76	4.33	4.12	3.98	3.91	3.96	4.00	4.06	4.08
Biomass	1.09	1.05	1.06	1.19	1.21	1.24	1.37	1.45	1.48	1.49	1.49	1.49	1.52
Emissions 10/													
Total Carbon (million tons)	136.27	137.22	139.67	143.40	146.79	150.49	154.99	158.58	160.92	163.44	165.89	167.88	169.99
Carbon Dioxide (million tons)	499.64	503.14	512.11	525.79	538.22	551.79	568.31	581.45	590.02	599.30	608.25	615.55	623.28
Sulfur Dioxide (million tons)	2.78	2.88	2.78	2.77	2.71	2.64	2.47	2.48	2.48	2.43	2.35	2.32	2.32
Nitrogen Oxide (million tons)	1.10	1.04	0.75	0.77	0.79	0.80	0.83	0.85	0.86	0.87	0.87	0.88	0.88
Mercury (tons)	10.21	10.16	10.71	10.71	10.26	10.38	9.98	10.79	11.03	11.31	11.27	11.26	11.33

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	71.29	71.61	72.10	74.47	76.16	79.96	83.27	87.06	90.15	92.72	94.93	1.3%
Other Fossil Steam 2/	17.56	17.56	17.48	17.48	17.37	17.37	17.37	17.37	17.37	17.37	17.37	-0.4%
Combined Cycle	40.77	42.40	42.90	42.90	43.09	43.09	43.09	43.09	43.29	43.29	43.61	1.5%
Combustion Turbine/Diesel	33.55	34.96	37.17	38.18	39.52	39.52	39.52	39.52	40.21	42.44	43.96	1.6%
Nuclear Power	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	0.3%
Pumped Storage/Other 3/	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	12.68	12.68	12.68	12.68	12.74	12.77	12.77	12.77	12.86	12.91	13.03	0.3%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Capacity	217.38	220.73	223.86	227.24	230.41	234.24	237.55	241.34	245.40	250.26	254.42	1.0%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	N/A
Combustion Turbine/Diesel	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.14	0.45	0.94	3.32	5.00	8.81	12.12	15.91	19.00	21.57	23.78	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	2.18	3.81	4.31	4.31	4.51	4.51	4.51	4.51	4.70	4.70	5.02	N/A
Combustion Turbine/Diesel	2.81	4.22	6.43	7.44	8.78	8.78	8.78	8.78	9.47	11.70	13.22	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.34	0.34	0.34	0.34	0.40	0.43	0.43	0.43	0.52	0.57	0.69	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Unplanned Additions	5.48	8.83	12.03	15.42	18.69	22.52	25.83	29.62	33.68	38.54	42.70	N/A
Cumulative Total Additions	13.46	16.81	20.01	23.40	26.67	30.50	33.81	37.60	41.66	46.52	50.68	N/A
Cumulative Retirements 7/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	1.31	1.31	1.39	1.39	1.50	1.50	1.50	1.50	1.50	1.50	1.50	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	2.43	2.43	2.51	2.51	2.61	2.61	2.61	2.61	2.61	2.61	2.61	N/A
End Use Sector 8/												
Coal	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.0%
Petroleum	0.49	0.49	0.49	0.51	0.54	0.55	0.57	0.57	0.57	0.56	0.56	4.2%
Natural Gas	5.78	5.93	6.10	6.29	6.49	6.70	6.91	7.13	7.35	7.59	7.83	2.9%
Other Gaseous Fuels	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	-0.3%

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Renewable Sources 4/	4.06	4.10	4.21	4.34	4.47	4.61	4.75	4.91	5.10	5.29	5.49	2.7%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%
Total	11.70	11.90	12.19	12.52	12.88	13.24	13.62	14.00	14.41	14.83	15.28	2.5%
Electricity Demand (billion kilowatthours)												
Residential	369.02	374.94	379.24	384.19	389.06	394.96	399.06	404.46	410.09	416.68	421.18	1.6%
Commercial/Other	327.63	336.73	346.08	354.99	363.89	373.03	382.64	392.76	403.23	414.22	425.40	2.8%
Industrial	297.58	298.95	303.14	307.85	311.08	314.38	317.03	319.73	323.05	326.84	330.17	1.3%
Transportation	5.21	5.32	5.43	5.55	5.66	5.78	5.90	6.02	6.14	6.27	6.40	2.1%
Total Sales	999.45	1015.95	1033.89	1052.58	1069.69	1088.14	1104.63	1122.97	1142.51	1164.01	1183.15	1.9%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Electricity Imports	82.19	78.85	78.42	72.85	65.43	56.66	48.06	33.99	32.69	29.02	28.24	-5.1%
Gross Interregional Electricity Exports	49.51	47.53	44.69	43.04	39.86	38.23	35.50	30.71	29.33	26.37	22.93	-4.0%
Purchases from Combined Heat and Power 8/	20.67	21.44	22.42	23.50	24.71	25.98	27.23	28.29	29.38	30.44	31.49	5.5%
Electric Power Sector Generation for Customers	1001.20	1019.27	1034.76	1057.31	1078.49	1103.90	1125.85	1153.38	1172.83	1195.16	1211.65	1.8%
Total Net Energy for Load	1054.55	1072.03	1090.91	1110.62	1128.78	1148.31	1165.64	1184.95	1205.57	1228.25	1248.45	1.7%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	509.00	511.62	515.97	533.46	546.21	574.64	598.18	624.90	646.53	665.25	680.48	2.0%
Petroleum	18.88	18.98	19.45	19.85	22.03	22.52	22.97	22.92	21.49	21.62	23.34	3.0%
Natural Gas	170.99	186.17	196.85	201.43	207.58	204.45	202.24	203.15	202.17	206.20	206.22	4.8%
Nuclear	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	0.5%
Pumped Storage/Other 3/	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	1.0%
Renewable Sources 4/	44.07	44.24	44.24	44.31	44.41	44.03	44.20	44.15	44.38	43.83	43.34	-0.1%
Total Generation	1014.38	1032.45	1047.94	1070.48	1091.66	1117.08	1139.02	1166.55	1186.00	1208.34	1224.83	1.9%
Sales to Customers	1001.20	1019.27	1034.76	1057.31	1078.49	1103.90	1125.85	1153.38	1172.83	1195.16	1211.65	1.8%
Generation for Own Use	13.18	13.18	13.18	13.18	13.18	13.18	13.18	13.18	13.18	13.18	13.18	4.9%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
End Use Sector 8/												
Coal	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	0.0%
Petroleum	2.83	2.96	3.05	3.15	3.32	3.53	3.76	3.77	3.76	3.72	3.72	3.8%
Natural Gas	35.91	37.13	38.45	39.87	41.41	43.01	44.67	46.33	48.06	49.84	51.70	3.7%
Other Gaseous Fuels	1.42	1.43	1.45	1.47	1.48	1.50	1.52	1.53	1.55	1.57	1.58	-0.4%
Renewable Sources 4/	26.25	26.43	26.96	27.55	28.21	28.81	29.42	30.02	30.69	31.33	31.95	2.0%
Other	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	0.0%
Total	72.66	74.19	76.16	78.29	80.66	83.09	85.61	87.89	90.30	92.70	95.19	2.7%
Sales to Utilities	20.67	21.44	22.42	23.50	24.71	25.98	27.23	28.29	29.38	30.44	31.49	5.5%
Generation for Own Use	51.99	52.75	53.74	54.79	55.95	57.11	58.37	59.60	60.92	62.26	63.70	1.7%
Total Electricity Generation	1087.04	1106.64	1124.10	1148.78	1172.32	1200.17	1224.63	1254.44	1276.30	1301.04	1320.01	1.9%
End-Use Prices (2003 cents per kilowatthour)												
Residential	6.9	6.9	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	-0.4%
Commercial	6.1	6.1	6.2	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4	-0.2%
Industrial	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0.0%
Transportation	5.4	5.4	5.4	5.4	5.5	5.5	5.5	5.5	5.4	5.4	5.4	-0.6%
All Sectors Average	5.8	5.8	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	-0.2%

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.0	4.0	4.0	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2	-0.1%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6%
Distribution	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	-0.9%
Fuel Consumption (quadrillion Btu) 9/												
Coal	5.12	5.14	5.18	5.33	5.44	5.67	5.87	6.09	6.26	6.41	6.52	1.8%
Natural Gas	1.35	1.45	1.53	1.57	1.61	1.59	1.57	1.58	1.58	1.61	1.61	3.8%
Oil	0.20	0.20	0.20	0.21	0.23	0.23	0.24	0.24	0.22	0.22	0.24	2.7%
Total	6.67	6.80	6.92	7.11	7.28	7.49	7.68	7.90	8.06	8.24	8.37	2.2%
Fuel Prices (dollars per million Btu)												
Coal	1.47	1.47	1.49	1.49	1.49	1.47	1.47	1.47	1.47	1.48	1.49	0.7%
Natural Gas	4.70	4.70	4.81	4.98	5.15	5.25	5.32	5.34	5.30	5.35	5.42	-0.2%
Distillate Fuel	5.35	5.42	5.47	5.65	5.79	5.85	5.94	6.01	6.08	6.12	6.17	-0.2%
Residual Fuel	4.13	4.18	4.22	4.25	4.35	4.40	4.46	4.51	4.50	4.56	4.68	0.0%
Biomass	1.52	1.53	1.52	1.56	1.58	1.59	1.60	1.60	1.61	1.61	1.59	1.9%
Emissions 10/												
Total Carbon (million tons)	171.38	173.72	176.16	181.10	185.41	191.59	196.98	203.33	207.76	212.35	215.76	2.1%
Carbon Dioxide (million tons)	628.39	636.96	645.90	664.02	679.85	702.50	722.27	745.55	761.79	778.61	791.10	2.1%
Sulfur Dioxide (million tons)	2.33	2.34	2.35	2.37	2.38	2.40	2.40	2.40	2.40	2.40	2.41	-0.8%
Nitrogen Oxide (million tons)	0.89	0.89	0.89	0.90	0.91	0.92	0.93	0.94	0.94	0.94	0.94	-0.4%
Mercury (tons)	11.31	11.30	11.36	11.43	11.48	11.61	11.83	11.98	12.04	12.13	12.24	0.9%

Table 68. Electric Power Projections for Electricity Market Module Southeastern Electric Reliability Council

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.11	21.11	21.11	21.11	21.11	21.11
Other Fossil Steam 2/	12.79	12.71	12.66	11.30	10.69	10.38	10.35	10.35	10.35	10.31	8.35	8.08	8.08
Combined Cycle	6.78	10.58	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.12	11.12
Combustion Turbine/Diesel	6.50	6.86	7.50	7.45	7.33	7.33	7.33	7.33	7.33	7.33	7.25	7.25	7.25
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18
Pumped Storage/Other 3/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	2.72	2.90	2.90	3.15	3.16	3.16	3.16	3.16	3.16	3.16	3.17	3.17	3.17
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	52.05	56.32	57.54	56.38	55.65	55.34	55.31	54.83	54.83	54.81	52.77	52.40	52.40
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Combustion Turbine/Diesel	0.00	0.00	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.27	1.53	1.53	1.53	1.53	1.53	1.53	1.54	1.54	1.54	1.54
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative Total Additions	0.00	0.00	1.27	1.53	1.53	1.53	1.53	1.53	1.53	1.54	1.54	1.54	1.54
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49
Other Fossil Steam 3/	0.00	0.00	0.05	1.44	2.04	2.36	2.39	2.39	2.39	2.42	4.38	4.66	4.66
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
Combustion Turbine/Diesel	0.00	0.00	0.00	0.06	0.17	0.17	0.17	0.17	0.17	0.17	0.25	0.26	0.26
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.05	1.49	2.21	2.53	2.56	3.05	3.05	3.08	5.12	5.49	5.49
End Use Sector 8/													
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Petroleum	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.35	0.36	0.38	0.39	0.39	0.40	0.41	0.42	0.43	0.44	0.46	0.47	0.48
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Sources 4/	0.35	0.35	0.37	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.46
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.78	0.79	0.84	0.86	0.87	0.89	0.91	0.94	0.96	0.97	0.99	1.01	1.03
Electricity Demand (billion kilowatthours)													
Residential	62.38	64.06	64.44	67.34	68.62	70.14	71.87	73.14	74.51	75.85	77.34	78.44	79.67
Commercial/Other	62.91	63.78	64.77	66.89	68.78	70.94	73.11	75.16	77.16	79.21	81.28	83.31	85.27
Industrial	47.27	47.65	49.90	51.09	51.46	52.97	54.10	55.02	55.46	56.12	56.75	57.27	58.40
Transportation	0.93	0.96	0.99	1.01	1.03	1.05	1.08	1.10	1.12	1.14	1.17	1.19	1.21
Total Sales	173.49	176.45	180.09	186.33	189.88	195.10	200.15	204.41	208.25	212.32	216.54	220.21	224.56
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	20.52	27.93	30.30	23.36	22.65	23.47	25.14	25.93	23.22	23.02	22.52	21.13	19.03
Gross Interregional Electricity Exports	19.21	16.97	21.23	18.04	18.36	17.96	18.12	16.17	15.53	15.11	14.89	13.69	12.04
Purchases from Combined Heat and Power 8/	0.78	0.85	0.97	1.06	1.17	1.22	1.30	1.38	1.44	1.50	1.55	1.60	1.66
Electric Power Sector Generation for Customers	202.32	209.09	183.43	193.65	198.23	202.14	206.16	207.71	213.66	217.60	222.22	226.16	231.01
Total Net Energy for Load	204.41	220.91	193.47	200.03	203.70	208.88	214.49	218.85	222.79	227.01	231.40	235.19	239.66
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	143.65	146.26	142.36	148.76	153.48	157.12	158.14	154.48	154.55	154.77	154.90	154.93	154.90
Petroleum	0.60	1.25	1.25	1.35	1.38	1.42	1.44	1.43	1.47	1.49	1.54	1.55	1.59
Natural Gas	42.82	48.17	28.17	30.19	29.86	29.91	32.98	38.14	44.01	47.57	51.97	55.88	60.68
Nuclear	9.04	8.89	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.39	9.39	9.39	9.39
Pumped Storage/Other 3/	-0.13	0.11	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
Renewable Sources 4/	7.02	5.47	5.81	7.54	7.71	7.90	7.81	7.88	7.84	7.87	7.87	7.86	7.90
Total Generation	203.00	210.15	186.67	196.90	201.49	205.41	209.44	210.99	216.94	220.88	225.46	229.40	234.26
Sales to Customers	202.32	209.09	183.43	193.65	198.23	202.14	206.16	207.71	213.66	217.60	222.22	226.16	231.01
Generation for Own Use	0.68	1.06	3.24	3.25	3.26	3.27	3.28	3.28	3.28	3.28	3.24	3.24	3.24
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Petroleum	0.12	0.13	0.14	0.14	0.17	0.17	0.18	0.20	0.20	0.21	0.21	0.21	0.21
Natural Gas	1.61	1.46	1.54	1.57	1.69	1.73	1.80	1.86	1.93	1.99	2.06	2.13	2.20
Other Gaseous Fuels	0.14	0.13	0.14	0.14	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11
Renewable Sources 4/	2.29	2.36	2.50	2.61	2.64	2.68	2.74	2.80	2.84	2.87	2.91	2.93	2.97
Other	0.35	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Total	5.23	5.17	5.40	5.54	5.68	5.76	5.91	6.05	6.16	6.26	6.37	6.46	6.57
Sales to Utilities	0.78	0.85	0.97	1.06	1.17	1.22	1.30	1.38	1.44	1.50	1.55	1.60	1.66
Generation for Own Use	4.45	4.32	4.43	4.49	4.50	4.54	4.60	4.67	4.72	4.77	4.81	4.86	4.91
Total Electricity Generation	208.23	215.32	192.07	202.45	207.17	211.17	215.34	217.04	223.10	227.14	231.83	235.86	240.83
End-Use Prices (2003 cents per kilowatthour)													
Residential	7.0	7.3	7.8	7.8	7.5	7.3	7.2	7.2	7.2	7.1	7.0	7.0	7.0
Commercial	5.8	6.1	6.7	6.7	6.5	6.3	6.2	6.3	6.3	6.2	6.1	6.1	6.2
Industrial	4.2	4.5	4.9	4.8	4.7	4.6	4.5	4.6	4.6	4.5	4.4	4.4	4.5
Transportation	5.4	5.5	5.9	5.8	5.6	5.4	5.4	5.5	5.5	5.4	5.3	5.4	5.4
All Sectors Average	5.8	6.1	6.6	6.6	6.4	6.2	6.1	6.2	6.2	6.0	5.9	6.0	6.1
Prices by Service Category (2003 cents per kilowatthour)													
Generation	3.3	3.7	4.2	4.2	4.1	3.9	3.8	3.9	3.9	3.8	3.8	3.8	3.9

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Distribution	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.53	1.49	1.52	1.59	1.65	1.69	1.70	1.66	1.66	1.66	1.66	1.66	1.66
Natural Gas	0.42	0.45	0.23	0.25	0.25	0.25	0.28	0.32	0.36	0.39	0.42	0.46	0.49
Oil	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	1.95	1.95	1.77	1.86	1.91	1.95	1.99	1.99	2.03	2.07	2.10	2.13	2.17
Fuel Prices (dollars per million Btu)													
Coal	1.11	1.06	1.08	1.09	1.11	1.10	1.10	1.13	1.14	1.14	1.13	1.15	1.15
Natural Gas	3.46	5.53	5.81	5.61	4.85	4.35	3.99	3.97	3.89	3.95	4.07	4.21	4.39
Distillate Fuel	5.64	6.46	7.12	6.84	6.10	5.68	5.53	5.32	5.18	5.14	5.18	5.22	5.28
Residual Fuel	4.00	4.16	5.52	5.63	4.93	4.53	4.32	4.12	3.77	3.81	3.63	3.83	3.83
Biomass	0.69	0.69	0.91	1.09	0.99	1.30	1.00	1.03	1.04	1.04	1.03	1.14	1.34
Emissions 10/													
Total Carbon (million tons)	48.64	47.12	48.41	50.73	52.19	53.39	54.11	53.60	54.39	54.93	55.52	56.05	56.65
Carbon Dioxide (million tons)	178.34	172.78	177.49	186.02	191.37	195.78	198.40	196.55	199.43	201.41	203.59	205.52	207.72
Sulfur Dioxide (million tons)	0.39	0.40	0.40	0.41	0.42	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41
Nitrogen Oxide (million tons)	0.31	0.29	0.26	0.27	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Mercury (tons)	4.13	4.10	4.19	4.39	4.52	4.62	4.65	4.63	4.64	4.66	4.66	4.65	4.65

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	21.11	21.64	21.64	22.18	22.51	23.00	23.00	23.06	23.97	25.04	25.70	0.8%
Other Fossil Steam 2/	8.08	8.08	8.08	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	-2.1%
Combined Cycle	11.62	11.94	12.77	12.77	12.77	12.98	12.98	12.98	12.98	13.23	13.23	1.0%
Combustion Turbine/Diesel	7.31	7.31	7.28	9.19	9.53	10.13	9.61	10.13	10.13	11.71	12.03	2.6%
Nuclear Power	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	0.1%
Pumped Storage/Other 3/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	3.18	3.18	3.18	3.18	3.19	3.23	3.24	3.24	3.24	3.31	3.31	0.6%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Capacity	52.97	53.84	54.64	57.03	57.71	59.04	58.53	59.12	60.03	62.99	63.97	0.6%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	N/A
Combustion Turbine/Diesel	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	1.55	1.55	1.55	1.55	1.56	1.56	1.56	1.56	1.57	1.57	1.57	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.00	0.54	0.54	1.07	1.41	1.89	1.89	1.95	2.86	3.93	4.60	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.50	0.83	1.65	1.65	1.65	1.86	1.86	1.86	1.86	2.11	2.11	N/A
Combustion Turbine/Diesel	0.06	0.06	0.17	2.18	2.86	3.45	3.45	3.97	3.97	5.55	5.87	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.11	0.11	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Unplanned Additions	0.57	1.43	2.36	4.91	5.92	7.25	7.25	7.83	8.74	11.70	12.68	N/A
Cumulative Total Additions	2.11	2.98	3.91	6.47	7.48	8.81	8.81	9.40	10.31	13.27	14.25	N/A
Cumulative Retirements 7/												
Coal Steam	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	N/A
Other Fossil Steam 3/	4.66	4.66	4.66	4.71	4.71	4.71	4.71	4.71	4.71	4.71	4.71	N/A
Combined Cycle	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	N/A
Combustion Turbine/Diesel	0.26	0.26	0.39	0.50	0.83	0.83	1.34	1.34	1.34	1.34	1.34	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	5.49	5.49	5.63	5.79	6.12	6.12	6.63	6.63	6.63	6.63	6.63	N/A
End Use Sector 8/												
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.2%
Natural Gas	0.49	0.51	0.52	0.54	0.55	0.57	0.59	0.61	0.63	0.65	0.67	2.9%
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.3%
Renewable Sources 4/	0.47	0.48	0.49	0.50	0.52	0.54	0.55	0.57	0.59	0.61	0.64	2.7%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	1.05	1.06	1.09	1.12	1.16	1.19	1.22	1.26	1.30	1.34	1.39	2.6%
Electricity Demand (billion kilowatthours)												
Residential	80.94	82.31	83.33	84.50	85.64	87.03	88.04	89.37	90.77	92.42	93.59	1.7%
Commercial/Other	87.29	89.39	91.54	93.71	95.74	97.82	99.99	102.29	104.69	107.25	109.81	2.5%
Industrial	58.84	59.14	59.91	60.75	61.28	61.74	62.04	62.31	62.61	63.16	63.64	1.3%
Transportation	1.24	1.26	1.29	1.32	1.34	1.37	1.40	1.43	1.46	1.49	1.52	2.1%
Total Sales	228.31	232.11	236.07	240.28	244.00	247.96	251.47	255.39	259.53	264.31	268.56	1.9%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Electricity Imports	18.11	16.72	15.17	11.77	10.61	8.85	8.27	8.10	6.80	4.72	4.92	-7.6%
Gross Interregional Electricity Exports	10.99	10.01	8.19	7.26	6.97	6.65	4.98	3.96	3.47	7.75	7.91	-3.4%
Purchases from Combined Heat and Power 8/	1.72	1.78	1.85	1.94	2.03	2.13	2.23	2.31	2.39	2.47	2.54	5.1%
Electric Power Sector Generation for Customers	234.68	239.05	242.93	249.81	254.58	260.11	262.69	265.54	270.90	282.44	286.84	1.4%
Total Net Energy for Load	243.52	247.55	251.77	256.25	260.25	264.44	268.21	271.97	276.62	281.87	286.40	1.2%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	154.98	158.93	159.30	163.33	165.81	169.51	169.75	169.59	176.34	184.35	189.55	1.2%
Petroleum	1.61	1.62	1.62	1.66	1.92	1.92	1.97	2.00	1.76	1.84	2.11	2.4%
Natural Gas	64.22	64.70	68.46	71.34	73.39	75.15	77.61	80.32	78.99	82.10	81.37	2.4%
Nuclear	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	0.2%
Pumped Storage/Other 3/	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	N/A
Renewable Sources 4/	7.92	7.86	7.60	7.53	7.52	7.59	7.42	7.68	7.87	8.21	7.87	1.7%
Total Generation	237.92	242.30	246.17	253.05	257.82	263.35	265.94	268.78	274.15	285.68	290.08	1.5%
Sales to Customers	234.68	239.05	242.93	249.81	254.58	260.11	262.69	265.54	270.90	282.44	286.84	1.4%
Generation for Own Use	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	5.2%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
End Use Sector 8/												
Coal	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.0%
Petroleum	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.29	0.29	0.29	0.29	3.8%
Natural Gas	2.27	2.34	2.43	2.52	2.61	2.72	2.82	2.92	3.03	3.15	3.26	3.7%
Other Gaseous Fuels	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.4%
Renewable Sources 4/	3.01	3.03	3.09	3.16	3.23	3.30	3.37	3.44	3.52	3.59	3.66	2.0%
Other	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.0%
Total	6.70	6.81	6.96	7.13	7.31	7.50	7.69	7.87	8.06	8.24	8.43	2.2%
Sales to Utilities	1.72	1.78	1.85	1.94	2.03	2.13	2.23	2.31	2.39	2.47	2.54	5.1%
Generation for Own Use	4.97	5.03	5.10	5.19	5.28	5.37	5.47	5.56	5.67	5.77	5.89	1.4%
Total Electricity Generation	244.62	249.10	253.13	260.18	265.13	270.85	273.63	276.65	282.20	293.92	298.51	1.5%
End-Use Prices (2003 cents per kilowatthour)												
Residential	7.0	7.0	7.1	7.0	7.1	7.1	7.2	7.1	7.1	7.0	7.0	-0.2%
Commercial	6.3	6.4	6.4	6.4	6.5	6.5	6.6	6.6	6.6	6.5	6.5	0.3%
Industrial	4.5	4.6	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.7	4.8	0.3%
Transportation	5.5	5.5	5.5	5.5	5.6	5.6	5.7	5.6	5.6	5.5	5.6	0.1%
All Sectors Average	6.1	6.1	6.2	6.2	6.2	6.2	6.3	6.3	6.3	6.2	6.3	0.1%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.0	4.1	4.1	4.1	4.2	4.2	4.3	4.4	4.4	4.3	4.3	0.8%

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0%
Distribution	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.3	-1.6%
Fuel Consumption (quadrillion Btu) 9/												
Coal	1.66	1.70	1.70	1.74	1.76	1.79	1.79	1.79	1.85	1.92	1.96	1.3%
Natural Gas	0.52	0.51	0.54	0.56	0.57	0.59	0.61	0.63	0.62	0.64	0.64	1.6%
Oil	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.9%
Total	2.20	2.23	2.25	2.31	2.35	2.39	2.42	2.44	2.48	2.58	2.62	1.4%
Fuel Prices (dollars per million Btu)												
Coal	1.15	1.15	1.13	1.13	1.13	1.11	1.11	1.12	1.12	1.12	1.12	0.3%
Natural Gas	4.53	4.52	4.61	4.78	4.94	5.05	5.12	5.13	5.11	5.16	5.21	-0.3%
Distillate Fuel	5.33	5.39	5.44	5.61	5.75	5.83	5.98	6.10	6.17	6.18	6.16	-0.2%
Residual Fuel	3.88	3.98	3.92	4.02	4.54	4.62	4.63	4.75	4.34	4.39	4.88	0.7%
Biomass	1.32	1.25	1.18	1.16	1.14	1.34	1.67	1.51	1.53	1.55	1.59	3.9%
Emissions 10/												
Total Carbon (million tons)	57.05	58.01	58.48	59.87	60.77	61.88	62.31	62.60	64.07	66.47	67.74	1.7%
Carbon Dioxide (million tons)	209.18	212.71	214.43	219.54	222.83	226.89	228.46	229.52	234.93	243.71	248.39	1.7%
Sulfur Dioxide (million tons)	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.2%
Nitrogen Oxide (million tons)	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.3%
Mercury (tons)	4.66	4.67	4.68	4.69	4.70	4.72	4.72	4.67	4.64	4.67	4.75	0.7%

Table 69. Electric Power Projections for Electricity Market Module Southwest Power Pool

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	11.49	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57
Other Fossil Steam 2/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.24	0.02	0.02
Combined Cycle	3.23	3.47	4.21	4.36	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96
Combustion Turbine/Diesel	2.44	2.44	2.49	2.63	2.63	2.63	2.63	2.63	2.63	2.63	1.72	1.72	1.72
Nuclear Power	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12	1.12
Pumped Storage/Other 3/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	36.09	36.16	36.17	36.26	36.28	36.28	36.29	36.29	36.26	36.27	36.27	36.28	36.41
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	55.40	55.79	56.59	56.97	57.59	57.59	57.60	57.61	57.58	57.59	56.21	55.99	56.12
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.74	0.89	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
Combustion Turbine/Diesel	0.00	0.00	0.05	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.09	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.79	1.18	1.80	1.80	1.80	1.81	1.81	1.82	1.83	1.83	1.84
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Cumulative Total Additions	0.00	0.00	0.79	1.18	1.80	1.80	1.80	1.81	1.81	1.82	1.83	1.83	1.96
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.71	0.71
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	1.42	1.65	1.65
End Use Sector 8/													
Coal	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Petroleum	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Sources 4/	0.38	0.38	0.41	0.43	0.44	0.44	0.46	0.47	0.48	0.49	0.50	0.50	0.51
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.68	0.68	0.72	0.74	0.75	0.77	0.79	0.80	0.82	0.83	0.84	0.85	0.87
Electricity Demand (billion kilowatthours)													
Residential	69.42	71.16	73.54	75.76	77.04	78.75	80.92	82.60	84.39	86.16	88.07	89.42	90.98
Commercial/Other	64.24	66.00	68.89	70.15	72.37	74.90	77.59	80.24	82.86	85.54	88.19	90.82	93.44
Industrial	61.40	60.46	64.01	65.23	68.15	69.23	70.64	71.78	72.44	73.38	74.25	75.00	76.13
Transportation	1.63	1.67	1.76	1.80	1.85	1.90	1.94	1.99	2.04	2.09	2.14	2.19	2.24
Total Sales	196.69	199.29	208.20	212.94	219.41	224.77	231.09	236.61	241.73	247.17	252.65	257.43	262.78
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	8.04	7.24	3.69	3.71	2.60	2.42	1.16	1.16	1.16	3.13	3.69	3.24	2.92
Gross International Exports	5.58	5.41	6.68	7.14	7.07	7.00	6.93	6.86	6.79	6.72	6.66	6.59	6.52
Gross Interregional Electricity Imports	25.56	24.45	17.46	17.20	16.48	16.48	16.29	16.07	15.81	15.61	15.59	15.32	14.79
Gross Interregional Electricity Exports	49.49	50.07	33.29	45.63	46.29	45.11	39.81	37.59	35.74	30.86	28.05	23.55	18.40
Purchases from Combined Heat and Power 8/	0.52	0.57	0.66	0.72	0.79	0.83	0.88	0.94	0.98	1.01	1.05	1.08	1.13
Electric Power Sector Generation for Customers	233.10	230.73	244.06	262.00	271.17	275.69	278.37	281.96	285.62	284.52	286.73	287.79	288.91
Total Net Energy for Load	212.14	207.50	225.90	230.85	237.68	243.31	249.97	255.68	261.03	266.68	272.35	277.30	282.82
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	76.90	81.81	81.29	83.11	84.79	86.62	87.78	87.78	87.78	87.66	87.60	87.65	87.65
Petroleum	0.58	0.61	0.60	0.61	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Natural Gas	14.71	19.09	22.95	22.18	23.35	26.04	27.75	31.17	34.92	33.86	36.02	36.95	36.96
Nuclear	9.05	7.61	8.16	8.24	8.31	8.38	8.45	8.61	8.68	8.74	8.81	8.88	8.94
Pumped Storage/Other 3/	0.32	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	133.28	123.13	132.80	149.59	155.83	155.76	155.50	155.51	155.36	155.36	155.40	155.41	156.46
Total Generation	234.83	232.61	245.79	263.73	272.91	277.43	280.12	283.70	287.37	286.26	288.47	289.54	290.65
Sales to Customers	233.10	230.73	244.06	262.00	271.17	275.69	278.37	281.96	285.62	284.52	286.73	287.79	288.91
Generation for Own Use	1.73	1.88	1.73	1.73	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Petroleum	0.07	0.07	0.08	0.08	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.12
Natural Gas	1.07	0.97	1.02	1.04	1.12	1.15	1.19	1.24	1.28	1.32	1.37	1.41	1.46
Other Gaseous Fuels	0.08	0.08	0.08	0.08	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	1.67	1.72	1.82	1.90	1.92	1.96	2.00	2.04	2.07	2.10	2.12	2.14	2.17
Other	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Total	3.48	3.43	3.60	3.70	3.79	3.85	3.95	4.04	4.12	4.19	4.26	4.32	4.40
Sales to Utilities	0.52	0.57	0.66	0.72	0.79	0.83	0.88	0.94	0.98	1.01	1.05	1.08	1.13
Generation for Own Use	2.96	2.86	2.94	2.98	3.00	3.02	3.06	3.11	3.14	3.18	3.21	3.24	3.28
Total Electricity Generation	238.32	236.04	249.39	267.43	276.70	281.28	284.06	287.75	291.49	290.45	292.73	293.86	295.05
End-Use Prices (2003 cents per kilowatthour)													
Residential	6.9	6.7	6.4	6.3	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.1	6.2
Commercial	6.4	6.2	5.8	5.6	5.4	5.2	5.3	5.3	5.3	5.2	5.2	5.3	5.5
Industrial	4.6	4.4	4.5	4.4	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.3
Transportation	5.2	5.0	5.4	5.3	5.1	4.9	5.0	5.0	5.0	4.9	4.9	5.0	5.1
All Sectors Average	6.0	5.9	5.6	5.5	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.3	5.4
Prices by Service Category (2003 cents per kilowatthour)													
Generation	3.4	3.2	3.0	2.9	2.7	2.6	2.6	2.6	2.7	2.6	2.7	2.8	2.9

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Distribution	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.89	0.88	0.87	0.89	0.91	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Natural Gas	0.13	0.16	0.19	0.19	0.20	0.22	0.23	0.26	0.29	0.28	0.30	0.30	0.30
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.03	1.05	1.07	1.08	1.11	1.15	1.18	1.21	1.23	1.22	1.24	1.25	1.25
Fuel Prices (dollars per million Btu)													
Coal	1.01	0.92	0.89	0.91	0.91	0.90	0.90	0.90	0.90	0.95	0.94	0.94	0.93
Natural Gas	3.51	4.36	5.72	5.96	5.56	5.21	4.88	4.62	4.42	4.41	4.38	4.52	4.68
Distillate Fuel	6.17	7.04	7.76	7.46	7.08	6.67	6.31	6.16	6.01	6.04	6.03	6.07	6.08
Residual Fuel	4.69	5.62	6.35	6.21	5.86	5.45	5.26	5.13	5.09	5.14	5.19	5.25	5.30
Biomass	0.69	0.69	0.71	0.77	0.83	0.81	0.70	0.70	1.47	1.44	1.43	1.43	1.54
Emissions 10/													
Total Carbon (million tons)	28.00	28.51	28.33	28.82	29.51	30.41	30.96	31.35	31.81	31.62	31.86	32.01	32.01
Carbon Dioxide (million tons)	102.68	104.55	103.88	105.69	108.22	111.51	113.52	114.94	116.63	115.93	116.81	117.35	117.37
Sulfur Dioxide (million tons)	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Nitrogen Oxide (million tons)	0.12	0.11	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Mercury (tons)	1.72	1.76	1.74	1.77	1.81	1.84	1.85	1.81	1.79	1.79	1.78	1.77	1.77

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.61	12.76	12.76	13.81	0.8%
Other Fossil Steam 2/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-16.1%
Combined Cycle	5.17	6.52	7.86	9.32	10.41	10.58	10.58	10.72	10.72	10.72	10.72	5.3%
Combustion Turbine/Diesel	1.72	1.72	1.72	1.72	1.91	3.13	4.30	5.33	5.52	6.93	7.10	5.0%
Nuclear Power	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	0.0%
Pumped Storage/Other 3/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	36.56	36.70	36.87	37.06	37.36	37.58	37.88	38.18	38.26	38.31	38.55	0.3%
Distributed Generation 5/	0.00	0.02	0.04	0.07	0.12	0.18	0.23	0.42	0.62	0.84	1.04	N/A
Total Capacity	56.50	58.00	59.54	61.21	62.84	64.50	66.03	67.70	69.32	71.00	72.68	1.2%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	N/A
Combustion Turbine/Diesel	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	1.84	1.85	1.86	1.86	1.87	1.87	1.88	1.89	1.89	1.90	1.91	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	1.18	1.18	2.24	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.21	1.56	2.90	4.35	5.45	5.61	5.61	5.75	5.75	5.75	5.75	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.19	1.40	2.58	3.60	3.80	5.21	5.38	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.27	0.40	0.57	0.75	1.04	1.26	1.55	1.85	1.92	1.97	2.20	N/A
Distributed Generation 5/	0.00	0.02	0.04	0.07	0.12	0.18	0.23	0.42	0.62	0.84	1.04	N/A
Total Unplanned Additions	0.50	1.99	3.53	5.19	6.82	8.47	9.99	11.65	13.27	14.95	16.62	N/A
Cumulative Total Additions	2.34	3.84	5.38	7.05	8.69	10.35	11.87	13.54	15.16	16.85	18.52	N/A
Cumulative Retirements 7/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Total	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	N/A
End Use Sector 8/												
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.0%
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.2%
Natural Gas	0.23	0.24	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.31	2.9%
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.3%
Renewable Sources 4/	0.52	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.65	0.67	0.70	2.7%
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	0.88	0.89	0.91	0.94	0.96	0.99	1.02	1.04	1.08	1.11	1.15	2.4%
Electricity Demand (billion kilowatthours)												
Residential	92.57	94.40	95.84	97.51	99.11	100.94	102.17	103.74	105.51	107.52	109.02	2.0%
Commercial/Other	96.20	99.14	102.20	105.29	108.30	111.24	114.23	117.38	120.80	124.35	128.08	3.1%
Industrial	76.88	77.76	79.20	80.58	81.95	83.26	84.54	85.89	87.43	89.14	90.80	1.9%
Transportation	2.29	2.35	2.40	2.46	2.52	2.58	2.64	2.70	2.77	2.83	2.90	2.5%
Total Sales	267.95	273.64	279.64	285.83	291.88	298.03	303.57	309.71	316.50	323.84	330.81	2.3%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	5.43	4.65	1.64	0.48	0.35	0.23	0.12	0.00	0.00	0.00	0.00	N/A
Gross International Exports	6.46	6.40	6.33	6.27	6.21	6.14	6.08	6.02	5.96	5.90	5.84	0.4%
Gross Interregional Electricity Imports	13.83	12.70	10.17	8.29	6.97	6.33	7.06	8.40	8.30	13.58	14.77	-2.3%
Gross Interregional Electricity Exports	17.77	17.14	14.26	13.32	13.86	11.67	9.83	8.84	8.68	7.59	8.17	-7.9%
Purchases from Combined Heat and Power 8/	1.17	1.20	1.26	1.32	1.38	1.45	1.51	1.56	1.62	1.67	1.73	5.1%
Electric Power Sector Generation for Customers	291.96	299.30	308.22	316.90	325.26	330.28	333.64	337.84	344.87	346.20	352.88	2.0%
Total Net Energy for Load	288.16	294.31	300.71	307.40	313.89	320.48	326.42	332.94	340.15	347.96	355.36	2.5%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	87.76	87.84	87.77	87.90	87.92	87.92	87.92	88.04	96.51	96.51	104.28	1.1%
Petroleum	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.72	0.72	0.80	1.3%
Natural Gas	38.66	44.86	52.58	60.01	66.45	69.92	71.37	73.62	71.34	72.11	69.59	6.1%
Nuclear	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	0.7%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	157.71	158.77	160.04	161.16	163.06	164.61	166.52	168.34	169.11	169.66	171.02	1.5%
Total Generation	293.71	301.04	309.97	318.65	327.00	332.03	335.38	339.58	346.62	347.94	354.62	1.9%
Sales to Customers	291.96	299.30	308.22	316.90	325.26	330.28	333.64	337.84	344.87	346.20	352.88	2.0%
Generation for Own Use	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	-0.3%
Distributed Generation 5/	0.00	0.01	0.02	0.03	0.05	0.08	0.10	0.18	0.27	0.37	0.46	N/A
End Use Sector 8/												
Coal	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.0%
Petroleum	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.17	0.17	0.17	0.17	3.8%
Natural Gas	1.50	1.55	1.61	1.67	1.73	1.80	1.87	1.94	2.01	2.09	2.16	3.7%
Other Gaseous Fuels	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-0.4%
Renewable Sources 4/	2.20	2.21	2.26	2.31	2.36	2.41	2.46	2.51	2.57	2.62	2.67	2.0%
Other	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Total	4.48	4.56	4.66	4.78	4.90	5.03	5.16	5.28	5.41	5.54	5.67	2.3%
Sales to Utilities	1.17	1.20	1.26	1.32	1.38	1.45	1.51	1.56	1.62	1.67	1.73	5.1%
Generation for Own Use	3.32	3.35	3.40	3.46	3.52	3.59	3.65	3.72	3.79	3.87	3.94	1.5%
Total Electricity Generation	298.19	305.61	314.65	323.45	331.96	337.14	340.65	345.05	352.30	353.85	360.75	1.9%
End-Use Prices (2003 cents per kilowatthour)												
Residential	6.3	6.3	6.3	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.0	0.2%
Commercial	5.5	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.3	6.4	0.1%
Industrial	4.4	4.4	4.4	4.5	4.6	4.7	4.8	4.8	4.9	4.9	5.0	0.5%
Transportation	5.2	5.2	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.8	5.8	0.6%
All Sectors Average	5.5	5.5	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.2	0.2%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	3.0	3.0	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	0.6%

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7%
Distribution	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.8%
Fuel Consumption (quadrillion Btu) 9/												
Coal	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	1.02	1.02	1.08	1.0%
Natural Gas	0.31	0.35	0.39	0.44	0.48	0.50	0.51	0.53	0.51	0.52	0.50	5.2%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.4%
Total	1.26	1.30	1.34	1.39	1.43	1.45	1.46	1.48	1.53	1.54	1.59	1.9%
Fuel Prices (dollars per million Btu)												
Coal	0.94	0.94	0.96	0.96	0.96	0.96	0.96	0.96	1.03	1.02	1.05	0.6%
Natural Gas	4.76	4.83	4.80	5.02	5.16	5.22	5.37	5.47	5.49	5.60	5.63	1.2%
Distillate Fuel	6.15	6.22	6.27	6.41	6.52	6.73	6.92	7.07	7.16	7.12	7.08	0.0%
Residual Fuel	5.35	5.40	5.45	5.50	5.56	5.61	5.67	5.72	5.78	5.84	5.89	0.2%
Biomass	1.51	1.67	1.67	1.72	1.70	1.70	1.73	1.74	1.76	1.79	1.87	4.7%
Emissions 10/												
Total Carbon (million tons)	32.20	32.78	33.49	34.25	34.88	35.26	35.44	35.73	37.61	37.72	39.40	1.5%
Carbon Dioxide (million tons)	118.08	120.21	122.80	125.59	127.90	129.29	129.94	131.01	137.90	138.32	144.48	1.5%
Sulfur Dioxide (million tons)	0.13	0.13	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.2%
Nitrogen Oxide (million tons)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	2.4%
Mercury (tons)	1.77	1.78	1.77	1.78	1.78	1.78	1.75	1.75	1.74	1.74	1.77	0.0%

Table 70. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Northwest Power Pool Area

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	15.76	15.67	15.67	15.67	16.07	16.07	16.07	16.07	16.07	16.07	16.07	16.07	17.00
Other Fossil Steam 2/	2.78	2.67	2.67	2.67	2.63	2.63	2.63	2.63	2.63	2.63	2.13	2.13	2.13
Combined Cycle	7.00	12.96	14.84	15.60	15.88	15.88	16.41	16.41	16.41	16.41	16.41	16.41	16.41
Combustion Turbine/Diesel	5.53	6.10	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
Nuclear Power	2.78	2.78	2.78	2.73	2.73	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Pumped Storage/Other 3/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	6.14	6.66	6.68	6.88	6.91	6.91	6.91	6.92	6.92	6.93	6.93	6.94	6.94
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	40.77	47.61	49.57	50.50	51.16	51.18	51.71	51.72	51.72	51.73	51.23	51.24	52.17
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.87	2.64	2.92	2.92	3.44	3.44	3.44	3.44	3.44	3.44	3.44
Combustion Turbine/Diesel	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.02	0.23	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	1.96	2.94	3.63	3.64	4.17	4.17	4.18	4.19	4.19	4.19	4.20
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
Cumulative Total Additions	0.00	0.00	1.96	2.94	3.63	3.64	4.17	4.17	4.18	4.19	4.19	4.19	5.13
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.54	0.54	0.54
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.00	0.00	0.00	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.55	0.55	0.55
End Use Sector 8/													
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Petroleum	0.03	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Natural Gas	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.16
Other Gaseous Fuels	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.28	0.27	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.33
Electricity Demand (billion kilowatthours)													
Residential	58.67	60.59	60.96	62.75	64.08	65.89	67.95	69.63	71.44	73.16	74.90	76.19	77.73
Commercial/Other	59.83	60.94	61.76	63.20	65.24	67.70	70.26	72.80	75.32	77.87	80.34	82.77	85.22
Industrial	35.34	35.05	36.08	36.77	37.59	38.18	39.05	39.79	40.26	40.86	41.42	41.89	42.63
Transportation	1.00	1.03	1.06	1.09	1.12	1.15	1.18	1.21	1.24	1.27	1.31	1.34	1.37
Total Sales	154.83	157.61	159.85	163.81	168.03	172.92	178.44	183.43	188.27	193.17	197.97	202.19	206.95
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	18.67	17.86	14.66	15.98	14.36	14.46	14.93	14.21	14.02	13.67	13.94	13.81	12.94
Gross Interregional Electricity Exports	45.28	43.15	53.55	47.82	47.44	47.55	51.62	54.44	57.41	58.97	58.89	56.74	55.62
Purchases from Combined Heat and Power 8/	0.18	0.17	0.18	0.19	0.22	0.23	0.24	0.26	0.27	0.28	0.30	0.31	0.32
Electric Power Sector Generation for Customers	189.47	188.96	212.16	209.25	214.90	220.05	229.48	238.20	246.44	253.46	258.11	260.47	265.13
Total Net Energy for Load	163.04	163.84	173.45	177.60	182.04	187.19	193.03	198.24	203.32	208.44	213.46	217.84	222.78
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	111.85	114.03	111.22	113.75	116.72	120.74	121.68	121.66	121.63	121.66	121.71	121.71	128.58
Petroleum	0.12	0.14	1.75	1.79	2.11	2.84	1.85	2.09	2.97	2.92	3.28	3.48	3.81
Natural Gas	39.19	38.95	61.70	53.99	55.48	55.51	64.83	73.25	80.54	87.53	91.76	93.85	91.24
Nuclear	22.40	20.74	21.43	21.24	21.30	21.55	21.60	21.66	21.72	21.77	21.83	21.89	21.94
Pumped Storage/Other 3/	-0.05	0.10	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
Renewable Sources 4/	16.62	15.68	18.68	21.14	21.95	22.07	22.17	22.20	22.24	22.23	22.19	22.20	22.21
Total Generation	190.14	189.64	214.55	211.66	217.32	222.47	231.90	240.62	248.86	255.88	260.53	262.88	267.55
Sales to Customers	189.47	188.96	212.16	209.25	214.90	220.05	229.48	238.20	246.44	253.46	258.11	260.47	265.13
Generation for Own Use	0.66	0.67	2.39	2.41	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
Natural Gas	0.60	0.55	0.57	0.59	0.63	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.82
Other Gaseous Fuels	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.00	0.94	0.97	0.98	1.03	1.04	1.07	1.10	1.12	1.15	1.17	1.20	1.22
Sales to Utilities	0.18	0.17	0.18	0.19	0.22	0.23	0.24	0.26	0.27	0.28	0.30	0.31	0.32
Generation for Own Use	0.83	0.78	0.79	0.80	0.81	0.81	0.83	0.84	0.85	0.86	0.87	0.89	0.90
Total Electricity Generation	191.14	190.58	215.52	212.65	218.34	223.51	232.96	241.72	249.98	257.02	261.70	264.08	268.78
End-Use Prices (2003 cents per kilowatthour)													
Residential	8.5	8.5	9.0	9.3	9.1	8.7	8.5	8.4	8.3	8.3	8.4	8.6	8.6
Commercial	7.2	7.3	8.0	8.2	8.0	7.7	7.5	7.3	7.1	7.0	7.2	7.4	7.5
Industrial	5.5	5.7	6.4	6.6	6.5	6.2	6.0	5.8	5.6	5.5	5.7	5.8	5.8
Transportation	6.7	7.0	7.6	7.9	7.7	7.4	7.3	7.1	7.1	7.1	7.2	7.4	7.4
All Sectors Average	7.3	7.4	8.0	8.2	8.1	7.8	7.5	7.4	7.3	7.2	7.3	7.5	7.6
Prices by Service Category (2003 cents per kilowatthour)													
Generation	4.7	4.8	5.5	5.7	5.5	5.2	5.0	4.8	4.7	4.7	4.8	5.0	5.1

