

**Table 1. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**01 - New England**

1998 -

1998 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020

Energy Consumption	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Residential</b>																							
Distillate Fuel	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	-0.8%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.1%
Liquefied Petroleum Gas	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.6%
Petroleum Subtotal	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	-0.8%
Natural Gas	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.23	1.2%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Renewable Energy 1/	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.7%
Electricity	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.0%
Delivered Energy	0.65	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.3%
Electricity Related Losses	0.27	0.30	0.32	0.34	0.33	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.5%
Total	0.92	0.98	0.99	1.02	1.01	1.01	1.00	1.01	1.00	1.00	1.00	0.99	1.00	0.99	0.97	0.97	0.98	0.99	0.99	0.99	1.00	0.99	0.4%
<b>Commercial</b>																							
Distillate Fuel	0.06	0.07	0.07	0.07	0.07	0.07	0.07	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	0.06	0.06	-0.7%
Residual Fuel	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.1%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5%
Motor Gasoline 2/	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	-0.5%
Natural Gas	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.7%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5%
Renewable Energy 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Electricity	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.7%
Delivered Energy	0.44	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.4%
Electricity Related Losses	0.29	0.32	0.34	0.36	0.35	0.34	0.34	0.35	0.34	0.33	0.33	0.33	0.33	0.31	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.30	0.2%
Total	0.72	0.77	0.79	0.81	0.81	0.80	0.80	0.81	0.81	0.80	0.80	0.80	0.81	0.80	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.78	0.4%
<b>Industrial 4/</b>																							
Distillate Fuel	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.1%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.9%
Petrochemical Feedstocks	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.8%
Residual Fuel	0.07	0.05	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.1%
Motor Gasoline 2/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.0%
Other Petroleum 5/	0.04	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9%
Petroleum Subtotal	0.16	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.5%
Natural Gas 6/	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.9%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%
Net Coal Coke Imports	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
Coal Subtotal	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.8%
Renewable Energy 7/	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.7%
Electricity	0.09	0.09	0.09	0.09	0.09	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	0.10	0.10	0.10	0.11	0.8%
Delivered Energy	0.54	0.54	0.54	0.55	0.56	0.57	0.58	0.59	0.59	0.60	0.60	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.8%
Electricity Related Losses	0.16	0.18	0.18	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.17	0.3%
Total	0.70	0.71	0.73	0.75	0.76	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.80	0.80	0.81	0.81	0.81	0.6%

**Table 1. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**01 - New England**

	1998-																				2020		
	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Transportation</b>																							
Distillate Fuel	0.15	0.15	0.15	0.15	0.15	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	0.16	0.16	0.16	0.16	0.5%
Jet Fuel 8/	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	2.2%
Motor Gasoline 2/	0.74	0.77	0.79	0.80	0.81	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.93	0.94	0.95	0.95	0.96	0.96	1.2%
Residual Fuel	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	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
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	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.6%
Other Petroleum 9/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.2%
Petroleum Subtotal	0.98	1.02	1.04	1.06	1.07	1.09	1.11	1.12	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.22	1.23	1.24	1.25	1.25	1.26	1.27	1.2%
Pipeline Fuel Natural Gas	0.01	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.2%
Compressed Natural 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	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	12.9%
Renewables (E85) 10/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1%
Methanol (M85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.0%
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	N/A
Electricity	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.9%
Delivered Energy	0.99	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.24	1.26	1.27	1.28	1.29	1.30	1.31	1.31	1.3%
Electricity Related Losses	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.4%
Total	1.00	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.17	1.19	1.20	1.22	1.23	1.24	1.25	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.3%
<b>Delivered Energy Consumption All Sectors</b>																							
Distillate Fuel	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	-0.2%
Kerosene	0.02	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.7%
Jet Fuel 8/	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	2.2%
Liquefied Petroleum Gas	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%
Motor Gasoline 2/	0.75	0.78	0.80	0.81	0.82	0.84	0.85	0.86	0.88	0.89	0.90	0.91	0.91	0.92	0.93	0.94	0.95	0.95	0.96	0.96	0.97	0.98	1.2%
Petrochemical Feedstocks	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.8%
Residual Fuel	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	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	0.10	0.1%
Other Petroleum 12/	0.05	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.8%
Petroleum Subtotal	1.54	1.57	1.59	1.61	1.62	1.64	1.66	1.67	1.68	1.70	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.77	1.78	1.78	1.79	0.7%
Natural Gas 6/	0.48	0.50	0.51	0.51	0.52	0.52	0.53	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.59	0.59	0.59	0.60	0.60	0.60	1.1%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Net Coal Coke Imports	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
Coal Subtotal	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.4%
Renewable Energy 13/	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.7%
Methanol (M85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.0%
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	N/A
Electricity	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.9%
Delivered Energy	2.62	2.69	2.72	2.76	2.78	2.82	2.85	2.87	2.90	2.93	2.94	2.97	2.98	3.00	3.02	3.05	3.07	3.08	3.09	3.10	3.11	3.13	0.8%
Electricity Related Losses	0.72	0.80	0.85	0.90	0.89	0.87	0.87	0.88	0.87	0.85	0.84	0.83	0.84	0.80	0.77	0.77	0.78	0.79	0.79	0.79	0.80	0.78	0.4%
Total	3.34	3.49	3.57	3.66	3.68	3.69	3.72	3.75	3.77	3.77	3.78	3.80	3.82	3.80	3.79	3.81	3.85	3.87	3.88	3.90	3.92	3.91	0.7%
<b>Electric Generators 14/</b>																							
Distillate Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.0%
Residual Fuel	0.23	0.16	0.19	0.17	0.18	0.16	0.14	0.13	0.11	0.09	0.08	0.05	0.04	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	-9.4%
Petroleum Subtotal	0.23	0.16	0.19	0.18	0.18	0.16	0.14	0.13	0.11	0.09	0.08	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-9.3%
Natural Gas	0.20	0.15	0.16	0.17	0.17	0.19	0.22	0.28	0.32	0.35	0.37	0.41	0.43	0.47	0.50	0.51	0.52	0.52	0.52	0.52	0.52	0.52	4.5%
Steam Coal	0.15	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	1.8%
Nuclear Power	0.22	0.31	0.31	0.31	0.31	0.31	0.31	0.26	0.27	0.27	0.27	0.27	0.27	0.23	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	-0.9%
Renewable Energy 15/	0.16	0.15	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.1%
Electricity Imports 16/	0.16	0.21	0.21	0.27	0.26	0.24	0.22	0.24	0.21	0.18	0.16	0.13	0.14	0.11	0.11	0.10	0.10	0.11	0.11	0.11	0.12	0.11	-1.8%
Total	1.12	1.21	1.26	1.32	1.31	1.30	1.30	1.31	1.31	1.30	1.29	1.29	1.30	1.26	1.24	1.24	1.26	1.26	1.27	1.27	1.28	1.27	0.6%

**Table 1. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
01 - New England**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.50	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	-0.2%
Kerosene	0.02	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.7%
Jet Fuel 8/	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	2.2%
Liquefied Petroleum Gas	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%
Motor Gasoline 2/	0.75	0.78	0.80	0.81	0.82	0.84	0.85	0.86	0.88	0.89	0.90	0.91	0.91	0.92	0.93	0.94	0.95	0.95	0.96	0.96	0.97	0.98	1.2%
Petrochemical Feedstocks	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.8%
Residual Fuel	0.33	0.24	0.28	0.26	0.27	0.25	0.23	0.22	0.20	0.18	0.17	0.15	0.13	0.13	0.13	0.12	0.13	0.12	0.13	0.13	0.13	0.13	-4.2%
Other Petroleum 12/	0.05	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.8%
Petroleum Subtotal	1.77	1.72	1.78	1.78	1.80	1.80	1.80	1.80	1.79	1.79	1.78	1.77	1.76	1.76	1.77	1.78	1.79	1.79	1.80	1.80	1.81	1.81	0.1%
Natural Gas	0.67	0.66	0.66	0.69	0.69	0.71	0.75	0.81	0.86	0.90	0.92	0.97	1.00	1.04	1.07	1.09	1.11	1.11	1.12	1.12	1.12	1.12	2.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	0.16	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	1.8%
Net Coal Coke Imports	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
Coal Subtotal	0.17	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.9%
Nuclear Power	0.22	0.31	0.31	0.31	0.31	0.31	0.31	0.26	0.27	0.27	0.27	0.27	0.27	0.23	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	-0.9%
Renewable Energy 17/	0.35	0.35	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.9%
Methanol (M85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.0%
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	N/A
Electricity Imports 16/	0.16	0.21	0.21	0.27	0.26	0.24	0.22	0.24	0.21	0.18	0.16	0.13	0.14	0.11	0.11	0.10	0.10	0.11	0.11	0.11	0.12	0.11	-1.8%
Total	3.34	3.49	3.57	3.66	3.68	3.69	3.72	3.75	3.77	3.77	3.78	3.80	3.82	3.80	3.79	3.81	3.85	3.87	3.88	3.90	3.92	3.91	0.7%
<b>Energy Use &amp; Related Statistics</b>																							
Delivered Energy Use	2.62	2.69	2.72	2.76	2.78	2.82	2.85	2.87	2.90	2.93	2.94	2.97	2.98	3.00	3.02	3.05	3.07	3.08	3.09	3.10	3.11	3.13	0.8%
Total Energy Use	3.34	3.49	3.57	3.66	3.68	3.69	3.72	3.75	3.77	3.77	3.78	3.80	3.82	3.80	3.79	3.81	3.85	3.87	3.88	3.90	3.92	3.91	0.7%
Population (millions)	13.44	13.57	13.63	13.70	13.77	13.83	13.88	13.94	14.00	14.05	14.10	14.16	14.22	14.27	14.33	14.38	14.44	14.49	14.54	14.59	14.63	14.67	0.4%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values

of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 2. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**02 - Middle Atlantic**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Energy Consumption</b>																							
<b>Residential</b>																							
Distillate Fuel	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	-1.3%
Kerosene	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-2.2%
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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.0%
Petroleum Subtotal	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29	-1.3%
Natural Gas	0.80	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.5%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.4%
Renewable Energy 1/	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	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.10	0.3%
Electricity	0.40	0.41	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.9%
Delivered Energy	1.69	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.79	1.79	1.78	1.78	1.79	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.79	0.2%
Electricity Related Losses	0.83	0.81	0.82	0.83	0.84	0.86	0.87	0.88	0.89	0.91	0.91	0.91	0.90	0.92	0.94	0.92	0.92	0.92	0.92	0.93	0.94	0.95	0.6%
Total	2.52	2.60	2.61	2.62	2.63	2.65	2.65	2.67	2.67	2.70	2.70	2.69	2.69	2.71	2.72	2.71	2.70	2.71	2.70	2.71	2.72	2.73	0.4%
<b>Commercial</b>																							
Distillate Fuel	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	-0.8%
Residual Fuel	0.08	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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-0.3%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.5%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.3%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	-0.6%
Natural Gas	0.55	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.5%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.3%
Renewable Energy 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Electricity	0.47	0.49	0.49	0.50	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.5%
Delivered Energy	1.28	1.32	1.33	1.34	1.34	1.35	1.35	1.36	1.36	1.37	1.38	1.38	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.38	1.37	0.3%
Electricity Related Losses	0.99	0.96	0.97	0.98	0.99	1.00	1.02	1.03	1.04	1.05	1.06	1.05	1.05	1.07	1.08	1.06	1.05	1.04	1.04	1.04	1.03	1.03	0.2%
Total	2.27	2.28	2.30	2.32	2.33	2.35	2.37	2.39	2.40	2.42	2.44	2.43	2.44	2.46	2.48	2.45	2.44	2.43	2.43	2.43	2.42	2.40	0.2%
<b>Industrial 4/</b>																							
Distillate Fuel	0.05	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	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	1.0%
Liquefied Petroleum Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.7%
Petrochemical Feedstocks	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.8%
Residual Fuel	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.3%
Motor Gasoline 2/	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.0%
Other Petroleum 5/	0.38	0.48	0.49	0.49	0.48	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.48	0.50	0.48	0.48	0.49	1.2%
Petroleum Subtotal	0.65	0.74	0.75	0.76	0.76	0.77	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.81	0.80	0.81	0.80	0.80	0.81	1.0%
Natural Gas 6/	0.63	0.64	0.64	0.65	0.67	0.68	0.69	0.70	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.74	0.74	0.75	0.75	0.76	0.76	0.77	0.9%
Metallurgical Coal	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	-1.6%
Steam Coal	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Net Coal Coke Imports	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
Coal Subtotal	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	-0.9%
Renewable Energy 7/	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.6%
Electricity	0.30	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.8%
Delivered Energy	2.21	2.31	2.33	2.34	2.37	2.39	2.42	2.44	2.44	2.45	2.45	2.45	2.45	2.46	2.47	2.48	2.50	2.49	2.51	2.49	2.50	2.52	0.6%
Electricity Related Losses	0.63	0.60	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.66	0.66	0.67	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.5%
Total	2.84	2.91	2.92	2.95	2.98	3.02	3.06	3.09	3.10	3.11	3.11	3.11	3.10	3.13	3.16	3.16	3.18	3.17	3.19	3.18	3.19	3.22	0.6%

**Table 2. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**02 - Middle Atlantic**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.4%
Jet Fuel 8/	0.39	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.58	0.59	0.60	0.61	0.62	0.63	2.2%
Motor Gasoline 2/	1.80	1.85	1.87	1.89	1.91	1.93	1.95	1.97	1.99	2.00	2.02	2.04	2.05	2.05	2.06	2.08	2.09	2.10	2.10	2.11	2.12	2.13	0.8%
Residual Fuel	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	1.9%
Liquefied Petroleum Gas	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.3%
Other Petroleum 9/	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.1%
Petroleum Subtotal	2.73	2.82	2.85	2.89	2.92	2.97	3.00	3.04	3.07	3.10	3.13	3.16	3.18	3.20	3.22	3.25	3.28	3.30	3.32	3.34	3.36	3.38	1.0%
Pipeline Fuel Natural Gas	0.05	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	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	1.4%
Compressed Natural Gas	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	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	12.2%
Renewables (E85) 10/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.5%
Methanol (M85) 11/	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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	13.5%
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	N/A
Electricity	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.5%
Delivered Energy	2.79	2.89	2.93	2.97	3.01	3.06	3.10	3.14	3.18	3.22	3.25	3.28	3.31	3.33	3.36	3.40	3.43	3.45	3.47	3.49	3.51	3.53	1.1%
Electricity Related Losses	0.02	0.02	0.02	0.02	0.02	0.02	0.03	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	0.04	0.04	3.2%
Total	2.81	2.91	2.95	2.99	3.03	3.08	3.13	3.17	3.21	3.25	3.28	3.32	3.34	3.37	3.40	3.44	3.47	3.49	3.51	3.53	3.55	3.57	1.1%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93	0.92	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.89	0.89	0.89	0.88	-0.3%
Kerosene	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.4%
Jet Fuel 8/	0.39	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.58	0.59	0.60	0.61	0.62	0.63	2.2%
Liquefied Petroleum Gas	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.5%
Motor Gasoline 2/	1.81	1.87	1.89	1.91	1.92	1.95	1.97	1.99	2.01	2.02	2.04	2.05	2.06	2.07	2.08	2.10	2.11	2.12	2.12	2.13	2.14	2.14	0.8%
Petrochemical Feedstocks	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.8%
Residual Fuel	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.8%
Other Petroleum 12/	0.40	0.50	0.51	0.51	0.51	0.51	0.51	0.52	0.51	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.51	0.52	0.50	0.50	0.52	1.2%
Petroleum Subtotal	3.99	4.15	4.20	4.23	4.26	4.31	4.35	4.38	4.41	4.43	4.45	4.48	4.49	4.52	4.54	4.57	4.60	4.60	4.63	4.63	4.64	4.68	0.7%
Natural Gas 6/	2.03	2.15	2.16	2.18	2.20	2.22	2.24	2.25	2.26	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37	2.37	2.38	2.38	0.7%
Metallurgical Coal	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	-1.6%
Steam 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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Net Coal Coke Imports	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
Coal Subtotal	0.47	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.40	0.39	-0.8%
Renewable Energy 13/	0.31	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.6%
Methanol (M85) 11/	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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	13.5%
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	N/A
Electricity	1.18	1.21	1.22	1.24	1.25	1.27	1.28	1.29	1.30	1.32	1.33	1.33	1.34	1.35	1.36	1.36	1.37	1.38	1.38	1.38	1.39	1.39	0.8%
Delivered Energy	7.98	8.31	8.37	8.44	8.51	8.59	8.66	8.72	8.77	8.82	8.86	8.90	8.93	8.98	9.01	9.05	9.11	9.12	9.15	9.15	9.17	9.22	0.7%
Electricity Related Losses	2.47	2.38	2.40	2.43	2.46	2.52	2.56	2.59	2.61	2.65	2.67	2.66	2.64	2.69	2.74	2.70	2.68	2.68	2.68	2.70	2.70	2.71	0.4%
Total	10.44	10.69	10.78	10.87	10.97	11.11	11.22	11.31	11.39	11.47	11.53	11.56	11.57	11.67	11.75	11.75	11.79	11.80	11.83	11.85	11.87	11.92	0.6%
Electric Generators 14/																							
Distillate Fuel	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.0%
Residual Fuel	0.21	0.20	0.17	0.14	0.13	0.16	0.15	0.15	0.14	0.13	0.10	0.11	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	-6.4%
Petroleum Subtotal	0.21	0.20	0.18	0.14	0.13	0.16	0.15	0.15	0.14	0.13	0.11	0.11	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	-6.3%
Natural Gas	0.30	0.17	0.18	0.21	0.23	0.26	0.32	0.37	0.46	0.51	0.56	0.68	0.75	0.80	0.85	0.95	1.07	1.14	1.19	1.21	1.20	1.21	6.6%
Steam Coal	1.42	1.51	1.54	1.57	1.61	1.67	1.68	1.68	1.69	1.70	1.71	1.70	1.70	1.70	1.71	1.72	1.73	1.74	1.75	1.75	1.76	1.76	1.0%
Nuclear Power	1.38	1.38	1.38	1.38	1.37	1.32	1.32	1.29	1.24	1.24	1.23	1.08	1.03	1.03	1.01	0.88	0.73	0.66	0.60	0.60	0.60	0.60	-3.7%
Renewable Energy 15/	0.30	0.29	0.30	0.31	0.31	0.32	0.32	0.34	0.34	0.35	0.37	0.38	0.40	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	1.9%
Electricity Imports 16/	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.8%
Total	3.64	3.59	3.62	3.67	3.71	3.78	3.84	3.88	3.92	3.97	4.00	3.99	3.98	4.05	4.10	4.07	4.05	4.06	4.06	4.08	4.09	4.10	0.5%

**Table 2. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
02 - Middle Atlantic**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.94	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.90	0.90	0.89	0.89	0.89	0.89	-0.3%
Kerosene	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.4%
Jet Fuel 8/	0.39	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.58	0.59	0.60	0.61	0.62	0.63	2.2%
Liquefied Petroleum Gas	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.5%
Motor Gasoline 2/	1.81	1.87	1.89	1.91	1.92	1.95	1.97	1.99	2.01	2.02	2.04	2.05	2.06	2.07	2.08	2.10	2.11	2.12	2.12	2.13	2.14	2.14	0.8%
Petrochemical Feedstocks	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.8%
Residual Fuel	0.40	0.38	0.36	0.33	0.33	0.36	0.35	0.35	0.34	0.33	0.31	0.32	0.29	0.28	0.28	0.27	0.28	0.28	0.27	0.27	0.27	0.28	-1.7%
Other Petroleum 12/	0.40	0.50	0.51	0.51	0.51	0.51	0.51	0.52	0.51	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.51	0.52	0.50	0.50	0.52	1.2%
Petroleum Subtotal	4.20	4.35	4.37	4.37	4.39	4.47	4.50	4.53	4.55	4.56	4.56	4.59	4.57	4.59	4.61	4.62	4.66	4.66	4.68	4.67	4.69	4.73	0.5%
Natural Gas	2.33	2.33	2.34	2.39	2.43	2.48	2.55	2.62	2.73	2.79	2.84	2.98	3.06	3.12	3.19	3.30	3.42	3.50	3.55	3.58	3.58	3.60	2.0%
Metallurgical Coal	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	-1.6%
Steam Coal	1.60	1.69	1.72	1.75	1.79	1.85	1.86	1.87	1.88	1.88	1.89	1.88	1.88	1.88	1.89	1.90	1.91	1.92	1.92	1.93	1.94	1.94	0.9%
Net Coal Coke Imports	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.5%
Coal Subtotal	1.89	1.97	2.00	2.03	2.07	2.12	2.13	2.13	2.14	2.14	2.14	2.13	2.12	2.12	2.13	2.13	2.15	2.14	2.15	2.15	2.16	2.15	0.6%
Nuclear Power	1.38	1.38	1.38	1.38	1.37	1.32	1.32	1.29	1.24	1.24	1.23	1.08	1.03	1.03	1.01	0.88	0.73	0.66	0.60	0.60	0.60	0.60	-3.7%
Renewable Energy 17/	0.61	0.62	0.63	0.64	0.65	0.66	0.66	0.68	0.68	0.69	0.71	0.73	0.75	0.78	0.78	0.79	0.79	0.80	0.80	0.80	0.80	0.80	1.3%
Methanol (M85) 11/	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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	13.5%
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	N/A
Electricity Imports 16/	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.8%
<b>Total</b>	<b>10.44</b>	<b>10.69</b>	<b>10.78</b>	<b>10.87</b>	<b>10.97</b>	<b>11.11</b>	<b>11.22</b>	<b>11.31</b>	<b>11.39</b>	<b>11.47</b>	<b>11.53</b>	<b>11.56</b>	<b>11.57</b>	<b>11.67</b>	<b>11.75</b>	<b>11.75</b>	<b>11.79</b>	<b>11.80</b>	<b>11.83</b>	<b>11.85</b>	<b>11.87</b>	<b>11.92</b>	<b>0.6%</b>
<b>Energy Use &amp; Related Statistics</b>																							
Delivered Energy Use	7.98	8.31	8.37	8.44	8.51	8.59	8.66	8.72	8.77	8.82	8.86	8.90	8.93	8.98	9.01	9.05	9.11	9.12	9.15	9.15	9.17	9.22	0.7%
Total Energy Use	10.44	10.69	10.78	10.87	10.97	11.11	11.22	11.31	11.39	11.47	11.53	11.56	11.57	11.67	11.75	11.75	11.79	11.80	11.83	11.85	11.87	11.92	0.6%
Population (millions)	38.30	38.42	38.46	38.52	38.57	38.63	38.69	38.76	38.82	38.89	38.95	39.02	39.08	39.15	39.22	39.28	39.34	39.40	39.45	39.50	39.55	39.59	0.2%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 3. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**03 - East North Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Energy Consumption</b>																							
<b>Residential</b>																							
Distillate Fuel	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	-1.5%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.8%
Liquefied Petroleum Gas	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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.1%
Petroleum Subtotal	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	-0.6%
Natural Gas	1.42	1.54	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.54	1.54	1.55	1.55	1.55	1.56	1.57	1.57	1.57	1.58	1.59	0.5%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.6%
Renewable Energy 1/	0.04	0.04	0.04	0.04	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	0.05	0.05	0.05	0.05	0.05	1.3%
Electricity	0.57	0.60	0.60	0.61	0.62	0.64	0.65	0.65	0.66	0.68	0.69	0.69	0.70	0.71	0.72	0.73	0.73	0.74	0.75	0.75	0.76	0.77	1.4%
Delivered Energy	2.23	2.39	2.39	2.40	2.41	2.42	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.50	2.50	2.51	2.52	2.54	2.54	2.55	2.57	2.59	0.7%
Electricity Related Losses	1.22	1.28	1.33	1.36	1.40	1.40	1.43	1.43	1.44	1.47	1.50	1.52	1.54	1.56	1.56	1.59	1.60	1.62	1.63	1.63	1.65	1.66	1.4%
Total	3.45	3.67	3.72	3.76	3.81	3.82	3.85	3.86	3.88	3.93	3.96	3.99	4.02	4.06	4.06	4.10	4.12	4.16	4.17	4.18	4.22	4.25	1.0%
<b>Commercial</b>																							
Distillate Fuel	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.1%
Liquefied Petroleum Gas	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.7%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.3%
Natural Gas	0.78	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.84	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.6%
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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.7%
Renewable Energy 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Electricity	0.56	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.70	0.70	1.0%
Delivered Energy	1.43	1.49	1.51	1.52	1.53	1.54	1.56	1.57	1.58	1.60	1.61	1.63	1.64	1.65	1.66	1.67	1.68	1.68	1.68	1.69	1.69	1.69	0.7%
Electricity Related Losses	1.21	1.25	1.29	1.32	1.35	1.35	1.38	1.37	1.39	1.41	1.44	1.45	1.47	1.48	1.48	1.50	1.51	1.51	1.51	1.50	1.51	1.51	1.0%
Total	2.64	2.75	2.80	2.84	2.89	2.89	2.93	2.94	2.97	3.01	3.05	3.08	3.12	3.14	3.15	3.17	3.18	3.19	3.20	3.19	3.20	3.19	0.9%
<b>Industrial 4/</b>																							
Distillate Fuel	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	1.4%
Liquefied Petroleum Gas	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.9%
Petrochemical Feedstocks	0.18	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.9%
Residual Fuel	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.7%
Motor Gasoline 2/	0.03	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%
Other Petroleum 5/	0.64	0.69	0.70	0.71	0.71	0.71	0.72	0.72	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.76	0.77	0.77	0.78	0.78	0.79	0.79	1.0%
Petroleum Subtotal	1.15	1.20	1.21	1.23	1.24	1.26	1.27	1.29	1.30	1.31	1.32	1.33	1.33	1.34	1.35	1.37	1.39	1.39	1.40	1.41	1.43	1.44	1.0%
Natural Gas 6/	1.41	1.45	1.46	1.48	1.52	1.56	1.59	1.62	1.64	1.65	1.66	1.68	1.69	1.70	1.72	1.74	1.76	1.77	1.78	1.80	1.81	1.83	1.2%
Metallurgical Coal	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.19	0.19	-1.6%
Steam Coal	0.40	0.40	0.40	0.40	0.40	0.40	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	0.41	0.41	0.41	0.2%
Net Coal Coke Imports	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	6.4%
Coal Subtotal	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.70	0.70	0.69	0.69	0.69	0.69	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	-0.1%
Renewable Energy 7/	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.45	0.46	0.46	0.47	0.47	0.48	0.49	0.49	1.4%
Electricity	0.76	0.76	0.76	0.77	0.79	0.81	0.82	0.83	0.84	0.85	0.86	0.86	0.87	0.88	0.89	0.91	0.92	0.93	0.94	0.94	0.96	0.97	1.1%
Delivered Energy	4.37	4.47	4.50	4.56	4.64	4.72	4.80	4.85	4.90	4.94	4.96	5.00	5.01	5.05	5.11	5.16	5.22	5.24	5.27	5.31	5.36	5.41	1.0%
Electricity Related Losses	1.64	1.64	1.67	1.71	1.77	1.77	1.82	1.81	1.83	1.86	1.87	1.89	1.91	1.93	1.94	1.98	2.01	2.02	2.04	2.04	2.07	2.09	1.1%
Total	6.01	6.11	6.17	6.26	6.41	6.49	6.62	6.67	6.73	6.79	6.83	6.89	6.93	6.98	7.05	7.15	7.23	7.26	7.32	7.35	7.43	7.50	1.0%

**Table 3. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**03 - East North Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.79	0.81	0.81	0.82	0.83	0.84	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.86	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.5%
Jet Fuel 8/	0.27	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.45	0.45	2.3%
Motor Gasoline 2/	2.50	2.59	2.63	2.68	2.70	2.75	2.78	2.83	2.86	2.90	2.93	2.96	2.98	3.00	3.02	3.05	3.08	3.09	3.11	3.12	3.14	3.16	1.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0%
Liquefied Petroleum Gas	0.01	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.3%
Other Petroleum 9/	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4%
Petroleum Subtotal	3.62	3.74	3.80	3.86	3.91	3.98	4.03	4.09	4.14	4.18	4.22	4.26	4.29	4.32	4.36	4.40	4.43	4.46	4.48	4.51	4.53	4.56	1.1%
Pipeline Fuel Natural Gas	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.7%
Compressed Natural Gas	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	12.5%
Renewables (E85) 10/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.9%
Methanol (M85) 11/	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	13.9%
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	N/A
Electricity	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	3.8%
Delivered Energy	3.71	3.84	3.91	3.97	4.03	4.10	4.16	4.22	4.28	4.33	4.37	4.42	4.45	4.49	4.53	4.57	4.62	4.64	4.67	4.70	4.72	4.75	1.1%
Electricity Related Losses	0.02	0.02	0.03	0.03	0.03	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	0.05	0.05	0.05	0.05	3.8%
Total	3.73	3.87	3.93	4.00	4.06	4.13	4.19	4.26	4.32	4.37	4.41	4.46	4.50	4.53	4.57	4.62	4.67	4.69	4.72	4.75	4.78	4.80	1.2%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	1.06	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.16	1.17	1.17	1.17	1.17	0.5%
Kerosene	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.7%
Jet Fuel 8/	0.27	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.45	0.45	2.3%
Liquefied Petroleum Gas	0.25	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.8%
Motor Gasoline 2/	2.54	2.62	2.67	2.71	2.74	2.79	2.82	2.87	2.90	2.94	2.97	3.00	3.02	3.04	3.07	3.09	3.12	3.14	3.15	3.17	3.19	3.20	1.1%
Petrochemical Feedstocks	0.18	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.9%
Residual Fuel	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.9%
Other Petroleum 12/	0.68	0.73	0.74	0.75	0.75	0.76	0.76	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.81	0.81	0.82	0.82	0.83	0.83	0.84	1.0%
Petroleum Subtotal	5.02	5.20	5.28	5.35	5.41	5.49	5.56	5.63	5.70	5.75	5.79	5.84	5.87	5.91	5.95	6.01	6.06	6.09	6.12	6.16	6.19	6.23	1.0%
Natural Gas 6/	3.68	3.88	3.89	3.92	3.97	4.02	4.06	4.09	4.11	4.15	4.16	4.19	4.21	4.24	4.27	4.30	4.33	4.35	4.37	4.39	4.41	4.44	0.8%
Metallurgical Coal	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	-1.6%
Steam Coal	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.2%
Net Coal Coke Imports	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	6.4%
Coal Subtotal	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.73	0.73	0.73	0.73	0.73	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	-0.1%
Renewable Energy 13/	0.41	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.48	0.49	0.49	0.50	0.50	0.51	0.52	0.52	0.53	0.54	0.54	0.55	0.55	0.56	1.5%
Methanol (M85) 11/	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	13.9%
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	N/A
Electricity	1.90	1.95	1.97	2.00	2.04	2.07	2.11	2.13	2.16	2.19	2.22	2.24	2.26	2.29	2.31	2.34	2.36	2.38	2.40	2.42	2.44	2.47	1.2%
Delivered Energy	11.74	12.19	12.30	12.45	12.61	12.78	12.94	13.08	13.20	13.32	13.40	13.52	13.59	13.69	13.80	13.92	14.03	14.11	14.17	14.25	14.34	14.43	0.9%
Electricity Related Losses	4.10	4.20	4.31	4.41	4.56	4.56	4.65	4.65	4.70	4.78	4.85	4.91	4.98	5.01	5.03	5.12	5.17	5.21	5.24	5.22	5.28	5.32	1.2%
Total	15.84	16.39	16.61	16.86	17.16	17.34	17.59	17.72	17.90	18.10	18.26	18.42	18.57	18.70	18.83	19.04	19.20	19.31	19.41	19.47	19.62	19.75	1.0%
Electric Generators 14/																							
Distillate Fuel	0.02	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.2%
Residual Fuel	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-13.6%
Petroleum Subtotal	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.4%
Natural Gas	0.14	0.28	0.22	0.23	0.24	0.18	0.25	0.26	0.36	0.44	0.50	0.57	0.64	0.68	0.73	0.79	0.92	0.96	1.09	1.20	1.24	1.27	10.4%
Steam Coal	4.41	4.39	4.57	4.66	4.84	4.94	5.00	5.03	5.07	5.13	5.16	5.18	5.23	5.27	5.35	5.41	5.49	5.51	5.55	5.56	5.61	5.64	1.1%
Nuclear Power	1.24	1.27	1.27	1.27	1.28	1.28	1.29	1.26	1.22	1.21	1.22	1.22	1.19	1.19	1.11	1.11	0.98	0.96	0.83	0.71	0.71	0.71	-2.5%
Renewable Energy 15/	0.07	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.09	0.09	0.7%
Electricity Imports 16/	0.09	0.12	0.12	0.15	0.15	0.14	0.13	0.14	0.12	0.10	0.09	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	-1.8%
Total	6.00	6.15	6.28	6.41	6.59	6.62	6.76	6.78	6.86	6.97	7.07	7.15	7.24	7.30	7.35	7.46	7.54	7.59	7.64	7.63	7.73	7.78	1.2%