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Distribution	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.21	1.18	1.16	1.19	1.22	1.26	1.27	1.27	1.27	1.27	1.27	1.27	1.33
Natural Gas	0.35	0.34	0.49	0.43	0.44	0.44	0.51	0.58	0.64	0.69	0.72	0.74	0.72
Oil	0.00	0.00	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.04
Total	1.57	1.52	1.67	1.64	1.69	1.73	1.81	1.87	1.93	1.99	2.03	2.05	2.09
Fuel Prices (dollars per million Btu)													
Coal	1.18	1.16	1.10	1.16	1.15	1.13	1.13	1.13	1.12	1.11	1.09	1.09	1.09
Natural Gas	3.10	4.79	5.92	6.21	5.91	5.56	5.19	4.92	4.74	4.70	4.84	4.99	5.10
Distillate Fuel	6.49	7.41	8.16	7.85	7.93	7.14	6.79	6.48	6.24	6.21	6.15	6.16	6.16
Residual Fuel	4.57	5.49	6.35	6.21	5.86	5.45	5.26	5.13	4.50	4.53	4.57	4.63	4.68
Biomass	0.69	0.69	0.93	1.06	1.07	1.13	0.88	0.89	0.90	0.96	1.03	1.04	1.05
Emissions 10/													
Total Carbon (million tons)	40.58	40.12	41.57	41.40	42.50	43.76	45.00	46.07	47.13	47.94	48.59	48.93	50.35
Carbon Dioxide (million tons)	148.78	147.12	152.41	151.79	155.84	160.45	165.00	168.94	172.82	175.80	178.15	179.42	184.61
Sulfur Dioxide (million tons)	0.14	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13
Nitrogen Oxide (million tons)	0.28	0.26	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24
Mercury (tons)	1.81	1.74	1.73	1.74	1.80	1.84	1.85	1.84	1.65	1.76	1.77	1.76	1.77

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	18.01	19.13	20.29	21.53	22.69	23.80	24.82	25.96	27.23	28.53	29.53	2.9%
Other Fossil Steam 2/	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	-1.0%
Combined Cycle	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	1.1%
Combustion Turbine/Diesel	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.54	0.3%
Nuclear Power	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.0%
Pumped Storage/Other 3/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	6.94	6.95	6.95	6.96	6.96	6.96	6.97	6.97	6.97	7.10	7.17	0.3%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.16	0.23	0.29	0.36	N/A
Total Capacity	53.18	54.31	55.47	56.71	57.87	59.05	60.12	61.32	62.65	64.15	65.67	1.5%
Cumulative Planned Additions 6/												
Coal Steam	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	N/A
Combustion Turbine/Diesel	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	4.20	4.20	4.21	4.21	4.21	4.22	4.22	4.22	4.23	4.23	4.24	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	1.94	3.06	4.22	5.46	6.62	7.73	8.74	9.89	11.16	12.46	13.46	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.19	0.19	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.16	0.23	0.29	0.36	N/A
Total Unplanned Additions	1.94	3.06	4.22	5.46	6.62	7.78	8.85	10.05	11.38	12.88	14.39	N/A
Cumulative Total Additions	6.14	7.26	8.43	9.67	10.83	12.00	13.07	14.28	15.61	17.11	18.62	N/A
Cumulative Retirements 7/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Total	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	N/A
End Use Sector 8/												
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Petroleum	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	4.2%
Natural Gas	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	2.9%
Other Gaseous Fuels	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	-0.3%
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	0.33	0.34	0.34	0.35	0.36	0.37	0.37	0.38	0.39	0.39	0.40	1.9%
Electricity Demand (billion kilowatthours)												
Residential	79.35	81.22	82.81	84.54	86.13	87.86	89.08	90.65	92.32	94.19	95.67	2.1%
Commercial/Other	87.86	90.71	93.71	96.67	99.48	102.12	104.83	107.75	110.89	114.23	117.81	3.0%
Industrial	43.10	43.49	44.23	45.02	45.82	46.57	47.33	48.10	48.97	49.91	50.81	1.7%
Transportation	1.41	1.44	1.48	1.52	1.55	1.59	1.63	1.67	1.71	1.75	1.80	2.6%
Total Sales	211.72	216.87	222.22	227.74	232.98	238.14	242.87	248.17	253.89	260.08	266.08	2.4%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Electricity Imports	12.69	10.13	7.23	4.82	4.73	4.65	4.35	4.42	4.55	4.22	4.22	-6.4%
Gross Interregional Electricity Exports	53.37	50.80	50.24	47.35	44.18	43.10	42.94	41.80	41.52	41.62	41.66	-0.2%
Purchases from Combined Heat and Power 8/	0.34	0.35	0.37	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.53	5.4%
Electric Power Sector Generation for Customers	268.08	273.59	281.68	287.12	289.64	294.15	299.34	303.79	309.48	316.53	322.97	2.5%
Total Net Energy for Load	227.74	233.28	239.03	244.97	250.60	256.13	261.20	266.87	273.00	279.63	286.05	2.6%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	135.99	144.17	152.80	161.82	170.51	178.71	186.18	194.70	204.01	213.63	220.95	3.1%
Petroleum	3.88	3.53	2.31	2.40	2.49	2.57	2.64	2.73	2.82	2.92	2.99	15.1%
Natural Gas	86.64	84.20	84.93	81.19	75.07	71.29	68.92	64.82	61.11	57.71	56.19	1.7%
Nuclear	22.00	22.06	22.06	22.06	22.06	22.06	22.06	22.06	22.06	22.06	22.06	0.3%
Pumped Storage/Other 3/	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	N/A
Renewable Sources 4/	22.22	22.29	22.24	22.31	22.18	22.19	22.20	22.13	22.14	22.87	23.43	1.8%
Total Generation	270.49	276.01	284.10	289.54	292.06	296.57	301.76	306.21	311.90	318.95	325.39	2.5%
Sales to Customers	268.08	273.59	281.68	287.12	289.64	294.15	299.34	303.79	309.48	316.53	322.97	2.5%
Generation for Own Use	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	6.0%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.07	0.10	0.13	0.16	N/A
End Use Sector 8/												
Coal	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.0%
Petroleum	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.8%
Natural Gas	0.85	0.87	0.91	0.94	0.98	1.01	1.05	1.09	1.13	1.17	1.22	3.7%
Other Gaseous Fuels	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.4%
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	2.0%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	1.25	1.28	1.31	1.35	1.39	1.43	1.47	1.51	1.55	1.59	1.64	2.5%
Sales to Utilities	0.34	0.35	0.37	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.53	5.4%
Generation for Own Use	0.91	0.93	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.09	1.11	1.6%
Total Electricity Generation	271.75	277.29	285.41	290.89	293.45	298.02	303.28	307.79	313.55	320.67	327.18	2.5%
End-Use Prices (2003 cents per kilowatthour)												
Residential	8.6	8.5	8.4	8.4	8.5	8.6	8.7	8.7	8.7	8.8	8.8	0.2%
Commercial	7.5	7.4	7.3	7.3	7.4	7.5	7.6	7.7	7.7	7.8	7.8	0.3%
Industrial	5.9	5.7	5.6	5.6	5.7	5.8	5.9	5.9	5.9	6.0	6.0	0.2%
Transportation	7.4	7.3	7.1	7.1	7.2	7.3	7.4	7.4	7.4	7.5	7.5	0.3%
All Sectors Average	7.6	7.5	7.3	7.3	7.4	7.6	7.7	7.7	7.7	7.8	7.8	0.3%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	5.1	4.9	4.8	4.8	4.9	5.0	5.1	5.1	5.1	5.2	5.3	0.4%

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.4%
Distribution	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	-0.5%
Fuel Consumption (quadrillion Btu) 9/												
Coal	1.39	1.46	1.54	1.62	1.69	1.76	1.83	1.90	1.98	2.06	2.13	2.7%
Natural Gas	0.69	0.67	0.67	0.64	0.60	0.57	0.55	0.52	0.49	0.46	0.45	1.3%
Oil	0.04	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	14.5%
Total	2.12	2.16	2.24	2.28	2.31	2.35	2.40	2.45	2.50	2.56	2.61	2.5%
Fuel Prices (dollars per million Btu)												
Coal	1.10	1.11	1.15	1.17	1.19	1.22	1.25	1.27	1.40	1.44	1.42	0.9%
Natural Gas	5.20	5.00	4.75	4.75	4.92	5.15	5.30	5.35	5.41	5.53	5.63	0.7%
Distillate Fuel	6.23	6.36	6.54	6.72	6.88	7.04	7.26	7.38	7.53	7.41	7.33	-0.1%
Residual Fuel	4.74	4.79	4.84	4.89	4.95	5.02	5.07	5.14	5.20	5.24	5.30	-0.2%
Biomass	1.05	0.98	1.05	1.13	1.13	1.17	1.19	1.07	1.07	1.61	1.73	4.3%
Emissions 10/												
Total Carbon (million tons)	51.56	53.16	55.12	56.87	58.21	59.76	61.38	63.00	64.85	66.81	68.51	2.5%
Carbon Dioxide (million tons)	189.06	194.94	202.11	208.53	213.45	219.14	225.08	230.99	237.77	244.99	251.20	2.5%
Sulfur Dioxide (million tons)	0.13	0.13	0.14	0.14	0.14	0.15	0.13	0.13	0.13	0.13	0.12	-0.3%
Nitrogen Oxide (million tons)	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.2%
Mercury (tons)	1.72	1.77	1.77	1.78	1.79	1.77	1.75	1.74	1.73	1.71	1.74	0.0%

Table 71. Electric Power Projections for Electricity Market Module Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	5.31	6.60	7.53
Other Fossil Steam 2/	19.10	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.05	17.05	17.05
Combined Cycle	6.66	9.55	9.79	12.08	12.08	12.62	13.14	13.14	13.14	13.14	13.14	13.14	13.80
Combustion Turbine/Diesel	6.40	6.97	7.00	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98
Nuclear Power	5.37	5.37	5.37	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
Pumped Storage/Other 3/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	14.74	14.97	14.94	15.05	15.08	15.08	15.09	15.09	15.18	15.18	15.28	15.44	15.47
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	60.42	62.52	62.76	65.12	65.16	65.70	66.23	66.24	66.32	66.33	66.82	68.26	69.88
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.24	2.53	2.53	3.07	3.59	3.59	3.59	3.59	3.59	3.59	3.59
Combustion Turbine/Diesel	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.02	0.13	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.21
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.31	2.71	2.75	3.29	3.82	3.82	3.82	3.83	3.83	3.84	3.85
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	2.14	3.07
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.18	0.33	0.35
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	1.03	2.47	4.08
Cumulative Total Additions	0.00	0.00	0.31	2.71	2.75	3.29	3.82	3.82	3.90	3.91	4.87	6.31	7.93
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	0.00	0.00	0.07	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.56	0.56	0.56
End Use Sector 8/													
Coal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Petroleum	0.11	0.08	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.16	0.16	0.16
Natural Gas	2.02	2.05	2.17	2.20	2.24	2.28	2.34	2.41	2.47	2.54	2.60	2.67	2.74
Other Gaseous Fuels	0.20	0.19	0.19	0.19	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17
Renewable Sources 4/	0.20	0.20	0.21	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.26	0.26	0.27
Other	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	2.60	2.59	2.81	2.85	2.87	2.92	2.99	3.06	3.14	3.20	3.27	3.34	3.41
Electricity Demand (billion kilowatthours)													
Residential	75.80	76.14	78.87	81.29	82.50	84.11	86.28	87.90	89.61	91.35	93.31	94.66	96.17
Commercial/Other	106.54	108.24	113.38	115.16	118.74	122.66	126.90	131.06	135.15	139.37	143.59	147.82	152.00
Industrial	46.27	44.65	47.42	48.32	51.38	52.23	53.18	53.91	54.28	54.90	55.45	55.95	56.67
Transportation	2.19	2.19	2.32	2.37	2.43	2.49	2.55	2.62	2.68	2.74	2.80	2.86	2.93
Total Sales	230.80	231.21	241.97	247.14	255.05	261.49	268.91	275.49	281.72	288.36	295.15	301.29	307.76
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	0.16	0.16	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Gross International Exports	1.31	1.31	1.36	1.41	1.46	1.51	1.56	1.61	1.61	1.61	1.61	1.61	1.61
Gross Interregional Electricity Imports	73.28	70.68	70.24	73.81	74.02	73.00	71.64	72.66	74.41	71.51	68.59	63.26	58.32
Gross Interregional Electricity Exports	11.11	10.57	9.10	6.54	3.19	3.19	3.19	3.19	3.21	3.24	3.38	4.37	4.86
Purchases from Combined Heat and Power 8/	4.30	4.00	4.42	4.63	5.59	5.83	6.29	6.75	7.17	7.52	7.88	8.25	8.65
Electric Power Sector Generation for Customers	200.42	203.40	198.37	197.45	201.35	208.94	217.73	223.12	227.49	236.97	246.76	259.07	270.79
Total Net Energy for Load	265.75	266.35	262.58	267.96	276.32	283.08	290.92	297.73	304.26	311.16	318.25	324.62	331.31
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	33.50	33.71	32.06	32.75	33.35	33.97	34.37	34.37	34.36	34.36	40.67	50.16	57.00
Petroleum	1.80	1.92	1.61	1.63	1.62	1.63	1.62	1.62	1.62	1.58	1.65	1.74	1.80
Natural Gas	77.21	75.54	78.66	72.49	73.97	80.75	89.06	94.34	97.99	107.43	110.12	111.90	116.40
Nuclear	42.81	43.43	44.14	44.19	44.27	44.43	44.52	44.61	44.70	44.75	44.77	44.79	44.81
Pumped Storage/Other 3/	-0.24	-0.90	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88
Renewable Sources 4/	49.80	53.27	50.28	54.80	56.55	56.56	56.57	56.59	57.23	57.25	57.97	58.90	59.20
Total Generation	204.88	206.97	205.86	204.98	208.87	216.47	225.26	230.65	235.02	244.50	254.29	266.60	278.32
Sales to Customers	200.42	203.40	198.37	197.45	201.35	208.94	217.73	223.12	227.49	236.97	246.76	259.07	270.79
Generation for Own Use	4.46	3.57	7.49	7.52	7.52	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End Use Sector 8/													
Coal	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Petroleum	0.79	0.83	0.92	0.92	1.10	1.09	1.19	1.28	1.33	1.34	1.35	1.36	1.38
Natural Gas	16.20	14.71	15.49	15.82	16.99	17.42	18.06	18.73	19.41	20.05	20.70	21.38	22.10
Other Gaseous Fuels	0.88	0.88	0.88	0.88	0.61	0.61	0.63	0.64	0.66	0.67	0.68	0.70	0.71
Renewable Sources 4/	1.22	1.26	1.33	1.39	1.41	1.43	1.46	1.49	1.51	1.53	1.55	1.56	1.58
Other	1.09	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Total	20.70	19.37	20.32	20.71	21.80	22.25	23.03	23.84	24.61	25.28	25.98	26.70	27.47
Sales to Utilities	4.30	4.00	4.42	4.63	5.59	5.83	6.29	6.75	7.17	7.52	7.88	8.25	8.65
Generation for Own Use	16.40	15.38	15.90	16.08	16.21	16.42	16.75	17.09	17.44	17.76	18.09	18.44	18.82
Total Electricity Generation	225.58	226.34	226.18	225.69	230.68	238.72	248.30	254.49	259.63	269.78	280.26	293.30	305.79
End-Use Prices (2003 cents per kilowatthour)													
Residential	13.2	12.0	12.7	12.7	12.5	12.2	11.4	11.3	11.1	10.8	10.6	10.6	10.6
Commercial	13.5	11.9	11.7	11.5	11.2	10.9	10.4	10.2	10.1	9.8	9.7	9.7	9.6
Industrial	11.1	10.4	10.6	10.5	10.3	10.0	9.8	9.6	9.4	9.1	9.0	8.9	8.9
Transportation	11.6	10.5	11.0	10.9	10.7	10.3	10.1	9.9	9.7	9.4	9.2	9.2	9.1
All Sectors Average	12.8	11.7	11.8	11.7	11.4	11.1	10.6	10.4	10.3	10.0	9.8	9.8	9.8
Prices by Service Category (2003 cents per kilowatthour)													
Generation	8.6	7.5	7.7	7.6	7.4	7.1	6.9	6.7	6.6	6.4	6.2	6.2	6.2

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Distribution	3.5	3.5	3.5	3.5	3.4	3.4	3.1	3.0	3.0	3.0	2.9	2.9	2.9
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.34	0.33	0.33	0.33	0.34	0.35	0.35	0.35	0.35	0.35	0.40	0.49	0.54
Natural Gas	0.77	0.71	0.72	0.68	0.69	0.74	0.80	0.84	0.87	0.95	0.98	0.99	1.02
Oil	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	1.13	1.07	1.06	1.03	1.04	1.10	1.17	1.21	1.24	1.32	1.40	1.50	1.58
Fuel Prices (dollars per million Btu)													
Coal	1.19	1.16	1.10	1.18	1.17	1.15	1.15	1.14	1.13	1.11	1.08	1.07	1.08
Natural Gas	3.76	5.14	6.66	6.99	6.61	6.29	5.93	5.60	5.40	5.36	5.46	5.60	5.67
Distillate Fuel	6.18	7.06	7.65	7.36	6.81	6.45	6.18	6.06	5.91	5.96	5.99	6.05	6.08
Residual Fuel	4.69	5.62	6.35	6.21	5.86	5.45	5.26	5.13	5.09	5.14	5.19	5.25	5.30
Biomass	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	1.52	1.52	1.52	1.52	1.65
Emissions 10/													
Total Carbon (million tons)	19.62	20.12	21.19	20.68	21.04	22.04	23.16	23.82	24.33	25.57	27.51	30.04	32.14
Carbon Dioxide (million tons)	71.94	73.79	77.71	75.82	77.14	80.82	84.91	87.35	89.21	93.75	100.87	110.13	117.86
Sulfur Dioxide (million tons)	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Nitrogen Oxide (million tons)	0.01	0.01	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10
Mercury (tons)	0.35	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.28	0.32	0.33	0.33	0.34

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	7.98	8.48	10.28	10.28	12.08	13.91	15.68	17.55	19.46	21.25	23.07	7.8%
Other Fossil Steam 2/	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	-0.1%
Combined Cycle	14.93	16.21	16.21	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	3.0%
Combustion Turbine/Diesel	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	7.09	7.21	0.2%
Nuclear Power	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	0.0%
Pumped Storage/Other 3/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	15.50	15.51	15.52	15.53	15.60	15.71	15.76	15.77	15.98	16.33	16.66	0.5%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.16	0.25	0.36	0.46	N/A
Total Capacity	71.50	73.28	75.09	77.10	78.97	80.95	82.80	84.77	86.98	89.34	91.71	1.8%
Cumulative Planned Additions 6/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	N/A
Combustion Turbine/Diesel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.21	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.27	0.28	0.29	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	3.85	3.86	3.87	3.88	3.88	3.89	3.90	3.91	3.91	3.92	3.93	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	3.53	4.03	5.83	5.83	7.63	9.46	11.22	13.10	15.01	16.80	18.62	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	1.79	3.07	3.07	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.23	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.38	0.38	0.38	0.38	0.44	0.54	0.59	0.59	0.79	1.14	1.46	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.16	0.25	0.36	0.46	N/A
Total Unplanned Additions	5.69	7.47	9.27	11.27	13.13	15.10	16.95	18.91	21.12	23.47	25.82	N/A
Cumulative Total Additions	9.55	11.33	13.14	15.14	17.02	18.99	20.84	22.82	25.03	27.39	29.75	N/A
Cumulative Retirements 7/												
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 3/	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Total	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	N/A
End Use Sector 8/												
Coal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Petroleum	0.16	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.19	0.19	4.2%
Natural Gas	2.81	2.88	2.96	3.05	3.15	3.25	3.36	3.46	3.57	3.69	3.80	2.9%
Other Gaseous Fuels	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	-0.3%
Renewable Sources 4/	0.27	0.28	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	0.37	2.7%
Other	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	3.49	3.57	3.66	3.77	3.88	4.00	4.12	4.23	4.36	4.48	4.61	2.7%
Electricity Demand (billion kilowatthours)												
Residential	97.70	99.44	100.74	102.32	103.88	105.71	106.90	108.42	110.19	112.22	113.70	1.8%
Commercial/Other	156.33	160.88	165.59	170.39	175.17	179.98	184.82	189.87	195.36	200.99	206.80	3.0%
Industrial	57.17	57.92	59.06	60.05	61.02	61.95	62.81	63.77	64.86	66.13	67.37	1.9%
Transportation	2.99	3.06	3.13	3.21	3.28	3.36	3.44	3.51	3.60	3.68	3.76	2.5%
Total Sales	314.19	321.29	328.52	335.97	343.36	351.00	357.97	365.57	374.01	383.02	391.63	2.4%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-12.0%
Gross International Exports	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	0.9%
Gross Interregional Electricity Imports	56.42	56.05	53.59	51.44	49.33	47.09	45.84	45.03	44.52	44.00	44.00	-2.1%
Gross Interregional Electricity Exports	4.73	4.36	2.73	2.58	2.26	2.82	3.63	5.33	5.86	10.36	11.63	0.4%
Purchases from Combined Heat and Power 8/	9.05	9.49	9.94	10.45	11.02	11.64	12.25	12.78	13.33	13.87	14.43	6.0%
Electric Power Sector Generation for Customers	278.83	286.04	294.18	303.69	312.86	323.24	332.17	342.29	351.82	365.94	375.86	2.8%
Total Net Energy for Load	337.97	345.61	353.39	361.40	369.35	377.55	385.03	393.17	402.20	411.85	421.07	2.1%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	60.36	64.03	77.27	77.27	90.53	104.04	117.01	130.82	144.86	158.05	171.46	7.7%
Petroleum	1.85	1.90	2.03	2.03	2.19	2.31	2.46	2.60	2.74	2.87	3.00	2.1%
Natural Gas	120.70	124.14	118.89	128.37	123.56	119.47	114.83	110.96	104.64	103.26	97.48	1.2%
Nuclear	44.83	44.86	44.86	44.86	44.86	44.86	44.86	44.86	44.86	44.86	44.86	0.1%
Pumped Storage/Other 3/	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.1%
Renewable Sources 4/	59.50	59.52	59.55	59.57	60.14	60.99	61.43	61.46	63.15	65.31	67.48	1.1%
Total Generation	286.36	293.57	301.71	311.22	320.39	330.77	339.70	349.82	359.35	373.47	383.39	2.8%
Sales to Customers	278.83	286.04	294.18	303.69	312.86	323.24	332.17	342.29	351.82	365.94	375.86	2.8%
Generation for Own Use	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	3.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.11	0.16	0.20	N/A
End Use Sector 8/												
Coal	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.0%
Petroleum	1.44	1.50	1.55	1.60	1.69	1.79	1.91	1.91	1.91	1.89	1.89	3.8%
Natural Gas	22.80	23.57	24.42	25.32	26.29	27.31	28.36	29.42	30.51	31.65	32.83	3.7%
Other Gaseous Fuels	0.72	0.73	0.74	0.75	0.75	0.76	0.77	0.78	0.79	0.80	0.80	-0.4%
Renewable Sources 4/	1.60	1.62	1.65	1.68	1.72	1.76	1.80	1.83	1.88	1.91	1.95	2.0%
Other	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	0.0%
Total	28.26	29.12	30.04	31.05	32.15	33.32	34.54	35.64	36.78	37.95	39.17	3.3%
Sales to Utilities	9.05	9.49	9.94	10.45	11.02	11.64	12.25	12.78	13.33	13.87	14.43	6.0%
Generation for Own Use	19.21	19.63	20.10	20.59	21.13	21.68	22.28	22.86	23.46	24.07	24.73	2.2%
Total Electricity Generation	314.62	322.69	331.76	342.26	352.54	364.11	374.27	385.52	396.24	411.57	422.76	2.9%
End-Use Prices (2003 cents per kilowatthour)												
Residential	10.6	10.5	10.4	10.3	10.3	10.3	10.3	10.3	10.1	10.1	10.1	-0.8%
Commercial	9.6	9.5	9.4	9.3	9.3	9.3	9.3	9.3	9.1	9.1	9.1	-1.2%
Industrial	8.9	8.8	8.7	8.6	8.6	8.6	8.6	8.6	8.4	8.4	8.3	-1.0%
Transportation	9.0	8.9	8.8	8.7	8.6	8.6	8.6	8.5	8.3	8.3	8.2	-1.1%
All Sectors Average	9.8	9.7	9.6	9.5	9.5	9.5	9.5	9.5	9.3	9.3	9.2	-1.1%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	6.1	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	-1.1%

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.6%
Distribution	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.5	2.5	2.5	-1.6%
Fuel Consumption (quadrillion Btu) 9/												
Coal	0.57	0.60	0.72	0.72	0.83	0.95	1.06	1.18	1.30	1.41	1.53	7.2%
Natural Gas	1.04	1.05	1.01	1.06	1.02	0.99	0.96	0.93	0.89	0.88	0.84	0.7%
Oil	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	1.2%
Total	1.63	1.67	1.75	1.80	1.88	1.97	2.05	2.14	2.22	2.32	2.40	3.7%
Fuel Prices (dollars per million Btu)												
Coal	1.10	1.12	1.20	1.21	1.25	1.27	1.29	1.31	1.53	1.49	1.41	0.9%
Natural Gas	5.69	5.57	5.43	5.42	5.57	5.70	5.88	5.97	6.01	6.13	6.19	0.8%
Distillate Fuel	6.15	6.23	6.30	6.44	6.58	6.81	7.02	7.17	7.32	7.25	7.20	0.1%
Residual Fuel	5.35	5.40	5.45	5.50	5.56	5.61	5.67	5.72	5.78	5.84	5.89	0.2%
Biomass	1.62	1.77	1.80	1.83	1.89	1.90	1.91	1.94	1.95	2.00	2.07	5.2%
Emissions 10/												
Total Carbon (million tons)	33.28	34.31	36.86	37.70	40.36	43.15	45.81	48.73	51.43	54.49	57.10	4.9%
Carbon Dioxide (million tons)	122.04	125.79	135.14	138.25	147.98	158.22	167.98	178.68	188.59	199.80	209.38	4.9%
Sulfur Dioxide (million tons)	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	2.0%
Nitrogen Oxide (million tons)	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.15	13.2%
Mercury (tons)	0.34	0.35	0.36	0.36	0.37	0.37	0.41	0.41	0.41	0.39	0.41	1.8%

Table 72. Electric Power Projections for Electricity Market Module Region Western Electricity Coordinating Council/California

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 73. Electric Power Projections for Electricity Market Module Region United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electricity Generating Capacity 1/ (gigawatts)													
Electric Power Sector													
Coal Steam	310.88	310.31	310.33	310.39	309.45	310.18	310.18	309.69	309.69	309.69	309.97	311.26	313.26
Other Fossil Steam 2/	132.62	129.69	129.05	126.96	125.44	122.86	121.67	120.51	120.47	120.33	106.92	103.68	102.35
Combined Cycle	99.45	138.23	153.18	159.68	164.92	165.46	166.70	168.11	169.88	170.02	170.50	171.99	175.36
Combustion Turbine/Diesel	123.69	129.88	132.93	133.39	133.04	132.64	134.09	135.73	137.74	140.23	139.98	141.33	144.64
Nuclear Power	98.94	99.16	99.43	99.72	100.02	100.17	100.34	100.40	100.62	100.74	101.10	101.46	101.82
Pumped Storage/Other 3/	20.73	20.80	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	90.42	92.21	92.52	94.14	94.55	94.75	94.95	95.14	95.27	95.29	95.41	95.58	95.96
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.12	0.21	0.29	0.38	0.46	0.55	0.66	0.85
Total Capacity	876.74	920.28	938.31	945.16	948.32	947.05	949.00	950.73	954.92	957.63	945.30	946.83	955.11
Cumulative Planned Additions 6/													
Coal Steam	0.00	0.00	0.52	0.59	0.99	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	14.95	21.46	26.69	27.23	28.28	28.28	28.28	28.28	28.28	28.28	28.28
Combustion Turbine/Diesel	0.00	0.00	3.10	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.30	1.85	2.11	2.31	2.50	2.69	2.73	2.75	2.77	2.79	2.81
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	18.86	27.76	33.66	35.18	36.42	36.62	36.65	36.67	36.69	36.71	36.73
Cumulative Unplanned Additions 6/													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	2.14	4.14
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.19	1.59	3.51	3.65	4.30	5.87	9.24
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.18	1.68	3.60	5.88	8.47	11.01	12.38	15.69
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.15	0.15	0.25	0.40	0.77
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.12	0.21	0.29	0.38	0.46	0.55	0.66	0.85
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.03	0.32	2.10	5.50	9.92	12.74	16.96	21.46	30.69
Cumulative Total Additions	0.00	0.00	18.86	27.76	33.68	35.50	38.52	42.12	46.57	49.41	53.65	58.17	67.42
Cumulative Retirements 7/													
Coal Steam	0.00	0.00	0.49	0.51	1.85	1.91	1.91	2.40	2.40	2.40	2.98	2.98	2.98
Other Fossil Steam 3/	0.00	0.00	0.65	2.75	4.28	6.86	8.05	9.20	9.25	9.39	22.80	26.03	27.37
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.30	0.39	0.39
Combustion Turbine/Diesel	0.00	0.00	0.04	0.35	0.69	1.27	1.33	1.60	1.87	1.97	4.76	4.78	4.78
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.06	0.07	0.07	0.07	0.07	0.07	0.10	0.10	0.10	0.10	0.10
Total	0.00	0.00	1.24	3.67	6.88	10.11	11.36	13.28	13.77	14.01	30.94	34.29	35.63
End Use Sector 8/													
Coal	4.17	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
Petroleum	1.00	0.70	1.48	1.48	1.52	1.52	1.52	1.53	1.54	1.54	1.51	1.51	1.52
Natural Gas	14.16	14.37	15.20	15.43	15.72	16.01	16.44	16.89	17.35	17.79	18.23	18.70	19.19
Other Gaseous Fuels	1.81	1.77	1.77	1.77	1.49	1.49	1.50	1.52	1.53	1.54	1.55	1.56	1.58
Renewable Sources 4/	5.37	5.43	5.74	6.04	6.14	6.28	6.48	6.67	6.82	6.91	7.00	7.06	7.17
Other	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69

Table 73. Electric Power Projections for Electricity Market Module Region United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	27.20	27.10	29.03	29.55	29.71	30.14	30.78	31.44	32.07	32.61	33.13	33.67	34.29
Electricity Demand (billion kilowatthours)													
Residential	1266.98	1279.87	1287.78	1332.82	1356.31	1387.17	1421.54	1445.90	1471.17	1494.81	1521.12	1539.53	1561.32
Commercial/Other	1208.09	1209.85	1228.55	1262.11	1299.59	1343.04	1386.70	1427.08	1465.70	1503.97	1540.72	1577.21	1613.22
Industrial	972.16	968.93	1007.33	1030.43	1041.54	1057.88	1078.78	1097.86	1106.96	1119.57	1131.35	1140.29	1157.16
Transportation	22.17	22.69	23.13	23.65	24.14	24.66	25.17	25.69	26.21	26.71	27.24	27.76	28.29
Total Sales	3469.40	3481.34	3546.80	3649.01	3721.58	3812.75	3912.19	3996.52	4070.04	4145.06	4220.44	4284.79	4359.98
Net Energy for Load (billion kilowatthours) 7/													
Gross International Imports	36.29	29.48	31.39	32.74	33.77	30.78	30.82	30.65	31.41	37.03	38.49	36.30	36.65
Gross International Exports	14.34	24.93	27.31	28.13	26.92	26.10	24.75	23.52	22.29	21.47	20.87	20.20	19.55
Gross Interregional Electricity Imports	309.29	331.20	329.43	318.37	319.09	319.74	316.84	315.17	308.19	307.84	302.85	287.60	271.99
Gross Interregional Electricity Exports	312.77	335.17	333.24	322.28	323.17	323.89	321.03	319.34	312.33	312.03	306.92	291.53	275.73
Purchases from Combined Heat and Power 8/	27.90	27.73	31.06	32.94	38.26	39.76	42.69	45.58	48.03	50.09	52.21	54.28	56.61
Electric Power Sector Generation for Customers	3650.07	3649.02	3758.73	3857.45	3924.85	4020.01	4119.73	4201.99	4273.30	4341.62	4414.65	4479.47	4552.40
Total Net Energy for Load	3696.44	3677.34	3790.04	3891.09	3965.89	4060.30	4164.29	4250.54	4326.32	4403.08	4480.41	4545.93	4622.36
Generation by Fuel Type (billion kilowatthours)													
Electric Power Sector													
Coal	1912.06	1949.68	1967.56	2033.52	2079.94	2139.28	2174.43	2193.15	2202.61	2212.03	2229.66	2244.33	2264.06
Petroleum	89.91	112.55	110.51	114.74	114.74	117.23	113.65	116.04	117.27	118.74	118.61	120.38	124.07
Natural Gas	608.15	555.91	627.94	617.23	620.99	643.07	707.57	765.57	821.69	877.94	929.37	972.80	1016.77
Nuclear	780.06	763.72	795.49	796.28	799.51	808.45	810.27	810.89	813.28	814.16	817.18	820.53	823.26
Pumped Storage/Other 3/	-6.09	-6.53	-8.78	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79
Renewable Sources 4/	316.27	323.38	331.09	369.82	383.94	386.35	388.25	390.80	392.90	393.09	393.88	395.48	398.31
Total Generation	3700.36	3698.72	3823.82	3922.80	3990.33	4085.61	4185.39	4267.66	4338.97	4407.17	4479.93	4544.75	4617.68
Sales to Customers	3650.07	3649.02	3758.73	3857.45	3924.85	4020.01	4119.73	4201.99	4273.30	4341.62	4414.65	4479.47	4552.40
Generation for Own Use	50.29	49.69	65.09	65.35	65.48	65.60	65.66	65.66	65.67	65.55	65.28	65.28	65.28
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.01	0.05	0.09	0.13	0.16	0.20	0.24	0.29	0.37
End Use Sector 8/													
Coal	21.07	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60
Petroleum	5.32	5.58	6.19	6.19	7.40	7.34	8.01	8.59	8.93	9.98	9.05	9.15	9.26
Natural Gas	83.49	75.80	79.78	81.50	87.52	89.74	93.03	96.50	100.02	103.29	106.64	110.15	113.85
Other Gaseous Fuels	5.93	5.89	5.93	5.93	4.12	4.12	4.21	4.31	4.40	4.50	4.59	4.69	4.78
Renewable Sources 4/	34.45	35.39	37.51	39.12	39.60	40.23	41.18	42.07	42.64	43.14	43.67	43.98	44.56
Other	9.07	10.04	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03
Total	159.33	153.29	160.05	163.38	169.27	172.06	177.06	182.10	186.62	190.53	194.58	198.60	203.07
Sales to Utilities	27.90	27.73	31.06	32.94	38.26	39.76	42.69	45.58	48.03	50.09	52.21	54.28	56.61
Generation for Own Use	131.44	125.57	128.99	130.44	131.00	132.30	134.37	136.52	138.58	140.44	142.37	144.32	146.47
Total Electricity Generation	3859.70	3852.01	3983.86	4086.17	4159.61	4257.72	4362.54	4449.88	4525.75	4597.90	4674.75	4743.63	4821.12
End-Use Prices (2003 cents per kilowatthour)													
Residential	8.6	8.7	8.6	8.6	8.3	8.0	7.8	7.9	7.8	7.8	7.9	8.0	8.0
Commercial	8.0	7.9	7.9	7.8	7.5	7.1	6.9	6.8	6.8	6.8	6.9	7.0	7.2
Industrial	5.0	5.1	5.4	5.3	5.1	4.9	4.8	4.8	4.7	4.7	4.7	4.8	4.9
Transportation	6.8	7.0	7.2	7.1	6.8	6.5	6.4	6.4	6.4	6.4	6.5	6.6	6.7
All Sectors Average	7.4	7.4	7.4	7.4	7.1	6.8	6.7	6.6	6.6	6.6	6.7	6.8	6.9
Prices by Service Category (2003 cents per kilowatthour)													
Generation	4.7	4.8	4.9	4.8	4.6	4.3	4.1	4.1	4.1	4.1	4.2	4.3	4.4

Table 73. Electric Power Projections for Electricity Market Module Region United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transmission	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Distribution	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9
Fuel Consumption (quadrillion Btu) 9/													
Coal	20.15	20.30	20.36	21.03	21.49	22.09	22.49	22.70	22.81	22.92	23.12	23.27	23.46
Natural Gas	5.80	5.09	5.32	5.25	5.29	5.48	6.00	6.44	6.87	7.31	7.68	8.01	8.32
Oil	0.96	1.21	1.20	1.24	1.24	1.27	1.23	1.25	1.26	1.28	1.27	1.28	1.32
Total	26.91	26.61	26.88	27.52	28.03	28.84	29.72	30.39	30.93	31.51	32.06	32.56	33.10
Fuel Prices (dollars per million Btu)													
Coal	1.27	1.28	1.28	1.29	1.29	1.28	1.28	1.27	1.25	1.24	1.24	1.24	1.23
Natural Gas	3.69	5.46	5.98	5.92	5.27	4.83	4.50	4.39	4.27	4.31	4.41	4.54	4.70
Distillate Fuel	5.69	6.48	7.18	6.89	6.27	5.86	5.64	5.45	5.36	5.33	5.37	5.42	5.47
Residual Fuel	3.99	4.79	5.51	5.38	4.99	4.57	4.37	4.24	4.19	4.24	4.28	4.34	4.38
Biomass	1.10	1.08	1.05	1.27	1.36	1.39	1.42	1.46	1.58	1.55	1.55	1.57	1.61
Emissions 10/													
Total Carbon (million tons)	677.91	686.94	691.45	710.08	723.96	744.61	763.07	776.69	787.00	797.75	808.87	818.67	829.83
Carbon Dioxide (million tons)	2485.66	2518.79	2535.33	2603.61	2654.51	2730.24	2797.91	2847.85	2885.67	2925.09	2965.87	3001.79	3042.70
Sulfur Dioxide (million tons)	10.19	10.59	10.70	11.05	10.90	10.72	10.30	9.61	9.29	9.22	9.10	8.99	9.01
Nitrogen Oxide (million tons)	4.37	4.12	3.57	3.63	3.70	3.80	3.90	3.96	3.99	4.02	4.04	4.06	4.08
Mercury (tons)	50.08	49.70	50.38	51.99	52.30	52.91	53.01	54.06	54.08	54.68	54.74	54.74	55.10

Table 73. Electric Power Projections for Electricity Market Module Region United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electricity Generating Capacity 1/ (gigawatts)												
Electric Power Sector												
Coal Steam	315.66	318.83	322.57	327.13	332.21	339.69	348.65	359.41	372.32	383.19	394.25	1.1%
Other Fossil Steam 2/	102.19	102.19	101.60	101.47	101.37	101.15	101.15	100.92	100.92	100.92	100.50	-1.2%
Combined Cycle	181.43	188.60	194.51	201.70	205.58	210.29	212.91	215.59	218.09	221.16	222.90	2.2%
Combustion Turbine/Diesel	146.90	151.97	157.38	163.69	168.99	173.03	175.05	178.79	181.57	188.90	193.71	1.8%
Nuclear Power	102.18	102.42	102.66	102.66	102.66	102.66	102.66	102.66	102.66	102.66	102.66	0.2%
Pumped Storage/Other 3/	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	20.86	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Renewable Sources 4/	96.50	97.24	97.60	97.94	98.53	99.29	99.88	100.34	100.94	102.03	103.13	0.5%
Distributed Generation 5/	1.13	1.49	1.82	2.17	2.55	3.05	3.49	4.20	5.08	6.04	6.93	N/A
Total Capacity	966.86	983.61	999.01	1017.63	1032.76	1050.02	1064.67	1082.77	1102.44	1125.76	1144.97	1.0%
Cumulative Planned Additions 6/												
Coal Steam	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	28.28	28.28	28.28	28.28	28.28	28.28	28.28	28.28	28.28	28.28	28.28	N/A
Combustion Turbine/Diesel	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	2.83	2.85	2.87	2.89	2.91	2.94	2.96	2.98	3.00	3.02	3.05	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	36.75	36.77	36.79	36.82	36.84	36.86	36.88	36.90	36.93	36.95	36.97	N/A
Cumulative Unplanned Additions 6/												
Coal Steam	6.54	9.72	13.46	18.02	23.10	30.57	39.54	50.30	63.21	74.07	85.14	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	15.31	22.49	28.39	35.58	39.46	44.17	46.80	49.47	51.97	55.04	56.79	N/A
Combustion Turbine/Diesel	19.75	25.28	30.83	37.28	42.92	47.39	49.95	53.94	56.73	64.67	69.90	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	1.28	2.00	2.33	2.66	3.23	3.96	4.53	4.96	5.54	6.61	7.69	N/A
Distributed Generation 5/	1.13	1.49	1.82	2.17	2.55	3.05	3.49	4.20	5.08	6.04	6.93	N/A
Total Unplanned Additions	44.02	60.97	76.83	95.70	111.26	129.14	144.31	162.87	182.52	206.43	226.45	N/A
Cumulative Total Additions	80.77	97.74	113.63	132.52	148.09	166.00	181.19	199.78	219.45	243.38	263.42	N/A
Cumulative Retirements 7/												
Coal Steam	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	N/A
Other Fossil Steam 3/	27.53	27.53	28.12	28.25	28.35	28.57	28.57	28.80	28.80	28.80	29.21	N/A
Combined Cycle	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	N/A
Combustion Turbine/Diesel	6.58	7.04	7.19	7.33	7.66	8.10	8.63	8.88	8.88	9.50	9.92	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	N/A
Total	37.59	38.05	38.78	39.05	39.49	40.14	40.68	41.16	41.16	41.78	42.61	N/A
End Use Sector 8/												
Coal	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	0.0%
Petroleum	1.52	1.52	1.53	1.60	1.67	1.71	1.75	1.76	1.76	1.74	1.73	4.2%
Natural Gas	19.67	20.20	20.79	21.42	22.10	22.81	23.54	24.28	25.05	25.85	26.68	2.9%
Other Gaseous Fuels	1.58	1.59	1.60	1.60	1.61	1.62	1.63	1.63	1.64	1.65	1.65	-0.3%
Renewable Sources 4/	7.30	7.37	7.57	7.79	8.03	8.27	8.53	8.82	9.15	9.50	9.85	2.7%
Other	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.0%

Table 73. Electric Power Projections for Electricity Market Module Region United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	34.91	35.52	36.32	37.24	38.25	39.24	40.29	41.32	42.44	43.57	44.76	2.3%
Electricity Demand (billion kilowatthours)												
Residential	1583.93	1609.32	1627.82	1649.43	1670.37	1695.94	1713.22	1736.52	1761.26	1790.18	1810.27	1.6%
Commercial/Other	1651.12	1691.24	1733.11	1773.77	1813.69	1854.31	1896.70	1941.62	1988.62	2037.88	2088.15	2.5%
Industrial	1165.99	1171.50	1186.55	1203.59	1216.85	1228.69	1238.09	1248.03	1260.21	1273.77	1286.11	1.3%
Transportation	28.84	29.41	29.97	30.59	31.21	31.82	32.45	33.10	33.74	34.42	35.10	2.0%
Total Sales	4429.89	4501.47	4577.45	4657.39	4732.11	4810.76	4880.47	4959.27	5043.83	5136.25	5219.63	1.9%
Net Energy for Load (billion kilowatthours) 7/												
Gross International Imports	40.19	39.22	33.00	31.44	30.55	31.47	30.84	30.44	31.22	23.94	25.16	-0.7%
Gross International Exports	18.93	18.33	17.74	17.18	16.64	16.12	15.61	15.12	14.74	14.38	14.03	-2.6%
Gross Interregional Electricity Imports	257.65	247.76	232.82	215.86	201.59	181.13	166.33	149.16	143.22	139.83	137.46	-3.9%
Gross Interregional Electricity Exports	261.23	251.26	236.15	218.97	204.55	183.79	168.82	151.44	145.37	141.91	139.49	-3.9%
Purchases from Combined Heat and Power 8/	59.01	61.40	64.16	67.25	70.71	74.42	78.10	81.17	84.32	87.43	90.57	5.5%
Electric Power Sector Generation for Customers	4616.88	4690.60	4773.61	4855.95	4931.96	5009.73	5079.59	5159.27	5244.17	5345.65	5428.88	1.8%
Total Net Energy for Load	4693.57	4769.39	4849.69	4934.34	5013.62	5096.84	5170.43	5253.48	5342.82	5440.56	5528.54	1.9%
Generation by Fuel Type (billion kilowatthours)												
Electric Power Sector												
Coal	2284.70	2310.29	2342.43	2377.50	2417.25	2473.19	2536.81	2612.63	2706.22	2786.70	2869.40	1.8%
Petroleum	124.18	123.79	122.36	125.61	130.84	131.08	133.05	132.91	131.70	132.49	135.26	0.8%
Natural Gas	1054.68	1097.52	1146.60	1188.01	1215.67	1233.72	1234.52	1235.59	1225.20	1240.67	1233.92	3.7%
Nuclear	825.94	828.18	830.09	830.17	830.17	830.17	830.17	830.17	830.17	830.17	830.17	0.4%
Pumped Storage/Other 3/	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	1.4%
Renewable Sources 4/	401.44	404.88	406.20	408.71	412.08	415.61	419.09	422.01	424.93	429.68	434.19	1.3%
Total Generation	4682.16	4755.88	4838.89	4921.22	4997.24	5074.99	5144.85	5224.53	5309.43	5410.92	5494.14	1.8%
Sales to Customers	4616.88	4690.60	4773.61	4855.95	4931.96	5009.73	5079.59	5159.27	5244.17	5345.65	5428.88	1.8%
Generation for Own Use	65.28	65.28	65.28	65.28	65.28	65.26	65.26	65.26	65.26	65.26	65.26	1.2%
Distributed Generation 5/	0.50	0.65	0.80	0.95	1.12	1.34	1.53	1.84	2.22	2.65	3.04	N/A
End Use Sector 8/												
Coal	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	20.60	0.0%
Petroleum	9.67	10.10	10.39	10.76	11.33	12.04	12.81	12.85	12.83	12.71	12.68	3.8%
Natural Gas	117.48	121.45	125.79	130.43	135.45	140.70	146.13	151.55	157.20	163.05	169.13	3.7%
Other Gaseous Fuels	4.84	4.89	4.95	5.01	5.06	5.12	5.17	5.23	5.28	5.34	5.40	-0.4%
Renewable Sources 4/	45.20	45.50	46.43	47.44	48.56	49.60	50.66	51.69	52.84	53.94	55.00	2.0%
Other	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	10.03	0.0%
Total	207.82	212.58	218.19	224.27	231.04	238.09	245.40	251.95	258.79	265.67	272.84	2.7%
Sales to Utilities	59.01	61.40	64.16	67.25	70.71	74.42	78.10	81.17	84.32	87.43	90.57	5.5%
Generation for Own Use	148.82	151.19	154.03	157.02	160.33	163.67	167.30	170.78	174.47	178.24	182.27	1.7%
Total Electricity Generation	4890.47	4969.11	5057.87	5146.44	5229.39	5314.42	5391.79	5478.31	5570.44	5679.23	5770.02	1.9%
End-Use Prices (2003 cents per kilowatthour)												
Residential	8.1	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.2	8.2	8.3	-0.2%
Commercial	7.3	7.3	7.3	7.4	7.5	7.5	7.6	7.6	7.6	7.6	7.6	-0.2%
Industrial	5.0	5.0	5.1	5.1	5.2	5.3	5.3	5.3	5.3	5.3	5.4	0.2%
Transportation	6.7	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	-0.2%
All Sectors Average	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.2	7.2	7.3	7.3	-0.1%
Prices by Service Category (2003 cents per kilowatthour)												
Generation	4.5	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	0.1%

Table 73. Electric Power Projections for Electricity Market Module Region United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Transmission	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0%
Distribution	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	-0.7%
Fuel Consumption (quadrillion Btu) 9/												
Coal	23.65	23.87	24.16	24.46	24.81	25.28	25.80	26.43	27.20	27.86	28.54	1.6%
Natural Gas	8.55	8.80	9.13	9.37	9.54	9.64	9.63	9.63	9.55	9.65	9.60	2.9%
Oil	1.32	1.32	1.30	1.34	1.39	1.40	1.42	1.41	1.40	1.41	1.43	0.8%
Total	33.52	33.99	34.60	35.17	35.74	36.31	36.85	37.46	38.15	38.92	39.58	1.8%
Fuel Prices (dollars per million Btu)												
Coal	1.23	1.23	1.23	1.24	1.24	1.25	1.26	1.26	1.29	1.30	1.31	0.1%
Natural Gas	4.81	4.77	4.80	4.93	5.10	5.20	5.29	5.33	5.32	5.39	5.44	0.0%
Distillate Fuel	5.53	5.59	5.63	5.79	5.92	6.01	6.11	6.21	6.29	6.32	6.33	-0.1%
Residual Fuel	4.44	4.49	4.55	4.60	4.66	4.71	4.77	4.83	4.88	4.94	5.00	0.2%
Biomass	1.61	1.63	1.63	1.66	1.67	1.68	1.69	1.69	1.71	1.72	1.73	2.2%
Emissions 10/												
Total Carbon (million tons)	838.86	849.22	862.15	875.60	889.26	903.93	918.92	936.43	956.58	977.10	996.04	1.7%
Carbon Dioxide (million tons)	3075.81	3113.80	3161.22	3210.52	3260.62	3314.43	3369.37	3433.58	3507.44	3582.70	3652.15	1.7%
Sulfur Dioxide (million tons)	8.97	9.01	8.99	9.00	8.95	8.95	8.95	8.95	8.95	8.95	8.95	-0.8%
Nitrogen Oxide (million tons)	4.09	4.11	4.13	4.14	4.16	4.18	4.19	4.21	4.24	4.26	4.29	0.2%
Mercury (tons)	55.12	55.46	55.61	55.71	55.58	55.45	54.69	54.91	55.10	55.27	55.97	0.5%

Table 73. Electric Power Projections for Electricity Market Module Region United States

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

2/ Includes oil-, gas-, and dual-fired capacity.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2003.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 74. Electric Generation by Electricity Market Module Region and Source (Billion Kwh)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
East Central Area Reliability Coordination Agreement													
Coal	496.67	499.26	510.76	531.46	532.94	548.04	558.32	568.91	572.34	575.76	580.35	583.04	585.76
Petroleum	5.27	4.91	3.74	4.05	3.92	4.03	4.13	4.23	4.27	4.30	4.36	4.40	4.43
Natural Gas	22.23	15.88	40.18	40.57	40.02	39.72	40.98	45.78	49.78	55.24	57.14	59.50	63.20
Nuclear	55.55	49.05	61.38	57.97	58.12	58.25	58.32	58.40	58.47	58.55	58.62	58.70	58.73
Pumped Storage/Other 1/	-2.22	-1.97	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79
Renewables 2/	5.87	6.33	6.40	6.69	7.00	7.11	7.70	8.43	9.36	9.41	9.66	9.91	10.27
Total	583.37	573.45	620.66	638.96	640.21	655.36	667.67	683.96	692.44	701.47	708.35	713.75	720.60
Electric Reliability Council of Texas													
Coal	107.06	112.29	103.08	106.43	109.40	111.49	112.01	111.95	111.91	111.91	111.91	111.73	111.67
Petroleum	1.48	2.18	0.87	0.89	0.90	0.92	0.92	0.92	0.91	0.91	0.93	0.93	0.95
Natural Gas	126.97	119.92	156.71	161.33	161.41	167.69	174.62	181.16	185.80	192.26	199.25	204.60	211.56
Nuclear	35.62	33.44	34.82	35.10	35.33	35.55	35.78	35.95	37.57	37.72	37.88	38.02	38.09
Pumped Storage/Other 1/	0.49	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	3.22	3.00	5.64	6.34	6.89	7.70	8.05	8.68	8.72	8.72	8.73	8.91	8.97
Total	274.84	271.38	301.13	310.10	313.94	323.41	331.47	338.78	345.07	351.72	358.92	364.45	371.54
Mid-Atlantic Area Council													
Coal	117.50	121.45	121.49	126.10	129.37	133.47	136.28	140.45	141.19	141.04	143.23	143.86	144.10
Petroleum	6.36	10.11	10.70	10.83	10.57	10.61	10.80	10.90	10.95	11.10	8.20	8.23	8.79
Natural Gas	25.69	19.50	25.15	25.44	24.64	25.68	29.20	32.03	34.84	38.02	42.61	46.21	50.74
Nuclear	105.49	105.14	109.67	109.88	110.91	110.99	111.06	111.14	111.21	111.28	111.35	111.42	111.43
Pumped Storage/Other 1/	-0.10	-0.35	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82
Renewables 2/	7.73	9.43	10.37	11.50	12.14	12.49	12.61	12.66	13.79	14.25	14.06	14.07	14.31
Total	262.67	265.29	276.56	282.93	286.81	292.41	299.13	306.35	311.15	314.88	318.63	322.98	328.57
Mid-America Interconnected Network													
Coal	164.07	173.81	177.42	181.04	188.59	192.92	198.63	199.78	200.68	202.89	204.63	205.76	206.64
Petroleum	0.89	1.43	1.76	1.82	1.87	1.91	1.96	1.98	1.99	2.01	2.17	2.18	2.20
Natural Gas	13.39	7.06	18.60	19.19	18.58	18.63	19.31	19.67	20.53	21.76	22.88	23.99	25.86
Nuclear	113.81	117.99	120.87	121.10	121.55	121.55	122.32	122.32	122.32	122.38	122.38	122.38	122.38
Pumped Storage/Other 1/	0.06	-0.14	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Renewables 2/	4.65	3.87	4.51	4.76	4.94	5.10	5.10	5.27	5.28	5.45	5.50	5.72	5.76
Total	296.88	304.02	323.02	327.78	335.40	339.98	347.19	348.90	350.67	354.36	357.43	359.91	362.72
Mid-Continent Area Power Pool													
Coal	116.90	120.43	122.17	127.37	131.88	138.88	141.62	141.30	141.70	141.95	142.21	142.34	142.46
Petroleum	0.77	1.04	0.99	1.05	1.08	1.08	1.09	1.12	1.14	1.16	1.18	1.21	1.23
Natural Gas	2.07	2.67	1.60	1.36	1.25	1.13	1.26	1.89	2.39	2.87	3.58	4.13	4.78
Nuclear	26.27	24.06	24.19	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	12.83	12.67	15.78	18.81	19.39	19.45	19.51	19.62	19.68	19.71	19.72	19.75	19.75
Total	158.83	160.86	164.74	172.80	177.82	184.76	187.71	188.15	189.14	189.93	190.93	191.66	192.48
Northeast Power Coordinating Council/ New York													
Coal	22.50	23.09	29.58	29.72	30.73	31.68	31.87	31.96	33.01	33.95	33.73	33.82	34.07
Petroleum	11.34	18.58	19.69	22.00	22.01	22.12	17.97	18.33	18.37	18.52	18.46	18.65	18.73
Natural Gas	37.20	26.11	33.73	31.97	31.97	32.49	37.63	38.92	39.23	39.91	41.58	42.69	43.83
Nuclear	39.62	40.68	41.42	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49
Pumped Storage/Other 1/	-0.92	-0.91	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57
Renewables 2/	27.02	26.82	28.36	30.53	31.41	31.78	31.76	31.80	30.71	30.05	30.19	30.15	29.92
Total	136.76	134.37	152.21	155.15	157.04	158.99	160.15	161.93	162.24	163.34	164.88	166.23	167.48
Northeast Power Coordinating Council/ New England													
Coal	18.66	19.22	20.05	20.60	21.07	21.46	21.63	21.63	21.63	21.63	21.62	21.62	21.62
Petroleum	10.00	12.24	8.28	8.62	8.53	9.19	9.66	10.75	10.58	11.48	12.85	13.25	14.76
Natural Gas	42.07	39.63	43.45	42.85	43.55	46.53	49.67	51.30	52.93	53.75	54.40	55.51	55.75
Nuclear	33.94	34.78	35.33	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38
Pumped Storage/Other 1/	-0.85	-0.70	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52

Table 74. Electric Generation by Electricity Market Module Region and Source (Billion Kwh)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Renewables 2/	12.31	12.98	11.42	11.97	12.17	12.17	12.17	12.17	12.17	12.17	12.17	12.17	12.17
Total	116.13	118.14	118.02	118.89	120.17	124.20	127.98	130.69	132.16	133.88	135.90	137.40	139.16
Southeastern Electric Reliability Council/ Florida													
Coal	64.26	58.90	71.39	73.85	75.99	78.04	79.00	79.49	80.34	80.61	80.96	81.18	81.40
Petroleum	33.53	36.94	36.86	36.85	36.83	37.19	37.30	37.38	37.18	37.18	37.34	37.20	37.44
Natural Gas	59.59	64.11	39.09	41.04	43.61	46.90	51.65	56.39	65.21	70.74	76.52	82.57	88.21
Nuclear	33.70	30.98	31.76	31.86	31.89	31.93	32.13	32.13	32.13	32.13	32.13	32.13	32.13
Pumped Storage/Other 1/	0.31	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	3.79	3.99	3.73	3.88	3.96	4.17	4.28	4.30	4.52	4.69	4.76	4.78	5.09
Total	195.18	195.16	182.83	187.48	192.29	198.23	204.36	209.68	219.38	225.35	231.72	237.86	244.26
Southeastern Electric Reliability Council/ excluding Florida													
Coal	436.56	443.39	444.51	458.41	471.46	484.67	492.91	499.20	501.31	503.64	505.93	506.33	508.00
Petroleum	7.04	12.22	15.06	15.76	15.57	15.73	16.13	16.32	16.66	16.74	17.11	17.84	18.40
Natural Gas	102.06	74.13	72.80	69.37	67.84	66.50	82.89	95.66	107.52	120.87	135.27	148.63	161.04
Nuclear	252.76	246.95	253.05	256.34	257.46	265.46	265.72	265.72	266.13	266.36	268.93	271.85	274.31
Pumped Storage/Other 1/	-2.75	-2.91	-3.63	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64
Renewables 2/	30.27	44.46	35.02	39.91	41.60	41.62	42.46	43.09	43.33	43.17	42.87	42.81	43.40
Total	825.94	818.24	816.82	836.15	850.29	870.34	896.48	916.35	931.32	947.15	966.47	983.82	1001.52
Southwest Power Pool													
Coal	143.65	146.26	142.36	148.76	153.48	157.12	158.14	154.48	154.55	154.77	154.90	154.93	154.90
Petroleum	0.60	1.25	1.25	1.35	1.38	1.42	1.44	1.43	1.47	1.49	1.54	1.55	1.59
Natural Gas	42.82	48.17	28.17	30.19	29.86	29.91	32.98	38.14	44.01	47.57	51.97	55.88	60.68
Nuclear	9.04	8.89	9.27	9.27	9.27	9.27	9.27	9.27	9.27	9.39	9.39	9.39	9.39
Pumped Storage/Other 1/	-0.13	0.11	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
Renewables 2/	7.02	5.47	5.81	7.54	7.71	7.90	7.81	7.88	7.84	7.87	7.87	7.86	7.90
Total	203.00	210.15	186.67	196.90	201.49	205.41	209.44	210.99	216.94	220.88	225.46	229.40	234.26
Western Electricity Coordinating Council/ Northwest Power Pool Area													
Coal	76.90	81.81	81.29	83.11	84.79	86.62	87.78	87.78	87.78	87.66	87.60	87.65	87.65
Petroleum	0.58	0.61	0.60	0.61	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Natural Gas	14.71	19.09	22.95	22.18	23.35	26.04	27.75	31.17	34.92	33.86	36.02	36.95	36.96
Nuclear	9.05	7.61	8.16	8.24	8.31	8.38	8.45	8.61	8.68	8.74	8.81	8.88	8.94
Pumped Storage/Other 1/	0.32	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	133.28	123.13	132.80	149.59	155.83	155.76	155.50	155.51	155.36	155.36	155.40	155.41	156.46
Total	234.83	232.61	245.79	263.73	272.91	277.43	280.12	283.70	287.37	286.26	288.47	289.54	290.65
Western Electricity Coordinating Council/ Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal	111.85	114.03	111.22	113.75	116.72	120.74	121.68	121.66	121.63	121.66	121.71	121.71	128.58
Petroleum	0.12	0.14	1.75	1.79	2.11	2.84	1.85	2.09	2.97	2.92	3.28	3.48	3.81
Natural Gas	39.19	38.95	61.70	53.99	55.48	55.51	64.83	73.25	80.54	87.53	91.76	93.85	91.24
Nuclear	22.40	20.74	21.43	21.24	21.30	21.55	21.60	21.66	21.72	21.77	21.83	21.89	21.94
Pumped Storage/Other 1/	-0.05	0.10	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
Renewables 2/	16.62	15.68	18.68	21.14	21.95	22.07	22.17	22.20	22.24	22.23	22.19	22.20	22.21
Total	190.14	189.64	214.55	211.66	217.32	222.47	231.90	240.62	248.86	255.88	260.53	262.88	267.55
Western Electricity Coordinating Council/ California													
Coal	33.50	33.71	32.06	32.75	33.35	33.97	34.37	34.37	34.36	34.36	40.67	50.16	57.00
Petroleum	1.80	1.92	1.61	1.63	1.62	1.63	1.62	1.62	1.62	1.58	1.65	1.74	1.80
Natural Gas	77.21	75.54	78.66	72.49	73.97	80.75	89.06	94.34	97.99	107.43	110.12	111.90	116.40
Nuclear	42.81	43.43	44.14	44.19	44.27	44.43	44.52	44.61	44.70	44.75	44.77	44.79	44.81
Pumped Storage/Other 1/	-0.24	-0.90	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88
Renewables 2/	49.80	53.27	50.28	54.80	56.55	56.56	56.57	56.59	57.23	57.25	57.97	58.90	59.20
Total	204.88	206.97	205.86	204.98	208.87	216.47	225.26	230.65	235.02	244.50	254.29	266.60	278.32

Table 74. Electric Generation by Electricity Market Module Region and Source (Billion Kwh)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
East Central Area Reliability Coordination Agreement												
Coal	587.26	588.50	590.16	590.67	591.49	591.87	591.75	591.31	592.40	593.60	594.93	0.8%
Petroleum	4.45	4.47	4.51	4.51	4.77	4.78	4.78	4.77	4.77	4.78	4.79	-0.1%
Natural Gas	66.99	70.90	78.88	83.88	89.37	90.86	94.68	98.04	104.86	111.76	117.49	9.5%
Nuclear	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	58.73	0.8%
Pumped Storage/Other 1/	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-0.4%
Renewables 2/	10.46	10.44	10.26	10.56	10.82	11.12	11.14	11.05	10.03	10.36	9.95	2.1%
Total	726.11	731.24	740.75	746.57	753.39	755.58	759.29	762.11	769.00	777.43	784.10	1.4%
Electric Reliability Council of Texas												
Coal	111.67	111.82	111.97	111.99	112.03	112.08	112.70	116.64	126.90	135.85	142.41	1.1%
Petroleum	0.97	0.97	0.98	1.00	1.00	1.00	1.02	1.05	1.15	1.23	1.29	-2.3%
Natural Gas	215.20	220.74	226.02	231.67	236.32	241.35	245.24	246.45	241.70	239.55	238.23	3.2%
Nuclear	39.95	40.03	40.12	40.21	40.21	40.21	40.21	40.21	40.21	40.21	40.21	0.8%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	8.98	8.83	8.92	8.98	9.01	9.19	9.68	9.90	10.20	10.45	11.01	6.1%
Total	377.09	382.75	388.38	394.25	399.01	404.29	409.33	414.77	420.72	427.88	433.79	2.2%
Mid-Atlantic Area Council												
Coal	144.16	144.54	144.87	145.10	146.08	147.89	153.49	159.67	166.63	173.16	179.56	1.8%
Petroleum	8.81	8.75	9.24	9.57	9.88	9.97	10.10	10.05	10.11	10.17	10.28	0.1%
Natural Gas	56.21	58.03	62.13	65.73	67.86	74.94	74.10	71.50	71.42	72.79	72.33	6.1%
Nuclear	111.43	111.43	113.25	113.25	113.25	113.25	113.25	113.25	113.25	113.25	113.25	0.3%
Pumped Storage/Other 1/	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	3.9%
Renewables 2/	14.30	14.32	14.19	14.28	14.29	14.31	14.30	14.30	14.27	14.24	13.99	1.8%
Total	334.19	336.40	343.08	347.39	350.90	359.96	364.90	368.50	375.50	383.51	389.39	1.8%
Mid-America Interconnected Network												
Coal	206.92	207.10	208.25	208.77	209.46	209.09	208.23	207.76	207.49	207.50	208.76	0.8%
Petroleum	2.20	2.20	2.21	2.21	2.22	2.22	2.21	2.20	2.19	2.18	2.20	2.0%
Natural Gas	27.32	28.70	30.29	30.83	32.08	32.90	33.38	33.26	34.31	34.90	35.97	7.7%
Nuclear	122.38	124.45	124.45	124.45	124.45	124.45	124.45	124.45	124.45	124.45	124.45	0.2%
Pumped Storage/Other 1/	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.2%
Renewables 2/	5.63	5.64	5.64	5.71	5.60	5.62	5.66	5.88	6.13	6.51	7.03	2.7%
Total	364.36	368.01	370.79	371.95	373.79	374.29	373.96	373.60	374.70	375.73	378.67	1.0%
Mid-Continent Area Power Pool												
Coal	149.29	152.33	152.46	152.59	152.62	152.63	155.18	157.36	159.16	161.06	163.88	1.4%
Petroleum	1.31	1.32	1.35	1.35	1.35	1.36	1.38	1.41	1.43	1.45	2.12	3.3%
Natural Gas	5.00	5.33	6.31	6.58	6.95	7.18	6.83	7.69	7.78	7.98	7.05	4.5%
Nuclear	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	24.22	0.0%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	19.69	19.69	19.69	19.69	19.68	19.68	19.67	19.80	19.96	20.02	20.02	2.1%
Total	199.55	202.95	204.10	204.51	204.91	205.18	207.41	210.61	212.69	214.89	217.47	1.4%
Northeast Power Coordinating Council/ New York												
Coal	34.04	33.98	34.01	34.08	34.09	34.11	36.61	39.65	43.27	46.79	49.37	3.5%
Petroleum	18.58	18.56	18.53	22.47	23.84	23.75	23.83	24.03	24.13	24.16	24.15	1.2%
Natural Gas	45.39	46.61	48.62	46.58	47.32	49.67	49.39	49.64	49.65	49.57	49.33	2.9%
Nuclear	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	41.49	0.1%
Pumped Storage/Other 1/	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-2.1%
Renewables 2/	29.93	29.92	29.91	29.91	29.91	29.92	29.91	29.91	29.90	29.89	29.88	0.5%
Total	168.87	169.99	171.98	173.97	176.09	178.36	180.67	184.15	187.89	191.34	193.68	1.7%
Northeast Power Coordinating Council/ New England												
Coal	21.62	21.62	21.62	21.62	21.62	21.62	21.62	21.62	21.62	21.62	25.72	1.3%
Petroleum	14.03	13.71	13.37	13.98	14.25	13.69	13.78	13.79	13.45	13.53	13.14	0.3%
Natural Gas	56.85	57.63	60.85	63.32	65.44	66.13	68.05	69.82	72.02	75.82	74.61	2.9%
Nuclear	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	35.38	0.1%
Pumped Storage/Other 1/	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-1.3%

Table 74. Electric Generation by Electricity Market Module Region and Source (Billion Kwh)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Renewables 2/	12.59	14.79	14.89	14.98	15.11	15.27	15.43	15.55	15.72	15.72	15.72	0.9%
Total	139.95	142.63	145.61	148.79	151.32	151.61	153.80	155.71	157.75	161.64	164.15	1.5%
Southeastern Electric Reliability Council/ Florida												
Coal	81.43	83.58	85.74	88.65	88.65	88.86	97.94	110.32	120.24	129.07	137.78	3.9%
Petroleum	37.50	37.46	36.24	33.84	33.94	33.81	34.53	33.75	33.72	33.53	33.30	-0.5%
Natural Gas	93.83	98.71	104.84	109.98	117.03	122.99	120.32	118.60	117.32	118.85	119.80	2.9%
Nuclear	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	32.13	0.2%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	5.47	5.54	5.94	6.55	7.13	7.80	8.16	8.43	8.56	9.03	9.78	4.2%
Total	250.36	257.44	264.90	271.17	278.90	285.63	293.12	303.28	312.03	322.67	332.88	2.5%
Southeastern Electric Reliability Council/ excludin												
Coal	509.00	511.62	515.97	533.46	546.21	574.64	598.18	624.90	646.53	665.25	680.48	2.0%
Petroleum	18.88	18.98	19.45	19.85	22.03	22.52	22.97	22.92	21.49	21.62	23.34	3.0%
Natural Gas	170.99	186.17	196.85	201.43	207.58	204.45	202.24	203.15	202.17	206.20	206.22	4.8%
Nuclear	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	275.07	0.5%
Pumped Storage/Other 1/	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	-3.64	1.0%
Renewables 2/	44.07	44.24	44.24	44.31	44.41	44.03	44.20	44.15	44.38	43.83	43.34	-0.1%
Total	1014.38	1032.45	1047.94	1070.48	1091.66	1117.08	1139.02	1166.55	1186.00	1208.34	1224.83	1.9%
Southwest Power Pool												
Coal	154.98	158.93	159.30	163.33	165.81	169.51	169.75	169.59	176.34	184.35	189.55	1.2%
Petroleum	1.61	1.62	1.62	1.66	1.92	1.92	1.97	2.00	1.76	1.84	2.11	2.4%
Natural Gas	64.22	64.70	68.46	71.34	73.39	75.15	77.61	80.32	78.99	82.10	81.37	2.4%
Nuclear	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	9.39	0.2%
Pumped Storage/Other 1/	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	N/A
Renewables 2/	7.92	7.86	7.60	7.53	7.52	7.59	7.42	7.68	7.87	8.21	7.87	1.7%
Total	237.92	242.30	246.17	253.05	257.82	263.35	265.94	268.78	274.15	285.68	290.08	1.5%
Western Electricity Coordinating Council/ Northwe												
Coal	87.76	87.84	87.77	87.90	87.92	87.92	87.92	88.04	96.51	96.51	104.28	1.1%
Petroleum	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.72	0.72	0.80	1.3%
Natural Gas	38.66	44.86	52.58	60.01	66.45	69.92	71.37	73.62	71.34	72.11	69.59	6.1%
Nuclear	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	0.7%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	157.71	158.77	160.04	161.16	163.06	164.61	166.52	168.34	169.11	169.66	171.02	1.5%
Total	293.71	301.05	309.99	318.67	327.05	332.11	335.49	339.77	346.89	348.31	355.08	1.9%
Western Electricity Coordinating Council/ Rocky M Area and Arizona-New Mexico-Southern Nevada												
Coal	135.99	144.17	152.80	161.82	170.51	178.71	186.18	194.70	204.01	213.63	220.95	3.1%
Petroleum	3.88	3.53	2.31	2.40	2.49	2.57	2.64	2.73	2.82	2.92	2.99	15.1%
Natural Gas	86.64	84.20	84.93	81.19	75.07	71.29	68.92	64.82	61.11	57.71	56.19	1.7%
Nuclear	22.00	22.06	22.06	22.06	22.06	22.06	22.06	22.06	22.06	22.06	22.06	0.3%
Pumped Storage/Other 1/	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	N/A
Renewables 2/	22.22	22.29	22.24	22.31	22.18	22.19	22.20	22.13	22.14	22.87	23.43	1.8%
Total	270.49	276.01	284.10	289.54	292.06	296.60	301.81	306.28	312.00	319.08	325.55	2.5%
Western Electricity Coordinating Council/ Californ												
Coal	60.36	64.03	77.27	77.27	90.53	104.04	117.01	130.82	144.86	158.05	171.46	7.7%
Petroleum	1.85	1.90	2.03	2.03	2.19	2.31	2.46	2.60	2.74	2.87	3.00	2.1%
Natural Gas	120.70	124.14	118.89	128.37	123.56	119.47	114.83	110.96	104.64	103.26	97.48	1.2%
Nuclear	44.83	44.86	44.86	44.86	44.86	44.86	44.86	44.86	44.86	44.86	44.86	0.1%
Pumped Storage/Other 1/	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.1%
Renewables 2/	59.50	59.52	59.55	59.57	60.14	60.99	61.43	61.46	63.15	65.31	67.48	1.1%
Total	286.36	293.57	301.71	311.22	320.39	330.79	339.73	349.89	359.46	373.62	383.59	2.8%

Table 74. Electric Generation by Electricity Market Module Region and Source (Billion Kwh)

1/ Other includes methane, propane and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

2/ Renewables include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

Sources: 2003 utility generation: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Other 2003 and projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
East Central Area Reliability Coordination Agreement													
Coal Steam	84.31	84.27	84.27	84.26	82.93	82.93	82.93	82.93	82.93	82.93	82.57	82.57	82.57
Other Fossil Steam 1/	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	0.95	0.16	0.16
Combined Cycle	5.77	10.54	11.64	11.64	12.36	12.36	12.36	12.36	12.36	12.36	12.19	12.19	12.19
Combustion Turbine/ Diesel	18.70	19.24	19.93	20.17	20.17	20.15	20.12	20.12	20.12	20.12	19.82	19.81	20.03
Nuclear Power	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69
Pumped Storage/Other 2/	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.62	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Total	125.36	130.76	132.55	132.78	132.17	132.14	132.11	132.11	132.11	132.11	128.45	127.65	127.87
Electric Reliability Council of Texas													
Coal Steam	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16	15.16
Other Fossil Steam 1/	29.91	29.52	29.28	28.75	27.90	25.63	24.52	23.36	23.36	23.26	23.26	23.16	23.16
Combined Cycle	17.08	21.77	23.15	23.15	23.66	23.66	23.85	24.24	24.62	24.76	25.31	26.10	27.05
Combustion Turbine/ Diesel	5.27	4.84	4.89	4.88	4.88	4.52	5.11	6.82	8.76	9.63	10.42	10.63	10.68
Nuclear Power	4.74	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.94	4.94	4.94	4.94	4.94
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.84	2.07	2.16	2.33	2.49	2.65	2.81	2.98	2.98	2.98	2.98	2.98	2.98
Total	74.00	78.14	79.41	79.03	78.89	76.52	76.44	77.62	80.19	81.18	82.59	83.56	84.64
Mid-Atlantic Area Council													
Coal Steam	20.20	20.01	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53
Other Fossil Steam 1/	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	7.12	7.12	7.12
Combined Cycle	8.33	10.00	12.13	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31
Combustion Turbine/ Diesel	10.35	11.16	11.16	11.31	11.31	11.31	11.31	11.31	11.31	11.31	10.94	10.94	11.54
Nuclear Power	13.05	13.12	13.26	13.26	13.40	13.40	13.40	13.42	13.42	13.42	13.42	13.42	13.42
Pumped Storage/Other 2/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.89	1.92	1.92	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
Total	63.75	66.14	68.94	70.34	70.47	70.47	70.47	70.49	70.49	70.49	68.85	68.89	69.53
Mid-America Interconnected Network													
Coal Steam	29.62	29.54	29.52	29.58	29.57	29.50	29.50	29.50	29.50	29.50	29.40	29.40	29.40
Other Fossil Steam 1/	3.97	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	1.51	0.98	0.98
Combined Cycle	3.01	3.01	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
Combustion Turbine/ Diesel	15.81	16.57	16.63	16.62	16.62	16.62	16.62	16.62	16.62	16.62	16.27	16.27	16.51
Nuclear Power	14.42	14.43	14.43	14.43	14.48	14.48	14.59	14.59	14.59	14.67	14.67	14.67	14.67
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	0.98	1.04	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Total	68.24	68.66	69.90	69.95	69.98	69.92	70.04	70.04	70.04	70.12	67.54	67.01	67.30
Mid-Continent Area Power Pool													
Coal Steam	18.65	18.65	18.65	18.67	18.67	19.46	19.46	19.46	19.46	19.46	19.45	19.45	19.45
Other Fossil Steam 1/	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.52	0.52	0.52
Combined Cycle	0.61	0.69	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Combustion Turbine/ Diesel	6.34	7.45	7.69	7.70	7.70	7.70	7.70	7.70	7.92	8.21	8.70	9.09	9.52
Nuclear Power	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	4.02	4.26	4.29	4.79	4.81	4.83	4.84	4.86	4.88	4.88	4.88	4.88	4.88
Total	33.31	34.74	35.25	35.78	35.79	36.60	36.62	36.64	36.89	37.19	37.65	38.04	38.50
Northeast Power Coordinating Council/ New York													
Coal Steam	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.83	3.83	3.83
Other Fossil Steam 1/	12.58	12.58	12.58	12.58	12.58	12.58	12.58	12.58	12.58	12.58	10.75	10.75	10.75

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Combined Cycle	3.86	5.12	5.12	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	6.04
Combustion Turbine/ Diesel	4.64	4.72	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.94	4.94
Nuclear Power	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05
Pumped Storage/Other 2/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	4.80	4.87	4.94	5.16	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31
Total	36.10	37.51	37.63	38.62	38.76	38.76	38.76	38.76	38.76	38.76	36.88	37.05	37.21
Northeast Power Coordinating Council/ New England													
Coal Steam	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.86	2.86	2.86
Other Fossil Steam 1/	7.41	7.41	7.08	7.08	7.08	7.08	7.08	7.08	7.08	7.08	6.09	5.08	4.05
Combined Cycle	7.58	9.97	9.97	9.97	10.46	10.46	10.46	10.46	10.32	10.32	10.32	10.32	10.32
Combustion Turbine/ Diesel	2.31	2.34	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
Nuclear Power	4.34	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
Pumped Storage/Other 2/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	2.76	2.78	2.79	2.80	2.80	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
Total	28.93	31.38	31.53	31.54	32.04	32.04	32.04	32.04	31.90	31.90	30.88	29.87	28.84
Southeastern Electric Reliability Council/ Florida													
Coal Steam	11.46	11.46	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96	10.96
Other Fossil Steam 1/	12.00	11.31	11.31	11.11	11.11	11.11	11.11	11.11	11.11	11.11	11.06	10.76	10.76
Combined Cycle	7.05	9.16	10.74	11.44	11.44	11.44	11.44	12.46	13.99	13.99	14.10	14.87	15.91
Combustion Turbine/ Diesel	10.09	10.09	10.06	10.06	9.92	10.03	10.91	11.11	10.97	12.29	13.38	13.99	14.05
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	0.55	0.55	0.55	0.55	0.55	0.57	0.57	0.57	0.62	0.62	0.62	0.62	0.69
Total	45.04	46.47	47.52	48.02	47.89	48.01	48.92	50.13	51.57	52.89	54.04	55.13	56.29
Southeastern Electric Reliability Council/ excluding Florida													
Coal Steam	71.41	71.16	71.19	71.19	71.19	71.19	71.19	71.19	71.19	71.19	71.15	71.15	71.29
Other Fossil Steam 1/	18.61	18.87	18.84	18.84	18.82	18.82	18.77	18.77	18.73	18.73	17.87	17.87	17.56
Combined Cycle	22.51	31.40	35.31	35.96	38.59	38.59	38.59	38.59	38.59	38.59	38.59	38.59	39.16
Combustion Turbine/ Diesel	29.30	31.11	31.85	31.85	31.76	31.64	31.64	31.38	31.38	31.38	30.74	30.74	32.45
Nuclear Power	32.21	32.30	32.43	32.78	32.90	33.02	33.05	33.08	33.13	33.15	33.52	33.87	34.23
Pumped Storage/Other 2/	7.04	7.11	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	12.29	12.29	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.49
Total	193.37	204.24	209.13	210.13	212.77	212.77	212.75	212.51	212.52	212.54	211.38	211.74	214.36
Southwest Power Pool													
Coal Steam	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.11	21.11	21.11	21.11	21.11	21.11
Other Fossil Steam 1/	12.79	12.71	12.66	11.30	10.69	10.38	10.35	10.35	10.35	10.31	8.35	8.08	8.08
Combined Cycle	6.78	10.58	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.12	11.12
Combustion Turbine/ Diesel	6.50	6.86	7.50	7.45	7.33	7.33	7.33	7.33	7.33	7.33	7.25	7.25	7.25
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18
Pumped Storage/Other 2/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	2.72	2.90	2.90	3.15	3.16	3.16	3.16	3.16	3.16	3.16	3.17	3.17	3.17
Total	52.05	56.32	57.54	56.38	55.65	55.34	55.31	54.83	54.83	54.81	52.77	52.40	52.40
Western Electricity Coordinating Council/ Northwest Power Pool Area													
Coal Steam	11.49	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57
Other Fossil Steam 1/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.24	0.02	0.02
Combined Cycle	3.23	3.47	4.21	4.36	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96
Combustion Turbine/ Diesel	2.44	2.44	2.49	2.63	2.63	2.63	2.63	2.63	2.63	2.63	1.72	1.72	1.72
Nuclear Power	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12	1.12

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	36.09	36.16	36.17	36.26	36.28	36.28	36.29	36.29	36.26	36.27	36.27	36.28	36.41
Total	55.40	55.79	56.59	56.97	57.59	57.59	57.60	57.61	57.58	57.59	56.21	55.99	56.12
Western Electricity Coordinating Council/ Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area													
Coal Steam	15.76	15.67	15.67	15.67	16.07	16.07	16.07	16.07	16.07	16.07	16.07	16.07	17.00
Other Fossil Steam 1/	2.78	2.67	2.67	2.67	2.63	2.63	2.63	2.63	2.63	2.63	2.13	2.13	2.13
Combined Cycle	7.00	12.96	14.84	15.60	15.88	15.88	16.41	16.41	16.41	16.41	16.41	16.41	16.41
Combustion Turbine/ Diesel	5.53	6.10	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
Nuclear Power	2.78	2.78	2.78	2.73	2.73	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Pumped Storage/Other 2/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	6.14	6.66	6.68	6.88	6.91	6.91	6.91	6.92	6.92	6.93	6.93	6.94	6.94
Total	40.77	47.61	49.57	50.50	51.16	51.18	51.71	51.72	51.72	51.73	51.23	51.24	52.17
Western Electricity Coordinating Council/ California													
Coal Steam	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45	5.31	6.60	7.53
Other Fossil Steam 1/	19.10	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.05	17.05	17.05
Combined Cycle	6.66	9.55	9.79	12.08	12.08	12.62	13.14	13.14	13.14	13.14	13.14	13.14	13.80
Combustion Turbine/ Diesel	6.40	6.97	7.00	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98
Nuclear Power	5.37	5.37	5.37	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
Pumped Storage/Other 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	14.74	14.97	14.94	15.05	15.08	15.08	15.09	15.09	15.18	15.18	15.28	15.44	15.47
Total	60.42	62.52	62.76	65.12	65.16	65.70	66.23	66.24	66.32	66.33	66.82	68.26	69.88

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
East Central Area Reliability Coordination Agreement												
Coal Steam	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	-0.1%
Other Fossil Steam 1/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-13.3%
Combined Cycle	12.19	12.19	12.19	12.19	12.51	13.16	14.26	15.80	17.23	18.59	19.34	2.8%
Combustion Turbine/ Diesel	21.35	22.86	24.41	26.19	27.50	28.75	29.34	29.80	30.31	31.21	32.43	2.4%
Nuclear Power	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	7.69	0.0%
Pumped Storage/Other 2/	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	1.75	1.75	1.75	1.75	1.81	1.91	1.94	1.94	1.99	2.05	2.05	0.8%
Total	129.19	130.70	132.25	134.03	135.72	137.72	139.45	141.45	143.43	145.76	147.72	0.6%
Electric Reliability Council of Texas												
Coal Steam	15.16	15.16	15.16	15.16	15.16	15.16	15.25	15.78	17.20	18.39	19.28	1.1%
Other Fossil Steam 1/	23.00	23.00	23.00	23.00	23.00	22.78	22.78	22.55	22.55	22.55	22.14	-1.3%
Combined Cycle	28.00	29.31	30.30	31.38	31.86	32.91	33.93	34.21	34.21	34.50	34.78	2.2%
Combustion Turbine/ Diesel	10.68	10.68	10.68	10.68	11.16	11.25	11.30	11.69	11.76	11.85	11.88	4.2%
Nuclear Power	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	0.4%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	2.99	2.99	3.04	3.04	3.05	3.10	3.19	3.20	3.20	3.29	3.39	2.3%
Total	85.75	87.13	88.24	89.39	90.42	91.46	92.78	93.82	95.39	97.15	98.10	1.0%
Mid-Atlantic Area Council												
Coal Steam	20.53	20.53	20.53	20.53	20.63	20.87	21.72	22.63	23.65	24.61	25.53	1.1%
Other Fossil Steam 1/	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	-0.7%
Combined Cycle	13.31	13.31	13.96	14.48	14.62	15.22	15.22	15.22	15.22	15.42	15.42	2.0%
Combustion Turbine/ Diesel	12.06	12.55	12.69	13.02	13.54	13.67	13.67	13.75	13.75	13.75	13.82	1.0%
Nuclear Power	13.42	13.42	13.66	13.66	13.66	13.66	13.66	13.66	13.66	13.66	13.66	0.2%
Pumped Storage/Other 2/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	0.2%
Total	70.18	70.81	71.99	72.99	73.90	75.02	76.01	77.17	78.37	79.72	80.88	0.9%
Mid-America Interconnected Network												
Coal Steam	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	0.0%
Other Fossil Steam 1/	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	-5.8%
Combined Cycle	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.31	4.47	4.47	4.47	1.8%
Combustion Turbine/ Diesel	16.88	17.59	18.26	19.07	19.87	20.79	21.54	22.24	22.88	23.82	24.64	1.8%
Nuclear Power	14.67	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	0.2%
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	1.10	1.10	1.10	1.10	1.10	1.10	1.15	1.21	1.29	1.38	1.45	1.5%
Total	67.71	68.70	69.42	70.28	71.12	72.09	72.94	73.92	74.96	76.17	77.21	0.5%
Mid-Continent Area Power Pool												
Coal Steam	20.37	20.79	20.80	20.80	20.80	20.80	21.15	21.46	21.72	21.98	22.35	0.8%
Other Fossil Steam 1/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	-0.3%
Combined Cycle	0.93	0.93	0.93	0.93	0.93	0.93	0.93	1.12	1.30	1.30	1.30	2.9%
Combustion Turbine/ Diesel	8.71	9.68	10.54	11.04	11.19	10.97	10.97	11.62	12.30	12.67	12.85	2.5%
Nuclear Power	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	0.0%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.92	4.96	4.98	4.98	0.7%
Total	38.65	40.06	40.96	41.50	41.67	41.49	41.86	43.06	44.27	44.95	45.53	1.2%
Northeast Power Coordinating Council/ New York												
Coal Steam	3.83	3.83	3.83	3.83	3.83	3.83	4.18	4.60	5.11	5.61	5.98	2.0%
Other Fossil Steam 1/	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	-0.7%

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Combined Cycle	6.44	6.63	6.95	7.33	7.63	8.02	8.02	8.02	8.02	8.02	8.06	2.1%
Combustion Turbine/ Diesel	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.65	4.71	0.0%
Nuclear Power	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	0.0%
Pumped Storage/Other 2/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Renewable Sources 3/	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	0.4%
Total	37.30	37.49	37.81	38.19	38.49	38.88	39.24	39.67	40.19	40.73	41.21	0.4%
Northeast Power Coordinating Council/ New Engl												
Coal Steam	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	3.42	0.8%
Other Fossil Steam 1/	4.05	4.05	4.05	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	-2.8%
Combined Cycle	10.59	10.78	11.26	11.84	12.31	12.82	13.31	13.69	14.22	14.84	14.84	1.8%
Combustion Turbine/ Diesel	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.97	2.97	2.99	3.01	1.2%
Nuclear Power	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	0.0%
Pumped Storage/Other 2/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	2.88	3.47	3.50	3.53	3.56	3.61	3.66	3.69	3.74	3.74	3.74	1.4%
Total	29.20	30.00	30.53	31.08	31.62	32.19	32.75	33.35	33.95	34.63	35.23	0.5%
Southeastern Electric Reliability Council/ Florida												
Coal Steam	10.96	11.24	11.52	11.92	11.92	11.92	13.17	14.87	16.26	17.46	18.68	2.2%
Other Fossil Steam 1/	10.76	10.76	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	-0.4%
Combined Cycle	16.92	17.82	18.62	19.81	20.68	21.82	21.82	21.82	21.82	22.16	22.53	4.2%
Combustion Turbine/ Diesel	14.05	14.05	14.04	14.00	14.19	14.24	14.22	13.97	13.97	13.62	13.54	1.3%
Nuclear Power	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	0.0%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	0.75	0.75	0.83	0.94	1.01	1.15	1.15	1.15	1.15	1.33	1.51	4.7%
Total	57.36	58.57	59.21	60.88	62.02	63.38	64.61	66.08	67.50	68.90	70.63	1.9%
Southeastern Electric Reliability Council/ excludin												
Coal Steam	71.29	71.61	72.10	74.47	76.16	79.96	83.27	87.06	90.15	92.72	94.93	1.3%
Other Fossil Steam 1/	17.56	17.56	17.48	17.48	17.37	17.37	17.37	17.37	17.37	17.37	17.37	-0.4%
Combined Cycle	40.77	42.40	42.90	42.90	43.09	43.09	43.09	43.09	43.29	43.29	43.61	1.5%
Combustion Turbine/ Diesel	33.55	34.96	37.17	38.18	39.52	39.52	39.52	39.52	40.21	42.44	43.96	1.6%
Nuclear Power	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	34.35	0.3%
Pumped Storage/Other 2/	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	12.68	12.68	12.68	12.68	12.74	12.77	12.77	12.77	12.86	12.91	13.03	0.3%
Total	217.38	220.73	223.86	227.24	230.41	234.24	237.55	241.34	245.40	250.26	254.42	1.0%
Southwest Power Pool												
Coal Steam	21.11	21.64	21.64	22.18	22.51	23.00	23.00	23.06	23.97	25.04	25.70	0.8%
Other Fossil Steam 1/	8.08	8.08	8.08	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02	-2.1%
Combined Cycle	11.62	11.94	12.77	12.77	12.77	12.98	12.98	12.98	12.98	13.23	13.23	1.0%
Combustion Turbine/ Diesel	7.31	7.31	7.28	9.19	9.53	10.13	9.61	10.13	10.13	11.71	12.03	2.6%
Nuclear Power	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	0.1%
Pumped Storage/Other 2/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	3.18	3.18	3.18	3.18	3.19	3.23	3.24	3.24	3.24	3.31	3.31	0.6%
Total	52.97	53.84	54.64	57.03	57.71	59.04	58.53	59.12	60.03	62.99	63.97	0.6%
Western Electricity Coordinating Council/ Northwe												
Coal Steam	11.59	11.59	11.59	11.59	11.59	11.59	11.59	11.61	12.76	12.76	13.81	0.8%
Other Fossil Steam 1/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-16.1%
Combined Cycle	5.17	6.52	7.86	9.32	10.41	10.58	10.58	10.72	10.72	10.72	10.72	5.3%
Combustion Turbine/ Diesel	1.72	1.72	1.72	1.72	1.91	3.13	4.30	5.33	5.52	6.93	7.10	5.0%
Nuclear Power	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	0.0%

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	36.56	36.70	36.87	37.06	37.36	37.58	37.88	38.18	38.26	38.31	38.55	0.3%
Total	56.50	58.00	59.54	61.21	62.84	64.50	66.03	67.70	69.32	71.00	72.68	1.2%
Western Electricity Coordinating Council/ Rocky M Area and Arizona-New Mexico-Southern Nevada												
Coal Steam	18.01	19.13	20.29	21.53	22.69	23.80	24.82	25.96	27.23	28.53	29.53	2.9%
Other Fossil Steam 1/	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	-1.0%
Combined Cycle	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	1.1%
Combustion Turbine/ Diesel	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.54	0.3%
Nuclear Power	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.0%
Pumped Storage/Other 2/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	6.94	6.95	6.95	6.96	6.96	6.96	6.97	6.97	6.97	7.10	7.17	0.3%
Total	53.18	54.31	55.47	56.71	57.87	59.05	60.12	61.32	62.65	64.15	65.67	1.5%
Western Electricity Coordinating Council/ Californ												
Coal Steam	7.98	8.48	10.28	10.28	12.08	13.91	15.68	17.55	19.46	21.25	23.07	7.8%
Other Fossil Steam 1/	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	-0.1%
Combined Cycle	14.93	16.21	16.21	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	3.0%
Combustion Turbine/ Diesel	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	7.09	7.21	0.2%
Nuclear Power	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	0.0%
Pumped Storage/Other 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	15.50	15.51	15.52	15.53	15.60	15.71	15.76	15.77	15.98	16.33	16.66	0.5%
Total	71.50	73.28	75.09	77.10	78.97	80.95	82.80	84.77	86.98	89.34	91.71	1.8%

Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (Gigawatts)

1/ Includes oil-, gas-, and dual-fired capacity.