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

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	1.08	1.09	1.09	1.11	1.12	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.18	0.4%
Kerosene	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.7%
Jet Fuel 8/	0.27	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.45	0.45	2.3%
Liquefied Petroleum Gas	0.25	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.8%
Motor Gasoline 2/	2.54	2.62	2.67	2.71	2.74	2.79	2.82	2.87	2.90	2.94	2.97	3.00	3.02	3.04	3.07	3.09	3.12	3.14	3.15	3.17	3.19	3.20	1.1%
Petrochemical Feedstocks	0.18	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.9%
Residual Fuel	0.04	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.1%
Other Petroleum 12/	0.68	0.73	0.74	0.75	0.75	0.76	0.76	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.81	0.81	0.82	0.82	0.83	0.83	0.84	1.0%
Petroleum Subtotal	5.06	5.22	5.29	5.36	5.41	5.50	5.57	5.63	5.70	5.75	5.79	5.85	5.88	5.92	5.96	6.02	6.07	6.11	6.14	6.17	6.21	6.24	1.0%
Natural Gas	3.83	4.16	4.12	4.15	4.21	4.19	4.31	4.35	4.48	4.58	4.66	4.76	4.85	4.92	4.99	5.08	5.25	5.31	5.45	5.58	5.65	5.71	1.8%
Metallurgical Coal	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	-1.6%
Steam Coal	4.84	4.83	5.01	5.10	5.28	5.39	5.45	5.48	5.51	5.57	5.61	5.63	5.68	5.72	5.80	5.86	5.94	5.96	6.01	6.02	6.06	6.10	1.1%
Net Coal Coke Imports	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	6.4%
Coal Subtotal	5.13	5.12	5.30	5.39	5.57	5.68	5.74	5.77	5.80	5.86	5.89	5.91	5.96	6.00	6.08	6.13	6.21	6.23	6.27	6.28	6.33	6.36	1.0%
Nuclear Power	1.24	1.27	1.27	1.27	1.28	1.28	1.29	1.26	1.22	1.21	1.22	1.22	1.19	1.19	1.11	1.11	0.98	0.96	0.83	0.71	0.71	0.71	-2.5%
Renewable Energy 17/	0.48	0.51	0.52	0.52	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.60	0.60	0.60	0.61	0.62	0.62	0.63	0.63	0.64	0.65	1.4%
Methanol (M85) 11/	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	13.9%
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	N/A
Electricity Imports 16/	0.09	0.12	0.12	0.15	0.15	0.14	0.13	0.14	0.12	0.10	0.09	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	-1.8%
<b>Total</b>	<b>15.84</b>	<b>16.39</b>	<b>16.61</b>	<b>16.86</b>	<b>17.16</b>	<b>17.34</b>	<b>17.59</b>	<b>17.72</b>	<b>17.90</b>	<b>18.10</b>	<b>18.26</b>	<b>18.42</b>	<b>18.57</b>	<b>18.70</b>	<b>18.83</b>	<b>19.04</b>	<b>19.20</b>	<b>19.31</b>	<b>19.41</b>	<b>19.47</b>	<b>19.62</b>	<b>19.75</b>	<b>1.0%</b>
<b>Energy Use &amp; Related Statistics</b>																							
Delivered Energy Use	11.74	12.19	12.30	12.45	12.61	12.78	12.94	13.08	13.20	13.32	13.40	13.52	13.59	13.69	13.80	13.92	14.03	14.11	14.17	14.25	14.34	14.43	0.9%
Total Energy Use	15.84	16.39	16.61	16.86	17.16	17.34	17.59	17.72	17.90	18.10	18.26	18.42	18.57	18.70	18.83	19.04	19.20	19.31	19.41	19.47	19.62	19.75	1.0%
Population (millions)	44.22	44.57	44.75	44.94	45.13	45.31	45.49	45.68	45.87	46.03	46.18	46.34	46.49	46.64	46.78	46.92	47.05	47.16	47.28	47.39	47.49	47.58	0.3%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values

of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 4. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**04 - West North Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Energy Consumption</b>																							
<b>Residential</b>																							
Distillate Fuel	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	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-1.7%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.2%
Liquefied Petroleum Gas	0.07	0.07	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	0.06	0.05	0.05	0.05	0.05	0.05	0.05	-1.3%
Petroleum Subtotal	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-1.4%
Natural Gas	0.44	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.8%
Coal	0.01	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Renewable Energy 1/	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.2%
Electricity	0.29	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	1.3%
Delivered Energy	0.86	0.93	0.93	0.94	0.94	0.94	0.95	0.95	0.95	0.96	0.96	0.96	0.97	0.98	0.98	0.98	0.99	1.00	1.00	1.00	1.01	1.02	0.7%
Electricity Related Losses	0.76	0.82	0.85	0.87	0.89	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.94	0.94	0.94	0.94	0.94	1.0%
Total	1.62	1.76	1.78	1.81	1.83	1.86	1.86	1.87	1.87	1.88	1.88	1.89	1.89	1.90	1.90	1.90	1.92	1.93	1.94	1.94	1.95	1.96	0.9%
<b>Commercial</b>																							
Distillate Fuel	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.1%
Liquefied Petroleum Gas	0.01	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.8%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%
Natural Gas	0.34	0.35	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%
Renewable Energy 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Electricity	0.24	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	1.1%
Delivered Energy	0.63	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.70	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.8%
Electricity Related Losses	0.65	0.70	0.72	0.75	0.76	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.79	0.80	0.80	0.80	0.80	0.79	0.79	0.9%
Total	1.28	1.36	1.40	1.43	1.44	1.47	1.48	1.49	1.50	1.50	1.52	1.52	1.53	1.53	1.54	1.54	1.55	1.55	1.56	1.55	1.54	1.54	0.8%
<b>Industrial 4/</b>																							
Distillate Fuel	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	1.4%
Liquefied Petroleum Gas	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	1.0%
Petrochemical Feedstocks	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.9%
Residual Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%
Motor Gasoline 2/	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	1.3%
Other Petroleum 5/	0.26	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	1.2%
Petroleum Subtotal	0.58	0.61	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.72	0.73	0.73	0.74	0.75	0.76	1.2%
Natural Gas 6/	0.48	0.50	0.50	0.50	0.51	0.52	0.54	0.55	0.57	0.58	0.58	0.60	0.60	0.61	0.62	0.62	0.63	0.64	0.64	0.65	0.67	0.68	1.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.2%
Net Coal Coke Imports	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	6.4%
Coal Subtotal	0.24	0.25	0.26	0.26	0.26	0.27	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.31	1.0%
Renewable Energy 7/	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	1.2%
Electricity	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	1.1%
Delivered Energy	1.70	1.76	1.77	1.79	1.82	1.86	1.89	1.92	1.95	1.97	1.99	2.01	2.03	2.05	2.07	2.10	2.13	2.14	2.16	2.18	2.21	2.25	1.3%
Electricity Related Losses	0.70	0.72	0.73	0.76	0.79	0.81	0.82	0.82	0.82	0.82	0.82	0.83	0.81	0.81	0.82	0.82	0.84	0.84	0.84	0.84	0.84	0.85	0.9%
Total	2.40	2.48	2.50	2.55	2.61	2.66	2.71	2.74	2.77	2.80	2.81	2.84	2.84	2.86	2.89	2.92	2.96	2.98	3.00	3.03	3.06	3.09	1.2%

**Table 4. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**04 - West North Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.8%
Jet Fuel 8/	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	2.4%
Motor Gasoline 2/	1.22	1.27	1.29	1.32	1.33	1.36	1.37	1.40	1.42	1.43	1.45	1.47	1.48	1.50	1.51	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.2%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3%
Liquefied Petroleum Gas	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.7%
Other Petroleum 9/	0.02	0.02	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.7%
Petroleum Subtotal	1.92	1.99	2.02	2.06	2.09	2.13	2.16	2.19	2.22	2.25	2.27	2.30	2.32	2.34	2.37	2.39	2.42	2.43	2.45	2.47	2.48	2.50	1.2%
Pipeline Fuel Natural Gas	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	1.6%
Compressed Natural Gas	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	0.02	12.9%
Renewables (E85) 10/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	16.1%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.1%
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	N/A
Electricity	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.0%
Delivered Energy	2.01	2.10	2.14	2.17	2.21	2.25	2.28	2.32	2.35	2.39	2.41	2.45	2.47	2.49	2.52	2.55	2.58	2.60	2.61	2.64	2.65	2.67	1.3%
Electricity Related Losses	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	3.7%
Total	2.02	2.11	2.15	2.19	2.22	2.27	2.30	2.34	2.37	2.41	2.43	2.47	2.49	2.52	2.54	2.57	2.60	2.62	2.64	2.66	2.68	2.70	1.3%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	0.73	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.82	0.83	0.83	0.83	0.84	0.85	0.85	0.86	0.86	0.87	0.87	0.87	0.88	0.8%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Jet Fuel 8/	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	2.4%
Liquefied Petroleum Gas	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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.3%
Motor Gasoline 2/	1.26	1.31	1.33	1.35	1.37	1.40	1.42	1.44	1.46	1.48	1.49	1.51	1.53	1.54	1.56	1.57	1.59	1.60	1.61	1.62	1.63	1.64	1.2%
Petrochemical Feedstocks	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.9%
Residual Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%
Other Petroleum 12/	0.28	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	1.1%
Petroleum Subtotal	2.64	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.05	3.08	3.11	3.13	3.16	3.19	3.22	3.26	3.28	3.30	3.32	3.35	3.37	1.1%
Natural Gas 6/	1.35	1.45	1.45	1.46	1.47	1.49	1.51	1.53	1.55	1.57	1.58	1.60	1.62	1.63	1.64	1.66	1.67	1.69	1.70	1.71	1.73	1.75	1.2%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	0.24	0.24	0.24	0.24	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	0.25	0.25	0.25	0.25	0.25	0.2%
Net Coal Coke Imports	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	6.4%
Coal Subtotal	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	1.0%
Renewable Energy 13/	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	1.1%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.1%
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	N/A
Electricity	0.80	0.83	0.84	0.85	0.86	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.97	0.98	0.99	1.00	1.01	1.01	1.02	1.03	1.04	1.2%
Delivered Energy	5.21	5.45	5.51	5.58	5.65	5.74	5.82	5.89	5.96	6.03	6.08	6.15	6.20	6.26	6.31	6.38	6.45	6.49	6.53	6.58	6.64	6.70	1.1%
Electricity Related Losses	2.12	2.26	2.32	2.40	2.45	2.52	2.53	2.55	2.55	2.56	2.57	2.57	2.55	2.55	2.56	2.55	2.59	2.60	2.60	2.60	2.60	2.60	0.9%
Total	7.33	7.71	7.83	7.98	8.11	8.25	8.35	8.44	8.51	8.59	8.65	8.72	8.75	8.81	8.88	8.93	9.04	9.09	9.13	9.18	9.23	9.29	1.1%
Electric Generators 14/																							
Distillate Fuel	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-1.1%
Residual Fuel	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.6%
Petroleum Subtotal	0.02	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-3.0%
Natural Gas	0.08	0.06	0.04	0.03	0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.19	0.24	0.26	0.26	0.27	0.27	0.27	5.9%
Steam Coal	2.19	2.39	2.47	2.56	2.64	2.77	2.80	2.81	2.82	2.82	2.83	2.83	2.84	2.84	2.84	2.85	2.86	2.86	2.86	2.86	2.87	2.87	1.2%
Nuclear Power	0.45	0.45	0.45	0.45	0.44	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.32	0.32	0.32	0.29	0.28	0.28	0.28	0.28	0.28	0.27	-2.2%
Renewable Energy 15/	0.18	0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.6%
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2.92	3.09	3.16	3.25	3.32	3.39	3.42	3.45	3.46	3.48	3.50	3.51	3.50	3.52	3.54	3.54	3.59	3.60	3.61	3.62	3.63	3.64	1.0%

**Table 4. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
04 - West North Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Total Energy Consumption																							
Distillate Fuel	0.74	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.84	0.85	0.86	0.86	0.87	0.87	0.87	0.88	0.88	0.8%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Jet Fuel 8/	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	2.4%
Liquefied Petroleum Gas	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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.3%
Motor Gasoline 2/	1.26	1.31	1.33	1.35	1.37	1.40	1.42	1.44	1.46	1.48	1.49	1.51	1.53	1.54	1.56	1.57	1.59	1.60	1.61	1.62	1.63	1.64	1.2%
Petrochemical Feedstocks	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.9%
Residual Fuel	0.02	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.8%
Other Petroleum 12/	0.28	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	1.1%
Petroleum Subtotal	2.65	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.06	3.09	3.12	3.14	3.17	3.20	3.23	3.27	3.29	3.31	3.33	3.35	3.38	1.1%
Natural Gas	1.43	1.51	1.48	1.49	1.50	1.52	1.55	1.59	1.62	1.65	1.67	1.71	1.75	1.77	1.81	1.84	1.91	1.94	1.96	1.98	2.00	2.02	1.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	2.43	2.63	2.71	2.80	2.89	3.01	3.05	3.06	3.07	3.07	3.08	3.08	3.09	3.09	3.09	3.10	3.11	3.11	3.11	3.11	3.12	3.13	1.1%
Net Coal Coke Imports	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	6.4%
Coal Subtotal	2.45	2.66	2.74	2.84	2.92	3.05	3.09	3.11	3.12	3.12	3.13	3.14	3.14	3.15	3.15	3.16	3.17	3.17	3.18	3.18	3.19	3.20	1.2%
Nuclear Power	0.45	0.45	0.45	0.45	0.44	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.32	0.32	0.32	0.29	0.28	0.28	0.28	0.28	0.28	0.27	-2.2%
Renewable Energy 17/	0.34	0.34	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.9%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.1%
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	N/A
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	7.33	7.71	7.83	7.98	8.11	8.25	8.35	8.44	8.51	8.59	8.65	8.72	8.75	8.81	8.88	8.93	9.04	9.09	9.13	9.18	9.23	9.29	1.1%
Energy Use & Related Statistics																							
Delivered Energy Use	5.21	5.45	5.51	5.58	5.65	5.74	5.82	5.89	5.96	6.03	6.08	6.15	6.20	6.26	6.31	6.38	6.45	6.49	6.53	6.58	6.64	6.70	1.1%
Total Energy Use	7.33	7.71	7.83	7.98	8.11	8.25	8.35	8.44	8.51	8.59	8.65	8.72	8.75	8.81	8.88	8.93	9.04	9.09	9.13	9.18	9.23	9.29	1.1%
Population (millions)	18.71	18.94	19.05	19.17	19.29	19.40	19.50	19.60	19.70	19.81	19.92	20.04	20.15	20.27	20.39	20.50	20.61	20.71	20.82	20.92	21.01	21.10	0.5%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values

of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 5. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**05 - South Atlantic**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Energy Consumption</b>																							
<b>Residential</b>																							
Distillate Fuel	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	-1.6%
Kerosene	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.1%
Liquefied Petroleum Gas	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-0.1%
Petroleum Subtotal	0.21	0.21	0.21	0.21	0.21	0.21	0.20	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	0.18	0.18	-0.7%
Natural Gas	0.38	0.41	0.42	0.43	0.44	0.46	0.47	0.48	0.49	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	2.4%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.4%
Renewable Energy 1/	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	1.2%
Electricity	0.90	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.20	1.22	1.23	1.25	1.27	1.28	1.30	1.32	1.7%
Delivered Energy	1.56	1.65	1.68	1.71	1.74	1.77	1.80	1.83	1.86	1.90	1.93	1.96	1.98	2.01	2.03	2.06	2.09	2.12	2.14	2.16	2.19	2.22	1.6%
Electricity Related Losses	1.90	1.94	1.95	1.94	1.98	2.01	2.01	2.00	2.01	2.01	2.01	1.98	1.95	1.95	1.94	1.94	1.94	1.93	1.93	1.95	1.95	1.99	0.2%
Total	3.46	3.59	3.63	3.65	3.72	3.78	3.81	3.83	3.87	3.90	3.93	3.93	3.93	3.96	3.97	4.00	4.02	4.05	4.06	4.11	4.14	4.21	0.9%
<b>Commercial</b>																							
Distillate Fuel	0.07	0.07	0.07	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	0.08	0.08	0.08	0.08	0.08	0.08	0.3%
Residual Fuel	0.01	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.9%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5%
Liquefied Petroleum Gas	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.2%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.5%
Natural Gas	0.32	0.34	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.39	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.45	1.5%
Coal	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.3%
Renewable Energy 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Electricity	0.80	0.84	0.86	0.87	0.89	0.91	0.92	0.94	0.95	0.97	0.99	1.00	1.02	1.04	1.05	1.06	1.07	1.08	1.09	1.09	1.10	1.10	1.5%
Delivered Energy	1.25	1.31	1.34	1.36	1.38	1.41	1.43	1.45	1.47	1.50	1.52	1.55	1.57	1.60	1.62	1.63	1.65	1.66	1.67	1.68	1.69	1.70	1.4%
Electricity Related Losses	1.68	1.71	1.72	1.72	1.75	1.76	1.76	1.76	1.76	1.75	1.75	1.72	1.71	1.70	1.70	1.69	1.68	1.66	1.65	1.66	1.65	1.66	0.0%
Total	2.92	3.02	3.06	3.08	3.13	3.16	3.19	3.21	3.23	3.25	3.28	3.27	3.28	3.30	3.31	3.33	3.32	3.32	3.33	3.34	3.34	3.35	0.6%
<b>Industrial 4/</b>																							
Distillate Fuel	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	1.3%
Liquefied Petroleum Gas	0.06	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	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	1.1%
Petrochemical Feedstocks	0.17	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	1.1%
Residual Fuel	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.1%
Motor Gasoline 2/	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	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	1.4%
Other Petroleum 5/	0.34	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.41	0.42	0.43	0.43	0.44	0.44	0.45	0.46	1.4%
Petroleum Subtotal	0.84	0.87	0.88	0.89	0.90	0.91	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.02	1.03	1.05	1.06	1.07	1.08	1.09	1.11	1.3%
Natural Gas 6/	0.70	0.70	0.70	0.71	0.73	0.75	0.76	0.77	0.78	0.79	0.79	0.80	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.86	0.87	0.88	1.0%
Metallurgical Coal	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	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	-1.8%
Steam Coal	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.2%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.3%
Renewable Energy 7/	0.40	0.41	0.41	0.42	0.42	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.9%
Electricity	0.54	0.54	0.54	0.55	0.57	0.58	0.59	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	1.4%
Delivered Energy	2.86	2.89	2.91	2.95	3.00	3.05	3.10	3.14	3.17	3.20	3.22	3.25	3.27	3.30	3.34	3.39	3.43	3.46	3.49	3.53	3.56	3.60	1.1%
Electricity Related Losses	1.13	1.10	1.09	1.08	1.11	1.12	1.13	1.12	1.12	1.11	1.10	1.08	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.08	1.08	1.09	-0.1%
Total	3.99	3.99	4.00	4.03	4.11	4.17	4.23	4.26	4.29	4.31	4.32	4.33	4.34	4.37	4.41	4.46	4.50	4.52	4.56	4.60	4.64	4.70	0.7%

**Table 5. Energy Consumption by Sector and Source (2 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
05 - South Atlantic**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.86	0.89	0.91	0.92	0.94	0.96	0.98	0.99	1.00	1.01	1.02	1.04	1.05	1.06	1.07	1.09	1.11	1.12	1.13	1.14	1.16	1.17	1.4%
Jet Fuel 8/	0.41	0.43	0.45	0.46	0.47	0.49	0.51	0.53	0.54	0.56	0.57	0.59	0.61	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	3.0%
Motor Gasoline 2/	3.03	3.15	3.22	3.30	3.35	3.43	3.50	3.58	3.65	3.72	3.79	3.87	3.93	4.00	4.06	4.14	4.21	4.27	4.33	4.40	4.46	4.53	1.8%
Residual Fuel	0.07	0.07	0.08	0.08	0.08	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	0.12	0.12	0.12	0.13	2.9%
Liquefied Petroleum Gas	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	6.0%
Other Petroleum 9/	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	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	1.3%
Petroleum Subtotal	4.42	4.61	4.72	4.82	4.92	5.03	5.14	5.25	5.36	5.47	5.57	5.68	5.77	5.87	5.97	6.09	6.20	6.30	6.39	6.49	6.59	6.70	1.9%
Pipeline Fuel Natural Gas	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.8%
Compressed Natural Gas	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	13.4%
Renewables (E85) 10/	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	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	16.8%
Methanol (M85) 11/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	14.8%
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	N/A
Electricity	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4.7%
Delivered Energy	4.51	4.70	4.81	4.92	5.03	5.15	5.27	5.39	5.51	5.62	5.73	5.84	5.94	6.05	6.16	6.28	6.40	6.50	6.61	6.71	6.81	6.92	2.0%
Electricity Related Losses	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	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	3.1%
Total	4.54	4.73	4.84	4.95	5.06	5.18	5.30	5.42	5.54	5.66	5.77	5.88	5.98	6.09	6.20	6.33	6.45	6.55	6.65	6.76	6.86	6.97	2.0%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	1.18	1.21	1.23	1.25	1.27	1.29	1.31	1.33	1.34	1.36	1.36	1.38	1.39	1.40	1.42	1.44	1.45	1.47	1.48	1.49	1.51	1.52	1.1%
Kerosene	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Jet Fuel 8/	0.41	0.43	0.45	0.46	0.47	0.49	0.51	0.53	0.54	0.56	0.57	0.59	0.61	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	3.0%
Liquefied Petroleum Gas	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	1.0%
Motor Gasoline 2/	3.06	3.18	3.26	3.33	3.38	3.46	3.53	3.61	3.69	3.76	3.83	3.90	3.97	4.03	4.10	4.17	4.25	4.31	4.37	4.44	4.50	4.57	1.8%
Petrochemical Feedstocks	0.17	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	1.1%
Residual Fuel	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.25	1.9%
Other Petroleum 12/	0.38	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.47	0.48	0.49	0.49	0.50	0.51	0.51	0.52	1.4%
Petroleum Subtotal	5.58	5.79	5.91	6.02	6.13	6.26	6.38	6.51	6.63	6.74	6.85	6.97	7.07	7.18	7.29	7.42	7.55	7.66	7.76	7.87	7.98	8.10	1.7%
Natural Gas 6/	1.47	1.52	1.54	1.57	1.61	1.65	1.69	1.72	1.75	1.78	1.81	1.84	1.86	1.89	1.92	1.95	1.98	2.01	2.03	2.05	2.08	2.10	1.6%
Metallurgical Coal	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	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	-1.8%
Steam Coal	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.3%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.3%
Renewable Energy 13/	0.48	0.49	0.50	0.51	0.51	0.52	0.53	0.53	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.60	1.0%
Methanol (M85) 11/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	14.8%
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	N/A
Electricity	2.25	2.34	2.38	2.43	2.48	2.53	2.58	2.62	2.67	2.72	2.76	2.80	2.85	2.90	2.94	2.98	3.02	3.05	3.08	3.12	3.15	3.19	1.6%
Delivered Energy	10.17	10.55	10.74	10.94	11.15	11.38	11.60	11.81	12.01	12.22	12.40	12.60	12.77	12.96	13.15	13.37	13.57	13.74	13.91	14.08	14.26	14.44	1.6%
Electricity Related Losses	4.73	4.77	4.78	4.77	4.87	4.92	4.93	4.92	4.93	4.90	4.90	4.82	4.77	4.76	4.74	4.75	4.73	4.70	4.69	4.73	4.73	4.79	0.1%
Total	14.90	15.33	15.52	15.71	16.02	16.30	16.53	16.73	16.94	17.12	17.30	17.42	17.54	17.72	17.90	18.12	18.30	18.44	18.60	18.81	18.99	19.23	1.2%
Electric Generators 14/																							
Distillate Fuel	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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	-3.7%
Residual Fuel	0.50	0.33	0.32	0.27	0.22	0.19	0.19	0.21	0.20	0.18	0.17	0.16	0.14	0.14	0.13	0.14	0.15	0.14	0.13	0.13	0.13	0.13	-6.1%
Petroleum Subtotal	0.53	0.34	0.33	0.28	0.24	0.20	0.20	0.21	0.21	0.19	0.18	0.16	0.15	0.14	0.14	0.15	0.16	0.15	0.14	0.14	0.14	0.14	-6.0%
Natural Gas	0.41	0.47	0.39	0.39	0.41	0.43	0.49	0.54	0.59	0.61	0.61	0.66	0.70	0.74	0.80	0.85	0.88	0.91	0.95	0.97	0.99	1.00	4.2%
Steam Coal	3.91	4.16	4.26	4.34	4.52	4.62	4.68	4.74	4.79	4.82	4.86	4.81	4.82	4.85	4.88	4.94	5.02	5.05	5.13	5.21	5.27	5.36	1.4%
Nuclear Power	1.89	1.90	1.90	1.90	1.90	1.90	1.84	1.75	1.71	1.71	1.71	1.69	1.65	1.62	1.56	1.49	1.39	1.33	1.25	1.23	1.18	1.18	-2.1%
Renewable Energy 15/	0.24	0.24	0.27	0.27	0.27	0.29	0.30	0.30	0.31	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.30	0.30	0.30	0.30	0.30	1.0%
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	6.98	7.12	7.16	7.20	7.35	7.45	7.50	7.54	7.59	7.62	7.66	7.63	7.62	7.65	7.68	7.73	7.74	7.75	7.78	7.85	7.89	7.98	0.6%