2/ Other includes methane, propane, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

3/ Renewable sources include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators. Values represent net summer capacity, which is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Sources: 2003 utility: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," 2002 (preliminary). Other 2003 and projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 76. Renewable Energy Generation by Fuel East Central Area Reliability Coordination Agreement

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.25	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Wood and Other Biomass 4/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Total	1.62	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.69	4.16	2.43	2.74	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	1.15	1.15	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Wood and Other Biomass 4/	1.04	1.03	2.41	2.39	2.58	2.69	3.28	4.01	4.94	5.00	5.25	5.49	5.86
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total	5.87	6.33	6.40	6.69	7.00	7.11	7.70	8.43	9.36	9.41	9.66	9.91	10.27
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.04	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.01	0.01	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.07
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.07	0.08	0.08	0.08	0.08	0.09	0.10	0.11	0.11	0.11	0.11	0.12
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.13	0.13	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.16	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.07	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Wood and Other Biomass 4/	1.29	1.22	1.30	1.37	1.39	1.41	1.45	1.48	1.50	1.52	1.54	1.56	1.58
Solar Photovoltaic 5/	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04
Total	1.53	1.57	1.67	1.74	1.76	1.79	1.83	1.87	1.89	1.92	1.94	1.95	1.98
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 76. Renewable Energy Generation by Fuel East Central Area Reliability Coordination Agreement

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Table 76. Renewable Energy Generation by Fuel East Central Area Reliability Coordination Agreement

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Wood and Other Biomass 4/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.25	0.30	0.30	2.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.08	0.08	0.08	0.08	0.14	0.24	0.27	0.27	0.27	0.27	0.27	6.3%
Total	1.75	1.75	1.75	1.75	1.81	1.91	1.94	1.94	1.99	2.05	2.05	0.8%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	-1.7%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.5%
Wood and Other Biomass 4/	6.05	6.02	5.84	6.14	6.20	6.16	6.03	5.94	4.92	5.25	4.84	7.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.26	0.26	0.26	0.26	0.46	0.81	0.95	0.95	0.95	0.95	0.95	N/A
Total	10.46	10.44	10.26	10.56	10.82	11.12	11.14	11.05	10.03	10.36	9.95	2.1%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.7%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.5%
Wood and Other Biomass 4/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	7.9%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Total	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.12	0.11	0.12	0.11	2.2%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	2.3%
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.06	17.0%
Total	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.30	0.31	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.8%
Wood and Other Biomass 4/	1.61	1.62	1.65	1.69	1.73	1.77	1.81	1.84	1.87	1.90	1.92	2.1%
Solar Photovoltaic 5/	0.04	0.04	0.05	0.06	0.07	0.07	0.09	0.10	0.12	0.14	0.17	16.9%
Total	2.01	2.02	2.06	2.11	2.16	2.20	2.25	2.29	2.35	2.39	2.44	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 76. Renewable Energy Generation by Fuel East Central Area Reliability Coordination Agreement

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.5%

Table 76. Renewable Energy Generation by Fuel East Central Area Reliability Coordination Agreement

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 77. Renewable Energy Generation by Fuel Electric Reliability Council of Texas

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.05	0.08	0.08	0.09	0.10	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Wind	1.23	1.42	1.52	1.67	1.83	1.98	2.13	2.29	2.29	2.29	2.29	2.29	2.29
Total	1.84	2.07	2.16	2.33	2.49	2.65	2.81	2.98	2.98	2.98	2.98	2.98	2.98
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.73	0.67	0.64	0.73	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.11	0.07	0.56	0.61	0.66	0.71	0.77	0.82	0.82	0.82	0.82	0.82	0.82
Wood and Other Biomass 4/	0.00	0.00	0.04	0.09	0.03	0.28	0.07	0.13	0.17	0.17	0.17	0.35	0.40
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04
Wind	2.38	2.26	4.39	4.90	5.41	5.93	6.44	6.95	6.95	6.95	6.95	6.95	6.95
Total	3.22	3.00	5.64	6.34	6.89	7.70	8.05	8.68	8.72	8.72	8.73	8.91	8.97
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.02	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total	0.03	0.03	0.06	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.15	0.15	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.24
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 77. Renewable Energy Generation by Fuel Electric Reliability Council of Texas

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 77. Renewable Energy Generation by Fuel Electric Reliability Council of Texas

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.8%
Wood and Other Biomass 4/	0.00	0.00	0.05	0.05	0.05	0.10	0.20	0.20	0.20	0.29	0.39	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	8.4%
Wind	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.2%
Total	2.99	2.99	3.04	3.04	3.05	3.10	3.19	3.20	3.20	3.29	3.39	2.3%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	12.2%
Wood and Other Biomass 4/	0.40	0.25	0.34	0.39	0.42	0.59	1.08	1.29	1.59	1.84	2.39	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	N/A
Wind	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	5.2%
Total	8.98	8.83	8.92	8.98	9.01	9.19	9.68	9.90	10.20	10.45	11.01	6.1%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.2%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	5.2%
Total	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	6.0%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.8%
Wood and Other Biomass 4/	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	2.1%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	16.9%
Total	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.29	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 77. Renewable Energy Generation by Fuel Electric Reliability Council of Texas

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%

Table 77. Renewable Energy Generation by Fuel Electric Reliability Council of Texas

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 78. Renewable Energy Generation by Fuel Mid-Atlantic Area Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.03	0.07	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Total	1.89	1.92	1.92	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.58	5.25	3.92	4.43	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	3.63	3.68	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
Wood and Other Biomass 4/	0.46	0.43	1.88	2.32	2.77	3.12	3.24	3.29	4.42	4.89	4.69	4.70	4.94
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.06	0.07	0.18	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Total	7.73	9.43	10.37	11.50	12.14	12.49	12.61	12.66	13.79	14.25	14.06	14.07	14.31
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.04	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass 4/	0.00	0.00	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.09	0.11	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.08	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.61	0.58	0.62	0.65	0.66	0.67	0.68	0.70	0.71	0.72	0.73	0.74	0.75
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Total	0.72	0.74	0.79	0.82	0.83	0.84	0.86	0.88	0.90	0.91	0.92	0.92	0.94
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 78. Renewable Energy Generation by Fuel Mid-Atlantic Area Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 78. Renewable Energy Generation by Fuel Mid-Atlantic Area Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	3.1%
Total	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	0.2%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	-0.6%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	0.8%
Wood and Other Biomass 4/	4.94	4.95	4.82	4.92	4.92	4.94	4.93	4.93	4.90	4.87	4.62	11.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	7.9%
Total	14.30	14.32	14.19	14.28	14.29	14.31	14.30	14.30	14.27	14.24	13.99	1.8%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.6%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.8%
Wood and Other Biomass 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	12.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.9%
Total	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	1.8%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	2.3%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	17.0%
Total	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.8%
Wood and Other Biomass 4/	0.76	0.77	0.78	0.80	0.82	0.84	0.85	0.87	0.88	0.90	0.91	2.1%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	16.9%
Total	0.95	0.96	0.97	1.00	1.02	1.04	1.06	1.09	1.11	1.13	1.16	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 78. Renewable Energy Generation by Fuel Mid-Atlantic Area Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	1.5%

Table 78. Renewable Energy Generation by Fuel Mid-Atlantic Area Council

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 79. Renewable Energy Generation by Fuel Mid-America Interconnected Network

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.03	0.09	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Total	0.98	1.04	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	3.34	2.55	1.77	2.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	1.20	1.11	2.40	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
Wood and Other Biomass 4/	0.00	0.00	0.02	0.03	0.13	0.29	0.29	0.45	0.47	0.64	0.69	0.91	0.94
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.11	0.22	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Total	4.65	3.87	4.51	4.76	4.94	5.10	5.10	5.27	5.28	5.45	5.50	5.72	5.76
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.15	0.15	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.20
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Total	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.25	0.25	0.25	0.26
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.15	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.07	0.07	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Wood and Other Biomass 4/	1.16	1.10	1.17	1.23	1.25	1.27	1.30	1.33	1.35	1.37	1.39	1.40	1.42
Solar Photovoltaic 5/	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04
Total	1.37	1.41	1.50	1.56	1.58	1.61	1.64	1.68	1.70	1.72	1.74	1.75	1.78
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 79. Renewable Energy Generation by Fuel Mid-America Interconnected Network

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03

Table 79. Renewable Energy Generation by Fuel Mid-America Interconnected Network

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.1%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.19	0.28	0.35	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2.1%
Total	1.10	1.10	1.10	1.10	1.10	1.10	1.15	1.21	1.29	1.38	1.45	1.5%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	-0.9%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	3.6%
Wood and Other Biomass 4/	0.82	0.83	0.83	0.90	0.78	0.81	0.85	1.06	1.32	1.69	2.21	41.9%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	1.8%
Total	5.63	5.64	5.64	5.71	5.60	5.62	5.66	5.88	6.13	6.51	7.03	2.7%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.9%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3.6%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	41.1%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8%
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	2.6%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24	2.3%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.07	17.0%
Total	0.26	0.27	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.8%
Wood and Other Biomass 4/	1.44	1.45	1.49	1.52	1.56	1.59	1.62	1.65	1.68	1.70	1.72	2.1%
Solar Photovoltaic 5/	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.11	0.13	0.15	16.9%
Total	1.80	1.82	1.85	1.89	1.94	1.98	2.02	2.06	2.11	2.15	2.19	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 79. Renewable Energy Generation by Fuel Mid-America Interconnected Network

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.5%

Table 79. Renewable Energy Generation by Fuel Mid-America Interconnected Network

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 80. Renewable Energy Generation by Fuel Mid-Continent Area Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
Wood and Other Biomass 4/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.85	1.09	1.12	1.62	1.64	1.65	1.67	1.69	1.71	1.71	1.71	1.71	1.71
Total	4.02	4.26	4.29	4.79	4.81	4.83	4.84	4.86	4.88	4.88	4.88	4.88	4.88
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	10.01	9.71	11.42	12.88	13.41	13.41	13.41	13.41	13.41	13.41	13.41	13.41	13.41
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.95	0.93	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.76
Wood and Other Biomass 4/	0.03	0.04	0.70	0.70	0.70	0.70	0.70	0.75	0.75	0.77	0.78	0.80	0.78
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	1.85	1.99	2.93	4.50	4.55	4.61	4.67	4.73	4.79	4.80	4.80	4.80	4.80
Total	12.83	12.67	15.78	18.81	19.39	19.45	19.51	19.62	19.68	19.71	19.72	19.75	19.75
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.10	0.10	0.12	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.02	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	0.14	0.13	0.17	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.12	0.12	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.21	0.21	0.21
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.09	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.71	0.67	0.71	0.75	0.76	0.77	0.79	0.81	0.82	0.83	0.84	0.85	0.87
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Total	0.84	0.86	0.91	0.95	0.96	0.98	1.00	1.02	1.04	1.05	1.06	1.07	1.08
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 80. Renewable Energy Generation by Fuel Mid-Continent Area Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02

Table 80. Renewable Energy Generation by Fuel Mid-Continent Area Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.1%
Wood and Other Biomass 4/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.74	1.79	1.81	1.81	2.3%
Total	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.92	4.96	4.98	4.98	0.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	13.41	13.41	13.41	13.41	13.41	13.41	13.41	13.41	13.41	13.41	13.41	1.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	-0.9%
Wood and Other Biomass 4/	0.72	0.72	0.72	0.72	0.71	0.71	0.70	0.70	0.70	0.70	0.70	13.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.93	5.09	5.15	5.15	4.4%
Total	19.69	19.69	19.69	19.69	19.68	19.68	19.67	19.80	19.96	20.02	20.02	2.1%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.6%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	4.4%
Total	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	2.1%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	2.3%
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.05	17.0%
Total	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.28	0.29	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.8%
Wood and Other Biomass 4/	0.88	0.89	0.90	0.93	0.95	0.97	0.99	1.00	1.02	1.04	1.05	2.1%
Solar Photovoltaic 5/	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	16.9%
Total	1.10	1.11	1.13	1.15	1.18	1.21	1.23	1.26	1.28	1.31	1.34	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 80. Renewable Energy Generation by Fuel Mid-Continent Area Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.5%

Table 80. Renewable Energy Generation by Fuel Mid-Continent Area Power Pool

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 81. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New York

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	4.46	4.53	4.60	4.67	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.05	0.05	0.05	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Total	4.80	4.87	4.94	5.16	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	24.86	24.74	25.35	25.69	26.39	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	1.85	1.77	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
Wood and Other Biomass 4/	0.23	0.23	1.07	2.47	2.65	2.76	2.75	2.78	1.69	1.04	1.17	1.14	0.91
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.08	0.08	0.12	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Total	27.02	26.82	28.36	30.53	31.41	31.78	31.76	31.80	30.71	30.05	30.19	30.15	29.92
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.26	0.25	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.00	0.00	0.01	0.03	0.03	0.03	0.03	0.03	0.02	0.01	0.01	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.28	0.28	0.30	0.32	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.31
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.35	0.33	0.35	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.42	0.42	0.43
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.42	0.43	0.45	0.47	0.48	0.49	0.50	0.51	0.52	0.52	0.53	0.53	0.54
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 81. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New York

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 81. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New York

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wind	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	6.6%
Total	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	0.4%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64	26.64	0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	0.1%
Wood and Other Biomass 4/	0.91	0.90	0.89	0.90	0.90	0.90	0.90	0.89	0.88	0.87	0.86	6.2%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	9.3%
Total	29.93	29.92	29.91	29.91	29.91	29.92	29.91	29.91	29.90	29.89	29.88	0.5%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.1%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.3%
Total	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.5%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	2.3%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	17.0%
Total	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.8%
Wood and Other Biomass 4/	0.44	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.52	2.1%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05	16.9%
Total	0.55	0.55	0.56	0.57	0.59	0.60	0.61	0.63	0.64	0.65	0.67	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 81. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New York

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.5%

Table 81. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New York

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 82. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.61	0.62	0.64	0.64	0.64	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Wood and Other Biomass 4/	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	2.76	2.78	2.79	2.80	2.80	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	5.26	6.14	4.23	4.77	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	4.27	4.07	4.77	4.77	4.77	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76
Wood and Other Biomass 4/	2.77	2.76	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	12.31	12.98	11.42	11.97	12.17	12.17	12.17	12.17	12.17	12.17	12.17	12.17	12.17
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.05	0.06	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Wood and Other Biomass 4/	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.47	0.47	0.51	0.54	0.55	0.56	0.57	0.59	0.60	0.60	0.61	0.62	0.63
Solar Photovoltaic 5/	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05
Total	0.62	0.63	0.67	0.70	0.71	0.73	0.75	0.77	0.79	0.80	0.81	0.82	0.83
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.34	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.15	0.17	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Wood and Other Biomass 4/	2.70	2.56	2.72	2.87	2.90	2.95	3.03	3.10	3.14	3.18	3.23	3.26	3.31
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.08	0.08	0.08	0.08
Total	3.20	3.29	3.48	3.63	3.68	3.74	3.83	3.91	3.96	4.01	4.06	4.09	4.14
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 82. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06

Table 82. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.2%
Wood and Other Biomass 4/	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.8%
Wind	0.08	0.67	0.70	0.72	0.76	0.81	0.85	0.89	0.94	0.94	0.94	21.4%
Total	2.88	3.47	3.50	3.53	3.56	3.61	3.66	3.69	3.74	3.74	3.74	1.4%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	-1.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.96	4.96	4.96	4.96	0.9%
Wood and Other Biomass 4/	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	-0.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.28	2.48	2.58	2.67	2.80	2.96	3.12	3.24	3.40	3.40	3.40	29.8%
Total	12.59	14.79	14.89	14.98	15.11	15.27	15.43	15.55	15.72	15.72	15.72	0.9%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-1.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.9%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	29.8%
Total	0.16	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	1.2%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.64	0.65	0.66	0.68	0.70	0.72	0.73	0.75	0.76	0.77	0.78	2.3%
Solar Photovoltaic 5/	0.05	0.06	0.06	0.07	0.08	0.09	0.11	0.13	0.15	0.18	0.21	17.0%
Total	0.85	0.85	0.88	0.90	0.93	0.96	0.99	1.02	1.06	1.10	1.14	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.8%
Wood and Other Biomass 4/	3.36	3.39	3.46	3.54	3.63	3.70	3.78	3.84	3.91	3.97	4.01	2.1%
Solar Photovoltaic 5/	0.09	0.09	0.11	0.12	0.14	0.16	0.18	0.21	0.25	0.30	0.35	16.9%
Total	4.20	4.23	4.31	4.41	4.51	4.61	4.71	4.80	4.91	5.01	5.11	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%

Table 82. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	1.5%

Table 82. Renewable Energy Generation by Fuel Northeast Power Coordinating Council/New England

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 83. Renewable Energy Generation by Fuel Florida Reliability Coordinating Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.07	0.07	0.07	0.07	0.13
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.55	0.55	0.55	0.55	0.55	0.57	0.57	0.57	0.62	0.62	0.62	0.62	0.69
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	0.18	0.26	0.20	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	3.32	3.25	3.18	3.18	3.18	3.32	3.32	3.32	3.32	3.32	3.33	3.33	3.33
Wood and Other Biomass 4/	0.29	0.47	0.35	0.48	0.55	0.62	0.73	0.74	0.96	1.13	1.20	1.22	1.53
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.79	3.99	3.73	3.88	3.96	4.17	4.28	4.30	4.52	4.69	4.76	4.78	5.09
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.21
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.10	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass 4/	0.83	0.79	0.83	0.88	0.89	0.91	0.93	0.95	0.96	0.98	0.99	1.00	1.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03
Total	0.98	1.01	1.07	1.11	1.13	1.15	1.17	1.20	1.22	1.23	1.24	1.25	1.27
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 83. Renewable Energy Generation by Fuel Florida Reliability Coordinating Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 83. Renewable Energy Generation by Fuel Florida Reliability Coordinating Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.2%
Wood and Other Biomass 4/	0.19	0.19	0.28	0.39	0.46	0.60	0.60	0.60	0.60	0.77	0.95	20.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.75	0.75	0.83	0.94	1.01	1.15	1.15	1.15	1.15	1.33	1.51	4.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	-0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	0.1%
Wood and Other Biomass 4/	1.91	1.98	2.38	2.99	3.57	4.24	4.60	4.87	5.00	5.47	6.21	12.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	5.47	5.54	5.94	6.55	7.13	7.80	8.16	8.43	8.56	9.03	9.78	4.2%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	12.1%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	3.2%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	2.3%
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	17.0%
Total	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.8%
Wood and Other Biomass 4/	1.03	1.04	1.06	1.09	1.11	1.14	1.16	1.18	1.20	1.22	1.23	2.1%
Solar Photovoltaic 5/	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.11	16.9%
Total	1.29	1.30	1.32	1.35	1.38	1.41	1.44	1.47	1.51	1.54	1.57	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 83. Renewable Energy Generation by Fuel Florida Reliability Coordinating Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.5%

Table 83. Renewable Energy Generation by Fuel Florida Reliability Coordinating Council

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 84. Renewable Energy Generation by Fuel Southeastern Electric Reliability Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.17	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Wood and Other Biomass 4/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.18
Total	12.29	12.29	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.34	12.49
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	27.86	42.02	29.37	33.14	34.55	34.55	34.55	34.55	34.55	34.55	34.55	34.55	34.55
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	1.18	1.35	1.23	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Wood and Other Biomass 4/	1.22	1.09	4.36	5.47	5.75	5.78	6.62	7.25	7.49	7.33	7.02	6.96	7.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.61
Total	30.27	44.46	35.02	39.91	41.60	41.62	42.46	43.09	43.33	43.17	42.87	42.81	43.40
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.29	0.43	0.30	0.34	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.01	0.01	0.07	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total	0.31	0.46	0.39	0.44	0.46	0.46	0.47	0.47	0.48	0.47	0.47	0.47	0.48
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.13	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wood and Other Biomass 4/	2.27	2.27	2.43	2.58	2.62	2.67	2.75	2.82	2.86	2.91	2.95	2.98	3.04
Solar Photovoltaic 5/	0.02	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.22	0.22	0.23	0.23
Total	2.99	3.02	3.20	3.36	3.42	3.50	3.61	3.71	3.80	3.85	3.90	3.93	3.99
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	2.13	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.96	1.08	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Wood and Other Biomass 4/	16.87	16.02	17.01	17.92	18.14	18.45	18.93	19.37	19.61	19.89	20.18	20.36	20.68
Solar Photovoltaic 5/	0.05	0.07	0.10	0.13	0.18	0.24	0.30	0.38	0.48	0.49	0.50	0.51	0.52
Total	20.01	20.55	21.78	22.72	23.00	23.37	23.91	24.43	24.77	25.05	25.36	25.54	25.88
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Table 84. Renewable Energy Generation by Fuel Southeastern Electric Reliability Council

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.27	0.24	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37

Table 84. Renewable Energy Generation by Fuel Southeastern Electric Reliability Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	11.77	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.19	0.19	0.19	0.19	0.19	0.22	0.22	0.22	0.22	0.22	0.22	1.2%
Wood and Other Biomass 4/	0.41	0.41	0.41	0.41	0.46	0.46	0.46	0.46	0.55	0.61	0.71	3.2%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wind	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.34	26.0%
Total	12.68	12.68	12.68	12.68	12.74	12.77	12.77	12.77	12.86	12.91	13.03	0.3%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	34.55	34.55	34.55	34.55	34.55	34.55	34.55	34.55	34.55	34.55	34.55	-0.9%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	1.24	1.24	1.24	1.24	1.24	1.48	1.48	1.48	1.49	1.49	1.49	0.5%
Wood and Other Biomass 4/	7.19	7.36	7.36	7.43	7.52	6.91	7.08	7.02	7.25	6.70	6.14	8.2%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.16	33.5%
Total	44.07	44.24	44.24	44.31	44.41	44.03	44.20	44.15	44.38	43.83	43.34	-0.1%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	-0.9%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.5%
Wood and Other Biomass 4/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	10.1%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	33.5%
Total	0.48	0.49	0.49	0.49	0.49	0.48	0.49	0.48	0.49	0.48	0.47	0.1%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Wood and Other Biomass 4/	3.09	3.12	3.19	3.27	3.36	3.44	3.52	3.58	3.65	3.71	3.76	2.3%
Solar Photovoltaic 5/	0.25	0.26	0.30	0.34	0.39	0.44	0.51	0.60	0.72	0.85	1.00	17.0%
Total	4.06	4.10	4.21	4.34	4.47	4.61	4.75	4.91	5.10	5.29	5.49	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.8%
Wood and Other Biomass 4/	21.02	21.17	21.62	22.12	22.68	23.15	23.62	24.02	24.43	24.79	25.10	2.1%
Solar Photovoltaic 5/	0.55	0.58	0.67	0.76	0.85	0.98	1.12	1.33	1.58	1.86	2.17	16.9%
Total	26.25	26.43	26.96	27.55	28.21	28.81	29.42	30.02	30.69	31.33	31.95	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%

Table 84. Renewable Energy Generation by Fuel Southeastern Electric Reliability Council

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.36	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.37	0.37	0.38	0.38	0.39	0.40	0.40	0.41	0.41	0.42	0.42	1.5%

Table 84. Renewable Energy Generation by Fuel Southeastern Electric Reliability Council

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 85. Renewable Energy Generation by Fuel Southwest Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Wind	0.20	0.38	0.38	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Total	2.72	2.90	2.90	3.15	3.16	3.16	3.16	3.16	3.16	3.16	3.17	3.17	3.17
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	6.33	4.73	4.34	4.90	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.01	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.00	0.00	0.27	0.69	0.65	0.84	0.74	0.81	0.77	0.79	0.79	0.78	0.80
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05
Wind	0.68	0.68	1.18	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
Total	7.02	5.47	5.81	7.54	7.71	7.90	7.81	7.88	7.84	7.87	7.87	7.86	7.90
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.07	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	0.07	0.06	0.06	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.26	0.26	0.28	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Total	0.35	0.35	0.37	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.46
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.24	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.11	0.12	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Wood and Other Biomass 4/	1.93	1.84	1.95	2.05	2.08	2.12	2.17	2.22	2.25	2.28	2.31	2.33	2.37
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.06	0.06	0.06	0.06	0.06
Total	2.29	2.36	2.50	2.61	2.64	2.68	2.74	2.80	2.84	2.87	2.91	2.93	2.97
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 85. Renewable Energy Generation by Fuel Southwest Power Pool

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Table 85. Renewable Energy Generation by Fuel Southwest Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.8%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.11	0.11	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	19.2%
Wind	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	2.4%
Total	3.18	3.18	3.18	3.18	3.19	3.23	3.24	3.24	3.24	3.31	3.31	0.6%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.6%
Wood and Other Biomass 4/	0.80	0.74	0.46	0.39	0.38	0.44	0.26	0.52	0.70	1.03	0.69	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.12	N/A
Wind	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	4.8%
Total	7.92	7.86	7.60	7.53	7.52	7.59	7.42	7.68	7.87	8.21	7.87	1.7%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.6%
Wood and Other Biomass 4/	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.8%
Total	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	1.6%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.36	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.42	0.43	0.44	2.3%
Solar Photovoltaic 5/	0.03	0.03	0.04	0.04	0.04	0.05	0.06	0.07	0.08	0.10	0.12	17.0%
Total	0.47	0.48	0.49	0.50	0.52	0.54	0.55	0.57	0.59	0.61	0.64	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.8%
Wood and Other Biomass 4/	2.41	2.43	2.48	2.54	2.60	2.65	2.71	2.75	2.80	2.84	2.88	2.1%
Solar Photovoltaic 5/	0.06	0.07	0.08	0.09	0.10	0.11	0.13	0.15	0.18	0.21	0.25	16.9%
Total	3.01	3.03	3.09	3.16	3.23	3.30	3.37	3.44	3.52	3.59	3.66	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 85. Renewable Energy Generation by Fuel Southwest Power Pool

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	1.5%

Table 85. Renewable Energy Generation by Fuel Southwest Power Pool

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 86. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Northwest Power Pool Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	35.23	35.23	35.23	35.23	35.23	35.23	35.23	35.23	35.20	35.20	35.20	35.20	35.20
Geothermal 2/	0.19	0.19	0.19	0.20	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.35
Municipal Solid Waste 3/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Wood and Other Biomass 4/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04
Wind	0.40	0.48	0.48	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Total	36.09	36.16	36.17	36.26	36.28	36.28	36.29	36.29	36.26	36.27	36.27	36.28	36.41
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	130.14	120.04	127.78	144.14	150.24	150.24	150.24	150.24	150.08	150.00	150.00	150.00	150.00
Geothermal 2/	1.32	1.27	1.60	1.63	1.69	1.72	1.73	1.73	1.73	1.73	1.73	1.73	2.77
Municipal Solid Waste 3/	0.32	0.30	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Wood and Other Biomass 4/	0.81	0.68	1.10	1.22	1.29	1.19	0.90	0.90	0.91	0.97	1.00	0.99	0.99
Solar Thermal	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03
Solar Photovoltaic 5/	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.07	0.08	0.09	0.10
Wind	0.69	0.84	1.61	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
Total	133.28	123.13	132.80	149.59	155.83	155.76	155.50	155.51	155.36	155.36	155.40	155.41	156.46
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	1.34	1.23	1.31	1.48	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Geothermal 2/	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.07
Municipal Solid Waste 3/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	1.38	1.28	1.39	1.57	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.66
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.29	0.29	0.31	0.33	0.33	0.34	0.35	0.36	0.36	0.37	0.38	0.38	0.39
Solar Photovoltaic 5/	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Total	0.38	0.38	0.41	0.43	0.44	0.44	0.46	0.47	0.48	0.49	0.50	0.50	0.51
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.18	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.08	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Wood and Other Biomass 4/	1.41	1.34	1.42	1.50	1.52	1.54	1.58	1.62	1.64	1.66	1.69	1.70	1.73
Solar Photovoltaic 5/	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04
Total	1.67	1.72	1.82	1.90	1.92	1.96	2.00	2.04	2.07	2.10	2.12	2.14	2.17
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 86. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Northwest Power Pool Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Table 86. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Northwest Power Pool Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	0.0%
Geothermal 2/	0.47	0.60	0.72	0.81	0.97	1.09	1.24	1.36	1.43	1.48	1.57	10.1%
Municipal Solid Waste 3/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.2%
Wood and Other Biomass 4/	0.17	0.17	0.17	0.21	0.25	0.25	0.29	0.35	0.35	0.35	0.41	4.1%
Solar Thermal	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	14.5%
Solar Photovoltaic 5/	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	19.0%
Wind	0.55	0.55	0.60	0.65	0.74	0.83	0.93	1.05	1.05	1.05	1.14	4.1%
Total	36.56	36.70	36.87	37.06	37.36	37.58	37.88	38.18	38.26	38.31	38.55	0.3%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	1.0%
Geothermal 2/	3.80	4.88	5.93	6.77	8.06	9.14	10.38	11.44	12.05	12.50	13.25	11.2%
Municipal Solid Waste 3/	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.89	0.89	0.89	5.2%
Wood and Other Biomass 4/	0.99	0.97	0.99	1.08	1.32	1.44	1.69	1.98	2.12	2.20	2.47	6.1%
Solar Thermal	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	N/A
Solar Photovoltaic 5/	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	N/A
Wind	1.88	1.88	2.06	2.24	2.59	2.92	3.33	3.79	3.79	3.79	4.11	7.5%
Total	157.71	158.77	160.04	161.16	163.06	164.61	166.52	168.34	169.11	169.66	171.02	1.5%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.0%
Geothermal 2/	0.11	0.14	0.17	0.20	0.24	0.28	0.32	0.36	0.38	0.40	0.42	13.4%
Municipal Solid Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.2%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	7.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	7.5%
Total	1.70	1.73	1.77	1.80	1.85	1.89	1.94	1.98	2.00	2.02	2.05	2.2%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.48	2.3%
Solar Photovoltaic 5/	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.08	0.09	0.11	0.13	17.0%
Total	0.52	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.65	0.67	0.70	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.8%
Wood and Other Biomass 4/	1.76	1.77	1.81	1.85	1.90	1.94	1.98	2.01	2.04	2.07	2.10	2.1%
Solar Photovoltaic 5/	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.11	0.13	0.16	0.18	16.9%
Total	2.20	2.21	2.26	2.31	2.36	2.41	2.46	2.51	2.57	2.62	2.67	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 86. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Northwest Power Pool Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	1.5%

Table 86. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Northwest Power Pool Area

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam)

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid

7/ Represents own-use industrial hydroelectric power

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a

Table 87. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40
Geothermal 2/	0.32	0.32	0.32	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Municipal Solid Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07
Wind	0.39	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Total	6.14	6.66	6.68	6.88	6.91	6.91	6.91	6.92	6.92	6.93	6.93	6.94	6.94
Electricity Generation (billion kilowatt-hours)													
Conventional Hydropower	13.12	12.05	12.73	14.34	14.94	14.94	14.94	14.94	14.94	14.94	14.94	14.94	14.94
Geothermal 2/	2.46	2.39	2.66	3.05	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18
Municipal Solid Waste 3/	0.12	0.09	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Wood and Other Biomass 4/	0.00	0.00	0.04	0.05	0.06	0.17	0.26	0.27	0.30	0.28	0.23	0.22	0.22
Solar Thermal	0.00	0.00	0.00	0.12	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18
Solar Photovoltaic 5/	0.00	0.00	0.04	0.04	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14
Wind	0.92	1.14	2.99	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
Total	16.62	15.68	18.68	21.14	21.95	22.07	22.17	22.20	22.24	22.23	22.19	22.20	22.21
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.13	0.12	0.13	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Geothermal 2/	0.05	0.05	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Municipal Solid Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.20	0.19	0.22	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Generation (billion kilowatt-hours)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy Consumption													

Table 87. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
(quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 87. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	0.0%
Geothermal 2/	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.43	0.48	1.9%
Municipal Solid Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.3%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.07	15.4%
Solar Thermal	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	N/A
Solar Photovoltaic 5/	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	10.0%
Wind	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.04	0.7%
Total	6.94	6.95	6.95	6.96	6.96	6.96	6.97	6.97	6.97	7.10	7.17	0.3%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	14.94	14.94	14.94	14.94	14.94	14.94	14.94	14.94	14.94	14.94	14.94	1.0%
Geothermal 2/	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.59	3.99	2.4%
Municipal Solid Waste 3/	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	4.2%
Wood and Other Biomass 4/	0.22	0.28	0.22	0.28	0.14	0.14	0.14	0.06	0.06	0.30	0.38	N/A
Solar Thermal	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	N/A
Solar Photovoltaic 5/	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.21	0.22	0.22	N/A
Wind	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.37	3.45	5.2%
Total	22.22	22.29	22.24	22.31	22.18	22.19	22.20	22.13	22.14	22.87	23.43	1.8%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	1.0%
Geothermal 2/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.09	0.10	3.0%
Municipal Solid Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	5.2%
Total	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.30	2.1%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.9%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	2.0%
Energy Consumption												

Table 87. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

(quadrillion Btu)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%

Table 87. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 88. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/California

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	10.14	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16
Geothermal 2/	1.67	1.67	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.68	1.76	1.78
Municipal Solid Waste 3/	0.33	0.35	0.37	0.37	0.40	0.40	0.40	0.40	0.48	0.48	0.48	0.48	0.48
Wood and Other Biomass 4/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.43	0.43
Solar Thermal	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40
Solar Photovoltaic 5/	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06
Wind	1.81	2.00	2.00	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.13	2.16	2.16
Total	14.74	14.97	14.94	15.05	15.08	15.08	15.09	15.09	15.18	15.18	15.28	15.44	15.47
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	30.09	35.22	32.43	36.57	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10
Geothermal 2/	10.64	9.31	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.82	8.44	8.66
Municipal Solid Waste 3/	2.03	2.11	2.59	2.61	2.81	2.81	2.81	2.81	3.43	3.44	3.45	3.46	3.46
Wood and Other Biomass 4/	2.91	2.66	2.35	2.35	2.35	2.35	2.35	2.35	2.36	2.36	2.36	2.55	2.62
Solar Thermal	0.55	0.53	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63
Solar Photovoltaic 5/	0.00	0.00	0.05	0.05	0.06	0.07	0.08	0.08	0.09	0.10	0.11	0.12	0.14
Wind	3.57	3.45	5.07	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.50	5.60	5.60
Total	49.80	53.27	50.28	54.80	56.55	56.56	56.57	56.59	57.23	57.25	57.97	58.90	59.20
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	0.31	0.36	0.33	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Geothermal 2/	0.22	0.20	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.18	0.20	0.20
Municipal Solid Waste 3/	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.04	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	0.63	0.65	0.63	0.67	0.69	0.69	0.69	0.69	0.70	0.70	0.72	0.74	0.75
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.15	0.15	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Total	0.20	0.20	0.21	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.26	0.26	0.27
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	0.13	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.06	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Wood and Other Biomass 4/	1.03	0.98	1.04	1.10	1.11	1.13	1.16	1.18	1.20	1.22	1.23	1.24	1.26
Solar Photovoltaic 5/	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Total	1.22	1.26	1.33	1.39	1.41	1.43	1.46	1.49	1.51	1.53	1.55	1.56	1.58
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 88. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/California

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 88. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/California

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	0.0%
Geothermal 2/	1.81	1.81	1.81	1.81	1.88	1.98	2.03	2.03	2.23	2.40	2.57	2.0%
Municipal Solid Waste 3/	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	1.5%
Wood and Other Biomass 4/	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.53	0.58	1.8%
Solar Thermal	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.3%
Solar Photovoltaic 5/	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.12	9.0%
Wind	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.23	2.33	0.7%
Total	15.50	15.51	15.52	15.53	15.60	15.71	15.76	15.77	15.98	16.33	16.66	0.5%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	0.4%
Geothermal 2/	8.87	8.87	8.87	8.87	9.42	10.25	10.67	10.68	12.35	13.81	15.25	2.3%
Municipal Solid Waste 3/	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.47	3.49	2.3%
Wood and Other Biomass 4/	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	3.08	3.45	1.2%
Solar Thermal	0.64	0.64	0.65	0.66	0.66	0.67	0.67	0.68	0.68	0.69	0.69	1.2%
Solar Photovoltaic 5/	0.15	0.17	0.19	0.20	0.22	0.23	0.25	0.26	0.28	0.30	0.31	25.8%
Wind	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.86	6.18	2.7%
Total	59.50	59.52	59.55	59.57	60.14	60.99	61.43	61.46	63.15	65.31	67.48	1.1%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.4%
Geothermal 2/	0.21	0.21	0.21	0.21	0.23	0.25	0.27	0.27	0.32	0.36	0.41	3.4%
Municipal Solid Waste 3/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	2.3%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	2.8%
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.2%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.8%
Wind	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	2.7%
Total	0.76	0.76	0.76	0.76	0.77	0.80	0.81	0.81	0.87	0.92	0.97	1.8%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25	2.3%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.07	17.0%
Total	0.27	0.28	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	0.37	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.8%
Wood and Other Biomass 4/	1.28	1.29	1.32	1.35	1.39	1.41	1.44	1.47	1.49	1.52	1.53	2.1%
Solar Photovoltaic 5/	0.03	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.10	0.11	0.13	16.9%
Total	1.60	1.62	1.65	1.68	1.72	1.76	1.80	1.83	1.88	1.91	1.95	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

Table 88. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/California

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	1.5%

Table 88. Renewable Energy Generation by Fuel Western Electricity Coordinating Council/California

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 89. Renewable Energy Generation by Fuel United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Electric Power Sector 1/													
Generating Capacity (gigawatts)													
Conventional Hydropower	77.80	77.93	78.00	78.07	78.21	78.21	78.21	78.21	78.18	78.18	78.18	78.18	78.18
Geothermal 2/	2.17	2.18	2.12	2.19	2.21	2.21	2.21	2.21	2.21	2.21	2.28	2.36	2.51
Municipal Solid Waste 3/	3.26	3.34	3.41	3.41	3.45	3.47	3.48	3.49	3.57	3.57	3.57	3.57	3.58
Wood and Other Biomass 4/	1.77	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.83	1.83	1.83	1.88	1.94
Solar Thermal	0.39	0.39	0.39	0.44	0.44	0.44	0.45	0.45	0.45	0.46	0.46	0.46	0.47
Solar Photovoltaic 5/	0.03	0.04	0.05	0.07	0.10	0.11	0.12	0.13	0.15	0.16	0.18	0.19	0.21
Wind	5.01	6.56	6.77	8.18	8.35	8.53	8.70	8.87	8.88	8.88	8.90	8.93	9.08
Total	90.42	92.21	92.52	94.14	94.55	94.75	94.95	95.14	95.27	95.29	95.41	95.58	95.96
Electricity Generation (billion kilowatthours)													
Conventional Hydropower	260.67	269.29	258.38	288.35	300.11	300.42	300.47	300.52	300.39	300.37	300.41	300.46	300.50
Geothermal 2/	14.49	13.15	11.65	12.07	12.26	12.29	12.32	12.32	12.33	12.33	12.96	13.58	14.83
Municipal Solid Waste 3/	20.46	20.28	24.23	24.34	24.61	24.81	24.88	24.94	25.58	25.60	25.62	25.63	25.66
Wood and Other Biomass 4/	9.74	9.40	16.95	20.64	21.89	23.15	24.30	26.12	27.61	27.73	27.71	28.49	29.37
Solar Thermal	0.55	0.53	0.60	0.72	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84
Solar Photovoltaic 5/	0.00	0.00	0.12	0.15	0.20	0.22	0.25	0.28	0.32	0.36	0.39	0.43	0.48
Wind	10.35	10.73	19.16	23.55	24.11	24.68	25.25	25.83	25.89	25.90	25.97	26.07	26.62
Total	316.27	323.38	331.09	369.82	383.94	386.35	388.25	390.80	392.90	393.09	393.88	395.48	398.31
Energy Consumption (quadrillion Btu)													
Conventional Hydropower	2.68	2.77	2.66	2.96	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
Geothermal 2/	0.30	0.28	0.25	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.29	0.31	0.35
Municipal Solid Waste 3/	0.28	0.28	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35
Wood and Other Biomass 4/	0.10	0.09	0.25	0.29	0.30	0.32	0.32	0.34	0.36	0.36	0.36	0.37	0.38
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.11	0.11	0.20	0.24	0.25	0.25	0.26	0.27	0.27	0.27	0.27	0.27	0.27
Total	3.47	3.53	3.69	4.10	4.25	4.28	4.29	4.32	4.34	4.35	4.37	4.40	4.45
End-Use Generators 6/													
Generating Capacity (gigawatts)													
Conventional Hydropower 7/	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.22	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Wood and Other Biomass 4/	4.08	4.08	4.37	4.64	4.70	4.80	4.94	5.07	5.14	5.22	5.31	5.36	5.45
Solar Photovoltaic 5/	0.04	0.06	0.08	0.10	0.14	0.19	0.24	0.31	0.39	0.39	0.40	0.41	0.42
Total	5.37	5.43	5.74	6.04	6.14	6.28	6.48	6.67	6.82	6.91	7.00	7.06	7.17
Electricity Generation (billion kilowatthours)													
Conventional Hydropower 7/	3.67	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	1.65	1.86	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Wood and Other Biomass 4/	29.04	27.59	29.29	30.85	31.24	31.77	32.60	33.35	33.76	34.24	34.75	35.05	35.61
Solar Photovoltaic 5/	0.09	0.12	0.16	0.22	0.30	0.41	0.52	0.66	0.83	0.84	0.86	0.88	0.89
Total	34.45	35.39	37.51	39.12	39.60	40.23	41.18	42.07	42.64	43.14	43.67	43.98	44.56
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

Table 89. Renewable Energy Generation by Fuel United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.46	0.42	0.44	0.46	0.47	0.47	0.48	0.49	0.50	0.51	0.51	0.52	0.52
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.54	0.53	0.55	0.57	0.57	0.58	0.59	0.60	0.61	0.61	0.62	0.62	0.63

Table 89. Renewable Energy Generation by Fuel United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 1/												
Generating Capacity (gigawatts)												
Conventional Hydropower	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	0.0%
Geothermal 2/	2.66	2.78	2.91	3.00	3.22	3.45	3.64	3.76	4.03	4.31	4.62	3.5%
Municipal Solid Waste 3/	3.63	3.63	3.63	3.63	3.63	3.66	3.66	3.66	3.66	3.66	3.67	0.4%
Wood and Other Biomass 4/	2.06	2.06	2.19	2.35	2.51	2.75	2.94	3.06	3.27	3.95	4.50	4.3%
Solar Thermal	0.47	0.47	0.48	0.48	0.49	0.49	0.50	0.50	0.50	0.51	0.51	1.3%
Solar Photovoltaic 5/	0.23	0.25	0.26	0.28	0.30	0.32	0.33	0.35	0.37	0.39	0.40	10.9%
Wind	9.29	9.88	9.95	10.03	10.21	10.45	10.64	10.83	10.92	11.04	11.25	2.5%
Total	96.50	97.24	97.60	97.94	98.53	99.29	99.88	100.34	100.94	102.03	103.13	0.5%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower	300.55	300.60	300.65	300.70	300.75	300.81	300.85	300.91	300.97	301.03	301.09	0.5%
Geothermal 2/	16.09	17.17	18.23	19.07	20.91	22.83	24.50	25.57	27.85	30.18	32.78	4.2%
Municipal Solid Waste 3/	26.07	26.08	26.09	26.10	26.11	26.36	26.37	26.38	26.41	26.44	26.49	1.2%
Wood and Other Biomass 4/	30.01	30.06	29.92	31.19	31.93	32.35	33.32	34.33	34.51	36.38	37.35	6.5%
Solar Thermal	0.86	0.87	0.88	0.89	0.91	0.92	0.94	0.95	0.96	0.98	0.99	2.9%
Solar Photovoltaic 5/	0.52	0.56	0.61	0.65	0.70	0.74	0.78	0.83	0.87	0.92	0.96	30.0%
Wind	27.34	29.55	29.82	30.09	30.77	31.61	32.32	33.03	33.36	33.74	34.52	5.5%
Total	401.44	404.88	406.20	408.71	412.08	415.61	419.09	422.01	424.93	429.68	434.19	1.3%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.10	0.5%
Geothermal 2/	0.39	0.42	0.46	0.49	0.55	0.61	0.66	0.70	0.77	0.84	0.92	5.6%
Municipal Solid Waste 3/	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	1.2%
Wood and Other Biomass 4/	0.38	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.43	7.3%
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.9%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	30.0%
Wind	0.28	0.30	0.31	0.31	0.32	0.32	0.33	0.34	0.34	0.35	0.35	5.5%
Total	4.51	4.57	4.61	4.65	4.72	4.80	4.88	4.93	5.00	5.09	5.19	1.8%
End-Use Generators 6/												
Generating Capacity (gigawatts)												
Conventional Hydropower 7/	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%
Wood and Other Biomass 4/	5.55	5.60	5.73	5.88	6.04	6.18	6.32	6.44	6.56	6.67	6.75	2.3%
Solar Photovoltaic 5/	0.44	0.47	0.54	0.62	0.69	0.80	0.91	1.08	1.30	1.53	1.80	17.0%
Total	7.30	7.37	7.57	7.79	8.03	8.27	8.53	8.82	9.15	9.50	9.85	2.7%
Electricity Generation (billion kilowatthours)												
Conventional Hydropower 7/	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	0.8%
Wood and Other Biomass 4/	36.19	36.44	37.22	38.08	39.04	39.86	40.67	41.35	42.07	42.69	43.21	2.1%
Solar Photovoltaic 5/	0.95	1.01	1.15	1.31	1.47	1.68	1.93	2.28	2.72	3.20	3.74	16.9%
Total	45.20	45.50	46.43	47.44	48.56	49.60	50.66	51.69	52.84	53.94	55.00	2.0%
Energy Consumption (quadrillion Btu)												
Conventional Hydropower 7/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%

Table 89. Renewable Energy Generation by Fuel United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Wood and Other Biomass 4/	0.53	0.53	0.54	0.55	0.57	0.58	0.59	0.60	0.60	0.61	0.62	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.64	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	1.5%

Table 89. Renewable Energy Generation by Fuel United States

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2002, EIA estimates that as much as 134 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2002, plus an additional 362 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Annual Energy Review 2003, Table 10.6 (annual PV shipments 1989-2002). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 generation: EIA, Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization (Million Barrels per Day)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
PAD District I													
Base Capacity	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Capacity Additions	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Capacity	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Utilization	89.0	93.0	93.0	95.0	93.3	89.8	93.3	93.3	93.3	93.3	93.3	93.3	93.3
PAD District II													
Base Capacity	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2
Total Capacity	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.7	3.7	3.7	3.7	3.7
Utilization	90.0	92.0	92.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
PAD District III													
Base Capacity	7.8	7.8	7.9	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Capacity Additions	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.8	1.0	1.2	1.4	1.7	2.0
Total Capacity	7.8	7.8	7.9	8.1	8.2	8.4	8.5	8.7	8.9	9.1	9.4	9.7	10.0
Utilization	92.0	94.0	94.0	96.0	94.3	94.3	94.3	94.3	94.3	94.3	93.3	93.5	93.5
PAD District IV													
Base Capacity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Capacity Additions	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.6	0.6	0.6	0.7	0.7	0.7
Total Capacity	0.6	0.6	0.6	0.6	0.8	0.9	1.1	1.1	1.2	1.2	1.2	1.2	1.3
Utilization	92.0	92.0	93.0	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
PAD District V													
Base Capacity	3.1	3.1	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Capacity Additions	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Capacity	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Utilization	90.0	91.0	92.0	94.0	86.6	87.4	89.0	90.1	89.5	90.6	91.6	92.8	94.0
United States													
Base Capacity	16.8	16.8	16.9	17.1	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
Capacity Additions	0.0	0.0	0.0	0.0	0.7	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2
Total Capacity	16.8	16.8	16.9	17.1	17.4	17.8	18.1	18.4	18.7	19.0	19.3	19.6	19.9
Utilization	91.0	93.0	92.0	94.0	93.4	93.2	93.9	94.1	94.0	94.2	93.9	94.2	94.3

Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization (Million Barrels per Day)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
PAD District I												
Base Capacity	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.4%
Capacity Additions	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A
Total Capacity	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.1%
Utilization	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	0.0%
PAD District II												
Base Capacity	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0%
Capacity Additions	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.9	1.1	1.4	N/A
Total Capacity	3.8	3.9	4.0	4.1	4.2	4.3	4.3	4.3	4.4	4.6	4.9	1.5%
Utilization	96.7	96.6	96.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	0.3%
PAD District III												
Base Capacity	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	0.1%
Capacity Additions	2.2	2.4	2.6	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	N/A
Total Capacity	10.2	10.4	10.6	10.6	10.7	10.8	10.8	10.8	10.8	10.8	10.8	1.5%
Utilization	93.4	93.6	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	0.0%
PAD District IV												
Base Capacity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-0.1%
Capacity Additions	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	N/A
Total Capacity	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.6	4.6%
Utilization	94.3	94.3	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	0.1%
PAD District V												
Base Capacity	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	-0.1%
Capacity Additions	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	N/A
Total Capacity	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	0.2%
Utilization	94.3	94.3	94.3	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	0.2%
United States												
Base Capacity	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	0.0%
Capacity Additions	3.5	3.8	4.2	4.3	4.5	4.7	4.8	4.8	4.9	5.2	5.6	N/A
Total Capacity	20.2	20.5	20.9	21.0	21.2	21.4	21.5	21.5	21.6	21.9	22.3	1.3%
Utilization	94.2	94.3	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	0.1%

Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization (Million Barrels per Day)

PAD = Petroleum Administration for Defense.

N/A = Not applicable.

Note: Base capacity is operable capacity for the beginning of the year. Capacity additions are cumulative additions after January 1st, 2004.

Source: 2003: Energy Information Administration (EIA), Petroleum Supply Annual 2003, DOE/EIA-0340(2003)/1 (Washington, DC, July 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 91. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) New England

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.44	1.64	1.81	1.74	1.66	1.62	1.60	1.57	1.59	1.60	1.60	1.59	1.58
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Distribution Costs	0.25	0.25	0.25	0.25	0.29	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Wholesale Price	0.70	0.91	1.08	1.02	0.90	0.86	0.84	0.83	0.86	0.87	0.87	0.87	0.87
Motor Gasoline (All Sectors)													
End-User Price	1.50	1.64	1.87	1.82	1.74	1.66	1.62	1.58	1.57	1.57	1.55	1.55	1.55
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Distribution Costs	0.15	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wholesale Price	0.91	0.96	1.19	1.17	1.07	0.99	0.96	0.92	0.92	0.92	0.91	0.90	0.91
Jet Fuel													
End-User Price	0.86	0.91	1.15	1.09	1.00	0.94	0.92	0.91	0.89	0.89	0.89	0.89	0.89
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
Wholesale Price	0.79	0.85	1.09	1.09	0.94	0.88	0.87	0.85	0.84	0.83	0.83	0.84	0.84
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.14	1.30	1.44	1.38	1.23	1.18	1.15	1.13	1.13	1.12	1.13	1.14	1.15
Distribution Costs	0.40	0.40	0.46	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Wholesale Price	0.74	0.90	0.98	0.93	0.83	0.78	0.75	0.73	0.73	0.72	0.73	0.74	0.75
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 91. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) New England

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.58	1.58	1.58	1.58	1.58	1.57	1.58	1.58	1.57	1.57	1.59	-0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Distribution Costs	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.7%
Wholesale Price	0.87	0.87	0.88	0.88	0.89	0.88	0.89	0.90	0.89	0.90	0.92	0.0%
Motor Gasoline (All Sectors)												
End-User Price	1.56	1.56	1.57	1.57	1.58	1.58	1.59	1.60	1.60	1.61	1.61	-0.1%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Distribution Costs	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Wholesale Price	0.92	0.93	0.94	0.95	0.95	0.96	0.97	0.98	0.99	1.00	1.01	0.2%
Jet Fuel												
End-User Price	0.89	0.90	0.90	0.91	0.93	0.93	0.94	0.94	0.95	0.95	0.96	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	N/A
Wholesale Price	0.84	0.84	0.85	0.86	0.88	0.88	0.89	0.90	0.90	0.91	0.91	0.3%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.16	1.16	1.17	1.19	1.20	1.20	1.21	1.22	1.23	1.23	1.24	-0.2%
Distribution Costs	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	N/A
Wholesale Price	0.76	0.76	0.77	0.78	0.79	0.80	0.81	0.81	0.82	0.83	0.84	-0.3%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 91. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) New England

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 92. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Middle Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.37	1.57	1.73	1.66	1.57	1.53	1.50	1.48	1.50	1.51	1.51	1.50	1.49
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.18	0.18	0.18	0.18	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22
Wholesale Price	0.73	0.93	1.09	1.03	0.89	0.86	0.84	0.82	0.86	0.87	0.87	0.87	0.86
Motor Gasoline (All Sectors)													
End-User Price	1.41	1.64	1.86	1.81	1.69	1.61	1.57	1.53	1.53	1.53	1.51	1.50	1.51
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.13	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Wholesale Price	0.88	1.01	1.23	1.22	1.07	0.99	0.96	0.93	0.92	0.92	0.91	0.91	0.92
Jet Fuel													
End-User Price	0.82	0.87	1.09	1.04	0.95	0.89	0.88	0.86	0.85	0.85	0.85	0.86	0.86
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
Wholesale Price	0.74	0.80	1.02	1.02	0.88	0.82	0.80	0.79	0.78	0.78	0.78	0.79	0.79
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.20	1.37	1.51	1.45	1.29	1.24	1.21	1.18	1.19	1.18	1.19	1.20	1.21
Distribution Costs	0.48	0.48	0.53	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Wholesale Price	0.72	0.89	0.97	0.91	0.81	0.76	0.73	0.71	0.71	0.70	0.71	0.72	0.73
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 92. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Middle Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.49	1.49	1.49	1.49	1.49	1.48	1.49	1.49	1.48	1.48	1.50	-0.2%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.9%
Wholesale Price	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.92	-0.1%
Motor Gasoline (All Sectors)												
End-User Price	1.51	1.52	1.52	1.53	1.53	1.54	1.55	1.55	1.56	1.56	1.57	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Distribution Costs	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.0%
Wholesale Price	0.93	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.02	0.0%
Jet Fuel												
End-User Price	0.86	0.87	0.87	0.89	0.90	0.90	0.92	0.92	0.93	0.94	0.94	0.4%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	N/A
Wholesale Price	0.80	0.80	0.81	0.82	0.84	0.84	0.86	0.86	0.87	0.88	0.89	0.5%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.27	1.28	1.29	1.30	-0.2%
Distribution Costs	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	N/A
Wholesale Price	0.74	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.80	0.81	0.82	-0.4%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 92. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Middle Atlantic

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 93. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) East North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.32	1.51	1.66	1.60	1.54	1.50	1.48	1.45	1.47	1.48	1.48	1.47	1.46
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.14	0.14	0.14	0.14	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18
Wholesale Price	0.72	0.91	1.07	1.01	0.90	0.87	0.86	0.84	0.87	0.88	0.88	0.88	0.88
Motor Gasoline (All Sectors)													
End-User Price	1.41	1.54	1.74	1.70	1.68	1.59	1.55	1.51	1.51	1.51	1.49	1.49	1.49
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Distribution Costs	0.14	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Wholesale Price	0.84	0.90	1.11	1.09	1.05	0.96	0.93	0.89	0.90	0.90	0.89	0.89	0.89
Jet Fuel													
End-User Price	0.80	0.85	1.07	1.01	0.91	0.85	0.86	0.83	0.80	0.79	0.79	0.80	0.80
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
Wholesale Price	0.77	0.82	1.04	1.06	0.88	0.82	0.83	0.80	0.78	0.77	0.77	0.78	0.78
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.07	1.23	1.35	1.30	1.19	1.13	1.12	1.08	1.06	1.05	1.06	1.06	1.07
Distribution Costs	0.34	0.34	0.40	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Wholesale Price	0.73	0.89	0.96	0.98	0.85	0.79	0.77	0.74	0.71	0.71	0.71	0.72	0.73
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 93. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) East North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.46	1.46	1.46	1.46	1.46	1.45	1.46	1.46	1.45	1.45	1.47	-0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Distribution Costs	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.2%
Wholesale Price	0.87	0.88	0.88	0.89	0.90	0.89	0.90	0.91	0.90	0.91	0.93	0.1%
Motor Gasoline (All Sectors)												
End-User Price	1.50	1.50	1.51	1.52	1.52	1.53	1.54	1.54	1.55	1.55	1.56	0.1%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Distribution Costs	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Wholesale Price	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.5%
Jet Fuel												
End-User Price	0.80	0.80	0.81	0.82	0.83	0.85	0.86	0.88	0.89	0.89	0.88	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	N/A
Wholesale Price	0.78	0.79	0.79	0.80	0.82	0.83	0.85	0.86	0.88	0.88	0.87	0.3%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.08	1.09	1.09	1.11	1.13	1.15	1.17	1.19	1.20	1.20	1.19	-0.2%
Distribution Costs	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	N/A
Wholesale Price	0.73	0.74	0.75	0.77	0.79	0.80	0.82	0.84	0.85	0.85	0.84	-0.2%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 93. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) East North Central

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 94. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) West North Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.30	1.49	1.64	1.57	1.51	1.48	1.46	1.43	1.45	1.46	1.46	1.45	1.44
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Distribution Costs	0.12	0.12	0.12	0.12	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Wholesale Price	0.74	0.93	1.08	1.02	0.92	0.89	0.87	0.85	0.88	0.90	0.90	0.89	0.89
Motor Gasoline (All Sectors)													
End-User Price	1.37	1.66	1.88	1.83	1.65	1.56	1.52	1.48	1.48	1.48	1.47	1.46	1.46
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.15	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Wholesale Price	0.82	1.02	1.25	1.22	1.03	0.94	0.91	0.87	0.88	0.88	0.86	0.86	0.87
Jet Fuel													
End-User Price	0.84	0.90	1.13	1.07	0.95	0.88	0.89	0.86	0.83	0.82	0.82	0.82	0.82
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Distribution Costs	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Wholesale Price	0.80	0.86	1.09	1.08	0.91	0.85	0.86	0.83	0.80	0.79	0.79	0.80	0.80
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.03	1.17	1.29	1.24	1.12	1.06	1.05	1.02	0.99	0.98	0.99	0.99	1.00
Distribution Costs	0.27	0.27	0.33	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Wholesale Price	0.75	0.90	0.97	0.98	0.85	0.79	0.78	0.74	0.72	0.71	0.72	0.72	0.73
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 94. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) West North Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.44	1.44	1.44	1.44	1.44	1.43	1.43	1.44	1.42	1.43	1.45	-0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Distribution Costs	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	1.4%
Wholesale Price	0.89	0.89	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.95	0.1%
Motor Gasoline (All Sectors)												
End-User Price	1.47	1.48	1.48	1.49	1.50	1.50	1.51	1.51	1.52	1.53	1.53	-0.4%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Distribution Costs	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Wholesale Price	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	-0.2%
Jet Fuel												
End-User Price	0.82	0.82	0.83	0.84	0.85	0.86	0.88	0.89	0.90	0.90	0.89	0.0%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Distribution Costs	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A
Wholesale Price	0.79	0.80	0.80	0.81	0.83	0.84	0.86	0.87	0.88	0.88	0.87	0.1%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.01	1.02	1.02	1.04	1.06	1.08	1.10	1.12	1.13	1.13	1.12	-0.2%
Distribution Costs	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	N/A
Wholesale Price	0.73	0.74	0.75	0.77	0.79	0.81	0.83	0.84	0.85	0.85	0.85	-0.3%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 94. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) West North Central

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 95. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) South Atlantic

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.26	1.44	1.58	1.52	1.50	1.45	1.43	1.41	1.42	1.43	1.43	1.42	1.41
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Distribution Costs	0.14	0.14	0.14	0.14	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18
Wholesale Price	0.67	0.86	1.01	0.95	0.88	0.84	0.83	0.81	0.84	0.85	0.85	0.85	0.84
Motor Gasoline (All Sectors)													
End-User Price	1.34	1.53	1.74	1.70	1.60	1.51	1.47	1.43	1.43	1.43	1.42	1.41	1.42
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Distribution Costs	0.13	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Wholesale Price	0.82	0.95	1.16	1.15	1.03	0.95	0.92	0.88	0.88	0.88	0.87	0.87	0.88
Jet Fuel													
End-User Price	0.83	0.88	1.11	1.05	0.94	0.89	0.89	0.86	0.84	0.84	0.84	0.85	0.85
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Distribution Costs	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
Wholesale Price	0.77	0.83	1.06	1.04	0.89	0.83	0.83	0.81	0.79	0.79	0.79	0.80	0.80
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.17	1.33	1.47	1.41	1.27	1.21	1.19	1.16	1.15	1.14	1.15	1.15	1.16
Distribution Costs	0.45	0.45	0.50	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Wholesale Price	0.71	0.88	0.96	0.91	0.82	0.76	0.74	0.71	0.70	0.69	0.70	0.70	0.71
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 95. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) South Atlantic

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.41	1.41	1.41	1.41	1.41	1.40	1.41	1.41	1.40	1.40	1.42	-0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.0%
Distribution Costs	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.2%
Wholesale Price	0.84	0.85	0.85	0.86	0.86	0.86	0.87	0.87	0.87	0.88	0.90	0.2%
Motor Gasoline (All Sectors)												
End-User Price	1.42	1.43	1.43	1.44	1.45	1.45	1.46	1.46	1.47	1.48	1.48	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.0%
Distribution Costs	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Wholesale Price	0.89	0.90	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.1%
Jet Fuel												
End-User Price	0.85	0.85	0.86	0.87	0.89	0.89	0.92	0.93	0.94	0.94	0.95	0.3%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Distribution Costs	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	N/A
Wholesale Price	0.80	0.81	0.81	0.83	0.84	0.85	0.87	0.89	0.90	0.90	0.91	0.4%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.17	1.18	1.19	1.21	1.23	1.24	1.24	1.25	1.26	1.27	1.27	-0.2%
Distribution Costs	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	N/A
Wholesale Price	0.72	0.73	0.73	0.76	0.78	0.79	0.79	0.80	0.81	0.81	0.82	-0.3%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 95. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) South Atlantic

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 96. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) East South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.26	1.44	1.58	1.52	1.50	1.45	1.43	1.41	1.42	1.43	1.43	1.42	1.41
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Distribution Costs	0.16	0.16	0.16	0.16	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20
Wholesale Price	0.68	0.86	1.02	0.96	0.89	0.85	0.83	0.82	0.84	0.86	0.86	0.85	0.85
Motor Gasoline (All Sectors)													
End-User Price	1.37	1.58	1.79	1.75	1.64	1.55	1.51	1.47	1.47	1.47	1.45	1.45	1.45
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.17	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wholesale Price	0.80	0.93	1.15	1.13	1.01	0.92	0.88	0.85	0.85	0.85	0.84	0.84	0.85
Jet Fuel													
End-User Price	0.81	0.86	1.08	1.02	0.92	0.86	0.86	0.83	0.82	0.81	0.82	0.82	0.83
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	0.74	0.80	1.02	1.00	0.86	0.80	0.80	0.78	0.76	0.76	0.76	0.77	0.77
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.02	1.16	1.28	1.23	1.14	1.08	1.05	1.03	1.01	1.01	1.01	1.02	1.02
Distribution Costs	0.31	0.31	0.36	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Wholesale Price	0.71	0.85	0.92	0.97	0.83	0.77	0.74	0.72	0.70	0.70	0.70	0.71	0.72
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 96. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) East South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.41	1.41	1.41	1.41	1.41	1.40	1.41	1.41	1.40	1.40	1.42	0.0%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.0%
Distribution Costs	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.1%
Wholesale Price	0.85	0.85	0.86	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.91	0.2%
Motor Gasoline (All Sectors)												
End-User Price	1.46	1.46	1.47	1.48	1.48	1.49	1.50	1.50	1.51	1.51	1.52	-0.2%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Distribution Costs	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0%
Wholesale Price	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.1%
Jet Fuel												
End-User Price	0.83	0.84	0.84	0.86	0.87	0.88	0.90	0.92	0.93	0.93	0.93	0.4%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wholesale Price	0.78	0.78	0.79	0.81	0.82	0.83	0.86	0.87	0.88	0.89	0.89	0.5%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.03	1.04	1.04	1.07	1.09	1.10	1.12	1.14	1.15	1.15	1.15	0.0%
Distribution Costs	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	N/A
Wholesale Price	0.72	0.73	0.74	0.76	0.78	0.79	0.81	0.83	0.84	0.84	0.84	0.0%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 96. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) East South Central

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 97. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) West South Central

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.26	1.44	1.58	1.52	1.47	1.43	1.40	1.38	1.40	1.41	1.40	1.39	1.39
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Distribution Costs	0.13	0.13	0.13	0.13	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17
Wholesale Price	0.69	0.87	1.03	0.97	0.87	0.83	0.81	0.80	0.82	0.84	0.84	0.83	0.83
Motor Gasoline (All Sectors)													
End-User Price	1.36	1.50	1.70	1.66	1.64	1.55	1.51	1.47	1.47	1.47	1.45	1.45	1.45
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.18	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Wholesale Price	0.77	0.83	1.04	1.03	0.99	0.90	0.87	0.83	0.83	0.83	0.82	0.82	0.82
Jet Fuel													
End-User Price	0.76	0.81	1.02	0.96	0.89	0.83	0.83	0.81	0.79	0.79	0.79	0.80	0.80
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	0.70	0.76	0.96	0.99	0.84	0.78	0.78	0.76	0.75	0.74	0.75	0.75	0.76
Residential Distillate Fuel/ Heating Oil													
End-User Price	0.90	1.03	1.14	1.09	1.02	0.96	0.94	0.91	0.90	0.89	0.90	0.90	0.91
Distribution Costs	0.21	0.21	0.27	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Wholesale Price	0.69	0.82	0.87	0.95	0.81	0.75	0.72	0.70	0.68	0.68	0.68	0.69	0.70
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 97. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) West South Central

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.38	1.38	1.38	1.38	1.38	1.37	1.38	1.38	1.37	1.37	1.39	-0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.0%
Distribution Costs	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	1.3%
Wholesale Price	0.83	0.83	0.84	0.85	0.85	0.85	0.86	0.86	0.86	0.86	0.89	0.1%
Motor Gasoline (All Sectors)												
End-User Price	1.46	1.46	1.47	1.47	1.48	1.49	1.49	1.50	1.50	1.51	1.52	0.1%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%
Wholesale Price	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.5%
Jet Fuel												
End-User Price	0.80	0.81	0.81	0.83	0.85	0.85	0.88	0.89	0.90	0.90	0.91	0.5%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wholesale Price	0.76	0.77	0.77	0.79	0.81	0.81	0.84	0.85	0.86	0.87	0.88	0.7%
Residential Distillate Fuel/ Heating Oil												
End-User Price	0.92	0.93	0.93	0.96	0.98	0.99	1.01	1.02	1.03	1.04	1.04	0.0%
Distribution Costs	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	N/A
Wholesale Price	0.71	0.71	0.72	0.75	0.77	0.77	0.79	0.81	0.82	0.82	0.82	0.0%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 97. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) West South Central

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 98. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Mountain

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.36	1.56	1.72	1.65	1.79	1.72	1.72	1.70	1.63	1.63	1.63	1.64	1.61
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Distribution Costs	0.15	0.15	0.15	0.15	0.19	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Wholesale Price	0.76	0.96	1.12	1.06	1.16	1.09	1.09	1.08	1.02	1.02	1.03	1.05	1.02
Motor Gasoline (All Sectors)													
End-User Price	1.46	1.54	1.75	1.71	1.96	1.84	1.83	1.79	1.71	1.69	1.68	1.70	1.67
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Distribution Costs	0.17	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Wholesale Price	0.86	0.86	1.07	1.06	1.29	1.18	1.17	1.14	1.06	1.04	1.04	1.06	1.03
Jet Fuel													
End-User Price	0.89	0.95	1.20	1.13	1.21	1.11	1.14	1.11	0.98	0.96	0.96	0.98	0.94
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
Wholesale Price	0.83	0.89	1.14	4.22	1.15	1.05	1.08	1.05	0.93	0.90	0.91	0.93	0.88
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.08	1.23	1.36	1.30	1.35	1.26	1.17	1.13	1.12	1.10	1.09	1.10	1.09
Distribution Costs	0.29	0.29	0.34	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Wholesale Price	0.79	0.95	1.02	4.12	1.06	0.98	0.88	0.84	0.83	0.82	0.81	0.81	0.81
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 98. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Mountain

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.60	1.59	1.61	1.61	1.61	1.61	1.61	1.61	1.63	1.61	1.65	0.2%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Distribution Costs	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	1.1%
Wholesale Price	1.02	1.01	1.03	1.04	1.04	1.05	1.05	1.06	1.08	1.06	1.10	0.7%
Motor Gasoline (All Sectors)												
End-User Price	1.68	1.68	1.70	1.70	1.71	1.72	1.72	1.73	1.76	1.74	1.77	0.6%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.0%
Distribution Costs	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%
Wholesale Price	1.04	1.04	1.07	1.07	1.08	1.10	1.10	1.12	1.15	1.14	1.17	1.4%
Jet Fuel												
End-User Price	0.94	0.95	0.94	0.95	0.96	0.98	0.98	1.00	1.04	1.01	1.02	0.3%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Distribution Costs	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	N/A
Wholesale Price	0.89	0.90	0.89	0.90	0.91	0.93	0.93	0.95	0.99	0.96	0.97	0.4%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.11	1.13	1.13	1.16	1.18	1.20	1.23	1.25	1.27	1.25	1.24	0.0%
Distribution Costs	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	N/A
Wholesale Price	0.82	0.84	0.85	0.87	0.89	0.92	0.95	0.96	0.99	0.97	0.96	0.0%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 98. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Mountain

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 99. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Pacific

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.43	1.64	1.80	1.73	1.63	1.61	1.58	1.56	1.57	1.58	1.60	1.61	1.62
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Distribution Costs	0.20	0.20	0.20	0.20	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24
Wholesale Price	0.78	0.99	1.16	1.10	0.95	0.93	0.91	0.90	0.92	0.93	0.95	0.97	0.99
Motor Gasoline (All Sectors)													
End-User Price	1.49	1.82	2.06	2.01	1.73	1.67	1.70	1.70	1.63	1.66	1.66	1.67	1.68
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.13	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Wholesale Price	0.95	1.21	1.45	1.44	1.13	1.08	1.10	1.11	1.05	1.08	1.08	1.10	1.11
Jet Fuel													
End-User Price	0.86	0.91	1.15	1.09	0.95	0.91	0.90	0.89	0.88	0.88	0.88	0.89	0.89
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wholesale Price	0.78	0.84	1.08	0.97	0.88	0.84	0.83	0.82	0.81	0.81	0.82	0.82	0.83
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.18	1.36	1.49	1.43	1.31	1.26	1.24	1.22	1.20	1.21	1.21	1.22	1.23
Distribution Costs	0.42	0.42	0.47	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Wholesale Price	0.77	0.94	1.02	0.86	0.89	0.84	0.82	0.80	0.78	0.79	0.79	0.80	0.81
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 99. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Pacific

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.63	1.63	1.63	1.62	1.62	1.61	1.61	1.62	1.60	1.64	1.67	0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Distribution Costs	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.8%
Wholesale Price	1.00	1.00	1.01	1.00	1.01	1.01	1.01	1.02	1.00	1.06	1.08	0.4%
Motor Gasoline (All Sectors)												
End-User Price	1.67	1.69	1.70	1.69	1.69	1.71	1.71	1.73	1.76	1.73	1.77	-0.1%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Wholesale Price	1.10	1.12	1.14	1.14	1.13	1.16	1.16	1.18	1.22	1.19	1.23	0.1%
Jet Fuel												
End-User Price	0.89	0.90	0.90	0.91	0.91	0.92	0.92	0.94	0.94	0.95	0.95	0.2%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Distribution Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wholesale Price	0.83	0.84	0.84	0.85	0.85	0.86	0.86	0.88	0.89	0.89	0.90	0.3%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.23	1.24	1.24	1.26	1.27	1.31	1.33	1.35	1.37	1.36	1.36	0.0%
Distribution Costs	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	N/A
Wholesale Price	0.81	0.82	0.82	0.84	0.85	0.89	0.91	0.93	0.95	0.95	0.94	0.0%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 99. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) Pacific

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 100. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) United States

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Diesel (Transportation Sector)													
End-User Price	1.32	1.50	1.66	1.59	1.55	1.51	1.49	1.46	1.48	1.48	1.48	1.48	1.47
Federal Taxes	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Distribution Costs	0.15	0.15	0.15	0.15	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
Wholesale Price	0.71	0.91	1.06	1.00	0.92	0.88	0.87	0.85	0.87	0.88	0.89	0.89	0.89
Motor Gasoline (All Sectors)													
End-User Price	1.40	1.60	1.82	1.77	1.68	1.60	1.57	1.54	1.52	1.52	1.51	1.51	1.51
Federal Taxes	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distribution Costs	0.15	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Wholesale Price	0.85	0.97	1.19	1.18	1.07	0.98	0.96	0.93	0.92	0.92	0.92	0.92	0.92
Jet Fuel													
End-User Price	0.82	0.87	1.10	1.04	0.95	0.89	0.89	0.87	0.84	0.84	0.84	0.85	0.85
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
Wholesale Price	0.76	0.81	1.04	1.21	0.89	0.83	0.83	0.81	0.79	0.79	0.79	0.80	0.80
Residential Distillate Fuel/ Heating Oil													
End-User Price	1.16	1.33	1.46	1.40	1.26	1.20	1.18	1.15	1.15	1.14	1.15	1.16	1.17
Distribution Costs	0.43	0.43	0.49	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Wholesale Price	0.73	0.89	0.98	1.13	0.85	0.79	0.75	0.73	0.72	0.71	0.72	0.73	0.74
World Oil Price													
World Oil Price	0.57	0.66	0.83	0.81	0.71	0.65	0.62	0.60	0.60	0.60	0.61	0.62	0.63

Table 100. Components of Selected Petroelum Product Prices (2003 Dollars per Gallon) United States

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Diesel (Transportation Sector)												
End-User Price	1.47	1.47	1.47	1.47	1.47	1.46	1.46	1.47	1.46	1.46	1.49	-0.1%
Federal Taxes	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	-2.4%
State Taxes	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Distribution Costs	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.1%
Wholesale Price	0.89	0.89	0.90	0.90	0.91	0.90	0.91	0.92	0.91	0.92	0.95	0.2%
Motor Gasoline (All Sectors)												
End-User Price	1.51	1.52	1.53	1.53	1.54	1.55	1.55	1.56	1.57	1.57	1.58	-0.1%
Federal Taxes	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	-2.4%
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.0%
Wholesale Price	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	0.3%
Jet Fuel												
End-User Price	0.85	0.86	0.86	0.87	0.88	0.89	0.90	0.92	0.93	0.93	0.93	0.3%
Federal Taxes	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.4%
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.2%
Wholesale Price	0.80	0.81	0.81	0.82	0.84	0.84	0.86	0.87	0.88	0.89	0.89	0.4%
Residential Distillate Fuel/ Heating Oil												
End-User Price	1.18	1.18	1.19	1.21	1.22	1.23	1.24	1.24	1.25	1.26	1.26	-0.2%
Distribution Costs	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.0%
Wholesale Price	0.74	0.75	0.76	0.78	0.79	0.80	0.81	0.83	0.83	0.84	0.84	-0.3%
World Oil Price												
World Oil Price	0.64	0.65	0.65	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.4%

Table 100. Components of Selected Petroleum Product Prices (2003 Dollars per Gallon) United States

1/ Includes a 1 percent average local tax.

N/A = Not applicable.

Sources: 2003 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2003 diesel and gasoline taxes: Table EN1, Petroleum Marketing Monthly, DOE/EIA-0380(2003/09) (Washington, DC, September 2003). 2003 jet fuel taxes: EIA, Office of Oil and Gas. 2002 and 2003 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Production 1/ (million barrels per day)													
Lower 48 Total	4.64	4.71	4.68	4.85	5.18	5.25	5.32	5.36	5.22	5.09	4.99	4.84	4.71
Lower 48 Onshore													
Northeast	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.05
Gulf Coast	0.60	0.59	0.56	0.51	0.47	0.44	0.40	0.37	0.34	0.31	0.29	0.26	0.24
Midcontinent	0.33	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29
Southwest	1.05	0.97	0.93	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.93
Rocky Mountain	0.38	0.38	0.38	0.38	0.42	0.43	0.45	0.46	0.47	0.48	0.48	0.49	0.50
West Coast	0.66	0.64	0.61	0.59	0.58	0.56	0.54	0.52	0.50	0.49	0.47	0.46	0.44
Lower 48 Offshore													
Gulf	1.41	1.59	1.68	1.90	2.26	2.38	2.50	2.59	2.50	2.42	2.37	2.28	2.19
Shallow	0.51	0.49	0.45	0.42	0.40	0.39	0.36	0.34	0.32	0.30	0.29	0.28	0.29
Deep	0.90	1.10	1.23	1.48	1.85	1.98	2.14	2.26	2.18	2.13	2.09	2.00	1.90
Pacific	0.12	0.13	0.12	0.12	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.07	0.06
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wellhead Prices (2003 dollars per barrel)													
Lower 48 Average	24.91	28.60	34.52	33.56	28.20	26.73	25.52	24.77	24.50	24.87	25.21	25.56	25.90
Lower 48 Onshore													
Northeast	25.18	28.83	34.78	33.80	27.65	26.23	24.99	24.33	24.13	24.49	24.87	25.24	25.54
Gulf Coast	25.80	29.64	35.77	34.75	27.59	26.11	24.88	24.17	23.95	24.33	24.68	25.05	25.38
Midcontinent	26.21	29.24	35.27	34.28	27.61	26.19	24.97	24.29	24.07	24.44	24.80	25.17	25.47
Southwest	25.53	29.28	35.33	34.32	27.63	26.20	25.01	24.31	24.05	24.42	24.77	25.13	25.44
Rocky Mountain	24.91	28.45	34.33	33.36	27.70	26.36	25.12	24.32	24.02	24.26	24.67	24.98	25.33
West Coast	21.88	26.50	31.97	31.08	28.74	27.27	26.17	25.16	24.73	25.14	25.23	25.49	25.93
Lower 48 Offshore													
Gulf	25.37	28.83	34.78	33.80	28.69	27.15	25.88	25.14	24.91	25.30	25.67	26.05	26.40
Pacific	22.49	25.08	30.26	29.40	26.73	25.36	24.34	23.40	23.00	23.38	23.46	23.71	24.11
Atlantic	25.37	29.21	35.25	34.25	27.65	26.23	24.99	24.33	24.13	24.49	24.87	25.24	25.54

Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Production 1/ (million barrels per day)												
Lower 48 Total	4.61	4.49	4.45	4.42	4.39	4.35	4.26	4.19	4.16	4.18	4.12	-0.6%
Lower 48 Onshore												
Northeast	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	-4.2%
Gulf Coast	0.23	0.21	0.20	0.18	0.17	0.16	0.15	0.14	0.14	0.13	0.12	-6.8%
Midcontinent	0.28	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.24	-1.3%
Southwest	0.93	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.86	0.85	-0.6%
Rocky Mountain	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	1.3%
West Coast	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.34	-2.9%
Lower 48 Offshore												
Gulf	2.13	2.05	2.05	2.05	2.06	2.07	2.01	1.97	1.97	2.03	2.00	1.0%
Shallow	0.30	0.30	0.31	0.30	0.30	0.30	0.29	0.28	0.28	0.29	0.31	-2.1%
Deep	1.84	1.75	1.75	1.75	1.76	1.77	1.72	1.69	1.69	1.74	1.69	2.0%
Pacific	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	-6.2%
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wellhead Prices (2003 dollars per barrel)												
Lower 48 Average	26.27	26.66	27.03	27.37	27.72	28.06	28.43	28.79	29.15	29.55	30.00	0.2%
Lower 48 Onshore												
Northeast	25.92	26.32	26.65	26.98	27.31	27.63	27.94	28.28	28.59	29.00	29.44	0.1%
Gulf Coast	25.75	26.14	26.49	26.83	27.16	27.48	27.84	28.19	28.53	28.94	29.37	0.0%
Midcontinent	25.85	26.24	26.58	26.90	27.24	27.55	27.88	28.22	28.54	28.95	29.39	0.0%
Southwest	25.81	26.20	26.53	26.84	27.18	27.51	27.83	28.17	28.51	28.91	29.34	0.0%
Rocky Mountain	25.70	26.07	26.46	26.84	27.20	27.55	27.90	28.25	28.64	29.05	29.42	0.2%
West Coast	26.22	26.62	27.11	27.38	27.67	28.10	28.64	29.10	29.43	29.63	30.20	0.6%
Lower 48 Offshore												
Gulf	26.78	27.19	27.55	27.90	28.25	28.58	28.95	29.32	29.68	30.10	30.55	0.3%
Pacific	24.38	24.76	25.21	25.47	25.74	26.13	26.63	27.06	27.37	27.55	28.09	0.5%
Atlantic	25.92	26.32	26.65	26.98	27.31	27.63	27.94	28.28	28.59	29.00	29.44	0.0%

Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region

1/ Includes lease condensate.

N/A = Not applicable.

Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration (EIA), DOE/EIA-MO63(2004) (Washington, DC, March 2004). Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2005 National Energy Modeling System.

Sources: 2002 and 2003: Energy Information Administration (EIA), Petroleum Supply Annual 2003, DOE/EIA-0340(2003)/1 (Washington, DC, July 2004); EIA, Petroleum Marketing Annual 2003, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2004); and EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 102. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Dry Production (trillion cubic feet) 1/													
Lower 48 Total	18.54	18.63	18.52	18.89	18.90	19.15	19.56	20.17	20.17	20.66	20.92	20.81	20.89
Lower 48 Onshore													
Northeast	0.91	0.90	0.84	0.85	0.88	0.93	0.98	1.01	1.01	1.05	1.07	1.08	1.12
Gulf Coast	4.76	4.81	4.41	4.37	4.31	4.34	4.38	4.51	4.37	4.52	4.47	4.29	4.25
Midcontinent	2.38	2.47	2.51	2.53	2.42	2.34	2.34	2.43	2.43	2.54	2.54	2.46	2.41
Southwest	1.75	1.74	1.72	1.83	1.94	2.02	2.09	2.18	2.19	2.29	2.35	2.36	2.39
Rocky Mountain	3.60	3.69	4.21	4.38	4.43	4.39	4.50	4.66	4.79	4.94	5.09	5.19	5.28
West Coast	0.29	0.28	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.19	0.19	0.19	0.18
Lower 48 Offshore													
Gulf	4.79	4.68	4.53	4.66	4.65	4.89	5.04	5.14	5.17	5.10	5.17	5.21	5.24
Shallow	2.92	2.84	2.40	2.30	2.27	2.23	2.03	2.10	2.03	1.97	1.99	1.96	2.02
Deep	1.87	1.84	2.13	2.36	2.39	2.66	3.02	3.04	3.13	3.13	3.18	3.25	3.22
Pacific	0.05	0.05	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wellhead Prices (2003 dollars per thousand cubic feet)													
Lower 48 Average	3.06	4.98	5.27	5.30	4.67	4.23	3.85	3.75	3.64	3.64	3.74	3.85	4.02
Lower 48 Onshore													
Northeast	3.85	6.33	6.16	5.88	4.94	4.47	4.25	4.17	4.06	4.07	4.17	4.20	4.39
Gulf Coast	3.27	5.31	5.66	5.52	4.65	4.11	3.77	3.69	3.59	3.70	3.89	4.00	4.13
Midcontinent	3.07	5.01	5.16	5.44	4.85	4.35	3.89	3.67	3.53	3.64	3.86	4.03	4.21
Southwest	3.10	5.05	5.18	4.94	4.31	4.03	3.78	3.67	3.55	3.61	3.75	3.86	4.05
Rocky Mountain	2.62	4.25	4.65	5.04	4.73	4.41	3.96	3.62	3.41	3.36	3.48	3.61	3.74
West Coast	3.04	4.94	5.41	6.07	5.87	5.45	4.89	4.34	3.94	3.81	4.01	4.32	4.57
Lower 48 Offshore													
Gulf	3.03	4.93	5.40	5.24	4.58	4.12	3.68	3.89	3.89	3.77	3.68	3.78	4.00
Pacific	2.63	4.28	5.08	6.12	6.32	6.03	5.35	4.62	4.11	3.93	4.15	4.55	4.86
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 102. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Dry Production (trillion cubic feet) 1/												
Lower 48 Total	20.50	19.77	19.74	20.18	20.16	20.00	19.71	19.31	19.17	19.45	19.60	0.2%
Lower 48 Onshore												
Northeast	1.12	1.09	1.13	1.17	1.19	1.18	1.17	1.17	1.15	1.16	1.15	1.1%
Gulf Coast	4.13	3.99	4.02	4.05	3.98	3.92	3.88	3.78	3.73	3.76	3.78	-1.1%
Midcontinent	2.32	2.20	2.18	2.22	2.20	2.15	2.07	1.98	1.94	1.94	1.92	-1.1%
Southwest	2.36	2.31	2.33	2.37	2.35	2.32	2.29	2.22	2.17	2.15	2.13	0.9%
Rocky Mountain	5.27	4.99	4.94	5.24	5.46	5.56	5.48	5.40	5.47	5.57	5.58	1.9%
West Coast	0.18	0.17	0.16	0.17	0.17	0.17	0.16	0.15	0.15	0.15	0.15	-2.9%
Lower 48 Offshore												
Gulf	5.10	5.02	4.96	4.94	4.79	4.68	4.65	4.58	4.54	4.71	4.88	0.2%
Shallow	2.08	2.02	1.93	1.86	1.81	1.78	1.75	1.77	1.84	1.92	2.01	-1.6%
Deep	3.02	3.00	3.03	3.08	2.98	2.90	2.90	2.82	2.70	2.79	2.87	2.0%
Pacific	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	-5.5%
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wellhead Prices (2003 dollars per thousand cubic feet)												
Lower 48 Average	4.16	4.09	4.08	4.20	4.37	4.53	4.63	4.65	4.66	4.72	4.79	-0.2%
Lower 48 Onshore												
Northeast	4.60	4.56	4.56	4.67	4.88	5.01	5.09	5.18	5.18	5.24	5.35	-0.8%
Gulf Coast	4.22	4.21	4.27	4.41	4.55	4.66	4.76	4.77	4.72	4.76	4.86	-0.4%
Midcontinent	4.32	4.26	4.23	4.37	4.56	4.74	4.86	4.86	4.83	4.88	4.98	0.0%
Southwest	4.17	4.15	4.17	4.29	4.44	4.60	4.74	4.79	4.78	4.82	4.93	-0.1%
Rocky Mountain	3.90	3.77	3.53	3.55	3.77	4.03	4.21	4.29	4.36	4.49	4.60	0.4%
West Coast	4.65	4.14	3.64	3.69	4.09	4.57	4.77	4.73	4.80	4.96	5.08	0.1%
Lower 48 Offshore												
Gulf	4.18	4.12	4.29	4.50	4.67	4.74	4.73	4.70	4.68	4.71	4.68	-0.2%
Pacific	4.94	4.38	3.83	3.87	4.28	4.78	5.01	4.99	5.08	5.25	5.38	1.0%
Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

Table 102. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region

1/ Marketed production (wet) minus extraction losses.

N/A = Not applicable.

Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration, DOE/EIA-MO63(2001) (Washington, DC, March 2002). Totals may not equal sum of components due to independent rounding.