**Table 5. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
05 - South Atlantic**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Total Energy Consumption																							
Distillate Fuel	1.20	1.23	1.24	1.26	1.28	1.30	1.32	1.33	1.35	1.36	1.37	1.38	1.39	1.41	1.42	1.44	1.46	1.47	1.49	1.50	1.52	1.53	1.1%
Kerosene	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Jet Fuel 8/	0.41	0.43	0.45	0.46	0.47	0.49	0.51	0.53	0.54	0.56	0.57	0.59	0.61	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	3.0%
Liquefied Petroleum Gas	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	1.0%
Motor Gasoline 2/	3.06	3.18	3.26	3.33	3.38	3.46	3.53	3.61	3.69	3.76	3.83	3.90	3.97	4.03	4.10	4.17	4.25	4.31	4.37	4.44	4.50	4.57	1.8%
Petrochemical Feedstocks	0.17	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	1.1%
Residual Fuel	0.67	0.50	0.49	0.45	0.40	0.38	0.38	0.40	0.39	0.38	0.37	0.36	0.35	0.35	0.35	0.36	0.38	0.37	0.37	0.37	0.37	0.37	-2.6%
Other Petroleum 12/	0.38	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.47	0.48	0.49	0.49	0.50	0.51	0.51	0.52	1.4%
Petroleum Subtotal	6.11	6.13	6.24	6.30	6.36	6.46	6.58	6.72	6.83	6.93	7.03	7.13	7.22	7.32	7.43	7.57	7.71	7.81	7.90	8.01	8.12	8.24	1.4%
Natural Gas	1.88	1.99	1.93	1.96	2.02	2.08	2.18	2.26	2.34	2.39	2.42	2.50	2.56	2.64	2.72	2.80	2.86	2.92	2.98	3.02	3.07	3.10	2.3%
Metallurgical Coal	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	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	-1.8%
Steam Coal	4.24	4.49	4.59	4.68	4.86	4.96	5.01	5.08	5.12	5.16	5.20	5.15	5.16	5.19	5.22	5.28	5.36	5.39	5.47	5.56	5.62	5.71	1.4%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	4.31	4.56	4.67	4.75	4.93	5.03	5.09	5.15	5.20	5.24	5.28	5.22	5.23	5.26	5.30	5.35	5.43	5.47	5.55	5.63	5.69	5.78	1.3%
Nuclear Power	1.89	1.90	1.90	1.90	1.90	1.90	1.84	1.75	1.71	1.71	1.71	1.69	1.65	1.62	1.56	1.49	1.39	1.33	1.25	1.23	1.18	1.18	-2.1%
Renewable Energy 17/	0.72	0.74	0.77	0.78	0.79	0.81	0.83	0.83	0.84	0.84	0.85	0.86	0.86	0.86	0.87	0.87	0.87	0.88	0.89	0.89	0.89	0.90	1.0%
Methanol (M85) 11/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	14.8%
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	N/A
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	14.90	15.33	15.52	15.71	16.02	16.30	16.53	16.73	16.94	17.12	17.30	17.42	17.54	17.72	17.90	18.12	18.30	18.44	18.60	18.81	18.99	19.23	1.2%
Energy Use & Related Statistics																							
Delivered Energy Use	10.17	10.55	10.74	10.94	11.15	11.38	11.60	11.81	12.01	12.22	12.40	12.60	12.77	12.96	13.15	13.37	13.57	13.74	13.91	14.08	14.26	14.44	1.6%
Total Energy Use	14.90	15.33	15.52	15.71	16.02	16.30	16.53	16.73	16.94	17.12	17.30	17.42	17.54	17.72	17.90	18.12	18.30	18.44	18.60	18.81	18.99	19.23	1.2%
Population (millions)	49.01	50.18	50.76	51.36	51.95	52.55	53.16	53.78	54.42	55.07	55.74	56.42	57.12	57.83	58.54	59.26	59.99	60.72	61.46	62.21	62.95	63.68	1.2%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values

of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 6. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**06 - East South Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.9%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.3%
Liquefied Petroleum Gas	0.03	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.5%
Petroleum Subtotal	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Natural Gas	0.19	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.27	1.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Renewable Energy 1/	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.2%
Electricity	0.33	0.35	0.35	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.42	0.42	0.42	1.1%
Delivered Energy	0.59	0.64	0.65	0.65	0.66	0.67	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.75	0.76	0.77	0.77	1.2%
Electricity Related Losses	0.83	0.90	0.93	0.93	0.95	0.97	0.98	0.99	1.01	1.03	1.04	1.05	1.07	1.07	1.07	1.06	1.06	1.06	1.03	1.01	1.01	1.01	0.9%
Total	1.42	1.53	1.57	1.59	1.61	1.63	1.65	1.68	1.70	1.73	1.74	1.76	1.78	1.80	1.80	1.80	1.80	1.81	1.78	1.77	1.78	1.78	1.0%
Commercial																							
Distillate Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.2%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.0%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2%
Natural Gas	0.15	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	1.0%
Coal	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.0%
Renewable Energy 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Electricity	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	1.8%
Delivered Energy	0.33	0.36	0.36	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	1.4%
Electricity Related Losses	0.39	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.54	0.55	0.56	0.58	0.58	0.59	0.59	0.59	0.58	0.57	0.56	0.56	0.55	1.6%
Total	0.72	0.77	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.03	1.03	1.03	1.03	1.02	1.01	1.01	1.00	1.5%
Industrial 4/																							
Distillate Fuel	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	1.3%
Liquefied Petroleum Gas	0.04	0.04	0.04	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	0.05	0.05	0.05	0.05	0.05	0.05	1.1%
Petrochemical Feedstocks	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.1%
Residual Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.1%
Motor Gasoline 2/	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.4%
Other Petroleum 5/	0.30	0.31	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	1.0%
Petroleum Subtotal	0.58	0.59	0.60	0.60	0.61	0.62	0.63	0.63	0.64	0.65	0.65	0.66	0.67	0.67	0.68	0.69	0.70	0.71	0.71	0.72	0.73	0.73	1.1%
Natural Gas 6/	0.51	0.50	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.56	0.57	0.57	0.58	0.59	0.59	0.60	0.61	0.62	0.62	0.63	0.64	0.64	1.1%
Metallurgical Coal	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	-1.8%
Steam Coal	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	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.2%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.0%
Renewable Energy 7/	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.29	0.29	1.1%
Electricity	0.47	0.47	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.54	0.55	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.62	0.63	1.4%
Delivered Energy	2.10	2.12	2.13	2.15	2.19	2.23	2.26	2.29	2.31	2.33	2.35	2.37	2.39	2.41	2.44	2.47	2.51	2.53	2.55	2.57	2.60	2.63	1.0%
Electricity Related Losses	1.16	1.21	1.24	1.26	1.30	1.33	1.36	1.39	1.42	1.45	1.46	1.49	1.51	1.52	1.54	1.54	1.54	1.54	1.52	1.50	1.51	1.50	1.2%
Total	3.26	3.33	3.37	3.41	3.49	3.55	3.62	3.68	3.73	3.78	3.81	3.86	3.90	3.94	3.98	4.01	4.05	4.07	4.07	4.07	4.11	4.13	1.1%



**Table 6. Energy Consumption by Sector and Source (2 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
06 - East South Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.45	0.46	0.47	0.48	0.48	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.9%
Jet Fuel 8/	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	2.7%
Motor Gasoline 2/	1.06	1.11	1.13	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.28	1.30	1.32	1.33	1.34	1.36	1.37	1.38	1.39	1.40	1.41	1.43	1.3%
Residual Fuel	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	2.5%
Liquefied Petroleum Gas	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.7%
Other Petroleum 9/	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.9%
Petroleum Subtotal	1.71	1.77	1.81	1.85	1.88	1.91	1.94	1.98	2.00	2.03	2.06	2.08	2.10	2.12	2.15	2.18	2.20	2.22	2.24	2.26	2.28	2.30	1.4%
Pipeline Fuel Natural Gas	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	1.4%
Compressed Natural Gas	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	13.1%
Renewables (E85) 10/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.3%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.0%
Delivered Energy	1.82	1.89	1.92	1.96	1.99	2.03	2.07	2.11	2.14	2.18	2.21	2.24	2.27	2.29	2.32	2.36	2.39	2.41	2.43	2.45	2.48	2.50	1.4%
Electricity Related Losses	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.8%
Total	1.83	1.90	1.93	1.97	2.00	2.05	2.09	2.13	2.16	2.20	2.23	2.26	2.29	2.32	2.35	2.38	2.41	2.43	2.46	2.48	2.50	2.52	1.5%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.67	0.67	0.67	0.68	0.68	0.69	0.69	0.9%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Jet Fuel 8/	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	2.7%
Liquefied Petroleum Gas	0.08	0.09	0.09	0.09	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	0.10	0.11	0.11	0.11	0.11	1.1%
Motor Gasoline 2/	1.08	1.12	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.29	1.31	1.32	1.34	1.35	1.36	1.38	1.39	1.41	1.42	1.43	1.44	1.45	1.3%
Petrochemical Feedstocks	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.1%
Residual Fuel	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	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.2%
Other Petroleum 12/	0.32	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.40	0.40	1.0%
Petroleum Subtotal	2.35	2.43	2.48	2.52	2.55	2.60	2.64	2.68	2.72	2.75	2.78	2.82	2.84	2.87	2.90	2.94	2.97	3.00	3.02	3.05	3.08	3.11	1.3%
Natural Gas 6/	0.96	0.98	0.99	1.00	1.02	1.04	1.06	1.08	1.09	1.11	1.12	1.14	1.16	1.17	1.19	1.20	1.22	1.23	1.24	1.25	1.27	1.28	1.3%
Metallurgical Coal	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	-1.8%
Steam Coal	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	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.2%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.0%
Renewable Energy 13/	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	1.2%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.96	0.99	1.00	1.01	1.03	1.05	1.07	1.09	1.10	1.12	1.14	1.15	1.17	1.18	1.20	1.22	1.23	1.25	1.26	1.27	1.29	1.30	1.4%
Delivered Energy	4.85	5.00	5.06	5.13	5.22	5.31	5.39	5.47	5.55	5.62	5.67	5.74	5.80	5.86	5.93	6.01	6.08	6.13	6.18	6.23	6.29	6.35	1.2%
Electricity Related Losses	2.38	2.54	2.62	2.66	2.72	2.78	2.84	2.91	2.96	3.03	3.07	3.12	3.17	3.20	3.23	3.21	3.21	3.21	3.15	3.10	3.11	3.08	1.2%
Total	7.24	7.54	7.68	7.79	7.94	8.09	8.23	8.38	8.51	8.65	8.74	8.87	8.97	9.06	9.16	9.22	9.29	9.34	9.33	9.34	9.40	9.43	1.2%
Electric Generators 14/																							
Distillate Fuel	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.8%
Residual Fuel	0.06	0.06	0.07	0.06	0.06	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	-0.9%
Petroleum Subtotal	0.07	0.07	0.07	0.07	0.06	0.05	0.06	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	0.05	0.05	-1.0%
Natural Gas	0.12	0.06	0.06	0.06	0.07	0.14	0.19	0.26	0.33	0.41	0.46	0.54	0.61	0.65	0.70	0.77	0.83	0.86	0.89	0.94	0.96	0.96	10.0%
Steam Coal	2.26	2.51	2.58	2.65	2.73	2.74	2.75	2.76	2.75	2.75	2.76	2.75	2.75	2.76	2.76	2.73	2.74	2.74	2.74	2.71	2.71	2.71	0.8%
Nuclear Power	0.66	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.64	0.58	0.55	0.47	0.43	0.43	0.41	-2.1%
Renewable Energy 15/	0.25	0.23	0.24	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	-0.2%
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	3.34	3.53	3.62	3.67	3.76	3.84	3.91	4.00	4.07	4.15	4.20	4.28	4.34	4.38	4.43	4.43	4.45	4.45	4.41	4.37	4.39	4.38	1.2%

**Table 6. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
06 - East South Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Total Energy Consumption																							
Distillate Fuel	0.57	0.59	0.59	0.60	0.61	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.68	0.68	0.68	0.69	0.69	0.9%
Kerosene	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Jet Fuel 8/	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	2.7%
Liquefied Petroleum Gas	0.08	0.09	0.09	0.09	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	0.10	0.11	0.11	0.11	0.11	1.1%
Motor Gasoline 2/	1.08	1.12	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.29	1.31	1.32	1.34	1.35	1.36	1.38	1.39	1.41	1.42	1.43	1.44	1.45	1.3%
Petrochemical Feedstocks	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.1%
Residual Fuel	0.09	0.09	0.10	0.09	0.09	0.08	0.09	0.10	0.10	0.11	0.10	0.10	0.10	0.10	0.09	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.2%
Other Petroleum 12/	0.32	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.40	0.40	1.0%
Petroleum Subtotal	2.42	2.50	2.55	2.59	2.62	2.65	2.70	2.75	2.80	2.83	2.85	2.88	2.90	2.93	2.96	3.00	3.03	3.06	3.08	3.11	3.13	3.16	1.2%
Natural Gas	1.08	1.04	1.05	1.05	1.09	1.17	1.25	1.34	1.42	1.52	1.58	1.68	1.76	1.82	1.88	1.97	2.05	2.10	2.14	2.20	2.23	2.24	3.4%
Metallurgical Coal	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	-1.8%
Steam Coal	2.47	2.73	2.80	2.87	2.95	2.97	2.97	2.98	2.98	2.98	2.98	2.97	2.98	2.98	2.99	2.95	2.96	2.96	2.97	2.94	2.94	2.94	0.8%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	2.59	2.84	2.92	2.98	3.06	3.08	3.09	3.09	3.09	3.09	3.10	3.09	3.09	3.09	3.10	3.06	3.07	3.07	3.08	3.04	3.05	3.05	0.7%
Nuclear Power	0.66	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.64	0.58	0.55	0.47	0.43	0.43	0.41	-2.1%
Renewable Energy 17/	0.49	0.49	0.50	0.50	0.50	0.51	0.52	0.52	0.53	0.54	0.53	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.6%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	7.24	7.54	7.68	7.79	7.94	8.09	8.23	8.38	8.51	8.65	8.74	8.87	8.97	9.06	9.16	9.22	9.29	9.34	9.33	9.34	9.40	9.43	1.2%
Energy Use & Related Statistics																							
Delivered Energy Use	4.85	5.00	5.06	5.13	5.22	5.31	5.39	5.47	5.55	5.62	5.67	5.74	5.80	5.86	5.93	6.01	6.08	6.13	6.18	6.23	6.29	6.35	1.2%
Total Energy Use	7.24	7.54	7.68	7.79	7.94	8.09	8.23	8.38	8.51	8.65	8.74	8.87	8.97	9.06	9.16	9.22	9.29	9.34	9.33	9.34	9.40	9.43	1.2%
Population (millions)	16.48	16.64	16.73	16.81	16.90	16.98	17.07	17.15	17.23	17.32	17.41	17.50	17.60	17.69	17.78	17.87	17.96	18.05	18.14	18.23	18.32	18.40	0.5%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 7. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**07 - West South Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
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	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.8%
Petroleum Subtotal	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	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	-0.8%
Natural Gas	0.37	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.49	0.49	0.50	0.50	1.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.6%
Renewable Energy 1/	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.7%
Electricity	0.54	0.57	0.58	0.59	0.60	0.62	0.63	0.64	0.65	0.66	0.67	0.69	0.70	0.71	0.72	0.73	0.74	0.76	0.77	0.78	0.79	0.80	1.8%
Delivered Energy	0.95	1.06	1.08	1.09	1.10	1.12	1.13	1.14	1.15	1.16	1.18	1.19	1.21	1.23	1.24	1.25	1.27	1.29	1.30	1.31	1.33	1.35	1.6%
Electricity Related Losses	1.18	1.24	1.23	1.23	1.23	1.23	1.24	1.26	1.27	1.29	1.28	1.30	1.31	1.32	1.32	1.33	1.34	1.32	1.32	1.32	1.32	1.32	0.5%
Total	2.14	2.31	2.31	2.32	2.33	2.35	2.37	2.40	2.42	2.45	2.46	2.49	2.52	2.54	2.56	2.58	2.61	2.61	2.62	2.64	2.65	2.67	1.0%
Commercial																							
Distillate Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.3%
Natural Gas	0.28	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	1.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3%
Renewable Energy 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Electricity	0.45	0.47	0.48	0.49	0.50	0.51	0.52	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.58	0.59	0.59	0.60	0.60	0.60	0.60	0.60	1.3%
Delivered Energy	0.75	0.81	0.82	0.83	0.85	0.86	0.87	0.88	0.89	0.90	0.92	0.93	0.94	0.96	0.97	0.97	0.98	0.99	0.99	0.99	0.99	0.99	1.3%
Electricity Related Losses	0.99	1.03	1.02	1.02	1.02	1.01	1.02	1.03	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.06	1.04	1.04	1.02	1.01	1.00	0.0%
Total	1.74	1.83	1.84	1.86	1.86	1.87	1.89	1.91	1.93	1.95	1.96	1.99	2.01	2.02	2.04	2.04	2.04	2.03	2.03	2.02	2.00	1.99	0.6%
Industrial 4/																							
Distillate Fuel	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	1.3%
Liquefied Petroleum Gas	1.65	1.75	1.77	1.78	1.81	1.82	1.83	1.84	1.86	1.88	1.90	1.92	1.94	1.97	1.99	2.02	2.04	2.05	2.07	2.08	2.10	2.13	1.1%
Petrochemical Feedstocks	0.71	0.66	0.67	0.69	0.71	0.73	0.75	0.77	0.78	0.79	0.80	0.81	0.81	0.82	0.84	0.85	0.85	0.86	0.87	0.87	0.88	0.89	1.1%
Residual Fuel	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.1%
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	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	1.4%
Other Petroleum 5/	1.24	1.31	1.34	1.35	1.34	1.36	1.38	1.40	1.43	1.42	1.43	1.44	1.44	1.44	1.45	1.45	1.47	1.47	1.47	1.48	1.48	1.48	0.8%
Petroleum Subtotal	3.86	3.99	4.05	4.09	4.14	4.20	4.25	4.30	4.37	4.40	4.43	4.47	4.50	4.54	4.59	4.64	4.68	4.71	4.74	4.77	4.81	4.85	1.0%
Natural Gas 6/	4.14	3.97	3.95	3.99	4.09	4.17	4.25	4.34	4.38	4.43	4.45	4.50	4.53	4.57	4.61	4.66	4.71	4.73	4.76	4.79	4.82	4.84	0.7%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.2%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	1.2%
Renewable Energy 7/	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.30	1.4%
Electricity	0.53	0.54	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.63	0.64	0.65	0.67	0.67	0.68	0.69	0.70	0.70	1.3%
Delivered Energy	8.85	8.83	8.88	8.97	9.15	9.30	9.46	9.60	9.73	9.82	9.88	9.99	10.04	10.14	10.24	10.36	10.47	10.53	10.60	10.67	10.75	10.83	0.9%
Electricity Related Losses	1.17	1.17	1.14	1.14	1.14	1.15	1.16	1.17	1.19	1.19	1.17	1.18	1.17	1.17	1.18	1.18	1.19	1.17	1.18	1.17	1.16	1.16	0.0%
Total	10.02	10.01	10.03	10.12	10.29	10.44	10.62	10.77	10.92	11.00	11.05	11.16	11.22	11.31	11.42	11.54	11.66	11.70	11.78	11.84	11.91	11.99	0.8%

**Table 7. Energy Consumption by Sector and Source (2 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
07 - West South Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.81	0.84	0.85	0.87	0.89	0.90	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.98	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.3%
Jet Fuel 8/	0.79	0.84	0.86	0.89	0.93	0.96	1.00	1.03	1.07	1.10	1.13	1.17	1.20	1.24	1.27	1.32	1.35	1.39	1.43	1.47	1.51	1.54	3.1%
Motor Gasoline 2/	1.90	1.97	2.02	2.06	2.09	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.41	2.44	2.47	2.51	2.54	2.57	2.60	2.63	2.66	2.69	1.6%
Residual Fuel	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	2.9%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	5.0%
Other Petroleum 9/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.1%
Petroleum Subtotal	3.75	3.92	4.02	4.11	4.21	4.31	4.41	4.51	4.61	4.70	4.79	4.89	4.96	5.05	5.13	5.24	5.33	5.42	5.50	5.58	5.67	5.76	2.0%
Pipeline Fuel Natural Gas	0.19	0.20	0.19	0.19	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.24	1.1%
Compressed Natural Gas	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	13.3%
Renewables (E85) 10/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	16.6%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	14.5%
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	N/A
Electricity	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.4%
Delivered Energy	3.95	4.14	4.23	4.33	4.43	4.54	4.65	4.76	4.87	4.97	5.06	5.17	5.25	5.34	5.44	5.55	5.65	5.74	5.82	5.91	6.00	6.08	2.0%
Electricity Related Losses	0.02	0.02	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	3.1%
Total	3.97	4.16	4.25	4.35	4.45	4.56	4.67	4.79	4.89	4.99	5.09	5.20	5.28	5.37	5.47	5.58	5.68	5.77	5.85	5.94	6.03	6.12	2.0%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	1.03	1.06	1.08	1.10	1.13	1.15	1.17	1.18	1.20	1.21	1.22	1.23	1.24	1.25	1.27	1.28	1.30	1.31	1.32	1.33	1.34	1.36	1.2%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Jet Fuel 8/	0.79	0.84	0.86	0.89	0.93	0.96	1.00	1.03	1.07	1.10	1.13	1.17	1.20	1.24	1.27	1.32	1.35	1.39	1.43	1.47	1.51	1.54	3.1%
Liquefied Petroleum Gas	1.69	1.79	1.81	1.83	1.85	1.86	1.87	1.88	1.90	1.93	1.95	1.97	1.98	2.01	2.04	2.06	2.08	2.09	2.11	2.13	2.15	2.17	1.1%
Motor Gasoline 2/	1.93	2.01	2.06	2.10	2.13	2.17	2.22	2.26	2.30	2.34	2.38	2.42	2.45	2.48	2.52	2.55	2.59	2.62	2.65	2.68	2.71	2.74	1.6%
Petrochemical Feedstocks	0.71	0.66	0.67	0.69	0.71	0.73	0.75	0.77	0.78	0.79	0.80	0.81	0.81	0.82	0.84	0.85	0.85	0.86	0.87	0.87	0.88	0.89	1.1%
Residual Fuel	0.22	0.24	0.24	0.25	0.26	0.27	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.39	0.40	2.8%
Other Petroleum 12/	1.28	1.36	1.39	1.40	1.39	1.41	1.43	1.45	1.48	1.48	1.48	1.49	1.49	1.50	1.50	1.51	1.52	1.53	1.53	1.53	1.54	1.54	0.8%
Petroleum Subtotal	7.66	7.97	8.12	8.26	8.40	8.56	8.72	8.86	9.02	9.15	9.27	9.41	9.51	9.64	9.77	9.92	10.06	10.17	10.28	10.40	10.52	10.65	1.5%
Natural Gas 6/	4.99	4.93	4.91	4.95	5.07	5.16	5.25	5.35	5.41	5.46	5.50	5.56	5.60	5.65	5.71	5.77	5.83	5.86	5.89	5.93	5.96	5.99	0.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.2%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	1.2%
Renewable Energy 13/	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	1.6%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	14.5%
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	N/A
Electricity	1.52	1.59	1.61	1.64	1.67	1.70	1.74	1.76	1.79	1.82	1.85	1.88	1.91	1.94	1.96	1.99	2.02	2.04	2.06	2.08	2.10	2.13	1.5%
Delivered Energy	14.51	14.84	15.01	15.23	15.52	15.81	16.10	16.38	16.63	16.85	17.04	17.28	17.45	17.66	17.88	18.13	18.37	18.54	18.71	18.88	19.07	19.25	1.3%
Electricity Related Losses	3.36	3.46	3.41	3.41	3.41	3.41	3.45	3.49	3.53	3.55	3.52	3.57	3.58	3.58	3.60	3.61	3.63	3.57	3.57	3.55	3.52	3.52	0.2%
Total	17.87	18.30	18.42	18.64	18.93	19.23	19.55	19.87	20.16	20.40	20.56	20.84	21.03	21.25	21.49	21.74	21.99	22.11	22.28	22.43	22.59	22.77	1.1%
Electric Generators 14/																							
Distillate Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2%
Residual Fuel	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.9%
Petroleum Subtotal	0.01	0.01	0.01	0.01	0.01	0.01	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	0.00	0.00	0.00	-5.2%
Natural Gas	1.89	1.88	1.79	1.78	1.88	1.90	1.96	2.01	2.11	2.18	2.19	2.25	2.29	2.33	2.37	2.44	2.54	2.56	2.57	2.59	2.63	2.65	1.5%
Steam Coal	2.24	2.41	2.45	2.49	2.40	2.40	2.41	2.40	2.37	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.33	2.33	2.33	2.33	0.2%
Nuclear Power	0.66	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.65	0.59	0.54	0.54	0.52	0.47	0.47	-1.5%
Renewable Energy 15/	0.08	0.08	0.10	0.11	0.11	0.13	0.13	0.15	0.16	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	4.2%
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.8%
Total	4.88	5.05	5.03	5.06	5.08	5.12	5.18	5.26	5.32	5.37	5.38	5.44	5.48	5.52	5.57	5.60	5.65	5.62	5.63	5.63	5.63	5.64	0.7%

**Table 7. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
07 - West South Central**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	1.03	1.07	1.08	1.11	1.13	1.15	1.17	1.19	1.20	1.21	1.22	1.23	1.24	1.26	1.27	1.29	1.30	1.31	1.32	1.34	1.35	1.36	1.3%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Jet Fuel 8/	0.79	0.84	0.86	0.89	0.93	0.96	1.00	1.03	1.07	1.10	1.13	1.17	1.20	1.24	1.27	1.32	1.35	1.39	1.43	1.47	1.51	1.54	3.1%
Liquefied Petroleum Gas	1.69	1.79	1.81	1.83	1.85	1.86	1.87	1.88	1.90	1.93	1.95	1.97	1.98	2.01	2.04	2.06	2.08	2.09	2.11	2.13	2.15	2.17	1.1%
Motor Gasoline 2/	1.93	2.01	2.06	2.10	2.13	2.17	2.22	2.26	2.30	2.34	2.38	2.42	2.45	2.48	2.52	2.55	2.59	2.62	2.65	2.68	2.71	2.74	1.6%
Petrochemical Feedstocks	0.71	0.66	0.67	0.69	0.71	0.73	0.75	0.77	0.78	0.79	0.80	0.81	0.81	0.82	0.84	0.85	0.85	0.86	0.87	0.87	0.88	0.89	1.1%
Residual Fuel	0.23	0.24	0.25	0.26	0.26	0.27	0.28	0.29	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	2.6%
Other Petroleum 12/	1.28	1.36	1.39	1.40	1.39	1.41	1.43	1.45	1.48	1.48	1.48	1.49	1.49	1.50	1.50	1.51	1.52	1.53	1.53	1.53	1.54	1.54	0.8%
Petroleum Subtotal	7.67	7.98	8.13	8.26	8.41	8.57	8.72	8.87	9.03	9.15	9.27	9.41	9.51	9.64	9.77	9.92	10.06	10.17	10.29	10.40	10.53	10.65	1.5%
Natural Gas	6.88	6.81	6.70	6.73	6.94	7.06	7.21	7.36	7.52	7.65	7.68	7.82	7.89	7.98	8.08	8.21	8.37	8.42	8.47	8.52	8.60	8.64	1.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	2.34	2.51	2.54	2.58	2.50	2.50	2.51	2.50	2.46	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.43	2.43	2.43	2.43	2.43	0.2%
Net Coal Coke Imports	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.0%
Coal Subtotal	2.35	2.52	2.56	2.60	2.52	2.52	2.52	2.52	2.49	2.44	2.44	2.44	2.45	2.45	2.45	2.45	2.45	2.45	2.46	2.46	2.46	2.46	0.2%
Nuclear Power	0.66	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.65	0.59	0.54	0.54	0.52	0.47	0.47	-1.5%
Renewable Energy 17/	0.31	0.33	0.35	0.37	0.38	0.39	0.41	0.43	0.44	0.46	0.47	0.47	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.51	0.52	0.52	2.4%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	14.5%
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	N/A
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.8%
<b>Total</b>	<b>17.87</b>	<b>18.30</b>	<b>18.42</b>	<b>18.64</b>	<b>18.93</b>	<b>19.23</b>	<b>19.55</b>	<b>19.87</b>	<b>20.16</b>	<b>20.40</b>	<b>20.56</b>	<b>20.84</b>	<b>21.03</b>	<b>21.25</b>	<b>21.49</b>	<b>21.74</b>	<b>21.99</b>	<b>22.11</b>	<b>22.28</b>	<b>22.43</b>	<b>22.59</b>	<b>22.77</b>	<b>1.1%</b>
<b>Energy Use &amp; Related Statistics</b>																							
Delivered Energy Use	14.51	14.84	15.01	15.23	15.52	15.81	16.10	16.38	16.63	16.85	17.04	17.28	17.45	17.66	17.88	18.13	18.37	18.54	18.71	18.88	19.07	19.25	1.3%
Total Energy Use	17.87	18.30	18.42	18.64	18.93	19.23	19.55	19.87	20.16	20.40	20.56	20.84	21.03	21.25	21.49	21.74	21.99	22.11	22.28	22.43	22.59	22.77	1.1%
Population (millions)	30.05	30.77	31.13	31.49	31.84	32.19	32.55	32.90	33.26	33.63	34.01	34.40	34.80	35.21	35.61	36.00	36.39	36.78	37.18	37.56	37.95	38.32	1.1%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values

of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 8. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**08 - Mountain**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.1%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%
Liquefied Petroleum Gas	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.5%
Petroleum Subtotal	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.2%
Natural Gas	0.26	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.38	1.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.1%
Renewable Energy 1/	0.03	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.7%
Electricity	0.21	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	2.0%
Delivered Energy	0.54	0.59	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.69	0.69	0.70	0.71	0.72	0.72	0.73	0.74	0.75	0.75	0.76	0.77	0.78	1.7%
Electricity Related Losses	0.75	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.83	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.86	0.87	0.88	0.89	0.91	0.9%
Total	1.29	1.39	1.41	1.43	1.44	1.45	1.47	1.48	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.59	1.60	1.62	1.64	1.66	1.69	1.2%
Commercial																							
Distillate Fuel	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.5%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	1.6%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.6%
Natural Gas	0.21	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.29	0.29	1.5%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.8%
Renewable Energy 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Electricity	0.24	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	1.9%
Delivered Energy	0.49	0.52	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.67	0.67	0.68	0.68	0.69	0.70	1.7%
Electricity Related Losses	0.86	0.92	0.93	0.94	0.94	0.93	0.94	0.94	0.95	0.95	0.96	0.96	0.97	0.97	0.97	0.98	0.98	0.99	0.99	1.00	1.02	1.03	0.8%
Total	1.35	1.44	1.47	1.49	1.49	1.49	1.51	1.52	1.55	1.56	1.57	1.58	1.60	1.61	1.63	1.64	1.65	1.66	1.67	1.69	1.71	1.72	1.1%
Industrial 4/																							
Distillate Fuel	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	1.5%
Liquefied Petroleum Gas	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	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	1.1%
Petrochemical Feedstocks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Motor Gasoline 2/	0.02	0.02	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	1.6%
Other Petroleum 5/	0.22	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.9%
Petroleum Subtotal	0.41	0.41	0.41	0.42	0.43	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.52	0.53	1.1%
Natural Gas 6/	0.44	0.46	0.47	0.47	0.49	0.49	0.50	0.51	0.52	0.52	0.53	0.53	0.54	0.55	0.56	0.57	0.59	0.60	0.61	0.62	0.63	0.64	1.7%
Metallurgical 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.6%
Steam Coal	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	1.0%
Net Coal Coke 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	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.5%
Coal Subtotal	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.7%
Renewable Energy 7/	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1.0%
Electricity	0.24	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.33	1.4%
Delivered Energy	1.29	1.31	1.32	1.35	1.37	1.40	1.42	1.44	1.46	1.48	1.49	1.51	1.52	1.54	1.57	1.60	1.63	1.65	1.67	1.69	1.71	1.73	1.4%
Electricity Related Losses	0.85	0.85	0.84	0.85	0.85	0.84	0.84	0.84	0.85	0.85	0.84	0.84	0.84	0.84	0.85	0.86	0.87	0.87	0.88	0.89	0.90	0.92	0.3%
Total	2.14	2.16	2.16	2.19	2.22	2.23	2.26	2.28	2.31	2.32	2.33	2.34	2.36	2.38	2.42	2.45	2.49	2.51	2.55	2.58	2.62	2.65	1.0%