Sources: 2002: Mineral Management Service, and Energy Information Administration (EIA), Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004); EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216(2002) (Washington, DC, December 2003); and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2003: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004) and EIA, OIAF. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Lower 48 Reserves													
Crude Oil (billion barrels) 1/	19.34	18.94	19.15	20.02	21.07	21.32	21.62	21.77	21.23	20.76	20.12	19.53	19.04
Onshore	13.56	13.07	12.93	12.79	12.61	12.42	12.23	12.04	11.84	11.66	11.48	11.31	11.15
Offshore	5.78	5.87	6.22	7.23	8.47	8.90	9.39	9.74	9.39	9.10	8.63	8.22	7.90
Dry Natural Gas (trillion cubic feet)	178.5	180.8	188.2	194.9	200.1	205.2	206.9	205.7	204.2	202.1	200.2	197.3	194.7
Onshore	149.6	153.6	158.5	163.7	168.5	172.1	173.9	174.2	173.5	172.1	170.7	169.4	167.8
Associated-Dissolved 2/	13.9	13.5	13.3	13.1	12.9	12.7	12.5	12.3	12.1	12.0	11.8	11.6	11.5
Non-Associated	135.7	140.2	145.2	150.6	155.6	159.3	161.4	161.8	161.4	160.1	158.9	157.7	156.4
Conventional	53.1	52.4	53.8	55.3	56.4	57.1	57.3	57.1	56.8	56.1	55.4	54.8	54.1
Unconventional	82.6	87.8	91.4	95.3	99.2	102.3	104.1	104.7	104.6	104.0	103.5	103.0	102.2
Offshore	28.9	27.1	29.7	31.1	31.6	33.1	33.0	31.6	30.7	30.0	29.5	27.9	26.8
Associated-Dissolved 2/	8.0	7.2	7.1	7.1	7.3	7.3	7.5	8.0	7.8	7.8	7.7	7.7	7.6
Non-Associated	20.8	19.9	22.6	24.1	24.3	25.8	25.5	23.6	22.9	22.3	21.7	20.2	19.2
Lower 48 Reserve Additions													
Crude Oil (billion barrels) 1/	1.94	1.31	1.92	2.65	2.94	2.17	2.24	2.11	1.36	1.38	1.18	1.18	1.23
Onshore	1.27	0.60	0.91	0.90	0.85	0.82	0.80	0.78	0.77	0.76	0.75	0.74	0.73
Offshore	0.67	0.72	1.01	1.75	2.10	1.34	1.43	1.33	0.59	0.62	0.43	0.44	0.50
Dry Natural Gas (trillion cubic feet)	22.4	20.9	25.9	25.6	24.1	24.2	21.3	19.0	18.6	18.6	18.9	17.9	18.3
Onshore	19.6	18.0	18.8	19.4	19.0	17.8	16.4	15.2	14.3	14.1	14.3	14.2	14.1
Associated-Dissolved 2/	2.1	1.1	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Non-Associated	17.6	16.8	17.5	18.1	17.7	16.6	15.2	14.1	13.2	13.0	13.2	13.1	13.0
Conventional	8.7	5.0	6.9	6.9	6.4	6.0	5.7	5.5	5.3	5.2	5.2	5.1	5.1
Unconventional	8.9	11.8	10.6	11.3	11.3	10.6	9.5	8.6	7.9	7.8	8.0	8.0	7.9
Offshore	2.7	3.0	7.1	6.2	5.2	6.4	5.0	3.8	4.3	4.5	4.6	3.7	4.2
Associated-Dissolved 2/	0.4	0.2	0.8	0.9	1.1	1.2	1.4	1.8	1.7	1.6	1.6	1.5	1.5
Non-Associated	2.3	2.8	6.3	5.3	4.0	5.2	3.6	1.9	2.6	2.9	3.0	2.2	2.7

Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Lower 48 Reserves												
Crude Oil (billion barrels) 1/	18.89	18.55	18.22	18.07	17.94	17.79	17.47	17.15	16.82	16.86	16.47	-0.6%
Onshore	10.98	10.82	10.67	10.52	10.37	10.22	10.08	9.94	9.80	9.66	9.53	-1.4%
Offshore	7.91	7.72	7.55	7.55	7.56	7.56	7.39	7.21	7.02	7.19	6.93	0.8%
Dry Natural Gas (trillion cubic feet)	194.9	194.5	192.5	189.8	187.4	186.1	184.7	182.5	181.0	180.7	178.3	-0.1%
Onshore	166.5	165.8	164.7	163.2	161.6	160.0	158.6	157.5	156.3	154.9	153.5	0.0%
Associated-Dissolved 2/	11.3	11.1	11.0	10.9	10.7	10.6	10.5	10.4	10.2	10.1	10.0	-1.3%
Non-Associated	155.2	154.7	153.7	152.3	150.9	149.4	148.1	147.1	146.0	144.8	143.4	0.1%
Conventional	53.6	53.1	52.4	51.6	50.8	50.1	49.4	48.8	48.1	47.4	46.6	-0.5%
Unconventional	101.7	101.6	101.3	100.7	100.0	99.3	98.7	98.3	97.9	97.4	96.9	0.4%
Offshore	28.4	28.7	27.7	26.6	25.8	26.1	26.1	25.1	24.7	25.8	24.8	-0.4%
Associated-Dissolved 2/	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0.2%
Non-Associated	20.8	21.1	20.2	19.1	18.2	18.5	18.6	17.6	17.2	18.3	17.3	-0.6%
Lower 48 Reserve Additions												
Crude Oil (billion barrels) 1/	1.53	1.30	1.30	1.46	1.46	1.44	1.24	1.21	1.19	1.56	1.11	-0.8%
Onshore	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.65	0.64	0.63	0.2%
Offshore	0.81	0.59	0.60	0.77	0.78	0.77	0.57	0.56	0.54	0.93	0.48	-1.8%
Dry Natural Gas (trillion cubic feet)	20.8	19.3	17.7	17.5	17.7	18.7	18.3	17.1	17.6	19.2	17.2	-0.9%
Onshore	14.1	14.0	13.7	13.6	13.8	13.7	13.6	13.6	13.4	13.4	13.3	-1.4%
Associated-Dissolved 2/	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	-0.7%
Non-Associated	13.0	13.0	12.6	12.6	12.8	12.7	12.6	12.6	12.4	12.4	12.3	-1.4%
Conventional	5.0	4.9	4.8	4.7	4.7	4.7	4.6	4.5	4.4	4.3	4.2	-0.8%
Unconventional	8.0	8.1	7.9	7.9	8.1	8.1	8.0	8.1	8.1	8.1	8.1	-1.7%
Offshore	6.7	5.3	4.1	3.9	3.9	5.0	4.7	3.5	4.2	5.8	3.9	1.2%
Associated-Dissolved 2/	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	9.4%
Non-Associated	5.3	3.9	2.7	2.5	2.5	3.6	3.4	2.2	2.9	4.5	2.6	-0.4%

Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions

1/ Includes lease condensate.

2/ Gas which occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved).

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2002: Energy Information Administration (EIA), U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, EIA/DOE-0216(2002) (Washington, DC, December 2003) and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2003: EIA, OIAF. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 104. Natural Gas Imports and Exports

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Volumes (trillion cubic feet)													
Total Net Imports	3.50	3.24	3.28	3.37	3.64	3.75	4.13	4.20	4.94	5.16	5.50	6.05	6.38
Total Imports	4.02	3.93	3.98	4.12	4.42	4.48	4.83	4.80	5.59	5.87	6.23	6.81	7.16
Pipeline Imports from Canada	3.78	3.42	3.28	3.31	3.22	3.06	2.88	2.80	2.90	3.02	3.06	3.08	3.15
Pipeline Imports from Mexico	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.19	0.19	0.19	0.19	0.19	0.19
Liquefied Natural Gas Imports	0.23	0.51	0.70	0.82	1.20	1.36	1.82	1.82	2.50	2.67	2.99	3.55	3.82
Total Exports	0.52	0.69	0.70	0.75	0.78	0.74	0.70	0.60	0.65	0.71	0.73	0.76	0.78
Pipeline Exports to Canada	0.19	0.29	0.29	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Pipeline Exports to Mexico	0.26	0.33	0.34	0.38	0.39	0.35	0.31	0.26	0.32	0.38	0.41	0.43	0.46
Liquefied Natural Gas Exports	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.02	0.00	0.00	0.00	0.00	0.00
Border Prices (2003 dollars per thousand cubic feet)													
Average Import Price	3.21	5.17	5.41	5.64	5.04	4.66	4.34	4.17	4.02	4.01	4.02	4.13	4.29
Pipeline Import Prices													
From Canada	3.19	5.23	5.34	5.66	5.12	4.84	4.59	4.34	4.12	4.07	4.00	4.10	4.24
From Mexico	2.40	N/A	N/A	N/A	4.68	5.41	4.88	4.33	3.94	3.81	4.01	4.32	4.57
Liquefied Natural Gas Price (including regasification)	3.55	4.78	5.71	5.59	4.81	4.27	3.95	3.91	3.90	3.94	4.05	4.16	4.34

Table 104. Natural Gas Imports and Exports

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Volumes (trillion cubic feet)												
Total Net Imports	7.02	7.43	7.26	7.25	7.54	7.89	8.11	8.48	8.69	8.71	8.66	4.6%
Total Imports	7.82	8.25	8.11	8.12	8.43	8.75	8.93	9.25	9.48	9.52	9.48	4.1%
Pipeline Imports from Canada	3.31	3.29	3.14	3.14	3.09	3.02	3.09	3.13	3.02	2.96	2.87	-0.8%
Pipeline Imports from Mexico	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.25	N/A
Liquefied Natural Gas Imports	4.33	4.78	4.78	4.79	5.16	5.54	5.65	5.94	6.27	6.37	6.37	12.2%
Total Exports	0.80	0.83	0.85	0.87	0.89	0.86	0.82	0.77	0.79	0.81	0.82	0.8%
Pipeline Exports to Canada	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.4%
Pipeline Exports to Mexico	0.48	0.50	0.53	0.55	0.57	0.53	0.49	0.45	0.47	0.48	0.50	1.9%
Liquefied Natural Gas Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Border Prices (2003 dollars per thousand cubic feet)												
Average Import Price	4.37	4.40	4.47	4.63	4.80	4.85	4.94	4.99	4.99	5.05	5.11	-0.1%
Pipeline Import Prices												
From Canada	4.25	4.37	4.42	4.58	4.74	4.74	4.88	5.00	5.05	5.17	5.24	0.0%
From Mexico	4.65	4.13	3.64	3.69	4.09	4.57	4.78	4.74	4.80	4.96	5.09	3.5%
Liquefied Natural Gas Price (including regasification)	4.46	4.42	4.50	4.67	4.83	4.91	4.97	4.99	4.96	4.99	5.06	0.3%

Table 104. Natural Gas Imports and Exports

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2005 National Energy Modeling System.

Sources: 2002 and 2003: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004) and EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 105. Natural Gas Consumption by End-Use Sector and Census Division (Trillion Cubic Feet per Year)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential													
New England	0.18	0.20	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Middle Atlantic	0.83	0.92	0.87	0.87	0.87	0.88	0.90	0.90	0.91	0.92	0.93	0.92	0.92
East North Central	1.41	1.48	1.40	1.40	1.41	1.43	1.46	1.48	1.50	1.52	1.53	1.53	1.53
West North Central	0.46	0.46	0.46	0.47	0.47	0.48	0.49	0.50	0.50	0.51	0.51	0.51	0.51
South Atlantic	0.44	0.48	0.48	0.50	0.52	0.54	0.56	0.57	0.59	0.60	0.61	0.62	0.63
East South Central	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24
West South Central	0.37	0.37	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.41	0.42	0.42	0.42
Mountain	0.35	0.35	0.36	0.38	0.39	0.40	0.42	0.44	0.46	0.47	0.48	0.49	0.50
Pacific	0.65	0.64	0.63	0.67	0.67	0.68	0.70	0.71	0.73	0.74	0.75	0.75	0.76
Total	4.89	5.10	4.96	5.06	5.12	5.21	5.34	5.43	5.52	5.61	5.68	5.69	5.72
Commercial													
New England	0.13	0.14	0.14	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15
Middle Atlantic	0.63	0.65	0.64	0.60	0.61	0.62	0.63	0.64	0.64	0.65	0.65	0.66	0.66
East North Central	0.71	0.72	0.70	0.70	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.79	0.79
West North Central	0.29	0.29	0.29	0.28	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31
South Atlantic	0.34	0.35	0.35	0.35	0.36	0.38	0.39	0.40	0.41	0.42	0.42	0.43	0.44
East South Central	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18
West South Central	0.30	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.34
Mountain	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.25	0.26	0.26	0.27	0.27
Pacific	0.35	0.34	0.34	0.35	0.35	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.41
Total	3.11	3.13	3.10	3.06	3.11	3.18	3.26	3.33	3.39	3.44	3.48	3.52	3.55
Industrial 1/													
New England	0.15	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
Middle Atlantic	0.39	0.36	0.37	0.37	0.40	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43
East North Central	1.22	1.15	1.16	1.19	1.19	1.21	1.23	1.25	1.28	1.30	1.31	1.31	1.33
West North Central	0.42	0.40	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.47	0.47	0.48
South Atlantic	0.58	0.53	0.53	0.55	0.56	0.56	0.58	0.58	0.59	0.59	0.60	0.60	0.60
East South Central	0.48	0.44	0.45	0.46	0.46	0.47	0.48	0.48	0.50	0.51	0.52	0.52	0.52
West South Central	3.16	2.91	2.93	2.99	3.06	3.07	3.11	3.13	3.27	3.40	3.47	3.52	3.54
Mountain	0.25	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.29
Pacific	0.89	0.83	0.85	0.87	0.92	0.92	0.93	0.94	0.94	0.94	0.94	0.93	0.92
Total	7.53	6.99	7.07	7.22	7.41	7.46	7.59	7.66	7.87	8.06	8.16	8.23	8.26
Electric Power 2/													
New England	0.34	0.32	0.32	0.31	0.32	0.34	0.36	0.38	0.39	0.40	0.40	0.41	0.41
Middle Atlantic	0.58	0.42	0.54	0.53	0.52	0.53	0.61	0.64	0.67	0.69	0.74	0.78	0.83
East North Central	0.31	0.20	0.38	0.38	0.38	0.38	0.39	0.43	0.46	0.51	0.51	0.54	0.57
West North Central	0.07	0.07	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.14	0.15	0.16	0.17
South Atlantic	0.73	0.68	0.58	0.59	0.61	0.64	0.70	0.76	0.84	0.91	0.99	1.07	1.12
East South Central	0.29	0.20	0.34	0.32	0.30	0.29	0.35	0.39	0.43	0.47	0.49	0.52	0.57
West South Central	2.12	1.90	1.53	1.58	1.60	1.67	1.79	1.90	2.00	2.11	2.23	2.32	2.42
Mountain	0.39	0.38	0.63	0.54	0.57	0.58	0.64	0.72	0.78	0.83	0.87	0.89	0.87
Pacific	0.82	0.79	0.80	0.78	0.79	0.85	0.93	0.99	1.05	1.11	1.16	1.17	1.20
Total	5.65	4.96	5.23	5.16	5.20	5.39	5.89	6.33	6.74	7.17	7.53	7.86	8.16
Transportation 3/													
New England	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Middle Atlantic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
East North Central	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
West North Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
South Atlantic	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
East South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
West South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Mountain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Pacific	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 105. Natural Gas Consumption by End-Use Sector and Census Division (Trillion Cubic Feet per Year)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08
All Sectors 4/													
New England	0.80	0.79	0.78	0.78	0.79	0.82	0.85	0.86	0.88	0.89	0.90	0.91	0.92
Middle Atlantic	2.44	2.35	2.42	2.37	2.41	2.45	2.55	2.61	2.65	2.70	2.76	2.80	2.85
East North Central	3.64	3.55	3.65	3.67	3.69	3.74	3.83	3.92	4.01	4.11	4.14	4.18	4.23
West North Central	1.24	1.22	1.28	1.29	1.30	1.32	1.34	1.37	1.40	1.42	1.45	1.46	1.48
South Atlantic	2.09	2.05	1.95	2.00	2.06	2.12	2.23	2.32	2.43	2.53	2.63	2.73	2.81
East South Central	1.12	1.00	1.13	1.14	1.14	1.14	1.22	1.27	1.34	1.40	1.42	1.46	1.52
West South Central	5.95	5.47	5.10	5.23	5.32	5.43	5.61	5.76	6.01	6.26	6.46	6.61	6.73
Mountain	1.20	1.16	1.45	1.39	1.43	1.46	1.56	1.66	1.76	1.85	1.90	1.94	1.94
Pacific	2.71	2.61	2.63	2.67	2.74	2.82	2.93	3.01	3.10	3.18	3.25	3.27	3.30
Total	21.20	20.19	20.38	20.53	20.87	21.29	22.13	22.79	23.58	24.33	24.91	25.37	25.77

Table 105. Natural Gas Consumption by End-Use Sector and Census Division (Trillion Cubic Feet per Year)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential												
New England	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.3%
Middle Atlantic	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.0%
East North Central	1.53	1.53	1.53	1.53	1.52	1.52	1.51	1.51	1.51	1.51	1.50	0.1%
West North Central	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50	0.4%
South Atlantic	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	2.0%
East South Central	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.4%
West South Central	0.43	0.43	0.43	0.44	0.44	0.44	0.45	0.45	0.46	0.47	0.47	1.1%
Mountain	0.51	0.52	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.60	0.61	2.6%
Pacific	0.76	0.77	0.77	0.78	0.78	0.79	0.79	0.79	0.80	0.81	0.81	1.1%
Total	5.74	5.78	5.80	5.83	5.85	5.88	5.88	5.90	5.93	5.98	5.99	0.7%
Commercial												
New England	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.9%
Middle Atlantic	0.66	0.66	0.67	0.67	0.67	0.67	0.68	0.68	0.69	0.69	0.70	0.3%
East North Central	0.80	0.80	0.81	0.82	0.83	0.83	0.84	0.85	0.85	0.87	0.88	0.9%
West North Central	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.6%
South Atlantic	0.45	0.46	0.46	0.47	0.48	0.49	0.49	0.50	0.51	0.52	0.53	1.9%
East South Central	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	1.8%
West South Central	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.40	0.41	1.5%
Mountain	0.28	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.34	0.34	2.3%
Pacific	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.46	0.47	0.48	0.49	1.6%
Total	3.58	3.63	3.68	3.73	3.76	3.80	3.84	3.88	3.94	3.99	4.05	1.2%
Industrial 1/												
New England	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	1.3%
Middle Atlantic	0.44	0.44	0.44	0.45	0.46	0.46	0.47	0.47	0.48	0.49	0.50	1.5%
East North Central	1.33	1.33	1.35	1.36	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.1%
West North Central	0.48	0.48	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.52	0.52	1.2%
South Atlantic	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.64	0.64	0.65	0.66	1.0%
East South Central	0.52	0.53	0.53	0.54	0.54	0.54	0.55	0.55	0.56	0.56	0.56	1.1%
West South Central	3.54	3.56	3.59	3.60	3.62	3.64	3.67	3.70	3.73	3.75	3.77	1.2%
Mountain	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	1.8%
Pacific	0.91	0.95	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.01	1.03	1.0%
Total	8.26	8.35	8.47	8.53	8.59	8.64	8.71	8.78	8.86	8.93	9.00	1.2%
Electric Power 2/												
New England	0.42	0.42	0.44	0.45	0.46	0.46	0.47	0.49	0.50	0.52	0.51	2.1%
Middle Atlantic	0.88	0.90	0.94	0.95	0.95	1.02	1.01	0.99	0.99	1.00	1.00	4.0%
East North Central	0.61	0.65	0.71	0.76	0.80	0.82	0.84	0.86	0.90	0.95	1.00	7.6%
West North Central	0.18	0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	4.9%
South Atlantic	1.15	1.21	1.26	1.29	1.33	1.36	1.35	1.34	1.32	1.33	1.33	3.1%
East South Central	0.62	0.69	0.74	0.76	0.82	0.81	0.81	0.82	0.81	0.85	0.86	7.0%
West South Central	2.47	2.51	2.57	2.62	2.66	2.68	2.71	2.74	2.70	2.72	2.69	1.6%
Mountain	0.83	0.81	0.82	0.79	0.74	0.71	0.69	0.66	0.62	0.60	0.58	2.0%
Pacific	1.23	1.28	1.28	1.38	1.39	1.39	1.37	1.36	1.31	1.31	1.26	2.2%
Total	8.39	8.64	8.96	9.21	9.36	9.45	9.45	9.45	9.37	9.48	9.43	3.0%
Transportation 3/												
New England	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.0%
Middle Atlantic	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.8%
East North Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.4%
West North Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.2%
South Atlantic	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	7.3%
East South Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.6%
West South Central	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.0%
Mountain	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.2%
Pacific	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	7.4%

Table 105. Natural Gas Consumption by End-Use Sector and Census Division (Trillion Cubic Feet per Year)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	7.6%
All Sectors 4/												
New England	0.93	0.93	0.96	0.98	0.99	1.00	1.01	1.03	1.05	1.07	1.07	1.4%
Middle Atlantic	2.90	2.94	2.99	3.01	3.01	3.09	3.08	3.08	3.09	3.12	3.13	1.3%
East North Central	4.28	4.33	4.41	4.48	4.54	4.57	4.60	4.63	4.70	4.77	4.83	1.4%
West North Central	1.48	1.49	1.51	1.53	1.54	1.54	1.54	1.54	1.55	1.56	1.55	1.1%
South Atlantic	2.86	2.94	3.01	3.06	3.13	3.18	3.19	3.20	3.21	3.25	3.28	2.1%
East South Central	1.57	1.64	1.70	1.73	1.79	1.79	1.79	1.82	1.82	1.86	1.88	2.9%
West South Central	6.78	6.86	6.96	7.03	7.10	7.15	7.22	7.28	7.30	7.35	7.35	1.3%
Mountain	1.92	1.93	1.96	1.96	1.93	1.91	1.90	1.90	1.88	1.88	1.88	2.2%
Pacific	3.33	3.43	3.49	3.61	3.63	3.64	3.63	3.64	3.59	3.63	3.60	1.5%
Total	26.05	26.48	26.99	27.39	27.65	27.86	27.97	28.12	28.20	28.48	28.58	1.6%

Table 105. Natural Gas Consumption by End-Use Sector and Census Division (Trillion Cubic Feet per Year)

1/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy. Excludes lease and plant fuel.

2/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

3/ Compressed natural gas used as a vehicle fuel.

4/ Excludes lease and plant fuel and natural gas used for pipeline compressor station fuel.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2005 National Energy Modeling System.

Sources: 2002 and 2003 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division (2003 Dollars per Thousand Cubic Feet)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Residential													
New England	10.68	12.52	12.95	12.96	12.11	11.60	11.18	10.92	10.68	10.59	10.61	10.74	10.92
Middle Atlantic	9.26	10.48	11.58	11.55	10.67	10.10	9.65	9.44	9.20	9.11	9.18	9.30	9.51
East North Central	7.01	8.53	9.41	9.57	8.79	8.19	7.66	7.41	7.17	7.07	7.15	7.27	7.46
West North Central	7.18	8.84	9.27	9.51	8.85	8.33	7.82	7.52	7.26	7.15	7.22	7.35	7.53
South Atlantic	9.99	11.65	11.54	11.32	10.37	9.74	9.28	9.16	8.95	8.89	8.99	9.09	9.29
East South Central	8.62	10.02	10.42	10.29	9.42	8.83	8.33	8.22	8.03	7.98	8.09	8.22	8.42
West South Central	7.80	9.38	10.35	10.31	9.46	8.86	8.34	8.23	8.04	7.98	8.08	8.21	8.39
Mountain	7.28	7.75	8.70	9.10	8.68	8.22	7.64	7.18	6.88	6.74	6.87	7.02	7.17
Pacific	7.66	9.02	9.79	10.13	9.67	9.26	8.77	8.35	8.04	7.89	7.95	8.09	8.24
Average	8.04	9.49	10.23	10.33	9.58	9.03	8.53	8.27	8.02	7.92	8.00	8.13	8.31
Commercial													
New England	8.57	10.66	10.47	10.47	9.73	9.32	9.02	8.84	8.70	8.69	8.68	8.76	8.89
Middle Atlantic	6.79	8.72	9.41	9.41	8.65	8.19	7.87	7.77	7.65	7.68	7.72	7.81	7.98
East North Central	6.74	7.93	8.31	8.41	7.75	7.28	6.88	6.76	6.64	6.67	6.75	6.86	7.03
West North Central	6.06	7.87	8.07	8.31	7.78	7.38	7.00	6.82	6.68	6.69	6.75	6.86	7.02
South Atlantic	7.84	9.57	9.64	9.44	8.63	8.14	7.82	7.81	7.72	7.78	7.87	7.94	8.13
East South Central	7.56	8.73	9.07	8.91	8.16	7.69	7.33	7.34	7.26	7.33	7.43	7.53	7.71
West South Central	6.10	7.88	7.90	7.78	7.05	6.58	6.20	6.21	6.16	6.22	6.32	6.43	6.60
Mountain	6.19	6.56	7.26	7.64	7.34	7.00	6.56	6.24	6.06	6.03	6.16	6.29	6.41
Pacific	6.59	7.72	8.39	8.74	8.41	8.15	7.82	7.52	7.33	7.29	7.32	7.43	7.54
Average	6.81	8.31	8.69	8.75	8.11	7.68	7.32	7.20	7.07	7.09	7.16	7.26	7.42
Industrial 1/													
New England	5.32	7.30	7.71	7.68	6.92	6.50	6.18	5.99	5.82	5.80	5.79	5.87	6.01
Middle Atlantic	4.96	6.74	7.08	7.04	6.26	5.78	5.45	5.32	5.18	5.19	5.24	5.33	5.50
East North Central	4.46	6.29	6.67	6.79	6.11	5.62	5.21	5.06	4.92	4.94	5.01	5.12	5.29
West North Central	3.99	5.60	6.12	6.37	5.79	5.37	4.97	4.75	4.58	4.57	4.62	4.74	4.90
South Atlantic	4.71	6.63	6.95	6.80	5.94	5.43	5.10	5.08	4.97	5.02	5.11	5.19	5.38
East South Central	4.50	5.84	6.56	6.45	5.65	5.15	4.78	4.77	4.65	4.67	4.76	4.86	5.03
West South Central	3.33	5.16	5.78	5.67	4.89	4.39	4.00	4.00	3.88	3.90	3.99	4.09	4.26
Mountain	4.63	5.58	6.41	6.85	6.52	6.15	5.70	5.36	5.14	5.08	5.20	5.32	5.44
Pacific	4.18	5.64	5.91	6.31	6.14	5.83	5.46	5.18	4.97	4.92	4.96	5.08	5.21
Average	4.00	5.72	6.22	6.25	5.59	5.12	4.74	4.65	4.50	4.50	4.57	4.67	4.84
Electric Power 2/													
New England	4.09	6.02	6.13	6.04	5.34	5.00	4.77	4.63	4.52	4.55	4.60	4.70	4.83
Middle Atlantic	4.18	6.30	6.24	6.05	5.23	4.73	4.44	4.32	4.17	4.19	4.27	4.38	4.58
East North Central	3.63	5.05	5.92	5.91	5.20	4.69	4.27	4.12	3.98	4.01	4.11	4.25	4.45
West North Central	3.55	5.59	6.18	6.26	5.65	5.19	4.77	4.54	4.35	4.35	4.42	4.56	4.76
South Atlantic	4.13	6.07	6.48	6.28	5.45	4.94	4.62	4.60	4.49	4.59	4.71	4.82	5.05
East South Central	3.62	5.82	6.19	5.95	5.15	4.63	4.29	4.27	4.19	4.26	4.39	4.52	4.74
West South Central	3.55	5.52	5.75	5.52	4.73	4.23	3.85	3.87	3.83	3.90	4.03	4.17	4.35
Mountain	3.54	5.05	6.16	6.50	6.21	5.84	5.44	5.15	4.96	4.91	5.06	5.21	5.32
Pacific	3.77	5.00	6.38	6.66	6.24	5.95	5.63	5.31	5.12	5.10	5.17	5.30	5.40
Average	3.76	5.57	6.10	6.04	5.37	4.93	4.59	4.47	4.36	4.39	4.50	4.63	4.79
Transportation 3/													
New England	7.93	9.24	10.24	10.22	9.59	9.29	9.07	8.95	8.84	8.89	8.92	9.04	9.21
Middle Atlantic	8.20	10.10	10.82	10.76	10.12	9.76	9.54	9.45	9.39	9.45	9.50	9.57	9.71
East North Central	8.32	10.18	10.72	10.82	10.24	9.83	9.49	9.39	9.28	9.33	9.42	9.54	9.72
West North Central	6.73	8.72	9.28	9.52	9.09	8.80	8.50	8.36	8.26	8.30	8.39	8.54	8.72
South Atlantic	7.20	9.23	9.94	9.82	9.17	8.81	8.61	8.63	8.64	8.76	8.84	8.94	9.13
East South Central	9.51	11.26	11.93	11.80	11.08	10.64	10.30	10.30	10.23	10.29	10.36	10.43	10.56
West South Central	7.40	9.09	9.84	9.73	9.10	8.71	8.40	8.45	8.43	8.52	8.65	8.79	8.98
Mountain	7.04	8.55	9.50	9.98	9.82	9.59	9.24	8.99	8.84	8.85	9.00	9.17	9.32
Pacific	5.66	7.81	8.37	8.82	8.65	8.50	8.25	8.02	7.89	7.92	8.04	8.22	8.39

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division (2003 Dollars per Thousand Cubic Feet)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Average	7.44	9.31	10.00	10.08	9.56	9.24	8.97	8.88	8.81	8.87	8.96	9.08	9.25
All Sectors 4/													
New England	6.55	8.66	8.83	8.80	8.03	7.57	7.22	7.01	6.83	6.82	6.84	6.92	7.06
Middle Atlantic	6.72	8.67	9.14	9.08	8.24	7.73	7.29	7.11	6.92	6.89	6.91	6.97	7.12
East North Central	5.81	7.48	7.96	8.06	7.35	6.83	6.37	6.18	5.98	5.94	6.02	6.13	6.29
West North Central	5.62	7.36	7.71	7.93	7.32	6.88	6.44	6.19	5.99	5.93	5.98	6.09	6.24
South Atlantic	6.14	8.13	8.44	8.25	7.40	6.87	6.48	6.42	6.24	6.26	6.33	6.40	6.59
East South Central	5.41	7.15	7.49	7.37	6.60	6.10	5.66	5.60	5.45	5.44	5.54	5.64	5.80
West South Central	3.83	5.72	6.22	6.07	5.29	4.78	4.39	4.38	4.28	4.30	4.40	4.51	4.68
Mountain	5.33	6.24	7.02	7.47	7.13	6.75	6.26	5.90	5.66	5.58	5.72	5.86	6.00
Pacific	5.20	6.55	7.31	7.69	7.34	7.00	6.61	6.27	6.04	5.97	6.03	6.16	6.28
Average	5.29	7.04	7.55	7.58	6.90	6.42	6.01	5.85	5.67	5.64	5.71	5.81	5.97

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division (2003 Dollars per Thousand Cubic Feet)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Residential												
New England	11.01	11.09	11.16	11.34	11.54	11.59	11.75	11.88	11.92	12.04	12.14	-0.1%
Middle Atlantic	9.65	9.67	9.75	9.93	10.13	10.24	10.38	10.47	10.49	10.59	10.69	0.1%
East North Central	7.60	7.58	7.62	7.75	7.94	8.08	8.21	8.26	8.28	8.35	8.42	-0.1%
West North Central	7.67	7.66	7.64	7.75	7.95	8.11	8.26	8.34	8.39	8.48	8.56	-0.1%
South Atlantic	9.44	9.40	9.49	9.67	9.87	10.00	10.08	10.11	10.10	10.14	10.23	-0.6%
East South Central	8.57	8.55	8.66	8.84	9.02	9.16	9.26	9.28	9.27	9.32	9.41	-0.3%
West South Central	8.53	8.51	8.60	8.78	8.94	9.06	9.15	9.16	9.13	9.15	9.22	-0.1%
Mountain	7.35	7.21	6.95	6.98	7.23	7.50	7.69	7.77	7.86	8.00	8.12	0.2%
Pacific	8.38	8.39	8.30	8.32	8.50	8.68	8.90	9.03	9.09	9.22	9.32	0.2%
Average	8.45	8.43	8.44	8.57	8.76	8.91	9.05	9.12	9.15	9.24	9.33	-0.1%
Commercial												
New England	8.93	8.97	8.99	9.12	9.27	9.28	9.39	9.48	9.48	9.57	9.62	-0.5%
Middle Atlantic	8.08	8.08	8.12	8.26	8.43	8.51	8.60	8.66	8.65	8.72	8.79	0.0%
East North Central	7.16	7.13	7.15	7.27	7.43	7.56	7.67	7.71	7.71	7.77	7.83	-0.1%
West North Central	7.15	7.13	7.09	7.19	7.38	7.52	7.65	7.72	7.75	7.83	7.90	0.0%
South Atlantic	8.26	8.20	8.28	8.44	8.61	8.72	8.78	8.79	8.76	8.79	8.86	-0.4%
East South Central	7.83	7.80	7.88	8.04	8.19	8.30	8.37	8.37	8.34	8.37	8.42	-0.2%
West South Central	6.72	6.69	6.77	6.94	7.09	7.20	7.27	7.28	7.24	7.27	7.33	-0.3%
Mountain	6.57	6.41	6.14	6.16	6.39	6.64	6.81	6.87	6.94	7.07	7.17	0.4%
Pacific	7.63	7.63	7.53	7.53	7.68	7.82	7.99	8.08	8.11	8.22	8.28	0.3%
Average	7.54	7.51	7.50	7.61	7.78	7.90	8.01	8.06	8.06	8.12	8.19	-0.1%
Industrial 1/												
New England	6.05	6.10	6.12	6.27	6.42	6.43	6.54	6.63	6.64	6.74	6.79	-0.3%
Middle Atlantic	5.60	5.60	5.65	5.79	5.96	6.03	6.13	6.19	6.18	6.25	6.32	-0.3%
East North Central	5.42	5.40	5.42	5.54	5.70	5.82	5.93	5.97	5.98	6.04	6.10	-0.1%
West North Central	5.01	5.00	4.96	5.06	5.24	5.37	5.51	5.57	5.60	5.69	5.76	0.1%
South Atlantic	5.51	5.46	5.55	5.71	5.89	6.00	6.05	6.06	6.03	6.07	6.14	-0.3%
East South Central	5.16	5.12	5.22	5.38	5.54	5.65	5.71	5.71	5.68	5.71	5.77	-0.1%
West South Central	4.38	4.35	4.45	4.62	4.77	4.89	4.95	4.95	4.92	4.96	5.02	-0.1%
Mountain	5.60	5.44	5.18	5.22	5.44	5.69	5.85	5.91	5.99	6.12	6.22	0.5%
Pacific	5.31	5.29	5.17	5.20	5.35	5.50	5.69	5.79	5.84	5.95	6.02	0.3%
Average	4.96	4.93	4.96	5.10	5.26	5.38	5.48	5.51	5.51	5.56	5.63	-0.1%
Electric Power 2/												
New England	4.88	4.93	4.97	5.13	5.29	5.30	5.42	5.52	5.53	5.65	5.70	-0.3%
Middle Atlantic	4.71	4.71	4.79	4.95	5.11	5.21	5.30	5.35	5.34	5.42	5.49	-0.6%
East North Central	4.59	4.59	4.64	4.79	4.97	5.10	5.21	5.26	5.28	5.37	5.44	0.3%
West North Central	4.88	4.87	4.87	4.99	5.17	5.30	5.42	5.50	5.53	5.63	5.68	0.1%
South Atlantic	5.19	5.17	5.29	5.46	5.64	5.75	5.79	5.80	5.76	5.80	5.86	-0.2%
East South Central	4.89	4.90	5.02	5.20	5.37	5.47	5.54	5.55	5.51	5.56	5.62	-0.2%
West South Central	4.49	4.46	4.56	4.74	4.90	5.01	5.08	5.09	5.06	5.10	5.15	-0.3%
Mountain	5.43	5.22	4.95	4.95	5.14	5.38	5.54	5.59	5.66	5.80	5.90	0.7%
Pacific	5.41	5.36	5.25	5.31	5.43	5.51	5.67	5.76	5.78	5.88	5.92	0.8%
Average	4.90	4.87	4.89	5.03	5.20	5.31	5.40	5.44	5.43	5.49	5.55	0.0%
Transportation 3/												
New England	9.28	9.34	9.38	9.53	9.69	9.70	9.81	9.90	9.91	10.01	10.05	0.4%
Middle Atlantic	9.81	9.84	9.89	9.99	10.11	10.16	10.23	10.27	10.28	10.33	10.37	0.1%
East North Central	9.85	9.82	9.83	9.94	10.08	10.18	10.26	10.28	10.25	10.29	10.32	0.1%
West North Central	8.85	8.84	8.81	8.90	9.07	9.19	9.30	9.35	9.36	9.43	9.47	0.4%
South Atlantic	9.27	9.28	9.38	9.52	9.66	9.75	9.80	9.83	9.82	9.86	9.92	0.3%
East South Central	10.66	10.66	10.73	10.84	10.94	11.01	11.07	11.08	11.08	11.11	11.15	0.0%
West South Central	9.12	9.09	9.18	9.34	9.49	9.58	9.64	9.62	9.58	9.59	9.62	0.3%
Mountain	9.49	9.33	9.07	9.10	9.31	9.56	9.72	9.78	9.85	9.97	10.07	0.7%
Pacific	8.53	8.54	8.43	8.45	8.61	8.77	8.96	9.06	9.10	9.21	9.28	0.8%

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division (2003 Dollars per Thousand Cubic Feet)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Average	9.38	9.37	9.37	9.47	9.61	9.72	9.82	9.86	9.86	9.92	9.98	0.3%
All Sectors 4/												
New England	7.11	7.16	7.16	7.29	7.43	7.45	7.55	7.64	7.63	7.71	7.79	-0.5%
Middle Atlantic	7.20	7.19	7.22	7.37	7.54	7.59	7.69	7.77	7.77	7.84	7.92	-0.4%
East North Central	6.41	6.38	6.38	6.49	6.64	6.77	6.87	6.91	6.91	6.96	7.01	-0.3%
West North Central	6.36	6.35	6.31	6.41	6.59	6.73	6.86	6.93	6.96	7.05	7.12	-0.1%
South Atlantic	6.72	6.67	6.76	6.92	7.09	7.21	7.28	7.31	7.29	7.34	7.42	-0.4%
East South Central	5.91	5.86	5.94	6.10	6.24	6.36	6.43	6.43	6.40	6.43	6.49	-0.4%
West South Central	4.81	4.79	4.88	5.05	5.21	5.33	5.40	5.40	5.38	5.42	5.48	-0.2%
Mountain	6.16	5.99	5.73	5.77	6.02	6.29	6.48	6.56	6.66	6.81	6.93	0.5%
Pacific	6.36	6.31	6.20	6.22	6.37	6.50	6.69	6.80	6.86	6.97	7.06	0.3%
Average	6.08	6.05	6.05	6.18	6.34	6.47	6.57	6.62	6.62	6.69	6.77	-0.2%

Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division (2003 Dollars per Thousand Cubic Feet)

1/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy. Excludes lease and plant fuel.

2/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

3/ Compressed natural gas used as a vehicle fuel, including federal and state fuel taxes. Excludes dispensing charges for fleet vehicles.

4/ Weighted average price. Weights used are the sector consumption values.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2005 National Energy Modeling System.

Sources: 2002 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004). 2003 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 and 2003 electric power sector natural gas prices: EIA, Electric Power Monthly, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2002 and 2003 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the Natural Gas Monthly, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2002 natural gas delivered prices for the transportation sector are based on: EIA, Natural Gas Annual 2002, DOE/EIA-0131(2002) (Washington, DC, January 2004) and estimated state and federal taxes. 2003 natural gas delivered prices for the transportation sector are model results. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 107. Natural Gas Pipeline Capacity by Census Division (Design Capacity in Billions of Cubic Feet per Year)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Capacity Entering Region 1/													
New England	1221	1255	1318	1384	1500	1538	1538	1848	1848	1848	1848	1848	2003
Middle Atlantic	4554	4714	5092	5330	5390	5390	5390	5390	5390	5390	5390	5390	5390
East North Central	8931	8931	8931	8931	8949	9173	9450	9677	9827	10031	10147	10218	10331
West North Central	7404	7592	7666	7842	7981	7981	8092	8140	8179	8256	8281	8283	8345
South Atlantic	5955	6544	6939	7313	7354	7354	7354	7354	7354	7354	7354	7354	7354
East South Central	9232	9463	9856	10050	10295	10295	10295	10295	10295	10295	10295	10295	10295
West South Central	1861	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873
Mountain	2553	2692	2727	2913	3182	3182	3182	3182	3182	3182	3182	3182	3182
Pacific	4011	4428	4840	5154	5269	5452	5452	5452	5452	5452	5452	5452	5463
Total	45723	47493	49241	50790	51792	52238	52626	53212	53401	53682	53823	53895	54236
United States (Pipeline Imports)	5949	6057	6291	6588	6686	6686	6686	6996	6996	6996	6996	6996	7151
Capacity Exiting Region 2/													
New England	104	188	368	395	416	416	416	416	416	416	416	416	416
Middle Atlantic	2036	2072	2137	2176	2235	2273	2273	2273	2273	2273	2273	2273	2273
East North Central	3449	3454	3454	3454	3454	3454	3454	3454	3454	3454	3454	3454	3454
West North Central	5442	5522	5522	5522	5540	5764	5952	5979	5990	6057	6090	6099	6143
South Atlantic	3369	3394	3394	3413	3452	3452	3452	3452	3452	3452	3452	3452	3452
East South Central	7700	8287	8681	9033	9033	9033	9123	9322	9462	9598	9681	9743	9812
West South Central	14381	14774	15369	15791	16305	16305	16356	16378	16393	16415	16420	16421	16427
Mountain	4933	5494	5955	6397	6650	6834	6894	6920	6944	6999	7019	7020	7087
Pacific	395	517	529	552	552	552	552	552	552	552	552	552	552
Total	41810	43703	45409	46734	47637	48083	48472	48747	48936	49217	49358	49430	49616
United States (Pipeline Exports)	2037	2266	2458	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531

Table 107. Natural Gas Pipeline Capacity by Census Division (Design Capacity in Billions of Cubic Feet per Year)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Capacity Entering Region 1/												
New England	2003	2003	2003	2003	2003	2003	2003	2003	2159	2159	2159	2.5%
Middle Atlantic	5390	5390	5390	5390	5390	5390	5390	5390	5390	5390	5390	0.6%
East North Central	10378	10433	10564	10667	10748	10780	10807	10868	10949	11050	11123	1.0%
West North Central	8368	8806	9243	9243	9243	9244	9340	9436	9450	9481	9501	1.0%
South Atlantic	7354	7354	7354	7354	7354	7354	7354	7354	7354	7354	7354	0.5%
East South Central	10295	10295	10295	10295	10295	10295	10295	10295	10295	10295	10295	0.4%
West South Central	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	N/A
Mountain	3182	3190	3198	3198	3198	3198	3199	3201	3201	3201	3201	0.8%
Pacific	5494	5783	6086	6104	6118	6146	6210	6278	6293	6341	6345	1.6%
Total	54338	55127	56006	56127	56222	56283	56472	56699	56964	57144	57240	0.9%
United States (Pipeline Imports)	7151	7863	8575	8575	8575	8575	8731	8888	9043	9043	9043	1.8%
Capacity Exiting Region 2/												
New England	416	416	416	416	416	416	416	416	416	416	416	3.7%
Middle Atlantic	2273	2273	2273	2273	2273	2273	2273	2273	2273	2273	2273	0.4%
East North Central	3454	3454	3454	3454	3454	3454	3454	3454	3454	3454	3454	N/A
West North Central	6151	6153	6257	6361	6442	6474	6500	6562	6591	6591	6591	0.8%
South Atlantic	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452	3452	0.1%
East South Central	9851	9904	9931	9931	9931	9931	9931	9931	9983	10083	10156	0.9%
West South Central	16428	16428	16428	16428	16428	16428	16428	16428	16428	16428	16428	0.5%
Mountain	7140	7162	7200	7217	7231	7260	7265	7275	7304	7383	7406	1.4%
Pacific	552	552	552	552	552	552	552	552	552	552	552	0.3%
Total	49718	49795	49963	50084	50179	50240	50272	50343	50452	50632	50728	0.7%
United States (Pipeline Exports)	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531	0.5%

Table 107. Natural Gas Pipeline Capacity by Census Division (Design Capacity in Billions of Cubic Feet per Year)

1/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline import capacity.