**Table 8. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**08 - Mountain**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.41	0.43	0.44	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.62	1.9%
Jet Fuel 8/	0.19	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.38	0.39	0.40	3.4%
Motor Gasoline 2/	1.00	1.06	1.10	1.14	1.17	1.21	1.25	1.28	1.31	1.34	1.38	1.41	1.43	1.45	1.48	1.51	1.54	1.57	1.60	1.64	1.68	1.72	2.5%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.6%
Other Petroleum 9/	0.02	0.02	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	1.9%
Petroleum Subtotal	1.62	1.73	1.79	1.85	1.91	1.97	2.02	2.08	2.13	2.17	2.22	2.26	2.30	2.34	2.38	2.43	2.49	2.54	2.59	2.65	2.71	2.78	2.5%
Pipeline Fuel Natural Gas	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	1.6%
Compressed Natural Gas	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	14.5%
Renewables (E85) 10/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.7%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.6%
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	N/A
Electricity	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.3%
Delivered Energy	1.74	1.86	1.93	2.00	2.06	2.12	2.18	2.24	2.29	2.34	2.39	2.44	2.48	2.52	2.57	2.62	2.68	2.74	2.80	2.86	2.93	3.01	2.5%
Electricity Related Losses	0.01	0.02	0.02	0.02	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	0.03	0.03	0.03	0.04	0.04	4.1%
Total	1.76	1.88	1.94	2.01	2.08	2.14	2.20	2.26	2.31	2.36	2.41	2.46	2.50	2.54	2.59	2.65	2.71	2.77	2.83	2.90	2.97	3.04	2.5%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	0.56	0.59	0.60	0.62	0.64	0.65	0.67	0.68	0.69	0.70	0.70	0.71	0.71	0.72	0.73	0.75	0.76	0.77	0.78	0.79	0.81	0.82	1.8%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7%
Jet Fuel 8/	0.19	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.38	0.39	0.40	3.4%
Liquefied Petroleum Gas	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.3%
Motor Gasoline 2/	1.02	1.08	1.13	1.17	1.20	1.24	1.27	1.31	1.34	1.37	1.40	1.43	1.46	1.48	1.51	1.54	1.57	1.60	1.64	1.67	1.71	1.75	2.5%
Petrochemical Feedstocks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1%
Other Petroleum 12/	0.24	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.30	1.0%
Petroleum Subtotal	2.09	2.19	2.26	2.33	2.40	2.47	2.53	2.59	2.64	2.69	2.74	2.79	2.83	2.87	2.92	2.99	3.05	3.10	3.16	3.22	3.29	3.37	2.2%
Natural Gas 6/	1.03	1.11	1.13	1.15	1.17	1.19	1.21	1.23	1.25	1.26	1.28	1.30	1.31	1.33	1.35	1.37	1.40	1.42	1.44	1.46	1.48	1.50	1.7%
Metallurgical 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.6%
Steam Coal	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.0%
Net Coal Coke 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	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	9.5%
Coal Subtotal	0.12	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.7%
Renewable Energy 13/	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	1.1%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.6%
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	N/A
Electricity	0.70	0.73	0.75	0.77	0.78	0.80	0.82	0.84	0.85	0.87	0.88	0.90	0.91	0.93	0.94	0.95	0.97	0.98	0.99	1.01	1.02	1.03	1.8%
Delivered Energy	4.06	4.29	4.40	4.51	4.62	4.73	4.83	4.93	5.02	5.11	5.19	5.28	5.34	5.42	5.51	5.61	5.71	5.80	5.90	6.00	6.10	6.21	2.0%
Electricity Related Losses	2.48	2.58	2.60	2.62	2.61	2.59	2.61	2.61	2.65	2.65	2.64	2.64	2.66	2.67	2.69	2.70	2.73	2.74	2.77	2.81	2.85	2.89	0.7%
Total	6.54	6.87	6.99	7.13	7.23	7.32	7.44	7.54	7.67	7.76	7.83	7.92	8.00	8.09	8.19	8.31	8.44	8.55	8.67	8.81	8.95	9.10	1.5%
Electric Generators 14/																							
Distillate Fuel	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-24.0%
Petroleum Subtotal	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Natural Gas	0.17	0.32	0.31	0.31	0.29	0.25	0.26	0.25	0.27	0.25	0.24	0.23	0.23	0.24	0.24	0.24	0.23	0.22	0.22	0.22	0.21	0.21	1.0%
Steam Coal	2.23	2.22	2.25	2.29	2.33	2.37	2.41	2.43	2.46	2.49	2.51	2.53	2.55	2.58	2.60	2.64	2.68	2.71	2.75	2.81	2.86	2.92	1.2%
Nuclear Power	0.28	0.29	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	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.3%
Renewable Energy 15/	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.48	0.48	0.48	0.48	0.47	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.0%
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.8%
Total	3.17	3.31	3.35	3.38	3.40	3.40	3.44	3.45	3.50	3.52	3.53	3.54	3.57	3.59	3.63	3.66	3.70	3.72	3.76	3.82	3.87	3.92	1.0%



**Table 8. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
08 - Mountain**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Total Energy Consumption																							
Distillate Fuel	0.56	0.59	0.61	0.63	0.64	0.66	0.67	0.68	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.80	0.81	0.82	1.8%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7%
Jet Fuel 8/	0.19	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.38	0.39	0.40	3.4%
Liquefied Petroleum Gas	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.3%
Motor Gasoline 2/	1.02	1.08	1.13	1.17	1.20	1.24	1.27	1.31	1.34	1.37	1.40	1.43	1.46	1.48	1.51	1.54	1.57	1.60	1.64	1.67	1.71	1.75	2.5%
Petrochemical Feedstocks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.1%
Other Petroleum 12/	0.24	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.30	1.0%
Petroleum Subtotal	2.09	2.20	2.27	2.34	2.40	2.47	2.53	2.59	2.65	2.70	2.75	2.80	2.83	2.88	2.93	2.99	3.05	3.11	3.16	3.23	3.30	3.37	2.2%
Natural Gas	1.20	1.43	1.44	1.46	1.46	1.44	1.47	1.48	1.51	1.52	1.52	1.53	1.54	1.57	1.59	1.61	1.62	1.64	1.66	1.68	1.69	1.72	1.6%
Metallurgical 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.6%
Steam Coal	2.33	2.32	2.36	2.40	2.44	2.48	2.52	2.54	2.57	2.60	2.62	2.65	2.67	2.69	2.72	2.76	2.80	2.83	2.87	2.93	2.98	3.04	1.2%
Net Coal Coke 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	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	9.5%
Coal Subtotal	2.35	2.35	2.38	2.42	2.46	2.51	2.54	2.57	2.60	2.63	2.65	2.67	2.69	2.72	2.75	2.78	2.83	2.86	2.90	2.95	3.01	3.07	1.2%
Nuclear Power	0.28	0.29	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	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.3%
Renewable Energy 17/	0.61	0.60	0.61	0.61	0.61	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.2%
Methanol (M85) 11/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.6%
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	N/A
Electricity Imports 16/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.8%
Total	6.54	6.87	6.99	7.13	7.23	7.32	7.44	7.54	7.67	7.76	7.83	7.92	8.00	8.09	8.19	8.31	8.44	8.55	8.67	8.81	8.95	9.10	1.5%
Energy Use & Related Statistics																							
Delivered Energy Use	4.06	4.29	4.40	4.51	4.62	4.73	4.83	4.93	5.02	5.11	5.19	5.28	5.34	5.42	5.51	5.61	5.71	5.80	5.90	6.00	6.10	6.21	2.0%
Total Energy Use	6.54	6.87	6.99	7.13	7.23	7.32	7.44	7.54	7.67	7.76	7.83	7.92	8.00	8.09	8.19	8.31	8.44	8.55	8.67	8.81	8.95	9.10	1.5%
Population (millions)	16.86	17.62	18.05	18.42	18.80	19.15	19.49	19.82	20.14	20.47	20.79	21.11	21.41	21.71	22.03	22.38	22.77	23.18	23.60	24.06	24.55	25.07	1.8%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 9. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**09 - Pacific**

1998 -

1998 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.1%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Liquefied Petroleum Gas	0.03	0.03	0.03	0.03	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	0.05	0.05	0.05	0.05	0.05	3.1%
Petroleum Subtotal	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	1.7%
Natural Gas	0.57	0.60	0.61	0.62	0.63	0.65	0.66	0.68	0.69	0.71	0.73	0.75	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.83	1.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3%
Renewable Energy 1/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	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	0.5%
Electricity	0.46	0.48	0.48	0.49	0.49	0.50	0.51	0.51	0.52	0.53	0.53	0.54	0.55	0.55	0.56	0.56	0.57	0.58	0.58	0.59	0.60	0.61	1.3%
Delivered Energy	1.16	1.21	1.23	1.25	1.27	1.29	1.31	1.34	1.36	1.39	1.41	1.44	1.46	1.48	1.49	1.51	1.52	1.54	1.56	1.57	1.59	1.61	1.5%
Electricity Related Losses	0.75	0.81	0.80	0.83	0.83	0.79	0.79	0.81	0.80	0.82	0.84	0.84	0.86	0.88	0.88	0.89	0.90	0.90	0.93	0.94	0.93	0.94	1.0%
Total	1.91	2.02	2.03	2.08	2.10	2.09	2.11	2.15	2.16	2.21	2.26	2.29	2.32	2.35	2.36	2.40	2.43	2.44	2.49	2.51	2.52	2.55	1.3%
Commercial																							
Distillate Fuel	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.1%
Residual Fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0%
Motor Gasoline 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.3%
Petroleum Subtotal	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.2%
Natural Gas	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.8%
Renewable Energy 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Electricity	0.48	0.52	0.53	0.54	0.55	0.55	0.56	0.57	0.58	0.59	0.60	0.60	0.61	0.62	0.62	0.63	0.63	0.64	0.64	0.64	0.64	0.65	1.3%
Delivered Energy	0.86	0.89	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.07	1.07	1.07	1.08	1.0%
Electricity Related Losses	0.80	0.87	0.87	0.92	0.92	0.88	0.88	0.90	0.89	0.92	0.94	0.94	0.96	0.98	0.98	0.99	1.00	0.99	1.02	1.02	1.01	1.01	1.1%
Total	1.65	1.77	1.78	1.84	1.85	1.81	1.83	1.86	1.87	1.90	1.94	1.95	1.98	2.01	2.01	2.04	2.06	2.05	2.09	2.09	2.08	2.08	1.1%
Industrial 4/																							
Distillate Fuel	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	1.4%
Liquefied Petroleum Gas	0.03	0.03	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%
Petrochemical Feedstocks	0.03	0.03	0.03	0.03	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	0.04	0.04	0.04	0.04	0.04	1.1%
Residual Fuel	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	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	1.3%
Motor Gasoline 2/	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.6%
Other Petroleum 5/	0.70	0.75	0.75	0.74	0.75	0.74	0.74	0.74	0.74	0.74	0.73	0.74	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.77	0.77	0.78	0.5%
Petroleum Subtotal	0.89	0.92	0.93	0.92	0.92	0.93	0.93	0.94	0.94	0.97	0.97	0.97	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.04	0.7%
Natural Gas 6/	1.29	1.25	1.26	1.27	1.29	1.31	1.33	1.35	1.37	1.38	1.39	1.40	1.41	1.43	1.44	1.46	1.48	1.49	1.51	1.52	1.53	1.54	0.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	0.06	0.06	0.06	0.06	0.06	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	0.07	0.07	0.07	0.07	1.0%
Net Coal Coke 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	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.5%
Coal Subtotal	0.06	0.06	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	0.07	0.08	0.08	0.08	0.08	0.08	0.08	1.3%
Renewable Energy 7/	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.39	0.40	0.40	0.9%
Electricity	0.39	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.49	0.50	0.51	0.51	0.52	0.52	0.53	0.54	1.5%
Delivered Energy	2.96	2.97	2.99	3.02	3.05	3.09	3.13	3.17	3.19	3.24	3.26	3.29	3.31	3.35	3.38	3.42	3.46	3.48	3.51	3.54	3.57	3.60	0.9%
Electricity Related Losses	0.64	0.68	0.67	0.71	0.72	0.69	0.69	0.70	0.70	0.72	0.74	0.73	0.75	0.77	0.77	0.79	0.80	0.79	0.82	0.83	0.83	0.84	1.2%
Total	3.60	3.64	3.67	3.73	3.77	3.78	3.82	3.88	3.90	3.96	3.99	4.02	4.06	4.11	4.15	4.21	4.26	4.27	4.34	4.37	4.40	4.44	1.0%

**Table 9. Energy Consumption by Sector and Source (2 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	0.55	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.71	0.72	0.72	0.73	0.73	1.3%
Jet Fuel 8/	0.93	0.98	1.01	1.04	1.07	1.12	1.15	1.20	1.24	1.28	1.32	1.37	1.41	1.45	1.50	1.55	1.60	1.64	1.68	1.72	1.76	1.80	3.0%
Motor Gasoline 2/	2.34	2.42	2.46	2.50	2.52	2.57	2.61	2.65	2.69	2.73	2.77	2.81	2.84	2.88	2.91	2.95	2.99	3.02	3.05	3.08	3.11	3.15	1.4%
Residual Fuel	0.26	0.28	0.29	0.29	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	2.9%
Liquefied Petroleum Gas	0.01	0.01	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.5%
Other Petroleum 9/	0.05	0.05	0.05	0.05	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	0.06	0.06	0.06	0.06	0.06	1.0%
Petroleum Subtotal	4.14	4.31	4.39	4.48	4.56	4.67	4.77	4.88	4.98	5.09	5.19	5.30	5.39	5.48	5.59	5.71	5.81	5.91	5.99	6.08	6.17	6.25	1.9%
Pipeline Fuel Natural Gas	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.1%
Compressed Natural Gas	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	12.9%
Renewables (E85) 10/	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	16.2%
Methanol (M85) 11/	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	14.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	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	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	4.3%
Delivered Energy	4.21	4.38	4.47	4.56	4.65	4.76	4.87	4.99	5.10	5.21	5.31	5.43	5.53	5.63	5.74	5.86	5.97	6.07	6.16	6.25	6.34	6.43	1.9%
Electricity Related Losses	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	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	4.1%
Total	4.23	4.40	4.49	4.58	4.67	4.79	4.89	5.01	5.12	5.24	5.34	5.46	5.56	5.66	5.77	5.90	6.01	6.11	6.20	6.29	6.38	6.47	2.0%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	0.69	0.70	0.71	0.72	0.73	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.88	0.89	0.89	1.2%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.2%
Jet Fuel 8/	0.93	0.98	1.01	1.04	1.07	1.12	1.15	1.20	1.24	1.28	1.32	1.37	1.41	1.45	1.50	1.55	1.60	1.64	1.68	1.72	1.76	1.80	3.0%
Liquefied Petroleum Gas	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	2.5%
Motor Gasoline 2/	2.36	2.44	2.49	2.53	2.55	2.60	2.64	2.68	2.72	2.76	2.80	2.84	2.88	2.91	2.94	2.98	3.02	3.05	3.08	3.12	3.15	3.18	1.4%
Petrochemical Feedstocks	0.03	0.03	0.03	0.03	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	0.04	0.04	0.04	0.04	0.04	1.1%
Residual Fuel	0.29	0.28	0.29	0.30	0.31	0.32	0.33	0.35	0.36	0.39	0.40	0.41	0.42	0.44	0.45	0.46	0.47	0.49	0.50	0.51	0.52	0.53	2.8%
Other Petroleum 12/	0.75	0.80	0.80	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.83	0.84	0.5%
Petroleum Subtotal	5.12	5.31	5.41	5.49	5.58	5.69	5.80	5.92	6.02	6.15	6.26	6.37	6.48	6.58	6.69	6.82	6.93	7.03	7.12	7.21	7.31	7.40	1.7%
Natural Gas 6/	2.25	2.24	2.26	2.30	2.33	2.37	2.41	2.45	2.49	2.53	2.56	2.60	2.63	2.66	2.69	2.72	2.76	2.79	2.81	2.84	2.86	2.88	1.1%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.07	0.07	0.07	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	0.09	0.09	0.09	0.09	0.09	0.9%
Net Coal Coke 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	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	9.5%
Coal Subtotal	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.2%
Renewable Energy 13/	0.40	0.41	0.41	0.42	0.43	0.43	0.44	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.50	1.0%
Methanol (M85) 11/	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	14.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.34	1.41	1.43	1.46	1.48	1.50	1.53	1.55	1.57	1.60	1.61	1.64	1.65	1.67	1.69	1.71	1.73	1.75	1.77	1.78	1.80	1.81	1.4%
Delivered Energy	9.18	9.46	9.60	9.75	9.90	10.09	10.26	10.46	10.63	10.82	10.98	11.17	11.32	11.48	11.65	11.83	12.01	12.16	12.29	12.44	12.57	12.71	1.5%
Electricity Related Losses	2.21	2.37	2.37	2.48	2.50	2.38	2.39	2.43	2.42	2.48	2.55	2.55	2.60	2.65	2.66	2.71	2.75	2.72	2.82	2.83	2.81	2.83	1.1%
Total	11.39	11.83	11.97	12.23	12.40	12.47	12.65	12.89	13.05	13.31	13.53	13.71	13.92	14.13	14.30	14.55	14.76	14.88	15.11	15.26	15.39	15.54	1.4%
Electric Generators 14/																							
Distillate Fuel	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.5%
Residual Fuel	0.10	0.06	0.06	0.06	0.06	0.06	0.06	0.06	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	0.06	-2.2%
Petroleum Subtotal	0.12	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-2.2%
Natural Gas	0.44	0.82	0.81	0.82	0.88	0.87	0.88	0.94	0.98	1.03	1.08	1.13	1.18	1.23	1.26	1.30	1.32	1.34	1.36	1.34	1.34	1.35	5.2%
Steam Coal	0.19	0.15	0.16	0.17	0.18	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	0.19	0.19	0.19	0.19	-0.2%
Nuclear Power	0.42	0.42	0.42	0.42	0.42	0.42	0.42	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	0.43	0.43	0.2%
Renewable Energy 15/	2.35	2.30	2.31	2.42	2.38	2.29	2.31	2.32	2.30	2.34	2.38	2.34	2.38	2.40	2.38	2.42	2.45	2.43	2.52	2.56	2.56	2.59	0.4%
Electricity Imports 16/	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.8%
Total	3.55	3.79	3.80	3.94	3.98	3.88	3.91	3.98	4.00	4.08	4.16	4.18	4.26	4.33	4.35	4.43	4.48	4.47	4.58	4.61	4.61	4.65	1.2%

**Table 9. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Total Energy Consumption																							
Distillate Fuel	0.70	0.71	0.72	0.73	0.74	0.75	0.77	0.78	0.79	0.80	0.81	0.82	0.82	0.83	0.85	0.86	0.87	0.88	0.89	0.89	0.90	0.90	1.2%
Kerosene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.2%
Jet Fuel 8/	0.93	0.98	1.01	1.04	1.07	1.12	1.15	1.20	1.24	1.28	1.32	1.37	1.41	1.45	1.50	1.55	1.60	1.64	1.68	1.72	1.76	1.80	3.0%
Liquefied Petroleum Gas	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	2.5%
Motor Gasoline 2/	2.36	2.44	2.49	2.53	2.55	2.60	2.64	2.68	2.72	2.76	2.80	2.84	2.88	2.91	2.94	2.98	3.02	3.05	3.08	3.12	3.15	3.18	1.4%
Petrochemical Feedstocks	0.03	0.03	0.03	0.03	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	0.04	0.04	0.04	0.04	0.04	1.1%
Residual Fuel	0.39	0.34	0.35	0.35	0.36	0.38	0.39	0.41	0.41	0.44	0.46	0.47	0.48	0.49	0.51	0.52	0.53	0.54	0.56	0.57	0.58	0.59	1.9%
Other Petroleum 12/	0.75	0.80	0.80	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.83	0.84	0.5%
Petroleum Subtotal	5.23	5.37	5.48	5.56	5.64	5.76	5.86	5.99	6.08	6.22	6.32	6.44	6.54	6.65	6.76	6.88	7.00	7.09	7.19	7.28	7.38	7.47	1.6%
Natural Gas	2.69	3.06	3.07	3.12	3.22	3.25	3.30	3.39	3.47	3.56	3.64	3.73	3.80	3.88	3.95	4.02	4.08	4.12	4.17	4.18	4.20	4.23	2.1%
Metallurgical Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.27	0.22	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.1%
Net Coal Coke 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	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	9.5%
Coal Subtotal	0.27	0.22	0.23	0.24	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.2%
Nuclear Power	0.42	0.42	0.42	0.42	0.42	0.42	0.42	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	0.43	0.43	0.2%
Renewable Energy 17/	2.76	2.71	2.73	2.84	2.81	2.72	2.75	2.76	2.75	2.79	2.83	2.80	2.83	2.86	2.85	2.90	2.93	2.91	3.01	3.05	3.05	3.09	0.5%
Methanol (M85) 11/	0.00	0.00	0.00	0.01	0.01	0.01	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	0.02	0.02	0.02	14.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Imports 16/	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.8%
Total	11.39	11.83	11.97	12.23	12.40	12.47	12.65	12.89	13.05	13.31	13.53	13.71	13.92	14.13	14.30	14.55	14.76	14.88	15.11	15.26	15.39	15.54	1.4%
Energy Use & Related Statistics																							
Delivered Energy Use	9.18	9.46	9.60	9.75	9.90	10.09	10.26	10.46	10.63	10.82	10.98	11.17	11.32	11.48	11.65	11.83	12.01	12.16	12.29	12.44	12.57	12.71	1.5%
Total Energy Use	11.39	11.83	11.97	12.23	12.40	12.47	12.65	12.89	13.05	13.31	13.53	13.71	13.92	14.13	14.30	14.55	14.76	14.88	15.11	15.26	15.39	15.54	1.4%
Population (millions)	43.51	44.50	44.93	45.36	45.80	46.26	46.74	47.24	47.75	48.27	48.81	49.36	49.92	50.49	51.07	51.65	52.23	52.81	53.37	53.92	54.45	54.97	1.1%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis.(mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values

of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 10. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**United States Total**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Energy Consumption</b>																							
<b>Residential</b>																							
Distillate Fuel	0.84	0.85	0.83	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.69	0.68	0.67	0.66	0.66	0.65	-1.2%
Kerosene	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	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-0.9%
Liquefied Petroleum Gas	0.41	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.0%
Petroleum Subtotal	1.36	1.37	1.36	1.35	1.34	1.33	1.31	1.30	1.29	1.28	1.26	1.25	1.24	1.23	1.22	1.21	1.19	1.19	1.17	1.16	1.15	1.15	-0.8%
Natural Gas	4.61	5.04	5.07	5.11	5.14	5.20	5.22	5.26	5.31	5.37	5.40	5.46	5.49	5.54	5.57	5.61	5.65	5.70	5.72	5.76	5.81	5.86	1.1%
Coal	0.06	0.06	0.06	0.06	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	0.05	0.05	0.05	0.05	0.05	-0.4%
Renewable Energy 1/	0.38	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.8%
Electricity	3.83	4.04	4.10	4.17	4.23	4.31	4.37	4.43	4.50	4.58	4.64	4.70	4.76	4.83	4.88	4.94	5.00	5.07	5.11	5.16	5.22	5.30	1.5%
Delivered Energy	10.24	10.95	11.02	11.12	11.21	11.33	11.40	11.49	11.58	11.72	11.80	11.91	11.99	12.11	12.16	12.25	12.34	12.45	12.51	12.59	12.69	12.81	1.0%
Electricity Related Losses	8.53	8.94	9.07	9.21	9.32	9.36	9.42	9.50	9.56	9.66	9.73	9.76	9.80	9.86	9.87	9.91	9.96	9.98	10.02	10.05	10.10	10.18	0.8%
Total	18.77	19.89	20.09	20.33	20.53	20.69	20.82	20.99	21.14	21.38	21.53	21.66	21.79	21.96	22.03	22.16	22.30	22.44	22.52	22.64	22.78	22.99	0.9%
<b>Commercial</b>																							
Distillate Fuel	0.38	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	-0.2%
Residual Fuel	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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.1%
Liquefied Petroleum Gas	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.9%
Motor Gasoline 2/	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.3%
Petroleum Subtotal	0.61	0.61	0.61	0.61	0.61	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	0.61	0.61	0.61	0.60	-0.1%
Natural Gas	3.11	3.30	3.33	3.36	3.38	3.41	3.43	3.46	3.48	3.51	3.55	3.58	3.62	3.64	3.67	3.69	3.71	3.73	3.74	3.75	3.76	3.75	0.9%
Coal	0.09	0.09	0.09	0.09	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	0.10	0.10	0.10	0.10	0.10	0.9%
Renewable Energy 3/	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Electricity	3.56	3.74	3.81	3.88	3.93	3.99	4.06	4.11	4.17	4.24	4.31	4.36	4.42	4.48	4.52	4.56	4.58	4.61	4.63	4.65	4.67	4.68	1.2%
Delivered Energy	7.46	7.81	7.93	8.02	8.10	8.19	8.28	8.36	8.45	8.55	8.65	8.74	8.84	8.92	8.99	9.05	9.10	9.14	9.17	9.19	9.21	9.22	1.0%
Electricity Related Losses	7.93	8.27	8.42	8.56	8.66	8.66	8.75	8.81	8.87	8.95	9.03	9.04	9.10	9.13	9.15	9.15	9.14	9.09	9.09	9.05	9.02	8.98	0.6%
Total	15.38	16.09	16.35	16.59	16.76	16.84	17.03	17.17	17.32	17.49	17.68	17.78	17.94	18.05	18.14	18.20	18.24	18.23	18.26	18.24	18.23	18.20	0.8%
<b>Industrial 4/</b>																							
Distillate Fuel	1.08	1.09	1.11	1.13	1.16	1.19	1.21	1.24	1.25	1.27	1.28	1.29	1.30	1.32	1.34	1.36	1.38	1.39	1.41	1.42	1.44	1.46	1.3%
Liquefied Petroleum Gas	2.06	2.18	2.20	2.22	2.24	2.26	2.27	2.28	2.31	2.35	2.37	2.40	2.41	2.44	2.47	2.50	2.53	2.54	2.57	2.58	2.61	2.64	1.1%
Petrochemical Feedstocks	1.39	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.69	1.70	1.72	1.73	1.0%
Residual Fuel	0.27	0.23	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.28	0.28	0.29	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.7%
Motor Gasoline 2/	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	1.4%
Other Petroleum 5/	4.11	4.45	4.51	4.52	4.52	4.56	4.61	4.63	4.68	4.69	4.70	4.72	4.75	4.78	4.81	4.85	4.91	4.91	4.95	4.95	4.98	5.03	0.9%
Petroleum Subtotal	9.12	9.47	9.60	9.68	9.78	9.92	10.05	10.16	10.28	10.37	10.44	10.53	10.59	10.69	10.79	10.91	11.04	11.08	11.18	11.23	11.33	11.45	1.0%
Natural Gas 6/	9.75	9.61	9.61	9.73	9.97	10.16	10.36	10.56	10.67	10.77	10.84	10.96	11.02	11.13	11.26	11.39	11.53	11.60	11.70	11.80	11.90	11.99	0.9%
Metallurgical Coal	0.76	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	-1.6%
Steam Coal	1.54	1.54	1.54	1.54	1.55	1.57	1.58	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.60	1.61	1.61	1.61	1.62	1.62	1.63	0.3%
Net Coal Coke Imports	0.07	0.10	0.11	0.12	0.14	0.16	0.17	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	6.6%
Coal Subtotal	2.36	2.37	2.37	2.38	2.40	2.42	2.43	2.43	2.44	2.43	2.42	2.42	2.41	2.41	2.42	2.42	2.42	2.42	2.42	2.42	2.43	2.43	0.1%
Renewable Energy 7/	2.08	2.14	2.17	2.20	2.24	2.27	2.30	2.32	2.34	2.36	2.38	2.40	2.42	2.44	2.46	2.50	2.53	2.54	2.56	2.58	2.61	2.63	1.1%
Electricity	3.57	3.61	3.62	3.69	3.78	3.84	3.92	3.97	4.03	4.08	4.11	4.15	4.19	4.24	4.31	4.38	4.45	4.48	4.53	4.58	4.64	4.70	1.3%
Delivered Energy	26.89	27.20	27.37	27.68	28.16	28.60	29.06	29.44	29.76	30.02	30.19	30.46	30.63	30.92	31.24	31.60	31.96	32.14	32.39	32.61	32.90	33.20	1.0%
Electricity Related Losses	7.95	7.99	8.01	8.14	8.31	8.34	8.45	8.51	8.57	8.61	8.61	8.61	8.62	8.65	8.72	8.78	8.87	8.84	8.90	8.93	8.97	9.03	0.6%
Total	34.84	35.19	35.38	35.82	36.47	36.94	37.51	37.95	38.33	38.63	38.80	39.08	39.25	39.57	39.96	40.39	40.83	40.97	41.29	41.54	41.88	42.23	0.9%

**Table 10. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**United States Total**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Transportation																							
Distillate Fuel	4.95	5.12	5.19	5.28	5.37	5.45	5.53	5.59	5.64	5.68	5.71	5.76	5.79	5.83	5.89	5.95	6.02	6.05	6.10	6.14	6.18	6.22	1.0%
Jet Fuel 8/	3.36	3.56	3.65	3.76	3.89	4.04	4.16	4.32	4.44	4.58	4.70	4.85	4.96	5.10	5.23	5.40	5.55	5.69	5.82	5.97	6.11	6.24	2.9%
Motor Gasoline 2/	15.59	16.18	16.52	16.83	17.07	17.40	17.69	18.00	18.30	18.57	18.85	19.12	19.34	19.55	19.78	20.05	20.30	20.50	20.70	20.91	21.12	21.35	1.4%
Residual Fuel	0.65	0.69	0.71	0.73	0.75	0.77	0.80	0.82	0.85	0.87	0.90	0.92	0.95	0.97	1.00	1.02	1.05	1.07	1.10	1.12	1.15	1.18	2.7%
Liquefied Petroleum Gas	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	5.0%
Other Petroleum 9/	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.9%
Petroleum Subtotal	24.89	25.91	26.45	26.98	27.47	28.06	28.59	29.14	29.65	30.14	30.60	31.10	31.49	31.91	32.37	32.90	33.39	33.81	34.20	34.64	35.05	35.49	1.6%
Pipeline Fuel Natural Gas	0.75	0.77	0.75	0.75	0.75	0.75	0.77	0.79	0.81	0.83	0.84	0.87	0.88	0.90	0.91	0.93	0.95	0.96	0.97	0.98	0.98	0.99	1.3%
Compressed Natural Gas	0.02	0.05	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.20	0.22	0.23	0.24	0.25	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	13.0%
Renewables (E85) 10/	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	16.3%
Methanol (M85) 11/	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	14.3%
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	N/A
Electricity	0.07	0.07	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	4.2%
Delivered Energy	25.74	26.83	27.38	27.96	28.49	29.12	29.71	30.31	30.88	31.42	31.92	32.48	32.92	33.37	33.87	34.45	34.99	35.43	35.86	36.32	36.75	37.20	1.7%
Electricity Related Losses	0.15	0.16	0.16	0.16	0.18	0.19	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.27	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32	3.5%
Total	25.89	26.99	27.54	28.12	28.67	29.32	29.92	30.53	31.11	31.66	32.17	32.74	33.18	33.65	34.15	34.74	35.28	35.73	36.17	36.63	37.07	37.53	1.7%
Delivered Energy Consumption All Sectors																							
Distillate Fuel	7.25	7.43	7.51	7.61	7.71	7.82	7.91	7.98	8.03	8.08	8.10	8.16	8.19	8.24	8.30	8.38	8.45	8.49	8.54	8.58	8.63	8.68	0.8%
Kerosene	0.16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.7%
Jet Fuel 8/	3.36	3.56	3.65	3.76	3.89	4.04	4.16	4.32	4.44	4.58	4.70	4.85	4.96	5.10	5.23	5.40	5.55	5.69	5.82	5.97	6.11	6.24	2.9%
Liquefied Petroleum Gas	2.59	2.74	2.78	2.80	2.84	2.86	2.88	2.89	2.93	2.97	2.99	3.03	3.04	3.07	3.10	3.13	3.16	3.18	3.20	3.22	3.24	3.27	1.1%
Motor Gasoline 2/	15.82	16.42	16.77	17.08	17.32	17.65	17.95	18.26	18.57	18.84	19.12	19.39	19.62	19.83	20.07	20.33	20.59	20.79	20.99	21.21	21.42	21.65	1.4%
Petrochemical Feedstocks	1.39	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.69	1.70	1.72	1.73	1.0%
Residual Fuel	1.02	1.02	1.05	1.07	1.09	1.12	1.15	1.19	1.21	1.26	1.29	1.31	1.34	1.36	1.39	1.42	1.45	1.48	1.50	1.53	1.56	1.59	2.0%
Other Petroleum 12/	4.39	4.74	4.80	4.81	4.81	4.86	4.91	4.94	4.99	5.00	5.01	5.04	5.07	5.10	5.13	5.18	5.24	5.25	5.29	5.29	5.33	5.38	0.9%
Petroleum Subtotal	35.98	37.35	38.02	38.63	39.20	39.92	40.57	41.22	41.84	42.42	42.92	43.50	43.94	44.45	45.00	45.64	46.24	46.69	47.17	47.64	48.14	48.69	1.4%
Natural Gas 6/	18.24	18.77	18.83	19.04	19.37	19.66	19.94	20.24	20.46	20.68	20.85	21.09	21.25	21.46	21.67	21.90	22.13	22.29	22.44	22.60	22.76	22.92	1.0%
Metallurgical Coal	0.76	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	-1.6%
Steam Coal	1.68	1.69	1.69	1.70	1.71	1.72	1.73	1.74	1.74	1.74	1.74	1.75	1.74	1.75	1.75	1.76	1.77	1.77	1.77	1.77	1.78	1.79	0.3%
Net Coal Coke Imports	0.07	0.10	0.11	0.12	0.14	0.16	0.17	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	6.6%
Coal Subtotal	2.50	2.53	2.53	2.53	2.55	2.57	2.59	2.59	2.59	2.59	2.58	2.58	2.57	2.57	2.57	2.58	2.58	2.58	2.58	2.58	2.58	2.59	0.2%
Renewable Energy 13/	2.55	2.66	2.69	2.73	2.77	2.81	2.84	2.87	2.90	2.93	2.95	2.98	3.00	3.03	3.05	3.09	3.12	3.15	3.17	3.19	3.22	3.24	1.1%
Methanol (M85) 11/	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	14.3%
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	N/A
Electricity	11.04	11.47	11.61	11.81	12.02	12.23	12.44	12.62	12.81	13.01	13.17	13.34	13.50	13.69	13.85	14.02	14.18	14.32	14.43	14.55	14.69	14.84	1.4%
Delivered Energy	70.32	72.79	73.71	74.78	75.96	77.24	78.46	79.61	80.68	81.71	82.56	83.59	84.38	85.32	86.27	87.35	88.38	89.16	89.93	90.71	91.55	92.44	1.3%
Electricity Related Losses	24.56	25.36	25.66	26.08	26.47	26.55	26.82	27.03	27.23	27.46	27.62	27.67	27.78	27.92	28.02	28.13	28.27	28.22	28.31	28.34	28.41	28.51	0.7%
Total	94.88	98.15	99.37	100.86	102.44	103.79	105.28	106.64	107.90	109.17	110.18	111.26	112.16	113.23	114.29	115.48	116.66	117.38	118.24	119.05	119.96	120.95	1.1%
Electric Generators 14/																							
Distillate Fuel	0.08	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	-2.4%
Residual Fuel	1.15	0.82	0.83	0.72	0.66	0.63	0.60	0.62	0.58	0.54	0.48	0.45	0.38	0.36	0.35	0.35	0.36	0.34	0.33	0.32	0.32	0.32	-5.6%
Petroleum Subtotal	1.23	0.88	0.88	0.77	0.71	0.67	0.64	0.66	0.62	0.57	0.52	0.48	0.41	0.40	0.39	0.39	0.41	0.39	0.37	0.37	0.37	0.37	-5.3%
Natural Gas	3.75	4.21	3.97	4.00	4.19	4.26	4.62	4.97	5.48	5.86	6.09	6.60	6.96	7.27	7.61	8.02	8.55	8.77	9.05	9.26	9.37	9.46	4.3%
Steam Coal	19.00	19.94	20.51	20.96	21.48	21.94	22.13	22.26	22.36	22.45	22.57	22.54	22.63	22.73	22.89	23.02	23.26	23.34	23.53	23.65	23.83	24.01	1.1%
Nuclear Power	7.19	7.35	7.37	7.38	7.37	7.27	7.20	7.01	6.88	6.86	6.87	6.70	6.53	6.46	6.26	5.97	5.45	5.23	4.89	4.67	4.58	4.56	-2.1%
Renewable Energy 15/	4.12	4.02	4.13	4.26	4.25	4.18	4.23	4.29	4.30	4.36	4.43	4.43	4.48	4.53	4.51	4.56	4.59	4.58	4.69	4.71	4.72	4.75	0.6%
Electricity Imports 16/	0.31	0.42	0.41	0.52	0.51	0.47	0.44	0.47	0.40	0.35	0.32	0.26	0.27	0.22	0.21	0.19	0.19	0.21	0.21	0.23	0.23	0.21	-1.8%
Total	35.60	36.82	37.27	37.89	38.50	38.78	39.27	39.65	40.03	40.46	40.79	41.00	41.29	41.61	41.87	42.15	42.45	42.53	42.74	42.89	43.10	43.35	0.9%

**Table 10. Energy Consumption by Sector and Source (3 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**  
**United States Total**

1998 -

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	7.32	7.49	7.56	7.66	7.76	7.86	7.95	8.01	8.07	8.12	8.13	8.19	8.22	8.27	8.34	8.42	8.50	8.53	8.58	8.63	8.68	8.73	0.8%
Kerosene	0.16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.7%
Jet Fuel 8/	3.36	3.56	3.65	3.76	3.89	4.04	4.16	4.32	4.44	4.58	4.70	4.85	4.96	5.10	5.23	5.40	5.55	5.69	5.82	5.97	6.11	6.24	2.9%
Liquefied Petroleum Gas	2.59	2.74	2.78	2.80	2.84	2.86	2.88	2.89	2.93	2.97	2.99	3.03	3.04	3.07	3.10	3.13	3.16	3.18	3.20	3.22	3.24	3.27	1.1%
Motor Gasoline 2/	15.82	16.42	16.77	17.08	17.32	17.65	17.95	18.26	18.57	18.84	19.12	19.39	19.62	19.83	20.07	20.33	20.59	20.79	20.99	21.21	21.42	21.65	1.4%
Petrochemical Feedstocks	1.39	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.69	1.70	1.72	1.73	1.0%
Residual Fuel	2.17	1.84	1.88	1.79	1.75	1.75	1.75	1.81	1.79	1.79	1.77	1.76	1.71	1.73	1.75	1.77	1.81	1.82	1.83	1.85	1.88	1.91	-0.6%
Other Petroleum 12/	4.39	4.74	4.80	4.81	4.81	4.86	4.91	4.94	4.99	5.00	5.01	5.04	5.07	5.10	5.13	5.18	5.24	5.25	5.29	5.29	5.33	5.38	0.9%
Petroleum Subtotal	37.21	38.23	38.90	39.39	39.91	40.59	41.21	41.87	42.46	42.99	43.43	43.98	44.35	44.85	45.39	46.03	46.65	47.08	47.54	48.01	48.51	49.05	1.3%
Natural Gas	21.99	22.98	22.80	23.04	23.56	23.92	24.57	25.21	25.94	26.54	26.93	27.69	28.22	28.73	29.28	29.92	30.68	31.06	31.49	31.86	32.14	32.38	1.8%
Metallurgical Coal	0.76	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	-1.6%
Steam Coal	20.68	21.64	22.20	22.65	23.18	23.66	23.86	24.00	24.10	24.20	24.31	24.28	24.37	24.48	24.64	24.78	25.02	25.11	25.30	25.43	25.61	25.80	1.0%
Net Coal Coke Imports	0.07	0.10	0.11	0.12	0.14	0.16	0.17	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	6.6%
Coal Subtotal	21.50	22.47	23.03	23.49	24.03	24.51	24.72	24.85	24.95	25.04	25.15	25.12	25.20	25.31	25.47	25.60	25.84	25.92	26.11	26.23	26.41	26.60	1.0%
Nuclear Power	7.19	7.35	7.37	7.38	7.37	7.27	7.20	7.01	6.88	6.86	6.87	6.70	6.53	6.46	6.26	5.97	5.45	5.23	4.89	4.67	4.58	4.56	-2.1%
Renewable Energy 17/	6.67	6.68	6.82	6.99	7.02	6.99	7.08	7.16	7.20	7.29	7.38	7.41	7.48	7.56	7.57	7.65	7.71	7.73	7.86	7.90	7.94	7.99	0.8%
Methanol (M85) 11/	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	14.3%
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	N/A
Electricity Imports 16/	0.31	0.42	0.41	0.52	0.51	0.47	0.44	0.47	0.40	0.35	0.32	0.26	0.27	0.22	0.21	0.19	0.19	0.21	0.21	0.23	0.23	0.21	-1.8%
<b>Total</b>	<b>94.88</b>	<b>98.15</b>	<b>99.37</b>	<b>100.86</b>	<b>102.44</b>	<b>103.79</b>	<b>105.28</b>	<b>106.64</b>	<b>107.90</b>	<b>109.17</b>	<b>110.18</b>	<b>111.26</b>	<b>112.16</b>	<b>113.23</b>	<b>114.29</b>	<b>115.48</b>	<b>116.66</b>	<b>117.38</b>	<b>118.24</b>	<b>119.05</b>	<b>119.96</b>	<b>120.95</b>	<b>1.1%</b>
<b>Energy Use &amp; Related Statistics</b>																							
Delivered Energy Use	70.32	72.79	73.71	74.78	75.96	77.24	78.46	79.61	80.68	81.71	82.56	83.59	84.38	85.32	86.27	87.35	88.38	89.16	89.93	90.71	91.55	92.44	1.3%
Total Energy Use	94.88	98.15	99.37	100.86	102.44	103.79	105.28	106.64	107.90	109.17	110.18	111.26	112.16	113.23	114.29	115.48	116.66	117.38	118.24	119.05	119.96	120.95	1.1%
Population (millions)	270.58	275.21	277.50	279.77	282.04	284.30	286.57	288.87	291.19	293.54	295.92	298.34	300.79	303.26	305.75	308.26	310.78	313.31	315.84	318.37	320.89	323.40	0.8%
US GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Total Carbon Emis. (mill. m. tons)	1485.4	1552.4	1575.6	1599.5	1628.5	1657.5	1683.4	1707.8	1730.6	1750.9	1767.1	1786.6	1802.6	1821.3	1842.3	1865.8	1893.4	1908.8	1927.8	1944.7	1961.6	1979.2	1.3%

1/ Includes wood used for residential heating.

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

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass.

4/ Fuel consumption includes consumption for cogeneration.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers & 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867,

"Annual Nonutility Power Producer Report, 1997." Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 11. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**01 - New England**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Residential</b>	13.65	14.18	14.13	14.05	14.21	14.16	14.06	14.24	14.21	14.17	14.12	14.17	14.10	14.15	14.20	14.18	14.21	14.24	14.27	14.30	14.33	14.35	0.2%
Primary Energy 1/	7.59	8.58	8.47	8.45	8.46	8.47	8.48	8.50	8.51	8.51	8.53	8.50	8.47	8.47	8.45	8.43	8.43	8.40	8.37	8.36	8.35	8.35	0.4%
Petroleum Products 2/	6.66	8.21	8.09	8.08	8.13	8.15	8.17	8.21	8.24	8.29	8.37	8.37	8.38	8.42	8.43	8.45	8.49	8.50	8.48	8.50	8.51	8.53	1.1%
Distillate Fuel	5.93	7.39	7.28	7.27	7.32	7.34	7.36	7.40	7.43	7.48	7.57	7.57	7.57	7.62	7.64	7.68	7.71	7.72	7.71	7.72	7.73	7.75	1.2%
Liquefied Petroleum Gas	14.43	16.59	16.39	16.37	16.35	16.41	16.34	16.35	16.36	16.39	16.43	16.41	16.41	16.41	16.31	16.18	16.32	16.20	16.23	16.25	16.27	16.35	0.6%
Natural Gas	9.20	9.20	9.11	9.05	8.98	8.97	8.97	8.95	8.92	8.85	8.77	8.71	8.63	8.57	8.50	8.43	8.38	8.32	8.28	8.24	8.21	8.20	-0.5%
Electricity	33.19	32.17	32.11	31.58	32.04	31.51	30.76	31.30	30.88	30.47	29.93	30.07	29.70	29.79	29.92	29.75	29.72	29.79	29.89	29.95	29.95	29.93	-0.5%
<b>Commercial</b>	14.64	14.49	14.42	14.23	14.47	14.29	13.99	14.10	13.77	13.43	13.13	13.04	12.79	12.75	12.74	12.61	12.57	12.57	12.58	12.61	12.64	12.68	-0.7%
Primary Energy 1/	5.90	6.62	6.53	6.51	6.51	6.53	6.55	6.58	6.59	6.58	6.58	6.56	6.53	6.52	6.50	6.48	6.48	6.47	6.46	6.45	6.46	6.48	0.4%
Petroleum Products 2/	4.37	5.88	5.74	5.73	5.77	5.78	5.78	5.81	5.83	5.86	5.92	5.91	5.91	5.94	5.95	5.97	6.00	6.00	6.00	6.01	6.02	6.03	1.5%
Distillate Fuel	4.30	5.75	5.63	5.62	5.68	5.70	5.72	5.76	5.79	5.84	5.93	5.93	5.93	5.98	6.00	6.04	6.07	6.08	6.07	6.08	6.09	6.10	1.6%
Residual Fuel	2.37	3.40	3.27	3.26	3.28	3.28	3.26	3.27	3.26	3.25	3.25	3.24	3.24	3.25	3.26	3.27	3.29	3.30	3.32	3.34	3.36	3.37	1.6%
Natural Gas 3/	6.88	7.08	7.01	6.99	6.96	6.99	7.02	7.04	7.04	7.02	6.97	6.93	6.89	6.85	6.81	6.77	6.75	6.73	6.71	6.69	6.69	6.71	-0.1%
Electricity	28.96	27.38	27.36	26.81	27.46	26.84	25.89	26.12	25.12	24.15	23.29	23.04	22.38	22.26	22.23	21.88	21.76	21.77	21.80	21.86	21.90	21.95	-1.3%
<b>Industrial 4/</b>	7.66	8.14	8.01	7.89	7.99	7.87	7.72	7.79	7.64	7.49	7.33	7.29	7.11	7.10	7.11	7.07	7.07	7.08	7.12	7.14	7.18	7.24	-0.3%
Primary Energy	3.46	4.25	4.17	4.18	4.23	4.27	4.31	4.35	4.37	4.39	4.39	4.39	4.32	4.34	4.35	4.37	4.40	4.40	4.40	4.42	4.44	4.47	1.2%
Petroleum Products 2/	3.47	4.83	4.66	4.65	4.71	4.73	4.73	4.75	4.76	4.78	4.81	4.81	4.69	4.74	4.77	4.81	4.86	4.86	4.87	4.88	4.91	4.94	1.6%
Distillate Fuel	4.67	5.83	5.72	5.71	5.76	5.78	5.80	5.84	5.87	5.92	6.01	6.01	6.02	6.06	6.08	6.12	6.15	6.15	6.16	6.16	6.17	6.19	1.3%
Liquefied Petroleum Gas	10.52	11.65	11.45	11.43	11.41	11.47	11.40	11.42	11.42	11.46	11.49	11.47	11.48	11.47	11.37	11.25	11.39	11.27	11.29	11.31	11.33	11.41	0.4%
Residual Fuel	2.36	3.38	3.24	3.24	3.26	3.25	3.24	3.24	3.23	3.23	3.23	3.21	3.21	3.22	3.24	3.24	3.26	3.28	3.29	3.31	3.33	3.34	1.6%
Natural Gas 5/	3.50	3.71	3.69	3.73	3.77	3.84	3.93	3.99	4.03	4.04	4.03	4.03	4.00	4.00	3.99	3.98	3.98	3.98	3.99	4.00	4.02	4.06	0.7%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	2.35	2.31	2.29	2.28	2.25	2.24	2.22	2.21	2.18	2.17	2.15	2.13	2.11	2.09	2.07	2.05	2.03	2.00	1.98	1.96	1.94	1.92	-0.9%
Electricity	21.86	20.86	20.79	20.22	20.56	19.95	19.18	19.42	18.66	17.91	17.19	17.01	16.42	16.30	16.28	16.06	16.00	16.02	16.12	16.18	16.27	16.41	-1.3%
<b>Transportation</b>	8.55	10.34	10.05	10.01	10.06	10.09	10.08	10.07	10.12	10.14	10.13	10.12	10.12	10.13	10.11	10.10	10.10	10.07	10.06	10.04	10.03	10.01	0.7%
Primary Energy	8.50	10.30	10.01	9.97	10.02	10.05	10.03	10.03	10.07	10.09	10.08	10.07	10.08	10.08	10.06	10.04	10.04	10.02	10.00	9.98	9.97	9.95	0.7%
Petroleum Products 2/	8.50	10.30	10.02	9.97	10.02	10.05	10.03	10.03	10.06	10.08	10.08	10.06	10.07	10.07	10.05	10.03	10.03	10.01	9.99	9.97	9.96	9.94	0.7%
Distillate Fuel 6/	8.15	9.70	9.54	9.51	9.55	9.53	9.54	9.57	9.57	9.58	9.63	9.61	9.60	9.60	9.59	9.59	9.58	9.56	9.54	9.52	9.49	9.48	0.7%
Jet Fuel 7/	4.39	5.93	5.77	5.78	5.87	5.88	5.92	5.99	6.02	6.06	6.14	6.11	6.10	6.08	6.07	6.06	6.06	6.05	6.05	6.04	6.04	6.04	1.5%
Motor Gasoline 8/	9.13	11.02	10.69	10.64	10.70	10.74	10.71	10.69	10.74	10.76	10.74	10.73	10.74	10.75	10.73	10.72	10.72	10.69	10.69	10.67	10.66	10.64	0.7%
Residual Fuel	1.80	2.62	2.50	2.49	2.51	2.49	2.47	2.47	2.45	2.43	2.43	2.40	2.39	2.40	2.41	2.42	2.44	2.45	2.47	2.49	2.51	2.52	1.5%
Liquid Petroleum Gas 9/	8.95	14.75	14.52	14.47	14.42	14.46	14.36	14.34	14.32	14.32	14.33	14.28	14.26	14.23	14.10	13.96	14.07	13.92	13.91	13.90	13.89	13.93	2.0%
Natural Gas 10/	7.85	8.24	8.15	8.14	8.16	8.25	8.37	8.50	8.61	8.67	8.70	8.74	8.75	8.76	8.75	8.74	8.73	8.71	8.69	8.67	8.65	8.66	0.4%
Ethanol (E85) 11/	14.35	19.35	18.80	18.74	19.07	19.11	19.17	19.12	19.21	19.26	19.28	19.30	19.31	19.32	19.32	19.33	19.36	19.35	19.36	19.37	19.37	19.38	1.4%
Methanol (M85) 12/	8.99	15.15	15.11	15.11	15.50	15.52	15.53	15.53	15.56	15.57	15.59	15.60	15.61	15.61	15.61	15.60	15.63	15.61	15.62	15.62	15.63	15.63	2.5%
Electricity	23.91	22.04	21.98	21.55	21.08	20.61	20.20	20.34	20.45	20.17	19.78	19.91	19.66	19.57	19.49	19.62	19.75	19.82	19.88	19.89	19.88	19.86	-0.8%
<b>Average End-Use Energy</b>	10.77	11.72	11.54	11.43	11.53	11.46	11.34	11.40	11.33	11.24	11.15	11.13	11.04	11.04	11.04	10.99	10.98	10.98	10.98	10.98	10.98	11.00	0.1%
Primary Energy	10.40	11.47	11.28	11.17	11.26	11.21	11.10	11.14	11.09	11.02	10.93	10.92	10.84	10.84	10.83	10.79	10.78	10.78	10.78	10.77	10.77	10.78	0.2%
Electricity	28.89	27.70	27.66	27.11	27.58	27.00	26.17	26.50	25.80	25.10	24.41	24.33	23.80	23.76	23.78	23.53	23.46	23.51	23.58	23.64	23.69	23.74	-0.9%
<b>Electric Generators 13/</b>																							
Fossil Fuel Average	2.23	2.66	2.65	2.65	2.64	2.67	2.70	2.77	2.81	2.83	2.82	2.86	2.86	2.88	2.89	2.88	2.90	2.89	2.89	2.89	2.93	2.95	1.3%
Petroleum Products	2.07	3.44	3.30	3.30	3.32	3.31	3.30	3.31	3.30	3.30	3.30	3.30	3.31	3.33	3.35	3.37	3.39	3.41	3.42	3.44	3.45	3.47	2.4%
Distillate Fuel	3.24	4.84	4.73	4.72	4.77	4.79	4.81	4.85	4.88	4.93	5.02	5.02	5.02	5.07	5.09	5.13	5.16	5.17	5.16	5.17	5.18	5.20	2.2%
Residual Fuel	2.06	3.42	3.29	3.28	3.30	3.29	3.28	3.29	3.28	3.27	3.27	3.26	3.25	3.27	3.28	3.29	3.31	3.32	3.34	3.36	3.37	3.39	2.3%
Natural Gas	2.79	3.13	3.14	3.21	3.24	3.32	3.40	3.45	3.48	3.49	3.49	3.48	3.47	3.47	3.46	3.46	3.47	3.47	3.48	3.49	3.51	3.56	1.1%
Steam Coal	1.77	1.78	1.72	1.70	1.66	1.66	1.64	1.63	1.64	1.63	1.59	1.62	1.62	1.59	1.57	1.56	1.54	1.51	1.51	1.48	1.53	1.52	-0.7%