2/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline export capacity.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division (Fraction)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Utilization Entering Region													
New England	0.66	0.67	0.75	0.74	0.66	0.66	0.67	0.57	0.57	0.58	0.58	0.59	0.54
Middle Atlantic	0.67	0.66	0.63	0.60	0.59	0.60	0.62	0.62	0.62	0.62	0.63	0.63	0.63
East North Central	0.59	0.62	0.61	0.61	0.60	0.59	0.58	0.58	0.57	0.57	0.57	0.56	0.56
West North Central	0.59	0.62	0.61	0.59	0.57	0.56	0.54	0.54	0.53	0.53	0.53	0.53	0.53
South Atlantic	0.64	0.56	0.46	0.44	0.43	0.42	0.44	0.46	0.43	0.44	0.44	0.41	0.41
East South Central	0.61	0.59	0.53	0.53	0.52	0.53	0.57	0.60	0.57	0.59	0.57	0.55	0.56
West South Central	0.30	0.19	0.21	0.20	0.17	0.15	0.13	0.13	0.12	0.13	0.13	0.12	0.12
Mountain	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Pacific	0.63	0.57	0.49	0.48	0.50	0.49	0.51	0.53	0.54	0.56	0.57	0.58	0.58
Average 2/	0.58	0.56	0.53	0.51	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.50	0.50
United States (Pipeline Imports)	0.73	0.66	0.61	0.59	0.56	0.55	0.53	0.51	0.52	0.54	0.54	0.54	0.54
Utilization Exiting Region													
New England	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Middle Atlantic	0.37	0.38	0.42	0.42	0.39	0.39	0.39	0.37	0.37	0.37	0.36	0.35	0.33
East North Central	0.58	0.60	0.57	0.55	0.53	0.52	0.52	0.52	0.51	0.51	0.51	0.50	0.50
West North Central	0.63	0.67	0.66	0.65	0.63	0.58	0.55	0.55	0.54	0.54	0.54	0.54	0.54
South Atlantic	0.54	0.53	0.51	0.50	0.50	0.52	0.55	0.55	0.56	0.56	0.56	0.56	0.56
East South Central	0.63	0.58	0.51	0.50	0.51	0.52	0.55	0.56	0.54	0.55	0.55	0.53	0.53
West South Central	0.48	0.49	0.45	0.45	0.44	0.45	0.48	0.50	0.48	0.49	0.48	0.47	0.47
Mountain	0.57	0.55	0.52	0.51	0.49	0.46	0.46	0.47	0.47	0.47	0.48	0.49	0.49
Pacific	0.11	0.14	0.16	0.19	0.22	0.20	0.19	0.17	0.19	0.22	0.23	0.24	0.24
Average 2/	0.55	0.54	0.51	0.50	0.49	0.49	0.50	0.51	0.50	0.51	0.50	0.50	0.50
United States (Pipeline Exports)	0.38	0.50	0.46	0.47	0.48	0.46	0.45	0.43	0.45	0.48	0.49	0.50	0.51

Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division (Fraction)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Utilization Entering Region												
New England	0.55	0.55	0.56	0.57	0.58	0.53	0.53	0.53	0.50	0.52	0.52	-1.2%
Middle Atlantic	0.64	0.64	0.65	0.65	0.64	0.62	0.62	0.61	0.59	0.59	0.59	-0.5%
East North Central	0.56	0.56	0.56	0.56	0.57	0.56	0.56	0.56	0.56	0.56	0.57	-0.4%
West North Central	0.53	0.51	0.50	0.51	0.51	0.52	0.52	0.51	0.51	0.51	0.51	-0.8%
South Atlantic	0.40	0.37	0.38	0.38	0.38	0.37	0.35	0.35	0.34	0.33	0.33	-2.3%
East South Central	0.55	0.53	0.54	0.54	0.55	0.54	0.53	0.53	0.53	0.54	0.55	-0.3%
West South Central	0.12	0.12	0.14	0.15	0.16	0.16	0.16	0.16	0.16	0.15	0.15	-1.0%
Mountain	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.5%
Pacific	0.59	0.58	0.56	0.58	0.58	0.58	0.57	0.56	0.56	0.56	0.55	-0.1%
Average 2/	0.50	0.49	0.49	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.48	-0.7%
United States (Pipeline Imports)	0.57	0.60	0.62	0.62	0.61	0.60	0.62	0.63	0.61	0.60	0.60	-0.4%
Utilization Exiting Region												
New England	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	N/A
Middle Atlantic	0.32	0.32	0.31	0.30	0.30	0.27	0.26	0.25	0.24	0.24	0.23	-2.2%
East North Central	0.50	0.49	0.49	0.49	0.49	0.48	0.47	0.47	0.46	0.46	0.46	-1.2%
West North Central	0.54	0.54	0.54	0.55	0.55	0.56	0.56	0.55	0.55	0.55	0.55	-0.8%
South Atlantic	0.55	0.55	0.55	0.54	0.53	0.50	0.49	0.49	0.47	0.47	0.47	-0.6%
East South Central	0.52	0.51	0.51	0.51	0.51	0.50	0.49	0.49	0.48	0.48	0.48	-0.8%
West South Central	0.46	0.44	0.44	0.44	0.44	0.43	0.42	0.41	0.41	0.42	0.43	-0.6%
Mountain	0.49	0.44	0.43	0.47	0.50	0.51	0.50	0.49	0.50	0.50	0.50	-0.4%
Pacific	0.25	0.26	0.27	0.28	0.29	0.27	0.26	0.24	0.25	0.26	0.26	3.1%
Average 2/	0.49	0.47	0.47	0.48	0.48	0.48	0.47	0.46	0.46	0.46	0.47	-0.7%
United States (Pipeline Exports)	0.51	0.52	0.53	0.54	0.55	0.54	0.52	0.50	0.51	0.52	0.52	0.2%

Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division (Fraction)

1/ Capacity utilization is defined as the annual throughput volume divided by the design capacity (Table 87).

2/ Weighted average utilization. Weights used are the regional pipeline capacity levels provided in Table 87.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 109. Domestic Coal Supply, Disposition, and Prices (Quantities in Million Short Tons; Prices in 2003 Dollars per Short Ton)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Sources of Supply													
Distribution from													
Appalachia 1/	377.5	367.6	357.4	369.8	365.4	371.9	372.3	372.5	370.0	368.2	364.5	361.3	360.9
Interior	146.9	145.3	141.6	150.0	153.2	155.1	156.2	155.3	158.7	159.4	159.3	156.7	155.8
Northern Great Plains	433.8	435.3	474.8	507.8	509.3	528.3	545.6	564.0	575.6	584.4	596.7	605.4	611.9
Other West and Non-Contiguous	104.4	104.6	99.9	102.6	103.4	104.5	105.0	99.9	91.7	90.8	91.8	94.9	97.4
Total Distribution (excludes exports)	1062.5	1052.8	1073.6	1130.3	1131.2	1159.8	1179.0	1191.7	1196.0	1202.7	1212.2	1218.2	1226.1
Imports	16.9	25.0	23.2	25.5	27.2	29.2	30.7	32.2	33.2	34.2	35.2	36.2	37.2
Total Supply	1079.4	1077.9	1096.8	1155.8	1158.5	1189.0	1209.7	1223.9	1229.3	1237.0	1247.4	1254.4	1263.3
Consumption													
Residential/Commercial	4.4	4.2	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.7
Industrial 2/	63.1	62.0	64.5	65.7	65.0	65.2	65.6	65.7	65.9	65.9	65.9	65.8	65.8
Coke Plants	22.5	24.3	25.4	24.0	23.2	22.4	21.7	20.9	20.1	19.5	19.0	18.5	18.0
Electric Power 3/	975.9	1004.3	1007.0	1042.0	1065.7	1096.6	1117.8	1132.8	1138.5	1146.8	1158.0	1165.8	1175.2
Total Consumption	1065.9	1094.8	1101.9	1136.6	1158.7	1189.1	1210.0	1224.2	1229.3	1237.1	1247.6	1254.8	1263.7
Discrepancy 4/	13.5	-16.9	-5.0	19.2	-0.3	-0.1	-0.3	-0.3	0.0	-0.1	-0.2	-0.4	-0.4
Delivered Prices													
Industrial	36.08	34.74	33.80	34.59	34.42	34.05	34.07	33.93	33.80	33.79	33.56	33.39	33.40
Coke Plants	51.60	50.63	53.84	52.29	51.77	50.93	50.75	50.63	49.87	49.16	48.75	48.60	48.47
Electric Power	26.26	25.86	25.80	25.87	25.90	25.63	25.52	25.19	24.89	24.69	24.54	24.46	24.45
Average Price 5/	27.38	26.91	26.92	26.93	26.90	26.57	26.44	26.10	25.78	25.56	25.39	25.29	25.26

Table 109. Domestic Coal Supply, Disposition, and Prices (Quantities in Million Short Tons; Prices in 2003 Dollars per Short Ton)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Sources of Supply												
Distribution from												
Appalachia 1/	356.7	356.0	352.6	353.0	349.3	354.0	359.6	366.2	375.5	381.3	385.0	0.2%
Interior	157.4	157.3	157.9	161.2	162.3	164.4	167.0	169.7	173.6	177.5	182.0	1.0%
Northern Great Plains	619.7	624.8	631.1	640.4	655.5	660.6	670.2	681.6	696.7	709.2	728.4	2.4%
Other West and Non-Contiguous	101.0	107.0	116.4	117.3	122.4	131.0	136.5	144.1	151.1	160.1	166.3	2.1%
Total Distribution (excludes exports)	1234.8	1245.1	1258.0	1271.9	1289.4	1310.0	1333.4	1361.5	1396.9	1428.1	1461.6	1.5%
Imports	37.7	38.2	39.2	40.2	41.2	41.7	42.7	43.7	44.7	45.2	45.7	2.8%
Total Supply	1272.6	1283.4	1297.2	1312.1	1330.7	1351.7	1376.2	1405.3	1441.6	1473.3	1507.4	1.5%
Consumption												
Residential/Commercial	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.6	0.4%
Industrial 2/	65.7	65.6	65.7	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	0.3%
Coke Plants	17.5	17.0	16.6	16.1	15.7	15.3	14.9	14.5	14.1	13.7	13.4	-2.7%
Electric Power 3/	1185.2	1196.5	1210.8	1226.2	1245.3	1266.9	1291.7	1321.2	1358.0	1390.1	1424.6	1.6%
Total Consumption	1273.1	1283.9	1297.8	1312.7	1331.3	1352.4	1376.9	1406.0	1442.4	1474.1	1508.3	1.5%
Discrepancy 4/	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.9	-12.5%
Delivered Prices												
Industrial	33.44	33.44	33.60	33.70	33.74	33.77	33.85	33.91	34.62	34.66	34.60	0.0%
Coke Plants	48.38	48.22	48.08	48.10	48.13	48.03	47.75	47.25	46.81	46.55	46.14	-0.4%
Electric Power	24.42	24.37	24.43	24.50	24.55	24.66	24.86	25.07	25.71	25.90	25.95	0.0%
Average Price 5/	25.22	25.15	25.20	25.26	25.28	25.37	25.54	25.71	26.33	26.49	26.51	-0.1%

Table 109. Domestic Coal Supply, Disposition, and Prices (Quantities in Million Short Tons; Prices in 2003 Dollars per Short Ton)

1/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

2/ Includes consumption for combined heat and power plants, except those plants whose primary business is to sell electricity, or electricity and heat, to the public.

3/ Includes all electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Includes stock changes.

5/ Weighted average excludes residential/commercial prices.

Appalachia: Pennsylvania, Ohio, Maryland, West Virginia, Virginia, Tennessee, Alabama, Eastern Kentucky.

Interior: Western Kentucky, Illinois, Indiana, Iowa, Missouri, Mississippi, Kansas, Oklahoma, Arkansas, Texas, Louisiana.

Northern Great Plains: North Dakota, Montana, Wyoming.

Other West and Non-Contiguous: Colorado, Utah, Arizona, New Mexico, Washington, Alaska.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 110. Coal Production and Minemouth Prices by Region (Production in Million Short Tons; Prices in 2003 Dollars per Short Ton)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Production													
Appalachia 2/ Interior	408.07	388.38	398.12	407.79	402.93	409.05	408.75	408.59	403.29	398.78	394.03	389.68	389.50
West	146.86	146.29	141.66	150.11	153.29	155.19	156.28	155.39	158.86	159.50	159.34	156.73	155.90
Northern Great Plains	550.44	548.70	585.38	620.70	622.61	642.44	659.97	673.18	676.02	683.43	696.21	707.46	715.99
Other West and Non-Contiguous	441.34	444.04	483.20	515.78	516.87	535.53	552.51	570.66	581.92	590.34	602.27	610.66	616.91
East of Mississippi River	109.10	104.66	102.18	104.93	105.74	106.91	107.46	102.51	94.10	93.09	93.94	96.80	99.08
West of Mississippi River	504.02	480.86	491.67	507.18	504.92	512.35	512.64	510.43	509.54	506.57	502.44	496.36	495.40
United States Total	601.35	602.51	633.49	671.43	673.91	694.32	712.36	726.73	728.64	735.14	747.13	757.51	765.99
United States Total	1105.37	1083.37	1125.16	1178.61	1178.83	1206.67	1225.00	1237.15	1238.18	1241.71	1249.58	1253.87	1261.39
Minemouth Prices													
Appalachia	28.79	28.61	29.92	30.17	29.58	29.34	29.27	29.14	28.82	28.72	28.71	28.67	28.76
Interior	20.53	19.93	20.82	21.57	21.33	21.07	20.99	20.82	21.20	21.38	21.34	21.10	21.09
West	9.80	9.84	10.20	10.30	10.09	9.95	9.91	9.77	9.52	9.43	9.40	9.44	9.52
Northern Great Plains	7.04	7.30	7.92	8.09	7.86	7.79	7.80	7.84	7.79	7.79	7.82	7.85	7.90
Other West and Non-Contiguous	20.96	20.62	20.98	21.17	20.98	20.78	20.79	20.54	20.20	19.83	19.53	19.47	19.64
East of Mississippi River	27.70	27.52	28.86	29.11	28.60	28.35	28.27	28.13	27.92	27.86	27.84	27.77	27.86
West of Mississippi River	10.30	10.28	10.49	10.68	10.43	10.28	10.24	10.13	9.88	9.78	9.73	9.73	9.81
United States Total	18.23	17.93	18.52	18.61	18.21	17.95	17.78	17.56	17.30	17.16	17.01	16.87	16.89

Table 110. Coal Production and Minemouth Prices by Region (Production in Million Short Tons; Prices in 2003 Dollars per Short Ton)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Appalachia 2/	385.50	384.94	381.81	382.24	378.71	384.02	385.28	386.74	396.82	402.53	405.55	0.2%
Interior	157.45	157.37	157.89	161.16	162.30	164.41	167.04	169.66	173.60	177.46	181.98	1.0%
West	726.85	737.42	752.50	762.78	783.03	796.76	812.03	831.02	853.19	874.80	900.23	2.3%
Northern Great Plains	624.35	629.16	635.13	644.46	659.60	664.76	674.51	685.90	701.11	713.66	732.90	2.3%
Other West and Non-Contiguous	102.50	108.27	117.38	118.32	123.43	132.00	137.53	145.13	152.08	161.14	167.33	2.2%
East of Mississippi River	493.02	492.32	490.00	493.96	491.88	499.28	503.16	506.71	520.71	530.14	537.52	0.5%
West of Mississippi River	776.77	787.42	802.21	812.22	832.16	845.91	861.19	880.72	902.89	924.66	950.24	2.1%
United States Total	1269.79	1279.73	1292.20	1306.18	1324.04	1345.19	1364.35	1387.43	1423.60	1454.80	1487.77	1.5%
Minemouth Prices												
Appalachia	28.76	28.71	28.71	28.78	28.80	28.85	28.99	29.04	29.37	29.59	29.72	0.2%
Interior	21.26	21.28	21.45	21.87	22.05	22.21	22.47	22.80	23.18	23.51	23.94	0.8%
West	9.64	9.76	10.10	10.19	10.38	10.63	10.85	11.05	11.84	11.97	11.95	0.9%
Northern Great Plains	7.94	7.96	7.98	8.05	8.13	8.18	8.27	8.32	8.39	8.47	8.57	0.7%
Other West and Non-Contiguous	20.00	20.23	21.52	21.85	22.43	22.99	23.54	23.98	27.74	27.49	26.74	1.2%
East of Mississippi River	27.88	27.84	27.87	28.02	28.07	28.16	28.32	28.39	28.74	28.98	29.18	0.3%
West of Mississippi River	9.91	10.02	10.33	10.42	10.59	10.81	11.02	11.24	11.98	12.10	12.08	0.7%
United States Total	16.89	16.88	16.98	17.07	17.08	17.25	17.40	17.50	18.11	18.25	18.26	0.1%

Table 110. Coal Production and Minemouth Prices by Region (Production in Million Short Tons; Prices in 2003 Dollars per Short Ton)

1/ Coal Production Regions:

Appalachia: Pennsylvania, Ohio, Maryland, West Virginia, Virginia, Tennessee, Alabama, Eastern Kentucky.

Interior: Western Kentucky, Illinois, Indiana, Iowa, Missouri, Mississippi, Kansas, Oklahoma, Arkansas, Texas, Louisiana.

Northern Great Plains = North Dakota, Montana, Wyoming.

Other West and Non-Contiguous = Colorado, Utah, Arizona, New Mexico, Washington, Alaska.

2/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

N/A = Not applicable

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 111. Coal Production by Region and Type (Million Short Tons)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Northern Appalachia 1/ Medium Sulfur (Premium) 2/ Medium Sulfur (Bituminous) High Sulfur (Bituminous) High Sulfur (Gob) 3/	139.91 2.84 66.57 59.40 11.10	137.41 2.30 64.33 59.18 11.60	146.92 3.15 70.67 63.04 10.05	156.16 2.97 72.47 69.00 11.72	154.45 2.87 74.88 66.18 10.53	162.62 2.77 76.36 72.61 10.88	164.09 2.67 78.46 72.25 10.71	168.25 2.57 79.46 73.58 12.63	166.10 2.44 75.05 75.98 12.63	165.82 2.40 73.16 77.49 12.76	168.94 2.34 71.63 82.44 12.53	165.08 2.27 67.22 83.27 12.32	166.58 2.21 68.29 83.84 12.24
Central Appalachia Medium Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	249.09 33.97 63.89 151.23	230.76 36.00 52.16 142.60	230.00 41.92 52.59 135.48	230.02 38.85 53.33 137.84	226.94 38.05 52.24 136.66	224.66 37.27 52.42 134.97	222.92 36.53 51.27 135.13	218.34 35.79 48.53 134.02	215.03 32.94 50.24 131.85	211.52 30.39 48.39 132.73	202.79 27.87 46.29 128.62	204.30 28.45 46.59 129.25	200.91 26.45 46.95 127.50
Southern Appalachia Low Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	19.07 4.59 3.07 11.41	20.21 5.28 2.98 11.95	21.20 6.46 2.81 11.93	21.62 6.10 3.02 12.50	21.54 6.04 3.02 12.48	21.77 5.97 3.08 12.71	21.73 5.67 3.11 12.95	22.00 5.61 3.26 13.13	22.16 4.96 3.43 13.77	21.44 4.34 3.42 13.68	22.30 5.34 3.43 13.53	20.31 3.11 3.43 13.77	22.01 4.80 3.43 13.77
Eastern Interior Medium Sulfur (Bituminous) High Sulfur (Bituminous) Medium Sulfur (Lignite)	95.95 32.98 60.66 2.31	92.48 30.13 58.65 3.70	93.56 31.85 60.34 1.37	99.39 33.81 63.82 1.76	101.98 34.53 65.41 2.05	103.30 34.93 66.00 2.37	103.89 35.21 66.30 2.38	101.84 35.24 64.21 2.39	106.25 37.07 66.79 2.39	107.79 38.16 67.24 2.39	108.41 38.16 67.87 2.39	106.68 37.89 66.41 2.39	105.90 37.50 65.94 2.46
Western Interior High Sulfur (Bituminous)	1.89	2.30	1.32	1.79	1.37	1.70	1.76	2.11	2.02	1.95	1.97	1.91	1.93
Gulf Medium Sulfur (Lignite) High Sulfur (Lignite)	49.02 26.69 22.33	51.51 18.34 33.17	46.79 14.61 32.18	48.93 14.02 34.92	49.94 13.31 36.63	50.18 12.45 37.73	50.63 11.40 39.23	51.44 9.77 41.68	50.60 8.61 41.99	49.75 7.46 42.29	48.95 8.92 40.04	48.14 9.75 38.39	48.07 9.68 38.39
Dakota Medium Sulfur (Lignite)	31.13	31.14	30.62	31.92	31.82	32.17	32.52	32.52	32.35	32.67	32.34	32.33	32.32
Western Montana Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	37.05 0.00 18.95 18.10	36.63 0.03 18.25 18.35	39.54 0.00 22.76 16.78	39.99 0.00 22.98 17.00	35.58 0.00 18.57 17.01	35.49 0.00 18.40 17.08	35.27 0.04 18.17 17.06	34.93 0.46 16.61 17.86	38.05 1.20 18.45 18.40	34.09 1.41 13.04 19.65	35.96 4.17 11.09 20.70	38.44 4.64 12.59 21.21	40.63 4.73 14.05 21.85
Wyoming, Powder River Basin Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	359.61 355.63 3.98	363.36 357.56 5.80	397.57 391.41 6.15	428.13 421.90 6.23	433.58 427.80 5.78	451.73 446.00 5.73	468.47 462.56 5.92	487.73 480.28 7.45	497.07 489.66 7.41	510.76 502.98 7.79	521.80 513.63 8.17	527.74 519.73 8.01	531.80 523.44 8.37
Western Wyoming Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	13.55 0.00 6.42 7.13	12.91 0.00 7.21 5.70	15.48 0.00 9.79 5.69	15.74 0.00 10.01 5.73	15.88 0.00 10.17 5.71	16.14 1.23 9.18 5.74	16.25 2.49 7.98 5.78	15.49 5.75 3.96 5.78	14.45 5.75 3.10 5.60	12.81 5.75 3.07 3.99	12.16 5.75 2.20 4.21	12.15 5.75 2.20 4.20	12.15 5.75 2.20 4.20
Rocky Mountain Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous)	60.41 50.37 10.04	58.90 50.22 8.68	55.59 48.22 7.37	57.85 49.62 8.23	57.90 50.06 7.84	58.32 50.34 7.98	58.42 50.39 8.03	53.75 46.06 7.70	53.44 46.22 7.23	50.30 45.29 5.01	51.03 44.09 6.94	55.54 47.98 7.56	59.33 51.31 8.02
Arizona/New Mexico Low Sulfur (Bituminous) Medium Sulfur (Bituminous) Medium Sulfur (Sub-Bituminous)	41.72 23.02 1.75 16.95	38.45 18.00 5.89 14.56	40.54 19.51 5.73 15.30	40.86 20.48 5.87 14.51	41.40 20.43 5.98 14.99	41.94 19.73 6.06 16.15	42.28 19.98 6.11 16.19	41.92 20.38 6.11 15.43	33.82 20.58 6.11 7.13	35.95 18.17 6.11 11.67	36.08 17.42 6.11 12.56	34.43 16.61 6.11 11.71	32.92 15.34 6.11 11.48
Washington/Alaska Medium Sulfur (Sub-Bituminous)	6.97	7.31	6.05	6.21	6.43	6.65	6.77	6.83	6.84	6.84	6.84	6.84	6.84
Subtotals: All Regions													
Premium Metallurgical 2/	41.40	43.58	51.53	47.91	46.95	46.02	44.86	43.97	40.35	37.14	35.56	33.83	33.46

Table 111. Coal Production by Region and Type (Million Short Tons)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Bituminous	526.24	498.42	503.50	523.55	523.24	532.15	535.46	532.30	536.04	532.97	531.47	530.81	532.39
Sub-Bituminous	444.17	443.42	481.31	512.81	514.31	532.90	548.44	561.90	563.81	574.03	586.33	594.05	600.44
Lignite	93.56	97.95	88.83	94.33	94.34	95.60	96.24	98.98	97.98	97.57	96.22	95.18	95.10
Low Sulfur	535.98	520.37	560.92	595.68	596.18	614.32	629.68	638.60	650.82	650.87	660.36	670.19	680.01
Medium Sulfur	414.01	398.10	397.31	401.68	402.54	403.42	405.06	404.34	387.95	389.10	384.38	381.39	379.03
High Sulfur	155.38	164.90	166.93	181.24	180.11	188.93	190.25	194.21	199.41	201.74	204.84	202.29	202.35
Underground	356.86	352.39	359.07	367.40	365.94	373.57	375.24	372.18	372.06	366.04	367.77	368.14	371.14
Surface	748.51	730.98	766.09	811.21	812.89	833.10	849.75	864.97	866.12	875.67	881.81	885.72	890.25
United States Total	1105.37	1083.37	1125.16	1178.61	1178.83	1206.67	1225.00	1237.15	1238.18	1241.71	1249.58	1253.87	1261.39

Table 111. Coal Production by Region and Type (Million Short Tons)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025	
Northern Appalachia 1/ Medium Sulfur (Premium) 2/ Medium Sulfur (Bituminous) High Sulfur (Bituminous) High Sulfur (Gob) 3/	164.26 2.15 66.19 83.80 12.12	166.04 1.95 68.34 83.62 12.12	165.13 2.03 67.21 83.77 12.12	165.24 1.99 67.37 83.76 12.12	165.23 1.94 67.04 84.25 12.00	169.45 1.90 69.46 86.09 12.00	174.50 1.86 71.47 89.06 12.12	178.86 1.82 73.51 91.28 12.24	185.59 1.72 77.05 94.46 12.36	190.60 1.74 79.63 96.74 12.49	193.70 1.48 81.39 98.22 12.61	2025	1.6% -2.0% 1.1% 2.3% 0.4%
Central Appalachia Medium Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	199.92 26.89 46.86 126.17	196.96 26.05 45.52 125.40	194.90 25.68 44.68 124.54	195.14 25.68 44.25 125.21	192.07 25.74 43.47 122.86	192.33 24.78 42.49 125.06	192.23 24.03 41.87 126.33	189.22 21.15 41.02 127.04	192.00 21.05 41.21 129.74	193.19 20.85 40.57 131.77	190.89 18.94 40.11 131.85	2025	-0.9% -2.9% -1.2% -0.4%
Southern Appalachia Low Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	21.31 4.06 3.43 13.82	21.94 4.75 3.43 13.75	21.78 4.70 3.43 13.65	21.85 4.40 3.62 13.83	21.41 4.07 3.50 13.84	22.24 4.75 3.65 13.84	18.54 1.09 3.67 13.78	18.66 1.02 3.66 13.98	19.23 0.95 3.67 14.61	18.75 0.88 3.67 14.20	20.96 2.81 3.67 14.48	2025	0.2% -2.8% 0.9% 0.9%
Eastern Interior Medium Sulfur (Bituminous) High Sulfur (Bituminous) Medium Sulfur (Lignite)	107.52 37.54 67.52 2.46	107.37 37.37 67.54 2.47	108.19 37.26 68.46 2.46	111.72 37.56 71.70 2.46	113.17 37.51 73.20 2.46	115.26 37.72 75.08 2.46	117.88 38.44 76.99 2.46	119.97 38.94 78.58 2.46	123.89 39.95 81.48 2.45	127.61 41.15 84.00 2.45	131.97 42.28 87.25 2.45	2025	1.6% 1.6% 1.8% -1.9%
Western Interior High Sulfur (Bituminous)	1.93	2.06	2.06	2.08	2.06	2.06	2.06	2.59	2.58	2.71	2.84	2025	1.0%
Gulf Medium Sulfur (Lignite) High Sulfur (Lignite)	48.00 9.58 38.42	47.93 9.48 38.45	47.64 9.31 38.33	47.36 9.41 37.94	47.06 9.12 37.94	47.09 10.52 36.57	47.10 10.42 36.68	47.10 10.31 36.79	47.13 10.21 36.92	47.15 10.11 37.05	47.17 10.13 37.05	2025	-0.4% -2.7% 0.5%
Dakota Medium Sulfur (Lignite)	32.31	32.31	32.30	32.30	32.29	32.28	32.27	32.26	32.26	32.25	32.24	2025	0.2%
Western Montana Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	41.71 4.82 14.42 22.47	42.31 4.99 14.41 22.91	42.93 5.19 14.38 23.36	44.34 5.39 15.14 23.82	45.50 5.68 15.20 24.62	46.85 5.68 15.80 25.36	48.39 5.74 16.78 25.87	49.87 5.85 17.43 26.58	52.42 6.00 19.42 27.00	52.66 6.11 19.29 27.25	53.30 6.23 19.61 27.45	2025	1.7% 27.5% 0.3% 1.8%
Wyoming, Powder River Basin Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	538.19 529.26 8.94	542.41 533.03 9.38	547.76 537.16 10.59	555.66 544.53 11.12	569.65 557.97 11.68	573.48 561.22 12.26	579.92 567.04 12.88	589.83 576.31 13.52	602.51 588.31 14.20	614.83 599.92 14.91	633.43 617.78 15.65	2025	2.6% 2.5% 4.6%
Western Wyoming Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	12.14 5.75 2.19 4.20	12.14 5.75 2.19 4.20	12.14 5.75 2.19 4.20	12.17 5.75 2.19 4.23	12.16 5.75 2.19 4.23	12.16 5.75 2.19 4.22	13.93 5.75 3.95 4.22	13.93 5.75 3.95 4.22	13.93 5.75 3.95 4.23	13.93 5.75 3.95 4.23	13.93 5.75 3.95 4.23	2025	0.3% N/A -2.7% -1.3%
Rocky Mountain Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous)	63.09 54.74 8.34	67.23 58.74 8.49	75.05 66.38 8.66	75.99 66.82 9.16	80.18 70.30 9.89	85.28 74.76 10.52	88.80 78.18 10.62	94.83 83.89 10.94	100.80 89.03 11.77	106.26 93.49 12.77	109.46 97.19 12.27	2025	2.9% 3.0% 1.6%
Arizona/New Mexico Low Sulfur (Bituminous) Medium Sulfur (Bituminous) Medium Sulfur (Sub-Bituminous)	32.57 17.39 6.11 9.07	34.20 16.33 6.11 11.76	35.49 17.27 6.11 12.11	35.49 17.27 6.11 12.11	36.40 17.88 6.11 12.42	39.88 19.86 6.11 13.91	41.88 21.02 6.11 14.76	43.46 22.00 6.11 15.35	44.44 22.51 6.11 15.82	48.04 24.39 6.11 17.55	51.03 26.14 6.11 18.78	2025	1.3% 1.7% 0.2% 1.2%
Washington/Alaska Medium Sulfur (Sub-Bituminous)	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	2025	-0.3%
Subtotals: All Regions Premium Metallurgical 2/	 33.10	 32.75	 32.41	 32.07	 31.74	 31.43	 26.97	 23.99	 23.72	 23.47	 23.22	2025	 -2.8%

Table 111. Coal Production by Region and Type (Million Short Tons)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Bituminous	536.07	538.96	545.77	550.72	553.46	567.61	580.46	594.21	614.14	630.29	643.50	1.2%
Sub-Bituminous	605.73	613.20	619.50	629.15	645.03	652.32	662.97	675.17	691.53	706.71	726.57	2.3%
Lignite	94.90	94.82	94.52	94.24	93.81	93.83	93.94	94.06	94.21	94.34	94.48	-0.2%
Low Sulfur	691.27	697.64	709.80	718.53	735.90	746.66	755.71	771.84	792.57	810.79	835.50	2.2%
Medium Sulfur	374.74	378.30	377.67	380.04	378.68	386.73	391.73	394.10	403.24	411.03	414.30	0.2%
High Sulfur	203.79	203.80	204.74	207.60	209.46	211.80	216.90	221.49	227.80	232.98	237.96	1.7%
Underground	372.48	377.24	384.16	387.50	391.68	400.77	406.57	415.55	431.03	442.11	451.76	1.1%
Surface	897.31	902.50	908.04	918.67	932.36	944.41	957.78	971.88	992.58	1012.68	1036.01	1.6%
United States Total	1269.79	1279.73	1292.20	1306.18	1324.04	1345.19	1364.35	1387.43	1423.60	1454.80	1487.77	1.5%

Table 111. Coal Production by Region and Type (Million Short Tons)

1/ Includes Pennsylvania anthracite.

2/ "Premium" coal is used to make metallurgical coke.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal production tables. The totals for this table include this waste coal tonnage.

Northern Appalachia: Pennsylvania, Maryland, Ohio, Northern West Virginia.

Central Appalachia: Southern West Virginia, Virginia, Eastern Kentucky, Northern Tennessee.

Southern Appalachia: Alabama, Southern Tennessee.

Eastern Interior: Illinois, Indiana, Mississippi, Western Kentucky.

Western Interior: Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas (bituminous).

Gulf (lignite only): Texas, Louisiana, Arkansas.

Dakota: North Dakota, Montana (lignite).

Western Montana: Montana (bituminous and subbituminous).

Wyoming, Powder River Basin: Wyoming portion of Powder River Basin.

Western Wyoming: Wyoming coal basins other than Powder River Basin.

Rocky Mountain: Colorado, Utah.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million British thermal unit.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million British thermal unit.

High Sulfur: Over 1.67 pounds of sulfur per million British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 112. Coal Prices by Region and Type (2003 Dollars per Short Ton)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Northern Appalachia 1/ Medium Sulfur (Premium) 2/ Medium Sulfur (Bituminous) High Sulfur (Bituminous) High Sulfur (Gob) 3/	24.30 32.75 26.45 23.83 11.73	24.53 38.44 26.59 24.30 11.48	26.12 40.34 28.38 25.33 10.70	27.26 39.24 28.82 27.75 11.73	26.26 38.32 28.54 25.61 10.83	26.52 37.26 28.44 26.44 10.81	26.34 36.87 28.58 25.84 10.69	26.25 36.70 28.51 25.83 12.41	25.64 36.39 27.27 25.84 12.61	25.59 36.35 27.10 25.92 12.84	26.07 36.75 27.00 26.99 12.71	26.00 36.77 26.86 27.00 12.51	26.13 37.01 26.86 27.24 12.51
Central Appalachia Medium Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	30.82 34.13 31.41 29.83	30.58 34.77 30.53 29.54	31.92 39.17 31.75 29.74	31.68 37.01 32.18 29.99	31.38 36.62 31.70 29.81	30.93 35.98 31.51 29.32	30.93 35.83 31.46 29.41	30.80 35.77 31.04 29.38	30.60 35.00 31.37 29.21	30.51 34.27 31.23 29.39	30.21 33.81 31.00 29.15	30.22 33.70 31.17 29.11	30.27 33.60 31.53 29.11
Southern Appalachia Low Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	35.23 39.11 36.24 33.40	33.90 36.94 33.75 32.59	34.64 36.57 33.64 33.83	35.03 36.28 34.37 34.59	34.40 36.00 33.94 33.74	34.07 35.61 33.58 33.46	34.29 35.54 33.68 33.90	34.73 35.61 33.92 34.56	35.47 35.59 34.45 35.67	35.26 35.60 34.42 35.36	35.03 35.46 34.48 35.00	34.90 35.43 34.48 34.86	34.96 35.26 34.65 34.94
Eastern Interior Medium Sulfur (Bituminous) High Sulfur (Bituminous) Medium Sulfur (Lignite)	W W W W	W W W W	24.34 26.18 23.63 12.71	24.78 26.74 24.09 12.31	24.73 26.55 24.17 11.85	24.42 26.24 23.92 11.43	24.35 26.24 23.81 11.23	24.06 26.18 23.39 11.13	24.51 26.64 23.80 11.12	24.69 27.00 23.86 11.13	24.69 26.83 23.96 11.15	24.47 26.62 23.73 11.21	24.52 26.62 23.81 11.32
Western Interior High Sulfur (Bituminous)	W	W	25.27	24.62	23.72	23.02	23.05	25.08	24.75	24.65	24.75	24.53	24.61
Gulf Medium Sulfur (Lignite) High Sulfur (Lignite)	W W W	W W W	13.65 15.54 12.80	14.91 15.29 14.76	14.33 14.95 14.11	14.10 14.68 13.91	14.04 14.41 13.94	14.22 14.05 14.26	14.11 13.70 14.20	14.08 13.39 14.20	13.78 13.07 13.94	13.48 12.77 13.66	13.40 12.69 13.58
Dakota Medium Sulfur (Lignite)	W	W	8.87	8.97	8.90	8.81	8.88	8.88	8.83	8.88	8.81	8.82	8.82
Western Montana Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	W W W W	W W W W	10.28 0.00 11.54 8.57	10.01 0.00 11.10 8.53	9.34 0.00 10.21 8.38	9.11 0.00 9.93 8.22	9.03 12.39 9.83 8.17	8.92 11.19 9.70 8.13	8.84 9.90 9.50 8.11	8.66 8.57 9.38 8.18	8.52 8.00 9.10 8.31	8.54 8.51 8.87 8.36	8.56 8.64 8.65 8.48
Wyoming, Powder River Basin Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	W W W	W W W	7.11 7.12 6.45	7.38 7.40 6.37	7.20 7.21 6.08	7.19 7.21 5.90	7.23 7.25 5.87	7.32 7.32 7.10	7.31 7.31 6.85	7.38 7.39 6.79	7.45 7.46 6.81	7.49 7.50 6.53	7.55 7.57 6.65
Western Wyoming Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	W 0.00 W W	W 0.00 W W	20.98 18.97 20.94 21.06	20.73 18.82 20.78 20.64	20.46 18.53 20.52 20.36	19.63 18.23 19.54 20.09	19.30 18.11 19.12 20.07	19.66 19.86 18.93 19.96	19.35 19.41 18.38 19.83	19.07 19.20 17.92 19.76	18.92 19.20 17.48 19.29	18.67 19.15 17.07 18.86	18.43 19.11 16.67 18.43
Rocky Mountain Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous)	18.69 18.27 20.79	18.45 18.39 18.81	18.22 18.25 18.05	18.48 18.49 18.43	18.30 18.34 18.04	18.08 18.12 17.82	18.03 18.05 17.92	17.40 17.36 17.65	17.09 17.04 17.36	16.80 16.77 17.10	16.62 16.57 16.91	16.93 16.88 17.19	17.49 17.46 17.69
Arizona/New Mexico Low Sulfur (Bituminous) Medium Sulfur (Bituminous) Medium Sulfur (Sub-Bituminous)	W W W W	W W W W	24.58 25.15 28.81 22.26	24.82 25.68 29.12 21.86	24.56 25.34 29.13 21.67	24.32 24.62 28.89 22.24	24.32 24.51 28.87 22.38	24.25 24.60 28.83 21.97	24.64 24.73 28.60 20.98	23.54 23.94 28.56 20.29	23.09 23.50 28.46 19.92	22.97 23.26 28.45 19.68	22.89 23.13 28.55 19.57
Washington/Alaska Medium Sulfur (Sub-Bituminous)	W	W	22.20	22.15	22.12	22.19	22.46	22.56	22.61	22.63	22.53	22.52	22.62

Average by Type: All Regions

Table 112. Coal Prices by Region and Type (2003 Dollars per Short Ton)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Premium Metallurgical 2/ Bituminous	34.59	35.23	38.92	37.06	36.65	36.00	35.86	35.80	35.16	34.56	34.25	34.06	34.06
Sub-Bituminous	26.52	26.27	27.07	27.67	27.19	26.98	26.90	26.77	26.62	26.60	26.51	26.41	26.49
Lignite	8.07	8.14	8.65	8.76	8.53	8.47	8.45	8.35	8.08	8.12	8.19	8.20	8.26
	12.65	12.14	11.66	12.46	12.06	11.88	11.86	12.16	12.10	12.11	11.90	11.71	11.68
Low Sulfur	12.16	11.61	12.05	12.12	11.80	11.57	11.42	11.16	11.11	10.88	10.77	10.75	10.93
Medium Sulfur	25.03	25.09	26.43	26.30	26.07	25.73	25.79	25.69	25.36	25.19	24.78	24.65	24.55
High Sulfur	21.10	20.59	21.42	22.89	21.87	22.13	21.80	21.66	21.86	21.94	22.54	22.49	22.61
United States Average	18.23	17.93	18.52	18.61	18.21	17.95	17.78	17.56	17.30	17.16	17.01	16.87	16.89

Table 112. Coal Prices by Region and Type (2003 Dollars per Short Ton)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Northern Appalachia 1/ Medium Sulfur (Premium) 2/ Medium Sulfur (Bituminous)	26.08 36.93 26.87	26.02 36.95 26.77	26.02 36.76 26.73	26.08 36.84 26.77	26.14 36.69 26.81	26.32 36.66 26.90	26.69 36.46 27.18	26.91 36.36 27.40	27.39 36.02 27.93	27.68 35.81 28.28	27.83 35.61 28.54	0.6% -0.3% 0.3%
High Sulfur (Bituminous) High Sulfur (Gob) 3/	27.15 12.48	27.12 12.47	27.14 12.49	27.24 12.52	27.30 12.50	27.55 12.50	28.00 12.66	28.23 12.76	28.68 13.00	28.91 13.21	28.99 13.35	0.8% 0.7%
Central Appalachia Medium Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	30.31 33.56 31.80 29.06	30.26 33.45 31.83 29.04	30.27 33.43 31.88 29.05	30.36 33.55 31.98 29.14	30.40 33.72 32.05 29.13	30.37 33.70 32.03 29.15	30.50 33.49 32.11 29.40	30.49 33.03 32.12 29.54	30.73 32.65 32.27 29.92	30.95 32.51 32.38 30.26	31.06 32.17 32.48 30.47	0.1% -0.4% 0.3% 0.1%
Southern Appalachia Low Sulfur (Premium) 2/ Low Sulfur (Bituminous) Medium Sulfur (Bituminous)	34.97 35.28 34.63 34.96	35.02 35.09 34.67 35.09	35.07 35.12 34.68 35.15	35.01 35.23 34.49 35.08	35.02 35.38 34.51 35.05	35.07 35.35 34.34 35.16	35.00 35.24 34.27 35.17	34.79 34.85 34.15 34.95	34.99 34.41 34.16 35.23	34.93 33.92 34.12 35.20	34.88 33.46 34.13 35.34	0.1% -0.4% 0.1% 0.4%
Eastern Interior Medium Sulfur (Bituminous) High Sulfur (Bituminous) Medium Sulfur (Lignite)	24.72 26.66 24.14 11.38	24.74 26.64 24.18 11.43	24.94 26.64 24.51 11.49	25.41 26.76 25.18 11.53	25.60 26.79 25.45 11.56	25.82 26.85 25.78 11.57	26.12 27.13 26.08 11.58	26.31 27.27 26.29 11.58	26.73 27.64 26.74 11.58	27.08 27.95 27.10 11.59	27.52 28.23 27.63 11.64	0.8% 0.6% 0.9% -0.8%
Western Interior High Sulfur (Bituminous)	24.64	25.58	25.72	26.00	25.99	26.00	26.06	35.61	36.52	36.41	36.41	1.3%
Gulf Medium Sulfur (Lignite) High Sulfur (Lignite)	13.37 12.66 13.54	13.35 12.64 13.52	13.34 12.65 13.51	13.33 12.66 13.50	13.34 12.68 13.50	13.20 12.57 13.39	13.19 12.53 13.37	13.16 12.49 13.35	13.14 12.44 13.33	13.13 12.42 13.32	13.16 12.44 13.36	-0.3% -1.2% 0.1%
Dakota Medium Sulfur (Lignite)	8.79	8.81	8.82	8.78	8.75	8.77	8.75	8.73	8.72	8.75	8.73	0.0%
Western Montana Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	8.55 8.75 8.46 8.57	8.59 8.89 8.42 8.63	8.62 9.16 8.38 8.66	8.72 9.56 8.40 8.72	8.84 10.20 8.38 8.82	8.89 10.17 8.41 8.91	8.98 10.26 8.52 9.00	9.06 10.35 8.62 9.07	9.27 10.39 9.10 9.14	9.24 10.45 9.00 9.14	9.32 10.66 9.06 9.20	0.0% -2.8% -0.5% 0.3%
Wyoming, Powder River Basin Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	7.61 7.62 6.96	7.64 7.65 7.07	7.67 7.67 7.75	7.75 7.73 8.60	7.84 7.81 8.92	7.89 7.87 9.22	7.97 7.93 9.57	8.03 7.99 9.78	8.10 8.06 10.10	8.20 8.15 10.29	8.32 8.27 10.38	1.1% 1.1% 2.4%
Western Wyoming Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous) Medium Sulfur (Sub-Bituminous)	18.21 19.10 16.26 18.00	17.93 19.01 15.82 17.55	17.68 18.92 15.41 17.17	17.59 18.88 15.03 17.15	17.51 18.86 14.67 17.14	17.43 18.83 14.30 17.13	16.93 18.78 14.00 17.16	16.82 18.76 13.67 17.13	16.69 18.68 13.34 17.10	16.70 18.70 13.34 17.11	16.66 18.63 13.34 17.10	-0.8% N/A -1.6% -1.0%
Rocky Mountain Low Sulfur (Bituminous) Low Sulfur (Sub-Bituminous)	18.13 18.11 18.25	18.78 18.82 18.54	20.92 21.19 18.86	21.42 21.71 19.36	22.29 22.59 20.17	22.86 23.17 20.67	23.25 23.56 20.99	23.64 23.95 21.30	29.19 29.58 26.27	27.82 28.20 25.01	26.09 26.43 23.40	1.6% 1.7% 1.0%
Arizona/New Mexico Low Sulfur (Bituminous) Medium Sulfur (Bituminous) Medium Sulfur (Sub-Bituminous)	23.07 23.02 28.54 19.48	22.59 22.78 28.43 19.28	22.55 22.82 28.24 19.31	22.60 22.87 28.28 19.34	22.70 23.03 28.29 19.47	23.31 23.95 28.18 20.26	24.26 25.17 28.28 21.31	24.92 26.00 28.25 22.04	25.23 26.43 28.12 22.42	27.45 29.20 28.08 24.81	28.67 30.66 28.15 26.07	0.9% 1.3% -0.1% 0.9%
Washington/Alaska Medium Sulfur (Sub-Bituminous)	22.67	22.61	22.67	22.69	22.70	22.69	22.73	22.65	22.67	22.71	22.74	-0.2%

Average by Type: All Regions

Table 112. Coal Prices by Region and Type (2003 Dollars per Short Ton)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Premium Metallurgical 2/ Bituminous	33.99	33.90	33.88	33.98	34.11	34.13	33.77	33.36	32.97	32.81	32.55	-0.4%
Sub-Bituminous Lignite	26.50	26.49	26.68	26.88	26.99	27.14	27.43	27.63	28.76	28.86	28.83	0.4%
	8.26	8.33	8.37	8.45	8.54	8.65	8.78	8.86	9.04	9.20	9.30	0.6%
	11.64	11.64	11.64	11.62	11.61	11.54	11.55	11.55	11.57	11.60	11.64	-0.2%
Low Sulfur	11.05	11.12	11.42	11.48	11.61	11.82	11.87	12.01	12.82	12.85	12.80	0.4%
Medium Sulfur	24.50	24.37	24.28	24.33	24.28	24.26	24.43	24.44	24.76	25.06	25.22	0.0%
High Sulfur	22.69	22.69	22.83	23.14	23.29	23.61	23.97	24.30	24.74	25.03	25.32	0.9%
United States Average	16.89	16.88	16.98	17.07	17.08	17.25	17.40	17.50	18.11	18.25	18.26	0.1%

Table 112. Coal Prices by Region and Type (2003 Dollars per Short Ton)

1/ Includes Pennsylvania anthracite.