**Table 11. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**01 - New England**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.66	8.58	8.26	8.29	8.34	8.42	8.49	8.52	8.63	8.72	8.78	8.86	8.91	8.94	8.94	8.96	8.98	8.98	8.97	8.96	8.96	8.96	1.4%
Distillate Fuel	6.29	7.77	7.64	7.63	7.69	7.70	7.72	7.76	7.79	7.83	7.91	7.91	7.92	7.95	7.97	8.00	8.03	8.03	8.02	8.03	8.04	8.04	1.1%
Jet Fuel	4.39	5.93	5.77	5.78	5.87	5.88	5.92	5.99	6.02	6.06	6.14	6.11	6.10	6.08	6.07	6.06	6.06	6.05	6.05	6.04	6.04	6.04	1.5%
Liquefied Petroleum Gas	12.94	15.12	14.90	14.86	14.82	14.87	14.78	14.78	14.77	14.78	14.80	14.76	14.74	14.72	14.60	14.46	14.58	14.45	14.45	14.46	14.47	14.53	0.5%
Motor Gasoline 8/	9.13	11.02	10.69	10.64	10.70	10.74	10.71	10.69	10.74	10.76	10.74	10.73	10.74	10.75	10.73	10.72	10.72	10.70	10.69	10.67	10.66	10.64	0.7%
Residual Fuel	2.13	3.37	3.24	3.24	3.25	3.24	3.22	3.23	3.21	3.19	3.19	3.16	3.14	3.15	3.16	3.16	3.18	3.19	3.21	3.22	3.24	3.25	1.9%
Natural Gas	5.60	6.07	6.02	5.96	5.97	5.93	5.86	5.73	5.65	5.57	5.51	5.40	5.33	5.26	5.20	5.17	5.14	5.13	5.13	5.14	5.15	5.19	-0.3%
Coal	1.79	1.80	1.74	1.71	1.68	1.68	1.66	1.65	1.65	1.65	1.61	1.64	1.63	1.61	1.59	1.57	1.55	1.53	1.53	1.50	1.54	1.53	-0.7%
Ethanol (E85) 11/	14.35	19.35	18.80	18.74	19.07	19.11	19.17	19.12	19.21	19.26	19.28	19.30	19.31	19.32	19.32	19.33	19.36	19.35	19.36	19.37	19.37	19.38	1.4%
Methanol (M85) 12/	8.99	15.15	15.11	15.11	15.50	15.52	15.53	15.53	15.56	15.57	15.59	15.60	15.61	15.61	15.61	15.60	15.63	15.61	15.62	15.62	15.63	15.63	2.5%
Electricity	28.89	27.70	27.66	27.11	27.58	27.00	26.17	26.50	25.80	25.10	24.41	24.33	23.80	23.76	23.78	23.53	23.46	23.51	23.58	23.64	23.69	23.74	-0.9%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	8.48	9.15	9.11	9.06	9.15	9.16	9.09	9.20	9.20	9.22	9.17	9.21	9.18	9.25	9.26	9.27	9.30	9.36	9.37	9.40	9.43	9.49	0.5%
Commercial	6.09	6.23	6.24	6.20	6.32	6.27	6.19	6.26	6.16	6.06	5.97	5.97	5.90	5.90	5.92	5.87	5.86	5.86	5.85	5.85	5.84	5.83	-0.2%
Industrial	3.00	3.12	3.11	3.11	3.22	3.23	3.22	3.29	3.25	3.20	3.14	3.14	3.07	3.08	3.12	3.13	3.16	3.18	3.20	3.23	3.27	3.31	0.4%
Transportation	8.42	10.59	10.52	10.68	10.91	11.15	11.30	11.47	11.68	11.86	11.99	12.12	12.23	12.35	12.46	12.58	12.71	12.78	12.85	12.92	12.98	13.06	2.0%
Total Non-Renewable Expend.	25.99	29.09	28.98	29.05	29.59	29.80	29.80	30.22	30.29	30.34	30.27	30.44	30.38	30.59	30.75	30.86	31.04	31.17	31.27	31.40	31.53	31.69	0.9%
Trans. Renewable Expend.	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	17.7%
Total Expenditures	25.99	29.10	28.99	29.07	29.61	29.83	29.83	30.26	30.34	30.38	30.32	30.50	30.44	30.65	30.81	30.92	31.11	31.24	31.35	31.47	31.60	31.76	0.9%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 12. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**02 - Middle Atlantic**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Residential</b>	13.66	13.72	13.51	13.37	13.29	13.32	13.30	13.36	13.33	13.28	13.20	13.35	13.29	13.30	13.30	13.47	13.50	13.51	13.50	13.53	13.57	13.62	0.0%
Primary Energy 1/	7.76	8.28	8.19	8.16	8.15	8.15	8.16	8.17	8.18	8.16	8.15	8.11	8.07	8.04	8.01	7.98	7.97	7.94	7.92	7.90	7.88	7.88	0.1%
Petroleum Products 2/	7.10	8.81	8.69	8.68	8.74	8.76	8.77	8.81	8.85	8.90	8.98	8.97	8.96	8.99	8.99	9.00	9.03	9.03	9.01	9.01	9.02	9.03	1.1%
Distillate Fuel	6.47	7.94	7.82	7.81	7.87	7.88	7.90	7.94	7.98	8.03	8.11	8.10	8.09	8.13	8.14	8.16	8.19	8.19	8.17	8.17	8.18	8.19	1.1%
Liquefied Petroleum Gas	13.14	16.80	16.60	16.58	16.56	16.62	16.55	16.57	16.57	16.61	16.64	16.62	16.63	16.62	16.52	16.40	16.54	16.42	16.44	16.46	16.48	16.56	1.1%
Natural Gas	8.23	8.21	8.13	8.09	8.06	8.06	8.07	8.07	8.06	8.03	7.98	7.93	7.88	7.83	7.80	7.76	7.74	7.71	7.69	7.67	7.65	7.64	-0.3%
Electricity	31.66	30.54	29.72	29.01	28.46	28.38	28.03	28.07	27.75	27.39	26.95	27.53	27.24	27.23	27.20	27.76	27.80	27.76	27.67	27.76	27.80	27.87	-0.6%
<b>Commercial</b>	13.81	13.51	13.08	12.75	12.49	12.41	12.23	12.30	12.07	11.89	11.66	11.82	11.64	11.57	11.53	11.68	11.71	11.68	11.64	11.65	11.67	11.74	-0.7%
Primary Energy 1/	4.66	5.26	5.18	5.18	5.20	5.23	5.26	5.30	5.33	5.34	5.34	5.33	5.31	5.30	5.30	5.30	5.31	5.31	5.31	5.32	5.33	5.35	0.6%
Petroleum Products 2/	3.76	5.43	5.28	5.27	5.31	5.33	5.34	5.37	5.39	5.43	5.48	5.48	5.47	5.49	5.50	5.51	5.53	5.53	5.52	5.53	5.54	5.55	1.8%
Distillate Fuel	4.03	5.66	5.54	5.53	5.59	5.60	5.62	5.66	5.70	5.75	5.83	5.82	5.81	5.85	5.86	5.89	5.91	5.91	5.89	5.89	5.90	5.91	1.8%
Residual Fuel	2.55	4.06	3.87	3.87	3.88	3.92	3.92	3.94	3.95	3.96	3.97	3.99	3.98	4.00	4.01	4.03	4.04	4.06	4.07	4.09	4.11	4.12	2.2%
Natural Gas 3/	5.10	5.30	5.24	5.25	5.26	5.30	5.34	5.39	5.42	5.42	5.40	5.39	5.37	5.35	5.34	5.33	5.34	5.35	5.35	5.36	5.37	5.39	0.3%
Electricity	29.02	27.34	26.23	25.23	24.41	24.08	23.45	23.54	22.80	22.25	21.59	22.03	21.53	21.36	21.25	21.66	21.72	21.64	21.53	21.55	21.59	21.75	-1.3%
<b>Industrial 4/</b>	5.07	5.59	5.43	5.37	5.34	5.34	5.34	5.38	5.41	5.42	5.37	5.46	5.32	5.34	5.35	5.47	5.51	5.53	5.52	5.56	5.60	5.64	0.5%
Primary Energy	2.96	3.70	3.63	3.65	3.70	3.74	3.78	3.82	3.88	3.93	3.94	3.96	3.85	3.88	3.90	3.95	3.98	4.00	4.00	4.03	4.06	4.08	1.5%
Petroleum Products 2/	3.23	4.84	4.67	4.67	4.74	4.76	4.77	4.79	4.90	4.98	5.01	5.04	4.77	4.82	4.86	4.96	4.98	5.02	4.98	5.05	5.09	5.07	2.1%
Distillate Fuel	4.19	5.78	5.66	5.65	5.71	5.73	5.74	5.78	5.82	5.87	5.95	5.95	5.94	5.97	5.98	6.01	6.03	6.03	6.01	6.02	6.02	6.03	1.7%
Liquefied Petroleum Gas	9.21	11.34	11.14	11.12	11.09	11.16	11.09	11.10	11.11	11.14	11.18	11.16	11.16	11.16	11.05	10.93	11.07	10.95	10.98	10.99	11.02	11.10	0.9%
Residual Fuel	2.43	3.86	3.67	3.67	3.68	3.71	3.72	3.73	3.75	3.76	3.76	3.78	3.78	3.79	3.81	3.82	3.84	3.85	3.87	3.88	3.90	3.92	2.2%
Natural Gas 5/	3.60	3.77	3.75	3.79	3.85	3.92	4.00	4.06	4.11	4.13	4.13	4.13	4.13	4.13	4.13	4.14	4.16	4.18	4.20	4.22	4.24	4.28	0.8%
Metallurgical Coal	1.72	1.75	1.72	1.71	1.69	1.67	1.66	1.65	1.63	1.62	1.61	1.60	1.59	1.57	1.57	1.56	1.55	1.54	1.53	1.51	1.50	1.50	-0.6%
Steam Coal	1.37	1.29	1.29	1.27	1.26	1.24	1.22	1.20	1.18	1.17	1.16	1.14	1.13	1.12	1.11	1.11	1.09	1.09	1.08	1.07	1.07	1.06	-1.2%
Electricity	17.16	16.79	16.13	15.51	14.97	14.70	14.43	14.51	14.22	13.95	13.49	13.95	13.64	13.53	13.47	13.93	13.98	13.87	13.81	13.80	13.86	14.02	-0.9%
<b>Transportation</b>	7.44	9.46	9.19	9.14	9.17	9.19	9.18	9.17	9.20	9.22	9.22	9.21	9.20	9.18	9.16	9.13	9.13	9.09	9.07	9.05	9.02	9.01	0.9%
Primary Energy	7.40	9.43	9.15	9.11	9.14	9.15	9.14	9.13	9.17	9.18	9.18	9.17	9.16	9.14	9.12	9.09	9.09	9.04	9.03	9.00	8.98	8.96	0.9%
Petroleum Products 2/	7.40	9.43	9.15	9.11	9.14	9.15	9.14	9.13	9.16	9.18	9.18	9.16	9.15	9.13	9.10	9.07	9.07	9.03	9.01	8.98	8.96	8.94	0.9%
Distillate Fuel 6/	7.72	9.56	9.40	9.37	9.41	9.39	9.40	9.43	9.43	9.45	9.49	9.47	9.46	9.46	9.45	9.45	9.44	9.42	9.40	9.38	9.36	9.34	0.9%
Jet Fuel 7/	4.10	5.67	5.51	5.52	5.61	5.62	5.66	5.73	5.76	5.80	5.87	5.86	5.85	5.85	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	1.6%
Motor Gasoline 8/	8.34	10.57	10.24	10.19	10.23	10.26	10.25	10.22	10.27	10.29	10.28	10.27	10.28	10.26	10.23	10.20	10.22	10.17	10.16	10.14	10.12	10.10	0.9%
Residual Fuel	1.99	3.44	3.25	3.24	3.25	3.29	3.30	3.31	3.32	3.33	3.33	3.35	3.34	3.35	3.37	3.38	3.40	3.41	3.43	3.44	3.46	3.48	2.6%
Liquid Petroleum Gas 9/	10.95	14.67	14.45	14.40	14.35	14.38	14.28	14.27	14.24	14.25	14.26	14.21	14.19	14.16	14.03	13.88	13.99	13.84	13.84	13.82	13.82	13.86	1.1%
Natural Gas 10/	6.81	7.25	7.12	7.10	7.15	7.25	7.40	7.56	7.73	7.86	7.95	8.04	8.11	8.18	8.21	8.23	8.28	8.28	8.29	8.29	8.29	8.31	0.9%
Ethanol (E85) 11/	14.35	18.44	17.89	17.83	18.16	18.20	18.26	18.21	18.30	18.35	18.37	18.39	18.41	18.41	18.41	18.42	18.45	18.44	18.45	18.46	18.47	18.47	1.2%
Methanol (M85) 12/	8.99	13.84	13.81	13.81	14.19	14.21	14.23	14.22	14.25	14.27	14.28	14.29	14.31	14.30	14.30	14.30	14.32	14.31	14.32	14.32	14.32	14.32	2.1%
Electricity	21.23	19.81	19.22	18.68	18.20	17.90	17.50	17.34	17.18	16.96	16.67	16.96	16.65	16.61	16.64	16.72	16.70	16.62	16.66	16.70	16.67	16.62	-1.1%
<b>Average End-Use Energy</b>	9.18	10.00	9.74	9.62	9.56	9.54	9.49	9.51	9.49	9.46	9.40	9.47	9.39	9.38	9.36	9.43	9.44	9.44	9.41	9.42	9.43	9.44	0.1%
Primary Energy	8.76	9.72	9.46	9.35	9.30	9.29	9.25	9.26	9.25	9.23	9.18	9.24	9.17	9.15	9.13	9.19	9.20	9.19	9.17	9.18	9.18	9.19	0.2%
Electricity	26.83	25.73	24.86	24.05	23.38	23.13	22.68	22.74	22.27	21.87	21.34	21.83	21.47	21.36	21.28	21.74	21.78	21.71	21.62	21.65	21.70	21.83	-0.9%
<b>Electric Generators 13/</b>																							
Fossil Fuel Average	1.67	1.77	1.68	1.66	1.65	1.69	1.71	1.74	1.79	1.82	1.82	1.91	1.93	1.94	1.97	2.01	2.07	2.11	2.13	2.13	2.13	2.16	1.2%
Petroleum Products	2.10	3.41	3.21	3.21	3.22	3.24	3.25	3.27	3.28	3.30	3.31	3.33	3.34	3.35	3.37	3.40	3.41	3.43	3.45	3.47	3.49	3.50	2.3%
Distillate Fuel	3.01	4.97	4.85	4.84	4.90	4.91	4.93	4.97	5.01	5.06	5.14	5.13	5.12	5.16	5.17	5.19	5.22	5.22	5.20	5.20	5.21	5.22	2.5%
Residual Fuel	2.08	3.37	3.18	3.18	3.19	3.22	3.23	3.25	3.26	3.27	3.28	3.29	3.29	3.31	3.32	3.33	3.35	3.37	3.38	3.39	3.41	3.43	2.3%
Natural Gas	2.65	2.87	2.82	2.87	2.94	3.04	3.06	3.15	3.20	3.23	3.26	3.24	3.26	3.27	3.27	3.31	3.35	3.38	3.41	3.44	3.46	3.50	1.3%
Steam Coal	1.40	1.43	1.37	1.35	1.34	1.33	1.31	1.30	1.29	1.28	1.26	1.28	1.28	1.27	1.26	1.25	1.24	1.23	1.21	1.20	1.19	1.19	-0.7%

**Table 12. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**02 - Middle Atlantic**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.32	8.20	8.00	8.01	8.06	8.05	8.06	8.07	8.13	8.17	8.21	8.20	8.20	8.20	8.19	8.20	8.20	8.19	8.18	8.18	8.17	8.15	1.2%
Distillate Fuel	6.57	8.27	8.13	8.12	8.18	8.18	8.20	8.24	8.26	8.30	8.36	8.35	8.35	8.36	8.37	8.38	8.39	8.39	8.37	8.37	8.36	8.36	1.1%
Jet Fuel	4.10	5.67	5.51	5.52	5.61	5.62	5.66	5.73	5.76	5.80	5.87	5.86	5.85	5.85	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	1.6%
Liquefied Petroleum Gas	11.55	14.64	14.42	14.38	14.33	14.38	14.29	14.28	14.04	13.95	13.96	13.87	14.20	14.17	14.04	13.89	14.00	13.86	13.86	13.85	13.85	13.90	0.8%
Motor Gasoline 8/	8.34	10.57	10.25	10.19	10.23	10.26	10.25	10.22	10.27	10.30	10.28	10.27	10.28	10.26	10.23	10.20	10.22	10.17	10.16	10.14	10.12	10.11	0.9%
Residual Fuel	2.19	3.56	3.38	3.40	3.42	3.43	3.45	3.46	3.48	3.50	3.52	3.53	3.56	3.57	3.59	3.61	3.62	3.64	3.66	3.68	3.69	3.70	2.4%
Natural Gas	5.47	5.80	5.74	5.70	5.68	5.68	5.65	5.64	5.58	5.54	5.49	5.38	5.31	5.27	5.22	5.16	5.11	5.09	5.07	5.07	5.09	5.11	-0.3%
Coal	1.45	1.42	1.36	1.35	1.34	1.32	1.31	1.29	1.28	1.28	1.26	1.27	1.27	1.26	1.25	1.24	1.23	1.22	1.20	1.19	1.18	1.18	-0.9%
Ethanol (E85) 11/	14.35	18.44	17.89	17.83	18.16	18.20	18.26	18.21	18.30	18.35	18.37	18.39	18.41	18.41	18.41	18.42	18.45	18.44	18.45	18.46	18.47	18.47	1.2%
Methanol (M85) 12/	8.99	13.84	13.81	13.81	14.19	14.21	14.23	14.22	14.25	14.27	14.28	14.29	14.31	14.30	14.30	14.30	14.32	14.31	14.32	14.32	14.32	14.32	2.1%
Electricity	26.83	25.73	24.86	24.05	23.38	23.13	22.68	22.74	22.27	21.87	21.34	21.83	21.47	21.36	21.28	21.74	21.78	21.71	21.62	21.65	21.70	21.83	-0.9%
Non-Renewable Energy Expenditures																							
by Sector (billion 1998 dollars)																							
Residential	21.90	23.11	22.75	22.53	22.40	22.51	22.41	22.51	22.46	22.46	22.29	22.54	22.43	22.50	22.44	22.70	22.74	22.80	22.73	22.79	22.86	23.02	0.2%
Commercial	17.39	17.54	17.11	16.76	16.49	16.44	16.27	16.40	16.18	16.03	15.81	16.06	15.89	15.85	15.83	16.03	16.06	16.00	15.92	15.89	15.85	15.87	-0.4%
Industrial	9.35	10.14	9.90	9.87	9.96	10.09	10.21	10.39	10.45	10.47	10.35	10.56	10.32	10.37	10.46	10.76	10.89	10.91	10.91	11.00	11.11	11.23	0.8%
Transportation	20.39	26.83	26.44	26.70	27.13	27.60	27.95	28.29	28.72	29.07	29.34	29.61	29.80	29.95	30.13	30.34	30.62	30.67	30.79	30.90	31.00	31.13	1.9%
Total Non-Renewable Expend.	69.02	77.62	76.20	75.88	75.99	76.64	76.84	77.60	77.81	78.03	77.80	78.77	78.43	78.68	78.85	79.83	80.31	80.38	80.35	80.58	80.82	81.25	0.7%
Trans. Renewable Expend.	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	16.9%
Total Expenditures	69.03	77.64	76.24	75.92	76.05	76.70	76.92	77.69	77.91	78.15	77.93	78.91	78.58	78.83	79.01	79.99	80.48	80.56	80.53	80.76	81.00	81.43	0.8%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 13. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**03 - East North Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Residential</b>	10.37	10.28	10.23	10.15	10.12	10.16	10.13	10.18	10.20	10.25	10.14	10.17	10.13	10.13	10.15	10.17	10.25	10.20	10.26	10.26	10.23	10.22	-0.1%
Primary Energy 1/	5.78	6.18	6.14	6.12	6.12	6.14	6.16	6.19	6.21	6.20	6.18	6.16	6.15	6.14	6.12	6.11	6.10	6.08	6.07	6.07	6.07	6.09	0.2%
Petroleum Products 2/	7.37	9.59	9.47	9.49	9.54	9.61	9.61	9.66	9.69	9.75	9.83	9.82	9.82	9.90	9.89	9.89	9.95	9.96	10.00	10.06	10.12	10.19	1.5%
Distillate Fuel	5.64	7.02	6.91	6.90	6.95	6.97	6.99	7.03	7.06	7.11	7.20	7.17	7.15	7.17	7.17	7.19	7.22	7.22	7.25	7.31	7.36	7.42	1.3%
Liquefied Petroleum Gas	9.07	11.93	11.75	11.73	11.70	11.76	11.69	11.71	11.71	11.74	11.78	11.76	11.76	11.88	11.85	11.83	11.90	11.92	11.96	12.02	12.07	12.15	1.3%
Natural Gas	5.59	5.78	5.75	5.73	5.72	5.74	5.77	5.79	5.81	5.80	5.78	5.76	5.75	5.73	5.72	5.71	5.70	5.68	5.67	5.66	5.67	5.69	0.1%
Electricity	23.59	22.31	22.00	21.53	21.24	21.17	20.80	20.74	20.61	20.63	20.14	20.15	19.96	19.88	19.91	19.92	20.16	19.92	20.09	20.02	19.81	19.67	-0.8%
<b>Commercial</b>	11.43	11.36	11.20	11.02	10.87	10.78	10.65	10.64	10.61	10.54	10.34	10.31	10.22	10.17	10.18	10.19	10.29	10.21	10.26	10.24	10.18	10.16	-0.5%
Primary Energy 1/	5.05	5.40	5.37	5.34	5.34	5.35	5.38	5.40	5.43	5.42	5.41	5.39	5.38	5.38	5.37	5.36	5.36	5.35	5.35	5.35	5.36	5.39	0.3%
Petroleum Products 2/	5.72	7.50	7.34	7.33	7.35	7.39	7.39	7.42	7.44	7.48	7.55	7.53	7.52	7.57	7.56	7.55	7.60	7.61	7.64	7.70	7.74	7.81	1.4%
Distillate Fuel	3.68	5.14	5.02	5.02	5.07	5.08	5.10	5.14	5.18	5.23	5.31	5.29	5.26	5.28	5.28	5.30	5.34	5.34	5.36	5.42	5.47	5.54	1.9%
Residual Fuel	2.39	2.84	2.67	2.68	2.70	2.72	2.73	2.75	2.76	2.78	2.80	2.81	2.83	2.84	2.86	2.88	2.89	2.91	2.93	2.94	2.96	2.97	1.0%
Natural Gas 3/	5.11	5.37	5.34	5.31	5.31	5.32	5.35	5.38	5.40	5.40	5.38	5.36	5.35	5.35	5.34	5.33	5.32	5.32	5.31	5.31	5.32	5.35	0.2%
Electricity	21.27	20.57	20.19	19.69	19.25	18.94	18.50	18.38	18.21	18.00	17.47	17.40	17.14	16.99	17.03	17.04	17.30	17.10	17.22	17.16	16.96	16.85	-1.1%
<b>Industrial 4/</b>	4.99	5.51	5.43	5.39	5.36	5.36	5.34	5.38	5.41	5.43	5.39	5.39	5.37	5.38	5.40	5.43	5.50	5.49	5.53	5.54	5.54	5.57	0.5%
Primary Energy	3.22	3.87	3.83	3.83	3.85	3.88	3.91	3.94	3.97	3.99	4.01	4.01	4.02	4.05	4.05	4.07	4.10	4.11	4.13	4.15	4.18	4.22	1.2%
Petroleum Products 2/	4.45	5.92	5.78	5.76	5.77	5.77	5.76	5.77	5.79	5.82	5.86	5.84	5.84	5.90	5.89	5.90	5.94	5.95	5.97	6.01	6.04	6.07	1.4%
Distillate Fuel	4.04	5.59	5.47	5.46	5.51	5.53	5.55	5.59	5.63	5.68	5.76	5.73	5.71	5.73	5.73	5.75	5.78	5.79	5.81	5.87	5.92	5.98	1.8%
Liquefied Petroleum Gas	9.17	11.24	11.06	11.04	11.01	11.07	11.00	11.02	11.02	11.05	11.09	11.07	11.07	11.19	11.16	11.14	11.20	11.22	11.26	11.33	11.38	11.46	1.0%
Residual Fuel	2.52	2.88	2.71	2.73	2.74	2.76	2.77	2.79	2.81	2.82	2.84	2.85	2.87	2.89	2.90	2.92	2.93	2.95	2.97	2.98	3.00	3.01	0.8%
Natural Gas 5/	3.01	3.26	3.26	3.28	3.32	3.37	3.45	3.50	3.55	3.57	3.57	3.57	3.58	3.59	3.60	3.61	3.63	3.64	3.66	3.67	3.70	3.74	1.0%
Metallurgical Coal	1.74	1.77	1.75	1.73	1.71	1.70	1.68	1.66	1.65	1.64	1.62	1.62	1.60	1.59	1.58	1.57	1.57	1.56	1.54	1.53	1.52	1.51	-0.6%
Steam Coal	1.40	1.33	1.32	1.30	1.30	1.28	1.26	1.25	1.24	1.22	1.21	1.19	1.17	1.16	1.15	1.14	1.14	1.12	1.11	1.10	1.09	1.08	-1.2%
Electricity	12.49	12.60	12.41	12.11	11.83	11.68	11.48	11.52	11.55	11.52	11.21	11.21	11.02	10.94	10.98	11.01	11.26	11.11	11.21	11.15	11.00	10.95	-0.6%
<b>Transportation</b>	8.03	9.87	9.59	9.55	9.56	9.57	9.58	9.56	9.60	9.62	9.64	9.63	9.63	9.64	9.63	9.64	9.65	9.64	9.63	9.62	9.61	9.60	0.8%
Primary Energy	8.01	9.85	9.58	9.53	9.55	9.56	9.57	9.55	9.59	9.61	9.63	9.62	9.61	9.62	9.62	9.62	9.63	9.62	9.62	9.61	9.60	9.58	0.8%
Petroleum Products 2/	8.01	9.85	9.58	9.54	9.55	9.56	9.57	9.55	9.59	9.61	9.63	9.62	9.61	9.62	9.62	9.62	9.63	9.62	9.62	9.60	9.59	9.58	0.8%
Distillate Fuel 6/	7.58	9.24	9.08	9.06	9.09	9.08	9.09	9.11	9.11	9.13	9.21	9.19	9.18	9.20	9.21	9.23	9.26	9.26	9.25	9.25	9.24	9.24	0.9%
Jet Fuel 7/	3.92	5.32	5.16	5.19	5.26	5.28	5.32	5.39	5.42	5.46	5.57	5.56	5.54	5.56	5.56	5.60	5.68	5.68	5.68	5.67	5.67	5.67	1.7%
Motor Gasoline 8/	8.67	10.65	10.32	10.27	10.28	10.30	10.31	10.27	10.32	10.34	10.34	10.33	10.33	10.34	10.34	10.34	10.34	10.33	10.33	10.32	10.31	10.30	0.8%
Residual Fuel	2.48	3.09	2.91	2.93	2.94	2.96	2.98	2.99	3.01	3.02	3.04	3.06	3.07	3.09	3.11	3.12	3.14	3.16	3.17	3.19	3.21	3.22	1.2%
Liquid Petroleum Gas 9/	12.67	14.96	14.75	14.70	14.65	14.68	14.58	14.56	14.54	14.54	14.55	14.50	14.48	14.57	14.52	14.47	14.51	14.50	14.51	14.54	14.56	14.60	0.6%
Natural Gas 10/	6.98	7.39	7.33	7.31	7.34	7.41	7.52	7.63	7.76	7.83	7.88	7.93	7.97	8.01	8.02	8.04	8.04	8.04	8.03	8.02	8.02	8.04	0.6%
Ethanol (E85) 11/	14.35	16.17	15.73	15.65	15.98	16.01	16.06	16.00	16.08	16.12	16.13	16.14	16.14	16.15	16.16	16.17	16.18	16.18	16.19	16.19	16.19	16.19	0.6%
Methanol (M85) 12/	8.99	11.58	11.47	11.59	13.68	13.70	14.09	14.09	14.49	14.51	14.52	14.53	14.54	14.56	14.57	14.59	14.60	14.61	14.62	14.63	14.64	14.65	2.2%
Electricity	15.87	15.12	14.76	14.41	14.13	13.88	13.53	13.31	13.13	12.83	12.55	12.65	12.48	12.37	12.28	12.20	12.19	12.09	12.00	11.93	11.83	11.75	-1.4%
<b>Average End-Use Energy</b>	7.84	8.62	8.48	8.41	8.37	8.36	8.33	8.34	8.37	8.38	8.34	8.34	8.31	8.31	8.32	8.33	8.38	8.36	8.39	8.38	8.36	8.36	0.3%
Primary Energy	7.71	8.60	8.45	8.38	8.35	8.34	8.32	8.32	8.35	8.37	8.33	8.33	8.31	8.31	8.32	8.33	8.38	8.36	8.38	8.38	8.36	8.36	0.4%
Electricity	18.41	17.96	17.70	17.29	16.94	16.76	16.43	16.39	16.31	16.25	15.84	15.82	15.62	15.52	15.54	15.55	15.78	15.60	15.72	15.65	15.46	15.36	-0.8%
<b>Electric Generators 13/</b>																							
Fossil Fuel Average	1.32	1.35	1.28	1.26	1.23	1.20	1.20	1.20	1.23	1.25	1.24	1.28	1.29	1.29	1.29	1.30	1.32	1.32	1.35	1.37	1.38	1.38	0.2%
Petroleum Products	2.94	4.47	4.32	4.44	4.46	4.53	4.59	4.61	4.64	4.73	4.86	4.83	4.85	4.90	4.93	4.93	4.96	4.98	5.02	5.08	5.14	5.19	2.6%
Distillate Fuel	3.23	4.92	4.80	4.80	4.85	4.87	4.88	4.92	4.96	5.01	5.09	5.07	5.05	5.07	5.07	5.08	5.12	5.12	5.15	5.21	5.26	5.32	2.3%
Residual Fuel	2.71	3.42	3.24	3.26	3.27	3.29	3.31	3.32	3.34	3.35	3.37	3.39	3.40	3.42	3.43	3.45	3.47	3.48	3.50	3.52	3.53	3.55	1.2%
Natural Gas	1.75	2.14	2.15	2.16	2.21	2.29	2.35	2.41	2.46	2.47	2.60	2.67	2.68	2.72	2.75	2.76	2.77	2.80	2.81	2.84	2.89	2.94	2.4%
Steam Coal	1.29	1.28	1.23	1.21	1.17	1.15	1.14	1.13	1.14	1.14	1.10	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.05	1.03	1.02	-1.0%

**Table 13. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**03 - East North Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.18	8.97	8.74	8.71	8.72	8.74	8.74	8.73	8.76	8.79	8.82	8.81	8.81	8.82	8.82	8.82	8.83	8.83	8.83	8.83	8.83	8.83	0.9%
Distillate Fuel	6.74	8.40	8.25	8.24	8.28	8.27	8.28	8.30	8.31	8.34	8.41	8.39	8.37	8.39	8.38	8.40	8.43	8.42	8.42	8.43	8.43	8.44	1.0%
Jet Fuel	3.92	5.32	5.16	5.19	5.26	5.28	5.32	5.39	5.42	5.46	5.57	5.56	5.54	5.56	5.56	5.60	5.68	5.68	5.68	5.67	5.67	5.67	1.7%
Liquefied Petroleum Gas	9.24	11.63	11.46	11.45	11.44	11.51	11.44	11.46	11.47	11.50	11.54	11.52	11.52	11.64	11.62	11.59	11.66	11.68	11.71	11.77	11.82	11.90	1.2%
Motor Gasoline 8/	8.67	10.65	10.32	10.27	10.28	10.30	10.31	10.27	10.32	10.34	10.34	10.33	10.33	10.34	10.34	10.34	10.34	10.33	10.33	10.32	10.31	10.30	0.8%
Residual Fuel	2.61	2.99	2.79	2.79	2.80	2.81	2.83	2.84	2.86	2.87	2.88	2.90	2.91	2.93	2.94	2.96	2.98	3.00	3.01	3.03	3.05	3.06	0.7%
Natural Gas	4.38	4.56	4.58	4.57	4.57	4.62	4.62	4.65	4.63	4.60	4.57	4.54	4.52	4.51	4.49	4.47	4.43	4.42	4.38	4.36	4.37	4.40	0.0%
Coal	1.32	1.29	1.24	1.22	1.19	1.17	1.15	1.15	1.15	1.15	1.11	1.13	1.12	1.11	1.10	1.08	1.08	1.06	1.06	1.05	1.04	1.03	-1.1%
Ethanol (E85) 11/	14.35	16.17	15.73	15.65	15.98	16.01	16.06	16.00	16.08	16.12	16.13	16.14	16.14	16.15	16.16	16.17	16.18	16.18	16.19	16.19	16.19	16.19	0.6%
Methanol (M85) 12/	8.99	11.58	11.47	11.59	13.68	13.70	14.09	14.09	14.49	14.51	14.52	14.53	14.54	14.56	14.57	14.59	14.60	14.61	14.62	14.63	14.64	14.65	2.2%
Electricity	18.41	17.96	17.70	17.29	16.94	16.76	16.43	16.39	16.31	16.25	15.84	15.82	15.62	15.52	15.54	15.55	15.78	15.60	15.72	15.65	15.46	15.36	-0.8%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	22.72	24.09	24.00	23.90	23.92	24.16	24.11	24.29	24.43	24.69	24.50	24.67	24.67	24.83	24.92	25.08	25.38	25.43	25.62	25.72	25.77	25.95	0.6%
Commercial	16.27	16.83	16.77	16.64	16.54	16.54	16.49	16.60	16.68	16.72	16.58	16.67	16.67	16.71	16.82	16.92	17.14	17.07	17.18	17.17	17.09	17.05	0.2%
Industrial	18.34	20.13	19.93	20.00	20.29	20.61	20.90	21.26	21.59	21.82	21.72	21.90	21.88	22.11	22.44	22.81	23.38	23.40	23.74	23.97	24.19	24.55	1.3%
Transportation	29.21	37.16	36.77	37.21	37.81	38.51	39.15	39.63	40.32	40.87	41.35	41.77	42.05	42.40	42.75	43.20	43.63	43.85	44.07	44.28	44.47	44.68	2.0%
Total Non-Renewable Expend.	86.53	98.21	97.46	97.74	98.56	99.81	100.64	101.78	103.01	104.10	104.16	105.00	105.27	106.05	106.95	108.01	109.53	109.75	110.60	111.15	111.51	112.23	1.2%
Trans. Renewable Expend.	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	0.20	16.5%
Total Expenditures	86.54	98.24	97.49	97.79	98.61	99.88	100.73	101.88	103.12	104.22	104.30	105.15	105.43	106.22	107.12	108.19	109.71	109.94	110.79	111.34	111.71	112.42	1.2%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 14. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**04 - West North Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Residential</b>	11.24	11.12	11.08	11.02	11.02	11.06	10.94	10.99	11.02	11.08	11.07	11.10	11.02	10.95	10.95	10.95	10.99	10.98	10.99	10.99	10.98	10.97	10.97	-0.1%
Primary Energy 1/	5.85	6.33	6.30	6.27	6.27	6.29	6.29	6.30	6.30	6.28	6.25	6.22	6.20	6.19	6.16	6.13	6.11	6.09	6.08	6.07	6.08	6.11	6.11	0.2%
Petroleum Products 2/	6.55	8.65	8.48	8.47	8.48	8.53	8.50	8.53	8.54	8.59	8.64	8.63	8.63	8.72	8.71	8.70	8.76	8.78	8.82	8.88	8.94	9.02	9.02	1.5%
Distillate Fuel	5.19	6.71	6.58	6.58	6.63	6.64	6.67	6.71	6.75	6.80	6.88	6.87	6.86	6.90	6.91	6.94	6.99	7.00	7.03	7.10	7.16	7.23	7.23	1.5%
Liquefied Petroleum Gas	7.27	9.64	9.45	9.43	9.40	9.46	9.40	9.41	9.41	9.45	9.49	9.47	9.47	9.59	9.57	9.54	9.61	9.63	9.68	9.74	9.80	9.88	9.88	1.4%
Natural Gas	5.74	5.88	5.88	5.86	5.87	5.89	5.91	5.92	5.93	5.90	5.87	5.84	5.83	5.81	5.79	5.76	5.74	5.71	5.70	5.70	5.71	5.73	5.73	0.0%
Electricity	21.59	20.56	20.39	20.17	20.08	20.05	19.55	19.57	19.58	19.70	19.64	19.70	19.43	19.16	19.12	19.11	19.19	19.17	19.14	19.09	18.97	18.82	18.82	-0.6%
<b>Commercial</b>	10.60	10.55	10.45	10.38	10.36	10.35	10.23	10.27	10.29	10.30	10.26	10.27	10.15	10.06	10.03	10.04	10.07	10.06	10.07	10.07	10.06	10.05	10.05	-0.2%
Primary Energy 1/	4.67	5.06	5.04	5.04	5.05	5.08	5.11	5.13	5.15	5.14	5.13	5.11	5.11	5.11	5.10	5.08	5.07	5.06	5.06	5.07	5.10	5.13	5.13	0.4%
Petroleum Products 2/	5.40	7.20	7.02	7.01	7.03	7.07	7.06	7.08	7.11	7.15	7.22	7.20	7.20	7.27	7.26	7.27	7.32	7.33	7.37	7.43	7.48	7.55	7.55	1.5%
Distillate Fuel	3.76	5.02	4.88	4.88	4.93	4.95	4.97	5.01	5.05	5.10	5.18	5.18	5.17	5.20	5.22	5.25	5.29	5.31	5.34	5.41	5.47	5.54	5.54	1.8%
Residual Fuel	2.01	2.62	2.45	2.47	2.48	2.50	2.51	2.53	2.55	2.56	2.58	2.59	2.61	2.63	2.64	2.66	2.68	2.69	2.71	2.72	2.74	2.76	2.76	1.4%
Natural Gas 3/	4.71	4.96	4.96	4.96	4.98	5.00	5.04	5.06	5.08	5.07	5.05	5.03	5.03	5.02	5.01	4.99	4.98	4.97	4.96	4.97	4.99	5.03	5.03	0.3%
Electricity	19.92	19.17	18.86	18.61	18.48	18.37	17.92	17.93	17.93	17.93	17.82	17.84	17.50	17.23	17.16	17.16	17.26	17.24	17.24	17.21	17.13	17.03	17.03	-0.7%
<b>Industrial 4/</b>	5.05	5.46	5.38	5.36	5.37	5.38	5.33	5.35	5.38	5.40	5.42	5.43	5.38	5.36	5.36	5.37	5.39	5.39	5.40	5.42	5.44	5.46	5.46	0.4%
Primary Energy	3.48	4.10	4.04	4.05	4.08	4.11	4.13	4.15	4.18	4.21	4.23	4.23	4.23	4.26	4.26	4.27	4.30	4.30	4.32	4.35	4.39	4.43	4.43	1.1%
Petroleum Products 2/	4.85	5.97	5.81	5.79	5.81	5.83	5.81	5.83	5.86	5.90	5.95	5.93	5.93	5.97	5.97	5.98	6.02	6.03	6.05	6.10	6.14	6.19	6.19	1.1%
Distillate Fuel	4.10	5.53	5.40	5.40	5.45	5.46	5.49	5.53	5.57	5.62	5.70	5.69	5.68	5.72	5.73	5.76	5.81	5.82	5.85	5.92	5.98	6.05	6.05	1.8%
Liquefied Petroleum Gas	6.86	8.63	8.43	8.41	8.38	8.45	8.38	8.39	8.40	8.43	8.47	8.45	8.45	8.57	8.55	8.53	8.60	8.62	8.66	8.72	8.78	8.86	8.86	1.2%
Residual Fuel	2.31	2.65	2.48	2.49	2.51	2.52	2.54	2.56	2.57	2.59	2.61	2.62	2.64	2.65	2.67	2.69	2.70	2.72	2.73	2.75	2.77	2.78	2.78	0.9%
Natural Gas 5/	2.88	3.09	3.13	3.17	3.23	3.29	3.36	3.40	3.44	3.45	3.45	3.45	3.46	3.46	3.46	3.46	3.46	3.47	3.47	3.49	3.52	3.57	3.57	1.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	1.09	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.98	0.97	0.95	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.85	-1.1%
Electricity	12.35	11.96	11.83	11.66	11.55	11.43	11.06	11.06	11.06	11.07	11.05	11.09	10.77	10.54	10.50	10.47	10.46	10.41	10.38	10.32	10.24	10.15	10.15	-0.9%
<b>Transportation</b>	7.70	9.45	9.17	9.13	9.14	9.15	9.17	9.15	9.18	9.20	9.23	9.22	9.22	9.23	9.23	9.23	9.24	9.24	9.23	9.22	9.21	9.20	9.20	0.8%
Primary Energy	7.68	9.43	9.16	9.11	9.13	9.13	9.15	9.13	9.17	9.19	9.22	9.21	9.20	9.21	9.21	9.22	9.23	9.22	9.22	9.21	9.20	9.19	9.19	0.8%
Petroleum Products 2/	7.68	9.44	9.16	9.12	9.14	9.14	9.16	9.14	9.17	9.20	9.22	9.21	9.21	9.22	9.22	9.22	9.24	9.23	9.22	9.22	9.21	9.20	9.20	0.8%
Distillate Fuel 6/	7.36	8.92	8.75	8.73	8.76	8.75	8.76	8.78	8.78	8.80	8.88	8.87	8.86	8.88	8.89	8.92	8.95	8.94	8.94	8.94	8.93	8.93	8.93	0.9%
Jet Fuel 7/	4.37	5.56	5.40	5.42	5.50	5.51	5.55	5.62	5.65	5.69	5.80	5.79	5.78	5.80	5.81	5.84	5.93	5.94	5.93	5.93	5.93	5.93	5.93	1.4%
Motor Gasoline 8/	8.33	10.27	9.93	9.87	9.88	9.90	9.92	9.88	9.93	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.94	9.94	9.93	9.93	0.8%
Residual Fuel	1.67	1.98	1.80	1.81	1.83	1.84	1.86	1.88	1.89	1.91	1.93	1.94	1.96	1.97	1.99	2.01	2.03	2.04	2.06	2.07	2.09	2.11	2.11	1.1%
Liquid Petroleum Gas 9/	10.17	12.85	12.62	12.58	12.52	12.56	12.46	12.44	12.42	12.42	12.43	12.39	12.36	12.46	12.41	12.36	12.40	12.39	12.40	12.44	12.46	12.50	12.50	0.9%
Natural Gas 10/	5.03	5.56	5.52	5.51	5.59	5.71	5.88	6.06	6.25	6.39	6.50	6.59	6.68	6.76	6.80	6.83	6.85	6.86	6.86	6.87	6.89	6.93	6.93	1.5%
Ethanol (E85) 11/	14.35	16.86	16.40	16.33	16.35	16.39	16.44	16.37	16.46	16.50	16.51	16.52	16.52	16.54	16.54	16.55	16.56	16.56	16.57	16.57	16.58	16.57	16.57	0.7%
Methanol (M85) 12/	8.99	11.17	11.06	11.17	13.26	13.28	13.67	13.67	14.07	14.09	14.10	14.12	14.13	14.14	14.16	14.17	14.19	14.20	14.21	14.22	14.23	14.23	14.23	2.1%
Electricity	15.65	15.11	14.84	14.63	14.45	14.19	13.91	13.80	13.75	13.62	13.56	13.53	13.16	12.94	12.80	12.67	12.51	12.43	12.35	12.27	12.14	11.99	11.99	-1.2%
<b>Average End-Use Energy</b>	7.87	8.68	8.53	8.49	8.48	8.49	8.43	8.44	8.47	8.50	8.51	8.52	8.47	8.45	8.44	8.44	8.46	8.46	8.46	8.46	8.45	8.45	8.45	0.3%
Primary Energy	7.65	8.60	8.43	8.38	8.38	8.39	8.34	8.35	8.37	8.40	8.42	8.42	8.38	8.37	8.36	8.36	8.37	8.37	8.37	8.37	8.36	8.36	8.36	0.4%
Electricity	17.99	17.36	17.17	16.95	16.82	16.72	16.27	16.28	16.27	16.32	16.26	16.31	16.00	15.75	15.69	15.67	15.72	15.69	15.66	15.61	15.51	15.39	15.39	-0.7%
<b>Electric Generators 13/</b>																								
Fossil Fuel Average	0.95	0.96	0.96	0.94	0.93	0.93	0.92	0.93	0.93	0.93	0.92	0.93	0.94	0.95	0.95	0.96	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.2%
Petroleum Products	2.37	3.67	3.32	3.52	3.59	3.73	3.70	3.54	3.61	3.50	3.72	3.72	3.82	3.95	3.90	3.85	3.88	3.88	3.97	4.01	4.12	4.15	4.15	2.6%
Distillate Fuel	3.30	4.85	4.72	4.72	4.77	4.79	4.81	4.85	4.89	4.94	5.02	5.01	5.01	5.04	5.06	5.08	5.13	5.14	5.18	5.25	5.30	5.37	5.37	2.2%
Residual Fuel	1.82	2.39	2.21	2.23	2.24	2.26	2.27	2.29	2.31	2.32	2.34	2.35	2.37	2.39	2.40	2.42	2.44	2.45	2.47	2.48	2.50	2.52	2.52	1.5%
Natural Gas	2.16	2.46	2.46	2.49	2.55	2.73	2.84	2.95	2.99	3.05	3.09	3.12	3.15	3.18	3.17	3.17	3.15	3.17	3.17	3.19	3.23	3.28	3.28	1.9%
Steam Coal	0.90	0.91	0.93	0.92	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76	0.76	-0.7%

**Table 14. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**04 - West North Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.00	8.63	8.39	8.36	8.38	8.40	8.40	8.40	8.43	8.45	8.49	8.48	8.48	8.50	8.50	8.50	8.52	8.51	8.52	8.52	8.52	8.53	0.9%
Distillate Fuel	6.37	7.90	7.74	7.73	7.77	7.76	7.77	7.80	7.81	7.84	7.92	7.91	7.89	7.92	7.92	7.95	7.98	7.97	7.98	8.00	8.00	8.02	1.1%
Jet Fuel	4.37	5.56	5.40	5.42	5.50	5.51	5.55	5.62	5.65	5.69	5.80	5.79	5.78	5.80	5.81	5.84	5.93	5.94	5.93	5.93	5.93	5.93	1.4%
Liquefied Petroleum Gas	7.11	9.19	9.00	8.99	8.96	9.03	8.96	8.98	8.98	9.01	9.05	9.03	9.03	9.15	9.12	9.09	9.16	9.18	9.22	9.28	9.28	9.40	1.3%
Motor Gasoline 8/	8.33	10.27	9.93	9.87	9.88	9.90	9.92	9.88	9.93	9.95	9.95	9.95	9.95	9.95	9.95	9.96	9.95	9.95	9.95	9.95	9.94	9.94	0.8%
Residual Fuel	1.99	2.52	2.34	2.38	2.40	2.43	2.44	2.44	2.46	2.46	2.50	2.52	2.53	2.56	2.57	2.58	2.59	2.61	2.64	2.65	2.68	2.69	1.4%
Natural Gas	4.30	4.57	4.62	4.64	4.66	4.68	4.70	4.71	4.72	4.70	4.68	4.65	4.63	4.62	4.59	4.56	4.50	4.48	4.48	4.48	4.50	4.54	0.2%
Coal	0.92	0.93	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	-0.8%
Ethanol (E85) 11/	14.35	16.86	16.40	16.33	16.35	16.39	16.44	16.37	16.46	16.50	16.51	16.52	16.52	16.54	16.54	16.55	16.56	16.56	16.57	16.57	16.58	16.57	0.7%
Methanol (M85) 12/	8.99	11.17	11.06	11.17	13.26	13.28	13.67	13.67	14.07	14.09	14.10	14.12	14.13	14.14	14.16	14.17	14.19	14.20	14.21	14.22	14.23	14.23	2.1%
Electricity	17.99	17.36	17.17	16.95	16.82	16.72	16.27	16.28	16.27	16.32	16.26	16.31	16.00	15.75	15.69	15.67	15.72	15.69	15.66	15.61	15.51	15.39	-0.7%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	9.41	10.04	10.01	9.99	10.02	10.12	10.02	10.10	10.16	10.28	10.29	10.37	10.35	10.37	10.40	10.46	10.55	10.63	10.66	10.72	10.77	10.85	0.6%
Commercial	6.67	6.98	6.99	7.00	7.04	7.08	7.07	7.15	7.22	7.30	7.34	7.41	7.40	7.41	7.44	7.49	7.55	7.57	7.60	7.61	7.60	7.59	0.6%
Industrial	7.04	7.65	7.58	7.66	7.82	7.97	8.03	8.16	8.28	8.39	8.47	8.55	8.51	8.57	8.68	8.80	8.94	8.99	9.08	9.20	9.33	9.47	1.4%
Transportation	14.81	18.87	18.67	18.92	19.27	19.64	20.00	20.26	20.64	20.96	21.27	21.52	21.71	21.94	22.17	22.44	22.71	22.86	23.01	23.16	23.28	23.42	2.1%
Total Non-Renewable Expend.	37.93	43.54	43.25	43.58	44.16	44.81	45.12	45.67	46.30	46.92	47.37	47.86	47.98	48.29	48.68	49.20	49.75	50.05	50.35	50.68	50.98	51.34	1.4%
Trans. Renewable Expend.	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	16.9%
Total Expenditures	37.93	43.55	43.26	43.60	44.18	44.85	45.16	45.71	46.35	46.98	47.43	47.92	48.05	48.36	48.76	49.28	49.84	50.14	50.43	50.77	51.07	51.42	1.4%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 15. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**05 - South Atlantic**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Residential	16.47	16.66	16.44	16.26	16.11	16.04	15.98	16.00	16.03	15.97	15.88	15.90	15.81	15.76	15.77	15.88	15.88	15.87	15.85	15.87	15.83	15.79	-0.2%	
Primary Energy 1/	8.04	8.78	8.63	8.54	8.47	8.43	8.38	8.36	8.33	8.29	8.24	8.17	8.11	8.08	8.03	7.98	7.95	7.90	7.87	7.83	7.80	7.79	-0.1%	
Petroleum Products 2/	8.59	10.84	10.72	10.73	10.78	10.84	10.85	10.90	10.94	11.00	11.08	11.08	11.08	11.16	11.16	11.17	11.23	11.25	11.28	11.36	11.42	11.50	1.3%	
Distillate Fuel	6.18	7.66	7.54	7.53	7.58	7.60	7.62	7.66	7.70	7.75	7.83	7.83	7.82	7.86	7.88	7.92	7.96	7.98	8.00	8.09	8.15	8.22	1.3%	
Liquefied Petroleum Gas	12.26	15.19	14.99	14.97	14.94	15.01	14.94	14.95	14.96	14.99	15.03	15.01	15.01	15.13	15.11	15.09	15.16	15.18	15.22	15.28	15.34	15.42	1.0%	
Natural Gas	7.86	7.86	7.73	7.61	7.51	7.45	7.41	7.39	7.37	7.32	7.25	7.18	7.13	7.08	7.03	6.99	6.96	6.91	6.88	6.84	6.80	6.79	-0.7%	
Electricity	22.00	21.91	21.61	21.33	21.09	20.97	20.89	20.94	20.98	20.90	20.77	20.84	20.70	20.64	20.66	20.85	20.85	20.87	20.83	20.88	20.83	20.76	-0.3%	
Commercial	14.23	14.37	14.11	13.87	13.69	13.55	13.44	13.47	13.50	13.43	13.32	13.34	13.21	13.13	13.13	13.18	13.18	13.17	13.15	13.17	13.10	13.11	-0.4%	
Primary Energy 1/	5.75	6.26	6.15	6.09	6.06	6.05	6.06	6.08	6.10	6.11	6.10	6.08	6.07	6.07	6.06	6.05	6.06	6.05	6.05	6.05	6.06	6.08	0.3%	
Petroleum Products 2/	4.66	6.32	6.17	6.15	6.19	6.21	6.22	6.25	6.28	6.33	6.41	6.41	6.41	6.47	6.49	6.51	6.57	6.59	6.62	6.70	6.76	6.84	1.8%	
Distillate Fuel	3.73	5.11	4.99	4.98	5.03	5.05	5.07	5.11	5.15	5.20	5.28	5.28	5.27	5.31	5.33	5.37	5.41	5.43	5.45	5.54	5.60	5.67	1.9%	
Residual Fuel	2.41	3.30	3.12	3.12	3.12	3.13	3.14	3.16	3.17	3.18	3.20	3.21	3.21	3.23	3.24	3.26	3.28	3.30	3.31	3.32	3.34	3.35	1.5%	
Natural Gas 3/	6.28	6.45	6.35	6.28	6.22	6.20	6.21	6.23	6.26	6.26	6.22	6.19	6.18	6.16	6.14	6.13	6.13	6.11	6.10	6.09	6.08	6.09	-0.1%	
Electricity	18.86	18.76	18.42	18.08	17.80	17.58	17.40	17.41	17.44	17.31	17.13	17.18	16.98	16.85	16.84	16.93	16.92	16.91	16.86	16.90	16.79	16.78	-0.5%	
Industrial 4/	5.15	5.81	5.69	5.63	5.59	5.56	5.55	5.57	5.61	5.62	5.61	5.64	5.62	5.64	5.65	5.70	5.73	5.74	5.75	5.78	5.80	5.83	0.6%	
Primary Energy	2.95	3.81	3.73	3.72	3.73	3.75	3.78	3.82	3.85	3.89	3.91	3.92	3.93	3.96	3.98	4.00	4.04	4.05	4.07	4.09	4.12	4.15	1.6%	
Petroleum Products 2/	3.69	5.43	5.28	5.26	5.28	5.29	5.29	5.31	5.32	5.35	5.39	5.38	5.38	5.43	5.43	5.45	5.49	5.50	5.52	5.55	5.58	5.62	1.9%	
Distillate Fuel	3.93	5.36	5.25	5.24	5.29	5.31	5.33	5.37	5.40	5.45	5.54	5.54	5.53	5.57	5.59	5.62	5.67	5.68	5.71	5.80	5.86	5.93	1.9%	
Liquefied Petroleum Gas	7.92	11.55	11.35	11.33	11.31	11.37	11.30	11.32	11.32	11.36	11.39	11.37	11.38	11.50	11.48	11.45	11.52	11.54	11.58	11.65	11.71	11.79	1.8%	
Residual Fuel	2.45	3.26	3.08	3.08	3.08	3.09	3.10	3.12	3.13	3.14	3.15	3.16	3.17	3.19	3.20	3.22	3.24	3.25	3.27	3.28	3.30	3.31	1.4%	
Natural Gas 5/	2.72	2.94	2.89	2.89	2.90	2.94	3.02	3.09	3.15	3.20	3.21	3.22	3.24	3.26	3.28	3.30	3.34	3.36	3.38	3.39	3.41	3.44	1.1%	
Metallurgical Coal	1.46	1.47	1.45	1.44	1.42	1.40	1.39	1.38	1.37	1.37	1.35	1.35	1.34	1.33	1.32	1.32	1.32	1.30	1.30	1.29	1.28	1.28	-0.6%	
Steam Coal	1.71	1.67	1.64	1.62	1.61	1.59	1.57	1.57	1.55	1.54	1.53	1.51	1.50	1.48	1.47	1.46	1.45	1.43	1.42	1.41	1.40	1.39	-0.9%	
Electricity	12.97	12.90	12.66	12.38	12.10	11.87	11.69	11.65	11.64	11.53	11.40	11.49	11.32	11.21	11.19	11.30	11.29	11.24	11.22	11.24	11.18	11.19	-0.7%	
Transportation	7.38	9.18	8.91	8.87	8.88	8.89	8.91	8.89	8.92	8.94	8.96	8.96	8.96	8.97	8.97	8.97	8.98	8.97	8.97	8.96	8.95	8.94	0.9%	
Primary Energy	7.36	9.17	8.90	8.85	8.87	8.88	8.89	8.87	8.91	8.93	8.95	8.94	8.94	8.95	8.95	8.96	8.97	8.96	8.95	8.95	8.95	8.94	8.93	0.9%
Petroleum Products 2/	7.36	9.17	8.90	8.86	8.87	8.88	8.90	8.87	8.91	8.93	8.95	8.94	8.94	8.95	8.95	8.95	8.96	8.95	8.95	8.94	8.93	8.92	0.9%	
Distillate Fuel 6/	7.23	8.80	8.63	8.61	8.64	8.63	8.64	8.66	8.66	8.68	8.76	8.75	8.73	8.76	8.76	8.79	8.81	8.80	8.79	8.81	8.79	8.79	0.9%	
Jet Fuel 7/	4.25	5.33	5.17	5.18	5.27	5.28	5.32	5.39	5.42	5.46	5.57	5.59	5.60	5.64	5.67	5.72	5.82	5.84	5.84	5.86	5.88	5.88	1.5%	
Motor Gasoline 8/	8.00	10.03	9.71	9.65	9.66	9.68	9.70	9.65	9.71	9.73	9.72	9.72	9.72	9.73	9.72	9.72	9.72	9.72	9.71	9.70	9.70	9.69	0.9%	
Residual Fuel	1.90	2.97	2.79	2.78	2.77	2.77	2.78	2.81	2.82	2.83	2.84	2.85	2.85	2.87	2.88	2.90	2.92	2.93	2.95	2.96	2.98	2.99	2.1%	
Liquid Petroleum Gas 9/	10.67	14.84	14.61	14.56	14.51	14.55	14.45	14.43	14.41	14.41	14.42	14.37	14.35	14.45	14.40	14.35	14.39	14.38	14.39	14.43	14.45	14.49	1.4%	
Natural Gas 10/	5.59	6.06	5.94	5.91	5.93	6.02	6.17	6.35	6.54	6.70	6.79	6.89	6.98	7.05	7.11	7.17	7.21	7.23	7.25	7.25	7.25	7.27	1.2%	
Ethanol (E85) 11/	14.35	18.21	17.65	17.58	17.92	17.96	18.02	17.97	18.07	18.12	18.14	18.16	18.18	18.20	18.22	18.24	18.26	18.27	18.29	18.31	18.32	18.33	1.1%	
Methanol (M85) 12/	8.99	10.79	10.69	10.80	12.89	12.91	13.30	13.30	13.70	13.72	13.73	13.74	13.76	13.77	13.79	13.80	13.82	13.82	13.84	13.84	13.85	13.86	2.0%	
Electricity	14.02	13.97	13.78	13.60	13.46	13.29	13.08	12.97	12.89	12.78	12.67	12.66	12.47	12.36	12.31	12.27	12.18	12.15	12.07	12.07	12.01	11.92	-0.7%	
Average End-Use Energy	9.11	10.21	10.00	9.91	9.85	9.82	9.80	9.80	9.84	9.85	9.83	9.85	9.82	9.81	9.81	9.85	9.86	9.86	9.84	9.85	9.83	9.83	0.3%	
Primary Energy	7.94	9.26	9.04	8.97	8.95	8.93	8.93	8.92	8.96	8.98	8.98	9.00	8.98	8.99	8.99	9.01	9.03	9.03	9.02	9.03	9.02	9.01	0.6%	
Electricity	18.69	18.66	18.38	18.08	17.81	17.64	17.48	17.50	17.53	17.44	17.29	17.36	17.20	17.10	17.09	17.22	17.21	17.21	17.17	17.20	17.13	17.10	-0.4%	
Electric Generators 13/																								
Fossil Fuel Average	1.63	1.66	1.54	1.49	1.43	1.42	1.43	1.45	1.46	1.46	1.44	1.47	1.48	1.49	1.51	1.52	1.54	1.54	1.54	1.53	1.53	1.53	-0.3%	
Petroleum Products	2.20	3.12	2.93	2.92	2.94	2.93	2.95	2.95	2.96	2.98	2.98	3.01	3.03	3.05	3.07	3.09	3.14	3.13	3.15	3.21	3.23	3.25	1.8%	
Distillate Fuel	3.19	4.74	4.62	4.61	4.67	4.68	4.70	4.74	4.78	4.83	4.91	4.91	4.91	4.95	4.97	5.00	5.05	5.06	5.09	5.17	5.23	5.31	2.3%	
Residual Fuel	2.16	3.04	2.86	2.86	2.86	2.86	2.87	2.89	2.91	2.92	2.93	2.94	2.95	2.96	2.98	3.00	3.02	3.03	3.04	3.06	3.07	3.09	1.6%	
Natural Gas	2.44	2.64	2.52	2.55	2.51	2.53	2.59	2.68	2.73	2.81	2.83	2.86	2.92	2.97	3.03	3.10	3.15	3.18	3.23	3.25	3.27	3.30	1.4%	
Steam Coal	1.46	1.43	1.33	1.30	1.25	1.25	1.24	1.25	1.24	1.23	1.21	1.22	1.23	1.22	1.21	1.20	1.21	1.19	1.18	1.16	1.16	1.16	-1.1%	