2/ "Premium" coal is used to make metallurgical coke.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal tables. The averages for this table include this waste coal tonnage in the forecast years.

Northern Appalachia: Pennsylvania, Maryland, Ohio, Northern West Virginia.

Central Appalachia: Southern West Virginia, Virginia, Eastern Kentucky, Northern Tennessee.

Southern Appalachia: Alabama, Southern Tennessee.

Eastern Interior: Illinois, Indiana, Mississippi, Western Kentucky.

Western Interior: Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas (bituminous).

Gulf (lignite only): Texas, Louisiana, Arkansas.

Dakota: North Dakota, Montana (lignite).

Western Montana: Montana (bituminous and subbituminous).

Wyoming, Powder River Basin: Wyoming portion of Powder River Basin.

Western Wyoming: Wyoming coal basins other than Powder River Basin.

Rocky Mountain: Colorado, Utah.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million British thermal unit.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million British thermal unit.

High Sulfur: Over 1.67 pounds of sulfur per million British thermal unit.

W = Withheld to avoid disclosure of individual company data.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 113. World Steam Coal Flows by Importing Regions and Exporting Countries 1, 2/ (Million Short Tons)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Steam Coal Exports to Europe 3/													
Australia	11.5	12.5	11.0	11.0	11.0	11.1	11.1	11.2	11.2	11.3	11.4	11.5	11.5
United States	4.2	3.0	3.3	3.0	3.1	3.2	3.3	2.9	2.8	3.5	3.5	3.6	3.6
South Africa	64.3	70.4	73.4	73.7	72.7	72.5	73.2	74.0	73.2	73.3	72.4	71.3	70.1
Former Soviet Union	20.2	22.9	23.1	23.9	24.2	24.5	24.8	25.1	25.4	25.6	25.8	26.0	26.2
Poland	18.4	15.4	13.8	12.1	11.5	10.9	10.3	9.7	9.1	8.7	8.2	7.7	7.2
Canada	0.2	0.0	2.6	2.6	2.9	3.1	3.3	3.5	3.7	1.9	1.5	1.5	1.5
China	2.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	29.2	32.5	33.2	36.0	38.1	40.1	42.2	44.2	46.3	47.3	48.4	49.4	50.5
Indonesia 4/	12.5	16.9	21.2	20.1	20.3	19.8	18.3	17.4	17.6	17.5	17.4	17.3	17.2
Total	162.4	179.9	181.7	182.4	183.8	185.2	186.6	188.0	189.4	189.0	188.7	188.3	187.9
Steam Coal Exports to Asia													
Australia	94.7	96.1	107.8	109.8	113.7	117.8	122.0	126.7	131.3	135.1	138.0	140.6	143.3
United States	1.6	0.2	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
South Africa	8.2	5.5	0.6	1.5	3.5	4.5	4.4	4.3	5.7	6.8	8.7	11.0	13.2
Former Soviet Union	10.6	9.5	12.1	12.9	13.3	13.8	14.2	14.7	15.1	15.4	15.8	16.1	16.4
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	2.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	72.0	81.2	84.9	84.9	85.5	86.2	86.9	87.5	88.2	88.6	89.1	89.5	90.0
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 4/	60.3	70.6	71.4	79.3	80.8	83.2	86.4	89.2	90.7	92.5	94.3	96.1	97.9
Total	249.3	263.9	277.3	288.9	297.5	306.0	314.6	323.2	331.7	339.1	346.6	354.1	361.5
Steam Coal Exports to America													
Australia	3.4	3.4	1.6	1.0	1.4	1.5	1.5	1.1	0.8	1.6	1.7	1.8	1.9
United States	12.9	18.5	19.3	18.6	17.9	17.2	16.5	16.4	16.0	14.7	14.2	13.6	13.1
South Africa	0.7	0.4	2.7	2.9	2.9	3.1	3.4	3.7	4.1	4.1	4.2	4.2	4.3
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	3.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	18.4	25.2	32.9	34.6	36.0	37.4	38.7	40.1	41.5	43.1	44.8	46.4	48.0
Indonesia 4/	2.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	43.0	55.6	56.4	57.1	58.1	59.2	60.2	61.3	62.4	63.6	64.8	66.0	67.2
Total Steam Coal Exports 5/													
Australia	110.1	115.8	120.4	121.9	126.1	130.4	134.7	139.0	143.3	148.0	151.1	153.9	156.7
United States	18.8	21.8	23.1	22.1	21.5	21.0	20.5	20.0	19.5	19.0	18.4	17.9	17.5
South Africa	75.0	77.2	76.7	78.0	79.0	80.0	81.0	82.0	83.0	84.2	85.3	86.4	87.6
Former Soviet Union	30.8	32.4	35.2	36.8	37.5	38.3	39.0	39.7	40.5	41.0	41.6	42.1	42.7
Poland	18.7	15.3	13.8	12.1	11.5	10.9	10.3	9.7	9.1	8.7	8.2	7.7	7.2
Canada	3.7	1.5	2.6	2.6	2.9	3.1	3.3	3.5	3.7	1.9	1.5	1.5	1.5
China	77.7	89.0	84.9	84.9	85.5	86.2	86.9	87.5	88.2	88.6	89.1	89.5	90.0
South America	47.5	57.8	66.1	70.7	74.1	77.5	80.9	84.3	87.7	90.4	93.1	95.8	98.5
Indonesia 4/	75.2	91.8	92.6	99.4	101.2	103.0	104.8	106.6	108.4	110.0	111.7	113.4	115.1
Total	457.4	502.5	515.4	528.5	539.4	550.4	561.4	572.5	583.5	591.8	600.1	608.4	616.7

Table 113. World Steam Coal Flows by Importing Regions and Exporting Countries 1, 2/ (Million Short Tons)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Steam Coal Exports to Europe 3/												
Australia	11.6	11.5	10.6	9.6	6.7	3.6	2.4	3.7	1.5	0.1	0.0	N/A
United States	3.7	3.7	2.9	2.7	2.8	3.1	2.7	0.0	0.5	0.1	0.0	N/A
South Africa	69.2	69.4	69.7	69.9	70.1	70.3	69.8	69.3	68.8	68.4	66.5	-0.3%
Former Soviet Union	26.5	26.7	26.9	27.1	27.3	27.6	27.8	28.0	28.2	28.4	28.7	1.0%
Poland	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.1	4.9	4.6	4.4	-5.5%
Canada	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	51.5	53.3	55.0	56.8	58.6	60.3	62.2	64.0	65.8	67.7	69.5	3.5%
Indonesia 4/	16.8	13.5	11.8	11.2	10.6	10.0	9.6	9.2	8.8	8.4	8.0	-3.3%
Total	187.6	186.1	184.7	183.3	181.9	180.4	179.7	179.3	178.5	177.8	177.1	-0.1%
Steam Coal Exports to Asia												
Australia	146.1	146.4	148.3	151.2	154.1	157.0	159.6	162.1	164.6	167.1	168.4	2.6%
United States	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	4.8%
South Africa	15.0	15.2	15.3	15.5	15.7	15.8	16.7	17.5	18.4	19.1	21.3	6.4%
Former Soviet Union	16.8	17.5	18.3	19.1	19.8	20.6	20.9	21.2	21.5	21.8	22.0	3.9%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
China	90.4	91.1	91.7	92.4	93.0	93.7	93.7	93.7	93.7	93.7	93.7	0.7%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	100.0	104.8	107.9	110.0	112.1	114.2	116.0	117.9	119.7	121.5	123.4	2.6%
Total	369.0	375.7	382.3	388.9	395.5	402.1	407.6	413.0	418.5	424.0	429.5	2.2%
Steam Coal Exports to America												
Australia	1.8	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	-3.2%
United States	12.6	12.1	12.4	12.6	12.7	12.8	13.1	13.3	13.5	13.7	13.2	-1.5%
South Africa	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	11.0%
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	49.7	50.6	51.6	52.5	53.5	54.4	55.5	56.5	57.5	58.5	59.6	4.0%
Indonesia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	68.5	69.0	69.3	70.4	71.5	72.6	73.8	75.1	76.3	77.6	78.9	1.6%
Total Steam Coal Exports 5/												
Australia	159.5	159.6	159.7	161.6	161.7	161.5	162.8	166.6	166.9	168.1	170.0	1.8%
United States	17.0	16.5	16.0	16.0	16.2	16.7	16.5	14.0	14.7	14.6	13.9	-2.0%
South Africa	88.7	89.1	89.5	89.9	90.2	90.6	90.9	91.3	91.6	91.9	92.3	0.8%
Former Soviet Union	43.2	44.2	45.2	46.2	47.2	48.2	48.7	49.2	49.7	50.2	50.7	2.1%
Poland	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.1	4.9	4.6	4.4	-5.5%
Canada	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
China	90.4	91.1	91.7	92.4	93.0	93.7	93.7	93.7	93.7	93.7	93.7	0.2%
South America	101.2	103.9	106.6	109.3	112.0	114.8	117.6	120.5	123.4	126.2	129.1	3.7%
Indonesia 4/	116.8	118.2	119.7	121.2	122.7	124.2	125.6	127.0	128.5	129.9	131.3	1.6%
Total	625.1	630.7	636.3	642.6	648.9	655.1	661.1	667.4	673.3	679.4	685.5	1.4%

Table 113. World Steam Coal Flows by Importing Regions and Exporting Countries 1, 2/ (Million Short Tons)

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ In 2003, steam coal exports from Indonesia include an additional 8.4 million short tons of exports from other countries not included in the forecast period.

5/ In 2003, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2003, the balancing item for steam coal amounted to 3.1 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 13, No. 3 (London, United Kingdom, July 2004); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 114. World Metallurgical Coal Flows by Importing Regions and Exporting Countries 1,2/ (Million Short Tons)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Metallurgical Coal Exports to Europe 3/													
Australia	29.5	29.0	29.7	32.3	32.4	32.5	32.5	32.6	32.7	32.6	33.4	34.8	34.6
United States	12.4	14.0	15.4	12.7	12.3	12.0	11.4	11.0	9.6	9.5	8.7	9.1	8.2
South Africa	0.6	1.0	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.1	0.4	0.4
Former Soviet Union	0.6	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Poland	2.3	1.3	1.6	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Canada	7.3	8.1	6.5	8.3	8.7	9.2	9.8	10.3	11.9	11.9	11.8	10.4	11.3
China	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 4/	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	53.0	54.7	55.3	56.8	56.8	56.9	57.0	57.0	57.2	57.0	56.9	56.6	56.4
Metallurgical Coal Exports to Asia 5/													
Australia	79.7	85.1	91.6	92.1	93.0	93.8	94.7	95.5	96.4	97.0	97.5	98.1	98.6
United States	0.0	0.0	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.3	1.3
South Africa	0.0	0.0	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	1.2	1.3
Former Soviet Union	3.1	5.0	5.2	5.3	5.6	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	14.9	13.9	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.3	11.4	11.2
China	12.7	12.6	6.3	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.7	6.8
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 4/	14.3	15.8	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Total	124.7	132.4	133.0	133.3	134.3	135.4	136.5	137.6	138.6	139.4	140.1	140.8	141.5
Metallurgical Coal Exports to America													
Australia	5.8	8.1	8.5	8.8	9.0	9.2	9.4	9.6	9.8	11.4	12.0	12.2	12.4
United States	8.4	7.2	12.0	12.5	12.7	12.8	13.0	13.2	11.9	9.3	9.0	7.4	8.4
South Africa	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	3.6	4.1	2.3	2.7	2.8	2.9	2.9	3.0	4.8	6.4	6.5	8.5	7.5
China	1.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 4/	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	20.5	21.8	22.8	23.9	24.4	24.9	25.3	25.8	26.4	27.1	27.5	28.0	28.3
Total Metallurgical Coal Exports 6/													
Australia	115.0	122.3	129.8	133.3	134.4	135.5	136.6	137.7	138.8	141.0	142.9	145.0	145.6
United States	20.8	21.2	28.5	26.2	26.1	25.9	25.5	25.4	22.7	20.0	18.9	17.7	17.8
South Africa	1.3	1.6	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Former Soviet Union	3.7	6.3	6.0	6.1	6.4	6.7	7.1	7.4	7.7	8.0	8.2	8.5	8.8
Poland	2.6	1.3	1.6	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Canada	25.8	26.2	22.7	24.7	25.0	25.3	25.9	26.2	29.4	30.8	30.5	30.3	30.1
China	14.6	14.4	6.3	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.7	6.8
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 4/	14.6	16.0	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Total	198.5	209.3	211.1	214.0	215.6	217.2	218.8	220.4	222.3	223.4	224.4	225.4	226.2

Table 114. World Metallurgical Coal Flows by Importing Regions and Exporting Countries 1,2/ (Million Short Tons)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Metallurgical Coal Exports to Europe 3/												
Australia	34.5	34.4	34.2	34.0	33.9	33.7	33.7	33.6	33.5	33.4	33.3	0.6%
United States	8.9	8.5	8.7	8.6	8.5	8.4	8.5	6.9	7.0	7.0	5.7	-4.0%
South Africa	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	-5.4%
Former Soviet Union	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	-1.6%
Poland	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	-3.9%
Canada	10.5	10.8	10.5	10.5	10.5	10.5	10.6	12.3	12.4	12.4	13.9	2.5%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	56.1	55.9	55.7	55.4	55.2	54.9	54.8	54.8	54.7	54.5	54.5	0.0%
Metallurgical Coal Exports to Asia 5/												
Australia	99.2	99.4	99.7	99.9	100.1	100.3	100.9	101.5	102.1	102.7	103.3	0.9%
United States	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.3	0.4	0.5	0.0	N/A
South Africa	1.3	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.8	0.8	N/A
Former Soviet Union	8.3	8.4	8.6	8.7	8.9	9.0	9.2	9.4	9.6	9.7	9.9	3.2%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	11.0	10.9	10.7	10.5	10.4	10.2	10.0	11.0	10.8	10.5	11.0	-1.1%
China	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.4	-2.4%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	-0.4%
Total	142.2	142.5	142.7	142.9	143.1	143.4	144.0	144.8	145.4	146.0	146.7	0.5%
Metallurgical Coal Exports to America												
Australia	12.5	12.7	12.9	13.0	13.2	13.3	13.4	13.4	13.4	13.4	13.4	2.3%
United States	7.8	8.2	8.2	8.4	8.6	8.8	4.6	4.6	4.6	4.5	6.5	-0.5%
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	8.4	8.0	8.2	8.2	8.1	8.0	12.6	12.6	12.6	12.6	10.4	4.3%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	28.7	29.0	29.3	29.6	29.8	30.1	30.6	30.5	30.5	30.5	30.3	1.5%
Total Metallurgical Coal Exports 6/												
Australia	146.3	146.5	146.7	146.9	147.2	147.4	147.9	148.4	149.0	149.5	150.0	0.9%
United States	18.0	18.1	18.2	18.3	18.4	18.5	14.5	11.9	12.0	12.1	12.2	-2.5%
South Africa	1.7	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.1	-1.6%
Former Soviet Union	9.0	9.2	9.3	9.5	9.7	9.8	10.0	10.2	10.3	10.5	10.7	2.4%
Poland	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	-3.9%
Canada	29.9	29.7	29.4	29.2	29.0	28.8	33.2	35.9	35.7	35.5	35.3	1.4%
China	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.4	-3.0%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	-0.5%
Total	227.1	227.3	227.6	227.9	228.2	228.4	229.3	230.1	230.6	231.1	231.6	0.5%

Table 114. World Metallurgical Coal Flows by Importing Regions and Exporting Countries 1,2/ (Million Short Tons)

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ In 2003, metallurgical coal exports from Indonesia include an additional 1.7 million short tons of exports from other countries not included in the forecast period.

5/ For 2003, includes 14.3 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.

6/ In 2003, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2003, the balancing item for metallurgical coal amounted to 0.4 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 13, No. 3 (London, United Kingdom, July 2004); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 115. World Total Coal Flows by Importing Regions and Exporting Countries 1,2/ (Million Short Tons)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total Coal Exports to Europe 3/													
Australia	41.0	41.5	40.7	43.3	43.4	43.6	43.7	43.8	43.9	43.9	44.8	46.2	46.2
United States	16.6	17.0	18.7	15.7	15.4	15.2	14.7	14.0	12.4	13.0	12.2	12.7	11.8
South Africa	64.9	71.4	74.8	75.0	74.0	73.7	74.4	75.1	74.4	74.4	73.6	71.7	70.5
Former Soviet Union	20.8	24.0	23.9	24.7	25.0	25.3	25.6	25.8	26.1	26.3	26.6	26.8	27.0
Poland	20.7	16.7	15.5	13.4	12.8	12.2	11.5	10.9	10.3	9.8	9.3	8.8	8.3
Canada	7.5	8.1	9.1	11.0	11.6	12.2	13.2	13.8	15.6	13.7	13.3	12.0	12.9
China	2.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	29.2	32.5	33.2	36.0	38.1	40.1	42.2	44.2	46.3	47.3	48.4	49.4	50.5
Indonesia 4/	12.6	17.0	21.2	20.1	20.3	19.8	18.3	17.4	17.6	17.5	17.4	17.3	17.2
Total	215.4	234.6	237.0	239.2	240.6	242.1	243.5	245.0	246.6	246.0	245.5	244.9	244.4
Total Coal Exports to Asia													
Australia	174.4	181.3	199.5	202.0	206.7	211.6	216.7	222.3	227.6	232.0	235.5	238.7	241.9
United States	1.6	0.3	1.5	1.6	1.6	1.7	1.8	1.9	1.9	1.9	2.0	2.0	2.0
South Africa	8.2	5.5	1.1	1.9	3.9	5.0	4.9	4.8	6.2	7.3	9.2	12.2	14.5
Former Soviet Union	13.7	14.4	17.4	18.2	19.0	19.7	20.5	21.3	22.0	22.6	23.2	23.8	24.4
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	16.9	14.7	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.3	11.4	11.2
China	84.7	93.8	91.3	91.2	91.9	92.6	93.3	94.1	94.8	95.3	95.8	96.3	96.7
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia 4/	74.6	86.4	85.7	93.7	95.2	97.5	100.8	103.5	105.1	106.9	108.7	110.4	112.2
Total	374.0	396.3	410.3	422.2	431.8	441.4	451.1	460.7	470.3	478.5	486.7	494.9	503.0
Total Coal Exports to America													
Australia	9.2	11.5	10.0	9.8	10.4	10.7	10.9	10.6	10.6	13.1	13.7	14.0	14.2
United States	21.3	25.7	31.3	31.1	30.5	30.0	29.5	29.6	27.8	24.0	23.2	21.0	21.4
South Africa	1.3	1.0	2.7	2.9	2.9	3.1	3.4	3.7	4.1	4.1	4.2	4.2	4.3
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	5.1	4.7	2.3	2.7	2.8	2.9	2.9	3.0	4.8	6.4	6.5	8.5	7.5
China	5.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	18.4	25.2	32.9	34.6	36.0	37.4	38.7	40.1	41.5	43.1	44.8	46.4	48.0
Indonesia 4/	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	63.5	77.4	79.2	81.1	82.5	84.0	85.6	87.1	88.8	90.7	92.3	94.0	95.5
Total Coal Exports 5/													
Australia	225.0	238.1	250.2	255.1	260.5	265.9	271.3	276.7	282.2	288.9	294.0	298.9	302.3
United States	39.6	43.0	51.6	48.3	47.6	46.9	46.0	45.4	42.2	39.0	37.4	35.7	35.3
South Africa	76.3	78.7	78.5	79.8	80.8	81.8	82.7	83.7	84.7	85.8	87.0	88.1	89.2
Former Soviet Union	34.5	38.7	41.3	42.9	43.9	45.0	46.1	47.1	48.2	49.0	49.8	50.6	51.4
Poland	21.4	16.6	15.5	13.4	12.8	12.2	11.5	10.9	10.3	9.8	9.3	8.8	8.3
Canada	29.6	27.7	25.3	27.3	27.8	28.4	29.2	29.7	33.1	32.6	32.1	31.9	31.6
China	92.3	103.4	91.3	91.2	91.9	92.6	93.3	94.1	94.8	95.3	95.8	96.3	96.7
South America	47.5	57.8	66.1	70.7	74.1	77.5	80.9	84.3	87.7	90.4	93.1	95.8	98.5
Indonesia 4/	89.8	107.8	106.9	113.7	115.5	117.3	119.1	120.9	122.7	124.4	126.0	127.7	129.4
Total	656.0	711.8	726.6	742.5	755.0	767.5	780.2	792.8	805.7	815.2	824.5	833.8	842.9

Table 115. World Total Coal Flows by Importing Regions and Exporting Countries 1,2/ (Million Short Tons)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Total Coal Exports to Europe 3/												
Australia	46.1	45.8	44.8	43.6	40.6	37.3	36.1	37.3	35.0	33.6	33.3	-1.0%
United States	12.6	12.2	11.6	11.3	11.3	11.5	11.1	6.9	7.5	7.2	5.7	-4.9%
South Africa	69.6	69.8	70.0	70.2	70.5	70.7	70.2	69.7	69.1	68.7	66.8	-0.3%
Former Soviet Union	27.2	27.4	27.7	27.9	28.1	28.3	28.6	28.8	29.0	29.2	29.4	0.9%
Poland	7.8	7.6	7.3	7.1	6.9	6.6	6.3	6.0	5.6	5.3	5.0	-5.4%
Canada	12.0	12.3	12.0	10.5	10.5	10.5	10.6	12.3	12.4	12.4	13.9	2.5%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	51.5	53.3	55.0	56.8	58.6	60.3	62.2	64.0	65.8	67.7	69.5	3.5%
Indonesia 4/	16.8	13.5	11.8	11.2	10.6	10.0	9.6	9.2	8.8	8.4	8.0	-3.4%
Total	243.7	242.0	240.3	238.7	237.0	235.3	234.5	234.1	233.2	232.3	231.6	-0.1%
Total Coal Exports to Asia												
Australia	245.3	245.8	248.0	251.1	254.2	257.3	260.5	263.6	266.6	269.8	271.6	1.9%
United States	2.0	2.0	2.0	2.1	2.1	2.1	2.1	1.1	1.2	1.3	0.7	4.5%
South Africa	16.3	16.4	16.5	16.6	16.7	16.8	17.6	18.4	19.2	20.0	22.2	6.6%
Former Soviet Union	25.0	26.0	26.9	27.8	28.7	29.7	30.1	30.6	31.0	31.5	32.0	3.7%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	11.0	10.9	10.7	10.5	10.4	10.2	10.0	11.0	10.8	10.5	11.0	-1.3%
China	97.2	98.0	98.7	99.4	100.1	100.9	100.9	101.0	101.0	101.0	101.1	0.3%
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	114.3	119.1	122.2	124.3	126.4	128.5	130.4	132.2	134.0	135.9	137.7	2.1%
Total	511.2	518.1	525.0	531.8	538.6	545.5	551.6	557.8	563.9	570.0	576.2	1.7%
Total Coal Exports to America												
Australia	14.3	14.4	13.7	13.9	14.0	14.2	14.2	14.2	14.2	14.2	15.1	1.2%
United States	20.3	20.3	20.6	20.9	21.3	21.6	17.7	17.9	18.1	18.3	19.8	-1.2%
South Africa	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7.2%
Former Soviet Union	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	8.4	8.0	8.2	8.2	8.1	8.0	12.6	12.6	12.6	12.6	10.4	3.6%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	49.7	50.6	51.6	52.5	53.5	54.4	55.5	56.5	57.5	58.5	59.6	4.0%
Indonesia 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	97.2	97.9	98.6	100.0	101.3	102.7	104.4	105.6	106.9	108.1	109.2	1.6%
Total Coal Exports 5/												
Australia	305.7	306.1	306.5	308.6	308.9	308.9	310.7	315.0	315.9	317.6	320.0	1.4%
United States	34.9	34.6	34.2	34.3	34.6	35.2	30.9	25.9	26.7	26.7	26.1	-2.2%
South Africa	90.4	90.7	91.0	91.3	91.6	91.9	92.2	92.5	92.8	93.1	93.4	0.8%
Former Soviet Union	52.3	53.4	54.5	55.7	56.8	58.0	58.7	59.4	60.0	60.7	61.4	2.1%
Poland	7.8	7.6	7.3	7.1	6.9	6.6	6.3	6.0	5.6	5.3	5.0	-5.4%
Canada	31.4	31.2	31.0	29.2	29.0	28.8	33.2	35.9	35.7	35.5	35.3	1.1%
China	97.2	98.0	98.7	99.4	100.1	100.9	100.9	101.0	101.0	101.0	101.1	-0.1%
South America	101.2	103.9	106.6	109.3	112.0	114.8	117.6	120.5	123.4	126.2	129.1	3.7%
Indonesia 4/	131.1	132.6	134.1	135.5	137.0	138.5	139.9	141.4	142.8	144.2	145.7	1.4%
Total	852.1	858.0	863.9	870.5	877.0	883.5	890.4	897.5	903.9	910.4	917.0	1.2%

Table 115. World Total Coal Flows by Importing Regions and Exporting Countries 1,2/ (Million Short Tons)

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ In 2003, exports from Indonesia include an additional 10.0 million short tons of exports from other countries not included in the forecast period.

5/ In 2003, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2003, the balancing item amounted to 3.5 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2003 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 13, No. 3 (London, United Kingdom, July 2004); and Energy Information Administration (EIA), Quarterly Coal Report, October-December 2003, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 116. Indicators of Macroeconomic Activity

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Value of Shipments, National (billion 1996 \$)													
Total Industrial	5067	5105	5335	5499	5551	5683	5854	6036	6165	6293	6425	6549	6722
Total Nonmanufacturing	1240	1254	1279	1280	1261	1273	1294	1315	1329	1356	1379	1401	1434
Coal Mining	26	26	26	27	27	28	28	28	28	28	28	28	28
Oil and Gas Extraction	112	111	113	116	118	119	121	123	122	123	123	122	122
Total Manufacturing	3826	3851	4056	4219	4290	4410	4560	4721	4836	4937	5047	5148	5288
Petroleum Refining	164	166	175	177	184	187	192	196	198	201	204	207	212
Paper	141	148	154	161	162	164	167	170	171	173	175	176	178
Chemicals	391	403	422	438	443	452	466	477	487	498	510	521	534
Stone, Clay, and Glass	79	77	81	85	86	87	89	92	94	96	98	100	102
Primary Metals	150	147	155	159	159	162	167	170	170	171	173	174	177
Iron and Steel	71	65	70	73	72	73	76	78	79	79	79	78	79
Aluminum	28	29	29	28	28	29	29	29	28	29	29	30	30
Fabricated Metals	242	233	245	256	261	266	272	277	280	282	286	289	294
Industrial Machinery	244	239	258	267	270	274	281	293	299	303	309	314	321
Electronic and Electrical Products	474	502	567	612	638	682	732	785	821	856	894	930	981
Transportation Equipment	627	617	639	673	682	707	726	760	788	801	816	829	849
Other Manufacturing	1314	1320	1360	1391	1406	1429	1468	1502	1527	1554	1581	1608	1641
Employment (million)													
Total Industrial	25.73	24.95	24.88	24.92	24.67	24.48	24.53	24.74	24.83	24.81	24.84	24.88	25.03
Total Nonmanufacturing	10.47	10.43	10.57	10.70	10.63	10.62	10.65	10.75	10.87	10.99	11.11	11.32	11.60
Coal Mining	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Oil and Gas Extraction	0.30	0.30	0.30	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.25	0.25
Total Manufacturing	15.26	14.53	14.32	14.22	14.04	13.85	13.88	13.98	13.96	13.82	13.73	13.56	13.43
Petroleum Refining	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Paper	0.55	0.52	0.51	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.47	0.47
Chemicals	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.84	0.83	0.82	0.81	0.81	0.80
Stone, Clay, and Glass	0.52	0.49	0.49	0.50	0.51	0.50	0.50	0.49	0.48	0.48	0.48	0.46	0.46
Primary Metals	0.51	0.48	0.46	0.46	0.45	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.36
Iron and Steel	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.13
Aluminum	0.08	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04
Fabricated Metals	1.55	1.48	1.48	1.48	1.49	1.48	1.52	1.56	1.55	1.52	1.51	1.49	1.47
Industrial Machinery	1.23	1.15	1.15	1.16	1.13	1.11	1.12	1.15	1.17	1.16	1.16	1.14	1.13
Electronic and Electrical Products	1.55	1.39	1.36	1.39	1.35	1.30	1.28	1.29	1.30	1.28	1.27	1.24	1.23
Transportation Equipment	1.83	1.78	1.77	1.75	1.72	1.71	1.73	1.74	1.75	1.74	1.72	1.70	1.69
Other Manufacturing	6.52	6.26	6.14	6.02	5.96	5.91	5.90	5.93	5.92	5.88	5.85	5.80	5.76
Real Disposable Income by Census Division (billion 2000 dollars)													
New England	442	450	466	479	495	511	527	542	557	574	591	610	632
Middle Atlantic	1176	1207	1252	1282	1319	1358	1393	1427	1463	1500	1540	1584	1633
East North Central	1179	1199	1237	1263	1296	1330	1361	1390	1422	1453	1487	1525	1567
West North Central	496	505	522	534	550	566	581	596	611	626	642	661	681
South Atlantic	1353	1392	1453	1500	1556	1615	1670	1724	1781	1839	1900	1969	2043
East South Central	383	388	401	411	424	437	449	460	473	485	498	513	529
West South Central	782	798	829	855	886	919	950	980	1012	1045	1080	1119	1161
Mountain	450	462	482	498	517	537	556	574	594	613	634	658	683
Pacific	1299	1332	1386	1428	1478	1531	1580	1629	1680	1733	1788	1851	1919
United States	7560	7734	8027	8250	8521	8804	9065	9322	9594	9868	10160	10489	10848
Nonfarm Employment by Census Division (millions)													
New England	6.9	6.9	6.9	7.0	7.1	7.2	7.2	7.3	7.3	7.4	7.4	7.5	7.6
Middle Atlantic	18.0	17.8	17.9	18.1	18.2	18.3	18.4	18.4	18.5	18.6	18.6	18.7	18.9
East North Central	21.4	21.2	21.3	21.6	21.7	21.9	22.0	22.1	22.3	22.4	22.5	22.6	22.8

Table 116. Indicators of Macroeconomic Activity

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West North Central	9.6	9.6	9.6	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.4	10.5
South Atlantic	24.6	24.8	25.2	25.8	26.3	26.8	27.2	27.7	28.1	28.6	29.0	29.5	30.1
East South Central	7.5	7.5	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.0	8.1	8.2	8.3
West South Central	13.9	13.9	14.1	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.9	16.1	16.4
Mountain	8.4	8.4	8.6	8.7	8.9	9.0	9.2	9.3	9.4	9.6	9.7	9.8	10.0
Pacific	19.8	19.8	20.0	20.3	20.6	20.9	21.1	21.3	21.5	21.8	22.1	22.3	22.7
United States	130.3	129.9	131.0	133.4	135.1	136.7	137.9	139.2	140.7	142.2	143.6	145.2	147.1

Table 116. Indicators of Macroeconomic Activity

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Value of Shipments, National (billion 1996 \$)												
Total Industrial	6850	6945	7105	7288	7468	7633	7785	7945	8122	8299	8469	2.3%
Total Nonmanufacturing	1458	1471	1497	1524	1556	1587	1616	1644	1674	1705	1736	1.5%
Coal Mining	29	29	29	29	30	30	31	31	32	33	33	1.2%
Oil and Gas Extraction	119	119	121	123	123	122	120	118	117	118	118	0.3%
Total Manufacturing	5392	5474	5609	5764	5912	6046	6169	6301	6448	6593	6733	2.6%
Petroleum Refining	215	219	223	226	229	231	232	232	233	237	241	1.7%
Paper	180	181	184	187	190	193	196	198	201	203	204	1.5%
Chemicals	542	549	561	575	590	604	617	632	647	661	675	2.4%
Stone, Clay, and Glass	104	105	107	110	111	112	113	114	115	116	116	1.9%
Primary Metals	178	178	181	184	185	186	185	185	185	185	184	1.0%
Iron and Steel	79	79	80	81	82	82	82	83	83	83	83	1.1%
Aluminum	30	30	30	31	31	31	30	30	29	29	29	0.0%
Fabricated Metals	298	301	307	314	321	327	332	339	346	352	358	2.0%
Industrial Machinery	323	322	328	339	352	359	365	374	388	403	419	2.6%
Electronic and Electrical Products	1013	1035	1079	1133	1184	1231	1272	1319	1369	1418	1464	5.0%
Transportation Equipment	868	891	916	942	966	991	1016	1039	1064	1089	1111	2.7%
Other Manufacturing	1670	1691	1723	1754	1784	1813	1841	1869	1900	1930	1961	1.8%
Employment (million)												
Total Industrial	25.14	25.18	25.27	25.48	25.75	26.02	26.29	26.54	26.80	27.08	27.32	0.4%
Total Nonmanufacturing	11.84	12.12	12.34	12.56	12.79	13.06	13.34	13.63	13.93	14.25	14.60	1.5%
Coal Mining	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.5%
Oil and Gas Extraction	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	-1.8%
Total Manufacturing	13.30	13.06	12.93	12.92	12.96	12.96	12.95	12.91	12.87	12.82	12.73	-0.6%
Petroleum Refining	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	-1.3%
Paper	0.46	0.45	0.45	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	-0.9%
Chemicals	0.79	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	-0.6%
Stone, Clay, and Glass	0.45	0.44	0.43	0.42	0.42	0.42	0.41	0.40	0.40	0.39	0.38	-1.2%
Primary Metals	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.30	0.30	0.29	0.28	-2.4%
Iron and Steel	0.13	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	-2.1%
Aluminum	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	-3.9%
Fabricated Metals	1.46	1.45	1.44	1.45	1.46	1.45	1.46	1.46	1.45	1.44	1.41	-0.2%
Industrial Machinery	1.13	1.11	1.11	1.11	1.11	1.11	1.10	1.09	1.08	1.06	1.04	-0.5%
Electronic and Electrical Products	1.22	1.18	1.17	1.18	1.19	1.19	1.20	1.20	1.21	1.22	1.22	-0.6%
Transportation Equipment	1.67	1.63	1.61	1.59	1.58	1.57	1.56	1.54	1.52	1.50	1.48	-0.8%
Other Manufacturing	5.70	5.60	5.56	5.57	5.60	5.62	5.63	5.63	5.64	5.64	5.63	-0.5%
Real Disposable Income by Census Division (billion 2000 dollars)												
New England	652	672	691	709	728	749	772	797	824	854	885	3.1%
Middle Atlantic	1680	1725	1766	1807	1848	1892	1944	1999	2059	2126	2194	2.8%
East North Central	1606	1644	1677	1710	1742	1778	1820	1864	1912	1967	2021	2.4%
West North Central	700	719	735	752	768	786	807	828	852	879	906	2.7%
South Atlantic	2115	2185	2251	2317	2383	2453	2534	2618	2710	2811	2913	3.4%
East South Central	545	559	573	586	599	613	630	647	666	687	708	2.8%
West South Central	1202	1242	1279	1317	1354	1395	1441	1489	1542	1601	1660	3.4%
Mountain	707	731	754	776	799	823	850	879	910	944	979	3.5%
Pacific	1984	2048	2108	2169	2229	2295	2369	2448	2534	2629	2725	3.3%
United States	11192	11525	11833	12143	12450	12783	13166	13568	14010	14497	14990	3.1%
Nonfarm Employment by Census Division (millions)												
New England	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.3	8.3	8.4	0.9%
Middle Atlantic	18.9	19.1	19.3	19.5	19.6	19.7	19.8	20.0	20.1	20.2	20.3	0.6%
East North Central	23.0	23.2	23.4	23.7	23.9	24.1	24.3	24.4	24.6	24.8	25.0	0.7%

Table 116. Indicators of Macroeconomic Activity

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
West North Central	10.5	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.4	11.5	0.8%
South Atlantic	30.6	31.3	32.0	32.6	33.2	33.8	34.4	35.0	35.6	36.2	36.8	1.8%
East South Central	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	0.9%
West South Central	16.6	16.9	17.2	17.5	17.8	18.1	18.4	18.6	18.9	19.1	19.4	1.5%
Mountain	10.2	10.4	10.6	10.7	10.9	11.1	11.3	11.4	11.6	11.8	11.9	1.6%
Pacific	23.0	23.4	23.8	24.2	24.5	24.9	25.2	25.6	26.0	26.4	26.7	1.4%
United States	148.8	151.0	153.4	155.7	157.7	159.7	161.6	163.6	165.5	167.4	169.1	1.2%

Table 116. Indicators of Macroeconomic Activity

Note: Totals may not equal sum of components due to independent rounding.

Source: 2002 and 2003: Global Insight macroeconomic model CTL0804, modified by Energy Information Administration (EIA); Global Insight industry model, August 2004; and EIA regional economic and industry model, 2004. Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.

Table 117. Imported Petroleum by Source (Million Barrels per Day)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Crude Oil													
Canada	1.45	1.55	1.42	1.43	1.44	1.46	1.47	1.48	1.49	1.50	1.51	1.58	1.63
Mexico	1.50	1.57	1.37	1.37	1.38	1.41	1.43	1.45	1.48	1.51	1.55	1.62	1.76
North Sea	0.76	0.55	0.49	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.42	0.40
OPEC	4.08	4.58	4.99	5.13	5.18	5.26	5.45	5.58	5.85	6.13	6.40	6.70	7.08
Latin America	1.20	1.18	1.54	1.56	1.59	1.60	1.66	1.69	1.72	1.77	1.81	1.95	2.01
North Africa	0.03	0.11	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.11	0.10	0.10
West Africa	0.59	0.83	0.75	0.79	0.79	0.81	0.87	0.87	0.89	0.90	0.91	0.92	0.93
Indonesia	0.05	0.03	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09
Persian Gulf	2.21	2.43	2.55	2.62	2.63	2.67	2.73	2.82	3.03	3.25	3.48	3.64	3.95
Other Middle East	0.05	0.05	0.02	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Other Latin America	0.56	0.51	0.65	0.58	0.55	0.62	0.67	0.73	0.78	0.81	0.80	0.78	0.72
Other Africa	0.51	0.54	0.82	0.83	0.81	0.82	0.89	0.92	0.97	1.05	1.04	1.08	1.00
Other Asia	0.24	0.33	0.19	0.21	0.20	0.21	0.23	0.26	0.27	0.28	0.28	0.28	0.27
Total Crude Oil	9.14	9.67	9.95	10.05	10.05	10.26	10.62	10.90	11.32	11.76	12.05	12.49	12.89
Light Refined Products 1/													
Canada	0.44	0.44	0.55	0.50	0.47	0.48	0.48	0.49	0.49	0.48	0.47	0.46	0.44
Northern Europe	0.16	0.22	0.32	0.32	0.22	0.22	0.22	0.24	0.23	0.22	0.22	0.21	0.20
Southern Europe	0.08	0.09	0.09	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.15
OPEC	0.16	0.21	0.38	0.51	0.47	0.48	0.48	0.57	0.61	0.64	0.66	0.68	0.62
Latin America	0.10	0.11	0.16	0.25	0.24	0.25	0.25	0.26	0.28	0.31	0.34	0.35	0.32
North Africa	0.03	0.05	0.04	0.05	0.04	0.04	0.04	0.08	0.08	0.08	0.08	0.08	0.07
West Africa	0.01	0.01	0.12	0.13	0.11	0.11	0.11	0.13	0.14	0.12	0.12	0.12	0.11
Indonesia	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Persian Gulf	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.09	0.10	0.12	0.11	0.12	0.11
Caribbean Basin	0.25	0.28	0.26	0.27	0.25	0.26	0.27	0.25	0.26	0.27	0.25	0.26	0.25
Asian Exporters	0.13	0.13	0.11	0.13	0.11	0.11	0.11	0.11	0.12	0.13	0.14	0.13	0.12
Other	0.15	0.20	0.17	0.17	0.14	0.14	0.14	0.11	0.11	0.12	0.13	0.12	0.11
Total Light Refined Products	1.37	1.56	1.88	2.06	1.81	1.83	1.84	1.93	1.98	2.02	2.03	2.02	1.89
Heavy Refined Products 2/													
Canada	0.09	0.08	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09
Northern Europe	0.17	0.17	0.14	0.12	0.13	0.14	0.15	0.15	0.15	0.14	0.15	0.14	0.16
Southern Europe	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
OPEC	0.36	0.38	0.32	0.31	0.35	0.39	0.39	0.40	0.42	0.40	0.43	0.42	0.49
Latin America	0.10	0.09	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.09	0.11
North Africa	0.21	0.22	0.21	0.20	0.22	0.22	0.22	0.23	0.23	0.22	0.24	0.23	0.25
West Africa	0.02	0.02	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Indonesia	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Persian Gulf	0.03	0.04	0.02	0.02	0.02	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.07
Caribbean Basin	0.12	0.14	0.12	0.12	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.15	0.17
Asian Exporters	0.10	0.08	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.12
Other	0.16	0.17	0.15	0.14	0.15	0.16	0.16	0.16	0.16	0.15	0.16	0.16	0.17
Total Heavy Refined Products	1.02	1.04	0.86	0.83	0.92	1.00	1.00	1.03	1.07	1.03	1.11	1.08	1.22

Table 117. Imported Petroleum by Source (Million Barrels per Day)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Crude Oil												
Canada	1.68	1.75	1.81	1.89	1.96	2.02	2.08	2.13	2.17	2.22	2.26	1.7%
Mexico	1.82	1.86	1.83	1.79	1.73	1.67	1.63	1.55	1.47	1.40	1.34	-0.7%
North Sea	0.39	0.38	0.38	0.36	0.36	0.34	0.34	0.34	0.33	0.33	0.32	-2.4%
OPEC	7.34	7.84	8.31	8.58	8.84	9.08	9.29	9.56	9.79	10.20	10.68	3.9%
Latin America	2.12	2.24	2.34	2.47	2.55	2.63	2.75	2.97	3.12	3.47	3.74	5.4%
North Africa	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-1.5%
West Africa	0.94	0.95	0.96	0.96	0.96	1.00	1.02	1.03	1.05	1.07	1.08	1.2%
Indonesia	0.09	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	3.0%
Persian Gulf	4.10	4.50	4.87	5.02	5.20	5.32	5.39	5.43	5.49	5.53	5.73	4.0%
Other Middle East	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-6.6%
Other Latin America	0.69	0.63	0.57	0.55	0.51	0.50	0.49	0.46	0.45	0.44	0.44	-0.6%
Other Africa	1.07	1.00	0.97	0.95	0.94	0.94	0.93	0.91	0.88	0.86	0.84	2.0%
Other Asia	0.27	0.27	0.27	0.26	0.25	0.25	0.25	0.24	0.24	0.23	0.23	-1.6%
Total Crude Oil	13.29	13.75	14.16	14.40	14.60	14.81	15.02	15.20	15.34	15.69	16.12	2.4%
Light Refined Products 1/												
Canada	0.44	0.42	0.40	0.40	0.41	0.42	0.45	0.49	0.53	0.52	0.52	0.7%
Northern Europe	0.20	0.19	0.18	0.18	0.18	0.19	0.21	0.23	0.26	0.26	0.26	0.6%
Southern Europe	0.15	0.14	0.14	0.14	0.14	0.15	0.16	0.18	0.20	0.20	0.20	3.9%
OPEC	0.62	0.57	0.50	0.50	0.54	0.56	0.63	0.71	0.78	0.77	0.77	6.2%
Latin America	0.32	0.29	0.26	0.26	0.28	0.29	0.33	0.36	0.40	0.39	0.39	6.1%
North Africa	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.07	0.07	1.7%
West Africa	0.11	0.11	0.10	0.10	0.11	0.11	0.12	0.14	0.15	0.15	0.15	12.2%
Indonesia	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Persian Gulf	0.11	0.10	0.08	0.08	0.09	0.10	0.11	0.13	0.15	0.15	0.15	6.3%
Caribbean Basin	0.25	0.24	0.23	0.23	0.24	0.25	0.26	0.29	0.32	0.31	0.31	0.5%
Asian Exporters	0.12	0.11	0.10	0.09	0.10	0.10	0.12	0.13	0.15	0.15	0.15	0.8%
Other	0.11	0.11	0.10	0.09	0.10	0.10	0.11	0.12	0.13	0.13	0.13	-1.8%
Total Light Refined Products	1.89	1.78	1.65	1.64	1.71	1.77	1.94	2.15	2.37	2.34	2.34	1.9%
Heavy Refined Products 2/												
Canada	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.15	0.16	0.16	0.17	3.5%
Northern Europe	0.17	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.23	1.4%
Southern Europe	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	1.6%
OPEC	0.51	0.54	0.55	0.59	0.63	0.65	0.68	0.68	0.68	0.70	0.70	2.8%
Latin America	0.12	0.13	0.13	0.14	0.15	0.16	0.17	0.17	0.17	0.18	0.18	3.4%
North Africa	0.26	0.27	0.28	0.28	0.30	0.31	0.31	0.31	0.31	0.32	0.32	1.7%
West Africa	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	4.2%
Indonesia	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4.7%
Persian Gulf	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	5.2%
Caribbean Basin	0.18	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.23	0.23	0.24	2.5%
Asian Exporters	0.12	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.16	0.16	0.16	3.4%
Other	0.17	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	0.21	1.0%
Total Heavy Refined Products	1.26	1.30	1.34	1.44	1.53	1.60	1.66	1.68	1.70	1.73	1.74	2.4%

Table 117. Imported Petroleum by Source (Million Barrels per Day)

1/ Includes gasoline, gasoline blending components, jet fuel, distillate fuel oil, liquefied petroleum gases, and kerosene.

2/ Includes residual fuel oil, unfinished oils, and other refined products.

OPEC = Organization of Petroleum Exporting Countries - Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Caribbean Basin = Bahama Islands, Colombia, Ecuador, Guatemala, Jamaica, Mexico, Netherlands Antilles, Panama, Puerto Rico, Trinidad and Tobago, and the Virgin Islands.

N/A = Not applicable.

Source: Energy Information Administration, AEO2005 National Energy Modeling System run aeo2005.d102004a.