**Table 15. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**05 - South Atlantic**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.41	8.32	8.10	8.11	8.17	8.22	8.23	8.21	8.25	8.29	8.33	8.34	8.35	8.38	8.38	8.38	8.39	8.40	8.41	8.41	8.41	8.42	1.2%
Distillate Fuel	6.43	8.00	7.86	7.85	7.89	7.89	7.90	7.93	7.95	7.97	8.06	8.05	8.04	8.07	8.08	8.11	8.14	8.14	8.14	8.17	8.18	8.20	1.1%
Jet Fuel	4.25	5.33	5.17	5.18	5.27	5.28	5.32	5.39	5.42	5.46	5.57	5.59	5.60	5.64	5.67	5.72	5.82	5.84	5.84	5.86	5.88	5.88	1.5%
Liquefied Petroleum Gas	10.32	13.56	13.36	13.35	13.32	13.38	13.31	13.32	13.32	13.34	13.37	13.34	13.33	13.44	13.40	13.36	13.42	13.43	13.46	13.51	13.55	13.62	1.3%
Motor Gasoline 8/	8.00	10.03	9.71	9.65	9.66	9.68	9.70	9.65	9.71	9.73	9.72	9.72	9.72	9.73	9.72	9.72	9.72	9.72	9.71	9.70	9.70	9.69	0.9%
Residual Fuel	2.17	3.07	2.89	2.90	2.90	2.90	2.91	2.93	2.95	2.96	2.97	2.98	2.99	3.01	3.02	3.04	3.06	3.07	3.08	3.10	3.11	3.13	1.7%
Natural Gas	4.37	4.56	4.57	4.56	4.51	4.50	4.50	4.52	4.53	4.57	4.57	4.55	4.55	4.54	4.53	4.53	4.55	4.55	4.55	4.55	4.55	4.57	0.2%
Coal	1.48	1.45	1.36	1.32	1.28	1.27	1.27	1.27	1.26	1.25	1.23	1.24	1.24	1.23	1.23	1.22	1.22	1.21	1.20	1.18	1.17	1.17	-1.1%
Ethanol (E85) 11/	14.35	18.21	17.65	17.58	17.92	17.96	18.02	17.97	18.07	18.12	18.14	18.16	18.18	18.20	18.22	18.24	18.26	18.27	18.29	18.31	18.32	18.33	1.1%
Methanol (M85) 12/	8.99	10.79	10.69	10.80	12.89	12.91	13.30	13.30	13.70	13.72	13.73	13.74	13.76	13.77	13.79	13.80	13.82	13.82	13.84	13.84	13.85	13.86	2.0%
Electricity	18.69	18.66	18.38	18.08	17.81	17.64	17.48	17.50	17.53	17.44	17.29	17.36	17.20	17.10	17.09	17.22	17.21	17.21	17.17	17.20	17.13	17.10	-0.4%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	24.65	26.38	26.47	26.63	26.85	27.29	27.60	28.11	28.64	29.14	29.40	29.94	30.16	30.56	30.89	31.49	31.91	32.37	32.63	33.06	33.41	33.84	1.5%
Commercial	17.53	18.59	18.64	18.67	18.73	18.86	19.03	19.35	19.70	19.93	20.10	20.44	20.59	20.77	21.02	21.32	21.51	21.67	21.78	21.94	21.95	22.03	1.0%
Industrial	12.43	14.08	13.85	13.89	14.04	14.20	14.41	14.65	14.90	15.07	15.14	15.37	15.41	15.61	15.84	16.20	16.50	16.64	16.85	17.09	17.32	17.62	1.6%
Transportation	32.77	42.58	42.32	43.09	44.09	45.23	46.33	47.26	48.47	49.57	50.63	51.62	52.48	53.45	54.42	55.55	56.66	57.53	58.38	59.29	60.13	61.02	2.9%
Total Non-Renewable Expend.	87.39	101.63	101.27	102.28	103.72	105.57	107.36	109.38	111.70	113.70	115.28	117.37	118.63	120.38	122.17	124.56	126.59	128.21	129.64	131.38	132.81	134.51	2.0%
Trans. Renewable Expend.	0.01	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.15	0.17	0.18	0.20	0.22	0.23	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.30	18.1%
Total Expenditures	87.39	101.66	101.32	102.33	103.80	105.66	107.47	109.51	111.85	113.87	115.46	117.57	118.85	120.61	122.42	124.82	126.86	128.49	129.92	131.67	133.11	134.81	2.0%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 16. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**06 - East South Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Residential	14.99	14.85	14.70	14.53	14.37	14.32	14.27	14.29	14.31	14.30	14.22	14.24	14.14	14.09	14.08	14.09	14.13	14.11	14.15	14.18	14.12	14.09	-0.3%
Primary Energy 1/	7.03	7.52	7.44	7.38	7.33	7.33	7.32	7.34	7.36	7.35	7.32	7.29	7.27	7.27	7.25	7.24	7.23	7.22	7.22	7.21	7.20	7.20	0.1%
Petroleum Products 2/	9.59	12.11	11.97	11.98	12.01	12.09	12.06	12.10	12.13	12.18	12.25	12.24	12.25	12.35	12.35	12.34	12.41	12.43	12.47	12.54	12.60	12.68	1.3%
Distillate Fuel	5.26	6.85	6.73	6.72	6.78	6.80	6.81	6.85	6.89	6.94	7.02	7.02	7.02	7.06	7.08	7.11	7.16	7.17	7.20	7.28	7.34	7.42	1.6%
Liquefied Petroleum Gas	11.18	13.63	13.45	13.43	13.40	13.46	13.39	13.41	13.41	13.44	13.48	13.45	13.46	13.58	13.55	13.53	13.59	13.61	13.65	13.72	13.77	13.85	1.0%
Natural Gas	6.50	6.60	6.53	6.46	6.41	6.40	6.41	6.44	6.46	6.45	6.42	6.39	6.38	6.37	6.37	6.36	6.36	6.34	6.35	6.33	6.32	6.33	-0.1%
Electricity	20.73	20.45	20.24	19.99	19.74	19.65	19.56	19.59	19.61	19.61	19.48	19.55	19.38	19.29	19.28	19.30	19.38	19.35	19.42	19.50	19.39	19.32	-0.3%
Commercial	11.88	11.76	11.66	11.52	11.43	11.41	11.39	11.45	11.54	11.58	11.51	11.56	11.47	11.44	11.45	11.50	11.59	11.59	11.66	11.70	11.67	11.68	-0.1%
Primary Energy 1/	5.50	5.84	5.77	5.72	5.69	5.70	5.72	5.76	5.80	5.82	5.81	5.80	5.81	5.82	5.82	5.83	5.85	5.85	5.86	5.87	5.88	5.90	0.3%
Petroleum Products 2/	5.76	6.98	6.83	6.83	6.87	6.91	6.92	6.96	7.00	7.06	7.14	7.14	7.14	7.21	7.23	7.25	7.31	7.33	7.36	7.45	7.51	7.59	1.3%
Distillate Fuel	3.47	4.94	4.82	4.81	4.87	4.88	4.90	4.94	4.98	5.03	5.11	5.11	5.11	5.15	5.17	5.20	5.25	5.26	5.29	5.37	5.43	5.50	2.1%
Residual Fuel	2.50	2.86	2.69	2.70	2.71	2.72	2.74	2.77	2.79	2.80	2.81	2.82	2.84	2.86	2.87	2.89	2.90	2.92	2.93	2.95	2.96	2.98	0.8%
Natural Gas 3/	5.58	5.81	5.74	5.69	5.65	5.65	5.68	5.72	5.76	5.78	5.77	5.76	5.76	5.77	5.77	5.78	5.79	5.79	5.80	5.80	5.80	5.82	0.2%
Electricity	19.13	18.71	18.45	18.11	17.85	17.72	17.53	17.51	17.58	17.55	17.33	17.37	17.11	16.96	16.92	16.95	17.10	17.05	17.14	17.20	17.10	17.06	-0.5%
Industrial 4/	5.15	5.74	5.64	5.60	5.56	5.55	5.54	5.58	5.62	5.65	5.65	5.67	5.64	5.66	5.68	5.71	5.75	5.76	5.79	5.83	5.84	5.87	0.6%
Primary Energy	2.86	3.64	3.57	3.56	3.57	3.59	3.62	3.66	3.70	3.74	3.76	3.77	3.79	3.83	3.84	3.87	3.91	3.93	3.95	3.98	4.01	4.04	1.6%
Petroleum Products 2/	3.89	5.52	5.38	5.36	5.38	5.39	5.38	5.40	5.41	5.44	5.48	5.47	5.47	5.52	5.52	5.54	5.58	5.59	5.61	5.65	5.68	5.72	1.8%
Distillate Fuel	3.76	5.28	5.16	5.15	5.21	5.22	5.24	5.28	5.32	5.37	5.45	5.45	5.45	5.49	5.51	5.54	5.58	5.60	5.63	5.71	5.77	5.84	2.0%
Liquefied Petroleum Gas	8.75	9.33	9.15	9.13	9.10	9.16	9.09	9.11	9.11	9.14	9.18	9.16	9.16	9.28	9.25	9.23	9.29	9.31	9.35	9.42	9.47	9.55	0.4%
Residual Fuel	2.26	2.89	2.72	2.73	2.74	2.75	2.77	2.79	2.81	2.83	2.84	2.85	2.87	2.88	2.90	2.91	2.93	2.94	2.96	2.97	2.99	3.01	1.3%
Natural Gas 5/	2.45	2.68	2.65	2.65	2.66	2.71	2.78	2.86	2.93	2.98	3.00	3.02	3.05	3.08	3.11	3.14	3.18	3.20	3.23	3.25	3.28	3.31	1.4%
Metallurgical Coal	1.79	1.82	1.80	1.78	1.76	1.74	1.73	1.71	1.70	1.69	1.67	1.66	1.65	1.64	1.63	1.62	1.62	1.60	1.59	1.57	1.56	1.55	-0.6%
Steam Coal	1.53	1.47	1.43	1.41	1.40	1.37	1.36	1.36	1.34	1.34	1.32	1.32	1.30	1.29	1.28	1.28	1.27	1.26	1.25	1.24	1.24	1.23	-1.0%
Electricity	11.93	11.89	11.73	11.52	11.30	11.15	11.02	11.02	11.01	10.99	10.86	10.88	10.71	10.61	10.60	10.59	10.62	10.57	10.60	10.64	10.56	10.55	-0.6%
Transportation	7.49	9.22	8.96	8.91	8.93	8.93	8.95	8.93	8.96	8.98	9.01	9.00	9.00	9.01	9.01	9.01	9.02	9.01	9.00	9.00	8.99	8.98	0.8%
Primary Energy	7.47	9.21	8.95	8.90	8.92	8.92	8.94	8.92	8.95	8.97	9.00	8.99	8.99	9.00	8.99	9.00	9.01	9.00	8.99	8.99	8.98	8.97	0.8%
Petroleum Products 2/	7.47	9.21	8.95	8.91	8.92	8.93	8.94	8.92	8.95	8.97	9.00	8.99	8.99	9.00	9.00	9.00	9.01	9.00	8.98	8.99	8.98	8.97	0.8%
Distillate Fuel 6/	7.07	8.55	8.38	8.36	8.39	8.38	8.39	8.41	8.41	8.43	8.51	8.49	8.48	8.51	8.51	8.54	8.56	8.55	8.54	8.56	8.54	8.54	0.9%
Jet Fuel 7/	4.00	5.30	5.14	5.16	5.24	5.26	5.29	5.37	5.39	5.44	5.55	5.57	5.58	5.63	5.66	5.72	5.82	5.84	5.84	5.87	5.88	5.89	1.8%
Motor Gasoline 8/	8.31	10.29	9.96	9.90	9.91	9.92	9.95	9.90	9.95	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.96	9.95	9.94	9.95	9.94	9.93	0.8%
Residual Fuel	1.84	2.23	2.05	2.06	2.07	2.07	2.10	2.13	2.15	2.17	2.17	2.19	2.20	2.22	2.23	2.25	2.26	2.28	2.29	2.31	2.32	2.34	1.1%
Liquid Petroleum Gas 9/	10.36	13.39	13.18	13.13	13.08	13.11	13.01	12.99	12.96	12.97	12.98	12.93	12.90	13.00	12.95	12.90	12.94	12.93	12.94	12.97	12.99	13.03	1.0%
Natural Gas 10/	6.12	6.49	6.41	6.39	6.40	6.48	6.59	6.74	6.88	7.00	7.07	7.13	7.20	7.26	7.31	7.35	7.39	7.42	7.44	7.45	7.47	7.49	0.9%
Ethanol (E85) 11/	14.35	16.46	16.02	15.93	15.97	16.00	16.05	15.98	16.06	16.11	16.11	16.12	16.12	16.13	16.14	16.15	16.15	16.15	16.14	16.16	16.16	16.16	0.5%
Methanol (M85) 12/	8.99	11.79	11.68	11.79	13.89	13.91	14.30	14.30	14.70	14.71	14.73	14.74	14.75	14.77	14.78	14.80	14.81	14.82	14.83	14.84	14.85	14.85	2.3%
Electricity	14.06	14.11	13.93	13.76	13.61	13.42	13.18	13.04	12.93	12.81	12.67	12.66	12.44	12.32	12.25	12.16	12.05	12.00	11.92	11.90	11.80	11.71	-0.8%
Average End-Use Energy	7.81	8.77	8.61	8.54	8.50	8.49	8.48	8.50	8.54	8.57	8.57	8.58	8.56	8.56	8.57	8.58	8.62	8.61	8.63	8.65	8.64	8.64	0.5%
Primary Energy	7.30	8.44	8.27	8.21	8.19	8.19	8.18	8.19	8.24	8.27	8.27	8.29	8.27	8.28	8.29	8.30	8.33	8.33	8.34	8.36	8.35	8.36	0.6%
Electricity	16.15	16.05	15.87	15.62	15.37	15.24	15.09	15.09	15.10	15.08	14.94	14.98	14.80	14.69	14.66	14.65	14.70	14.65	14.69	14.73	14.63	14.59	-0.5%
Electric Generators 13/																							
Fossil Fuel Average	1.36	1.24	1.18	1.15	1.13	1.16	1.21	1.26	1.30	1.35	1.38	1.43	1.47	1.49	1.51	1.56	1.60	1.62	1.63	1.66	1.67	1.67	0.9%
Petroleum Products	2.28	2.63	2.36	2.43	2.44	2.46	2.45	2.45	2.47	2.44	2.47	2.46	2.53	2.54	2.55	2.58	2.62	2.62	2.64	2.68	2.71	2.72	0.8%
Distillate Fuel	3.35	5.13	5.01	5.00	5.06	5.07	5.09	5.13	5.17	5.22	5.30	5.30	5.30	5.34	5.36	5.39	5.44	5.45	5.48	5.56	5.62	5.69	2.4%
Residual Fuel	2.19	2.45	2.27	2.29	2.30	2.30	2.33	2.35	2.37	2.39	2.40	2.41	2.42	2.44	2.45	2.47	2.49	2.50	2.52	2.53	2.55	2.56	0.7%
Natural Gas	2.58	2.86	2.74	2.74	2.72	2.94	3.08	3.20	3.32	3.40	3.44	3.48	3.50	3.53	3.56	3.60	3.64	3.67	3.69	3.72	3.74	3.78	1.7%
Steam Coal	1.27	1.17	1.11	1.08	1.06	1.05	1.05	1.05	1.03	1.02	1.01	1.00	1.00	0.98	0.98	0.96	0.96	0.95	0.94	0.92	0.91	0.90	-1.5%

**Table 16. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**06 - East South Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.56	8.25	8.03	8.01	8.04	8.08	8.07	8.04	8.06	8.08	8.13	8.13	8.13	8.15	8.15	8.16	8.18	8.18	8.18	8.19	8.20	8.20	1.0%
Distillate Fuel	6.35	7.86	7.72	7.69	7.73	7.73	7.73	7.76	7.76	7.79	7.87	7.86	7.84	7.87	7.87	7.89	7.92	7.92	7.91	7.94	7.94	7.95	1.0%
Jet Fuel	4.00	5.30	5.14	5.16	5.24	5.26	5.29	5.37	5.39	5.44	5.55	5.57	5.58	5.63	5.66	5.72	5.82	5.84	5.84	5.87	5.88	5.89	1.8%
Liquefied Petroleum Gas	9.91	11.33	11.16	11.14	11.12	11.19	11.12	11.13	11.13	11.16	11.18	11.15	11.15	11.26	11.22	11.18	11.24	11.25	11.28	11.34	11.38	11.44	0.7%
Motor Gasoline 8/	8.31	10.29	9.96	9.90	9.91	9.92	9.95	9.90	9.95	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.96	9.95	9.94	9.95	9.94	9.93	0.8%
Residual Fuel	2.12	2.42	2.25	2.26	2.27	2.27	2.29	2.32	2.34	2.36	2.37	2.39	2.40	2.42	2.43	2.45	2.46	2.47	2.49	2.50	2.51	2.51	0.8%
Natural Gas	3.78	4.18	4.13	4.12	4.08	4.04	4.05	4.07	4.10	4.11	4.10	4.09	4.09	4.10	4.11	4.12	4.13	4.15	4.16	4.17	4.18	4.22	0.5%
Coal	1.31	1.19	1.13	1.11	1.09	1.08	1.07	1.07	1.06	1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	-1.5%
Ethanol (E85) 11/	14.35	16.46	16.02	15.93	15.97	16.00	16.05	15.98	16.06	16.11	16.11	16.12	16.12	16.13	16.14	16.15	16.15	16.15	16.14	16.16	16.16	16.16	0.5%
Methanol (M85) 12/	8.99	11.79	11.68	11.79	13.89	13.91	14.30	14.30	14.70	14.71	14.73	14.74	14.75	14.77	14.78	14.80	14.81	14.82	14.83	14.84	14.85	14.85	2.3%
Electricity	16.15	16.05	15.87	15.62	15.37	15.24	15.09	15.09	15.10	15.08	14.94	14.98	14.80	14.69	14.66	14.65	14.70	14.65	14.69	14.73	14.63	14.59	-0.5%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	8.59	9.13	9.13	9.12	9.13	9.22	9.27	9.37	9.48	9.61	9.63	9.74	9.76	9.85	9.90	10.00	10.12	10.20	10.28	10.38	10.43	10.53	0.9%
Commercial	3.95	4.16	4.21	4.23	4.27	4.33	4.39	4.48	4.59	4.67	4.72	4.81	4.85	4.90	4.96	5.03	5.11	5.14	5.19	5.23	5.24	5.25	1.3%
Industrial	8.93	9.86	9.72	9.76	9.87	9.99	10.13	10.32	10.49	10.64	10.69	10.82	10.84	10.97	11.15	11.34	11.57	11.66	11.84	12.02	12.16	12.36	1.5%
Transportation	12.82	16.44	16.32	16.56	16.89	17.24	17.59	17.84	18.19	18.49	18.78	19.03	19.21	19.43	19.66	19.94	20.20	20.37	20.51	20.72	20.88	21.05	2.3%
Total Non-Renewable Expend.	34.29	39.60	39.38	39.67	40.16	40.79	41.38	42.03	42.75	43.41	43.82	44.40	44.66	45.15	45.67	46.31	46.99	47.38	47.83	48.36	48.71	49.19	1.7%
Trans. Renewable Expend.	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	16.9%
Total Expenditures	34.30	39.61	39.39	39.69	40.18	40.82	41.41	42.06	42.79	43.46	43.87	44.46	44.72	45.21	45.74	46.38	47.07	47.45	47.90	48.44	48.79	49.27	1.7%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 17. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**07 - West South Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Residential	14.84	14.42	14.21	14.04	14.12	14.22	14.11	14.18	14.31	14.24	14.02	14.06	13.90	13.81	13.75	13.85	13.93	13.95	14.01	14.10	14.12	14.24	-0.2%
Primary Energy 1/	6.46	6.67	6.61	6.54	6.49	6.48	6.48	6.51	6.53	6.52	6.50	6.47	6.46	6.46	6.44	6.43	6.42	6.41	6.40	6.39	6.38	6.38	-0.1%
Petroleum Products 2/	9.75	12.53	12.35	12.33	12.30	12.36	12.29	12.30	12.30	12.33	12.37	12.35	12.35	12.46	12.44	12.41	12.47	12.49	12.53	12.59	12.64	12.72	1.2%
Distillate Fuel	5.07	5.88	5.76	5.75	5.80	5.82	5.84	5.88	5.92	5.97	6.05	6.05	6.04	6.08	6.10	6.14	6.19	6.20	6.24	6.31	6.37	6.44	1.1%
Liquefied Petroleum Gas	9.82	12.62	12.44	12.42	12.39	12.45	12.38	12.39	12.40	12.43	12.47	12.44	12.45	12.56	12.54	12.52	12.58	12.60	12.64	12.71	12.76	12.84	1.2%
Natural Gas	6.21	6.26	6.21	6.15	6.10	6.09	6.11	6.14	6.17	6.17	6.16	6.13	6.13	6.12	6.12	6.11	6.10	6.09	6.09	6.08	6.07	6.08	-0.1%
Electricity	21.14	20.82	20.38	20.03	20.15	20.24	19.93	19.96	20.09	19.86	19.40	19.39	19.08	18.90	18.75	18.89	18.99	19.01	19.08	19.23	19.24	19.40	-0.4%
Commercial	13.45	13.30	12.93	12.72	12.76	12.84	12.71	12.79	12.92	12.86	12.65	12.64	12.46	12.35	12.27	12.36	12.44	12.46	12.52	12.60	12.61	12.73	-0.2%
Primary Energy 1/	4.63	4.92	4.87	4.83	4.80	4.80	4.83	4.88	4.93	4.95	4.95	4.95	4.96	4.98	4.99	5.01	5.02	5.03	5.05	5.05	5.07	5.10	0.4%
Petroleum Products 2/	4.70	6.12	5.97	5.96	6.00	6.03	6.04	6.08	6.11	6.16	6.24	6.23	6.24	6.29	6.30	6.32	6.38	6.40	6.43	6.50	6.56	6.63	1.6%
Distillate Fuel	3.36	4.75	4.63	4.63	4.68	4.69	4.71	4.75	4.79	4.84	4.92	4.92	4.92	4.96	4.98	5.01	5.06	5.08	5.11	5.18	5.24	5.32	2.1%
Residual Fuel	2.50	2.57	2.40	2.41	2.43	2.45	2.46	2.48	2.50	2.52	2.53	2.55	2.57	2.58	2.60	2.62	2.64	2.65	2.67	2.69	2.70	2.72	0.4%
Natural Gas 3/	4.62	4.84	4.80	4.75	4.72	4.73	4.76	4.81	4.85	4.88	4.88	4.87	4.88	4.90	4.91	4.93	4.94	4.95	4.97	4.97	4.98	5.01	0.4%
Electricity	19.30	19.17	18.53	18.17	18.26	18.38	18.09	18.16	18.33	18.18	17.78	17.76	17.41	17.19	17.03	17.15	17.26	17.29	17.37	17.49	17.50	17.67	-0.4%
Industrial 4/	4.38	5.14	5.04	5.01	5.01	5.04	5.04	5.08	5.13	5.17	5.19	5.19	5.19	5.25	5.25	5.27	5.32	5.35	5.38	5.42	5.45	5.50	1.0%
Primary Energy	3.89	4.68	4.59	4.58	4.56	4.59	4.59	4.62	4.67	4.71	4.74	4.74	4.76	4.83	4.84	4.85	4.90	4.92	4.95	4.99	5.02	5.07	1.2%
Petroleum Products 2/	5.35	6.51	6.34	6.32	6.30	6.34	6.28	6.29	6.30	6.33	6.36	6.34	6.34	6.44	6.43	6.42	6.49	6.50	6.53	6.58	6.62	6.68	1.0%
Distillate Fuel	3.77	5.14	5.03	5.02	5.07	5.09	5.11	5.15	5.18	5.23	5.32	5.32	5.31	5.35	5.37	5.40	5.45	5.47	5.50	5.58	5.64	5.71	1.9%
Liquefied Petroleum Gas	6.85	7.48	7.30	7.28	7.25	7.31	7.24	7.25	7.26	7.29	7.32	7.30	7.31	7.42	7.40	7.37	7.44	7.46	7.50	7.57	7.62	7.70	0.5%
Residual Fuel	3.61	2.91	2.73	2.75	2.77	2.79	2.80	2.82	2.84	2.85	2.87	2.89	2.90	2.92	2.94	2.96	2.98	2.99	3.01	3.03	3.04	3.06	-0.7%
Natural Gas 5/	2.35	2.57	2.56	2.55	2.57	2.61	2.68	2.76	2.83	2.88	2.90	2.92	2.96	2.99	3.02	3.06	3.10	3.12	3.15	3.17	3.20	3.25	1.5%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	1.44	1.39	1.32	1.31	1.30	1.30	1.29	1.28	1.28	1.27	1.26	1.26	1.25	1.24	1.23	1.23	1.22	1.22	1.21	1.20	1.19	1.20	-0.8%
Electricity	11.30	11.47	11.21	11.04	11.13	11.24	11.14	11.27	11.46	11.47	11.29	11.29	11.05	10.88	10.76	10.83	10.88	10.87	10.92	10.96	10.94	11.05	-0.1%
Transportation	6.60	8.33	8.08	8.04	8.05	8.05	8.06	8.04	8.07	8.08	8.11	8.09	8.09	8.10	8.09	8.10	8.11	8.10	8.09	8.08	8.06	8.05	0.9%
Primary Energy	6.59	8.32	8.07	8.03	8.05	8.04	8.05	8.03	8.06	8.07	8.10	8.08	8.07	8.08	8.08	8.08	8.10	8.09	8.08	8.07	8.05	8.04	0.9%
Petroleum Products 2/	6.59	8.33	8.08	8.04	8.05	8.05	8.05	8.04	8.06	8.07	8.10	8.08	8.07	8.08	8.08	8.08	8.10	8.08	8.07	8.06	8.04	8.03	0.9%
Distillate Fuel 6/	7.11	8.55	8.38	8.36	8.39	8.38	8.39	8.41	8.41	8.43	8.51	8.50	8.48	8.51	8.51	8.54	8.57	8.56	8.55	8.56	8.54	8.54	0.8%
Jet Fuel 7/	3.63	5.03	4.87	4.89	4.97	4.99	5.02	5.10	5.12	5.17	5.28	5.30	5.31	5.36	5.39	5.44	5.55	5.57	5.58	5.59	5.60	5.62	2.0%
Motor Gasoline 8/	8.14	10.34	10.02	9.96	9.98	10.00	10.01	9.97	10.02	10.04	10.04	10.03	10.03	10.04	10.04	10.04	10.04	10.03	10.03	10.02	10.01	10.00	0.9%
Residual Fuel	2.21	2.89	2.72	2.74	2.75	2.77	2.79	2.80	2.82	2.84	2.86	2.88	2.89	2.91	2.93	2.95	2.97	2.98	3.00	3.02	3.04	3.06	1.5%
Liquid Petroleum Gas 9/	11.66	12.27	12.06	12.01	11.96	11.99	11.89	11.87	11.85	11.85	11.86	11.81	11.79	11.88	11.83	11.78	11.82	11.81	11.82	11.85	11.87	11.91	0.1%
Natural Gas 10/	4.29	4.86	4.76	4.72	4.75	4.87	5.06	5.30	5.56	5.76	5.92	6.05	6.18	6.30	6.39	6.46	6.52	6.56	6.59	6.61	6.63	6.66	2.0%
Ethanol (E85) 11/	14.35	17.82	17.31	17.24	17.57	17.61	17.66	17.61	17.69	17.74	17.76	17.77	17.78	17.80	17.81	17.83	17.85	17.85	17.87	17.87	17.88	17.89	1.0%
Methanol (M85) 12/	8.99	12.21	12.10	12.21	14.30	14.32	14.71	14.71	15.11	15.13	15.14	15.16	15.17	15.18	15.20	15.21	15.23	15.24	15.25	15.26	15.27	15.27	2.4%
Electricity	12.67	12.72	12.53	12.38	12.34	12.29	12.21	12.27	12.37	12.47	12.36	12.33	12.06	11.92	11.79	11.74	11.69	11.61	11.55	11.47	11.35	11.28	-0.5%
Average End-Use Energy	6.24	7.24	7.08	7.04	7.04	7.07	7.05	7.08	7.14	7.16	7.16	7.17	7.15	7.18	7.18	7.20	7.25	7.27	7.30	7.33	7.34	7.39	0.8%
Primary Energy	5.66	6.76	6.60	6.57	6.57	6.59	6.58	6.61	6.66	6.69	6.70	6.70	6.70	6.73	6.73	6.75	6.80	6.82	6.84	6.86	6.88	6.91	0.9%
Electricity	17.14	17.12	16.72	16.43	16.51	16.62	16.38	16.46	16.61	16.50	16.18	16.18	15.89	15.71	15.57	15.67	15.75	15.77	15.83	15.93	15.93	16.07	-0.3%
Electric Generators 13/																							
Fossil Fuel Average	1.71	1.80	1.74	1.72	1.74	1.74	1.77	1.81	1.86	1.90	1.91	1.93	1.95	1.97	1.99	2.01	2.05	2.07	2.09	2.10	2.12	2.14	1.0%
Petroleum Products	2.58	3.72	3.50	3.63	3.74	3.83	3.88	3.83	3.86	3.91	3.99	4.09	4.17	4.19	4.19	4.20	4.30	4.38	4.42	4.43	4.51	4.55	2.6%
Distillate Fuel	3.59	4.68	4.56	4.56	4.61	4.63	4.65	4.69	4.72	4.77	4.85	4.85	4.85	4.89	4.91	4.94	4.99	5.01	5.04	5.12	5.18	5.25	1.7%
Residual Fuel	2.49	3.27	3.09	3.11	3.13	3.14	3.16	3.18	3.20	3.21	3.23	3.25	3.26	3.28	3.30	3.31	3.33	3.35	3.37	3.38	3.40	3.42	1.4%
Natural Gas	2.23	2.48	2.45	2.44	2.43	2.46	2.53	2.62	2.70	2.75	2.78	2.81	2.85	2.88	2.92	2.95	3.00	3.04	3.07	3.09	3.12	3.17	1.6%
Steam Coal	1.27	1.27	1.22	1.20	1.19	1.17	1.15	1.13	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	-1.2%

**Table 17. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**07 - West South Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.13	7.58	7.38	7.36	7.36	7.37	7.35	7.35	7.37	7.39	7.42	7.41	7.41	7.46	7.45	7.45	7.50	7.50	7.51	7.52	7.54	7.55	1.0%
Distillate Fuel	6.37	7.81	7.66	7.64	7.68	7.67	7.68	7.70	7.71	7.74	7.82	7.81	7.80	7.82	7.83	7.85	7.89	7.88	7.89	7.90	7.90	7.92	1.0%
Jet Fuel	3.63	5.03	4.87	4.89	4.97	4.99	5.02	5.10	5.12	5.17	5.28	5.30	5.31	5.36	5.39	5.44	5.55	5.57	5.58	5.59	5.60	5.62	2.0%
Liquefied Petroleum Gas	6.92	7.59	7.41	7.38	7.36	7.42	7.35	7.36	7.36	7.39	7.43	7.40	7.41	7.52	7.50	7.47	7.54	7.56	7.60	7.66	7.71	7.79	0.5%
Motor Gasoline 8/	8.14	10.34	10.02	9.96	9.98	10.00	10.01	9.97	10.02	10.04	10.03	10.03	10.03	10.04	10.04	10.04	10.03	10.03	10.03	10.02	10.01	10.00	0.9%
Residual Fuel	2.31	2.91	2.73	2.75	2.76	2.78	2.79	2.81	2.83	2.85	2.86	2.88	2.90	2.91	2.93	2.95	2.97	2.98	3.00	3.02	3.04	3.06	1.3%
Natural Gas	2.65	2.94	2.92	2.91	2.90	2.93	2.99	3.06	3.13	3.17	3.20	3.21	3.24	3.28	3.30	3.33	3.36	3.39	3.42	3.44	3.47	3.51	1.3%
Coal	1.28	1.27	1.22	1.20	1.19	1.17	1.15	1.13	1.12	1.11	1.08	1.08	1.07	1.06	1.05	1.03	1.02	1.02	1.01	1.00	0.98	0.98	-1.2%
Ethanol (E85) 11/	14.35	17.82	17.31	17.24	17.57	17.61	17.66	17.61	17.69	17.74	17.76	17.77	17.78	17.80	17.81	17.83	17.85	17.85	17.87	17.87	17.88	17.89	1.0%
Methanol (M85) 12/	8.99	12.21	12.10	12.21	14.30	14.32	14.71	14.71	15.11	15.13	15.14	15.16	15.17	15.18	15.20	15.21	15.23	15.24	15.25	15.26	15.27	15.27	2.4%
Electricity	17.14	17.12	16.72	16.43	16.51	16.62	16.38	16.46	16.61	16.50	16.18	16.18	15.89	15.71	15.57	15.67	15.75	15.77	15.83	15.93	15.93	16.07	-0.3%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	13.91	15.06	15.01	15.01	15.26	15.57	15.59	15.83	16.13	16.28	16.21	16.43	16.47	16.63	16.74	17.06	17.37	17.65	17.88	18.21	18.46	18.88	1.4%
Commercial	10.06	10.68	10.60	10.59	10.76	10.96	11.02	11.22	11.47	11.59	11.58	11.73	11.73	11.78	11.84	12.02	12.17	12.26	12.37	12.48	12.52	12.64	1.0%
Industrial	28.09	32.72	32.31	32.58	33.32	34.14	34.70	35.49	36.26	36.93	37.35	37.76	38.02	38.87	39.39	40.06	40.91	41.39	42.04	42.69	43.40	44.32	2.1%
Transportation	24.83	32.81	32.62	33.28	34.13	35.01	35.84	36.64	37.52	38.36	39.22	39.97	40.59	41.34	42.05	42.92	43.81	44.44	45.06	45.71	46.31	46.95	2.9%
Total Non-Renewable Expend.	76.89	91.28	90.54	91.46	93.48	95.69	97.15	99.18	101.38	103.16	104.35	105.89	106.81	108.62	110.02	112.06	114.27	115.75	117.36	119.08	120.69	122.79	2.2%
Trans. Renewable Expend.	0.00	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	17.7%
Total Expenditures	76.90	91.30	90.56	91.49	93.52	95.74	97.22	99.26	101.46	103.25	104.45	106.00	106.93	108.75	110.15	112.20	114.42	115.90	117.51	119.24	120.85	122.95	2.2%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 18. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**08 - Mountain**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Residential</b>	12.81	12.95	12.83	12.80	12.98	13.04	13.01	13.09	13.22	13.24	13.23	13.25	13.21	13.22	13.21	13.18	13.15	13.14	13.09	13.08	13.05	13.05	0.1%
Primary Energy 1/	5.86	6.05	5.98	5.97	6.08	6.19	6.24	6.30	6.37	6.41	6.41	6.41	6.40	6.38	6.35	6.31	6.30	6.30	6.31	6.31	6.31	6.32	0.3%
Petroleum Products 2/	8.29	11.10	10.96	10.98	10.99	11.07	11.04	11.08	11.10	11.15	11.21	11.19	11.19	11.29	11.27	11.25	11.32	11.33	11.37	11.44	11.49	11.57	1.5%
Distillate Fuel	5.59	7.21	7.09	7.09	7.14	7.16	7.17	7.21	7.25	7.30	7.38	7.33	7.28	7.28	7.26	7.26	7.28	7.27	7.28	7.33	7.37	7.43	1.3%
Liquefied Petroleum Gas	9.13	12.27	12.09	12.07	12.04	12.10	12.03	12.05	12.05	12.08	12.12	12.09	12.10	12.22	12.19	12.17	12.23	12.25	12.29	12.29	12.36	12.41	1.4%
Natural Gas	5.63	5.54	5.49	5.47	5.60	5.72	5.78	5.85	5.93	5.97	5.98	5.98	5.98	5.95	5.93	5.89	5.88	5.89	5.90	5.91	5.91	5.91	0.2%
Electricity	22.65	23.00	22.72	22.64	22.83	22.73	22.52	22.56	22.73	22.67	22.60	22.60	22.44	22.42	22.38	22.28	22.14	22.06	21.85	21.75	21.61	21.56	-0.2%
<b>Commercial</b>	11.73	11.92	11.79	11.74	11.91	11.95	11.98	12.11	12.21	12.15	12.15	12.18	12.11	12.11	12.12	12.14	12.10	12.09	12.05	12.00	11.93	11.92	0.1%
Primary Energy 1/	4.57	4.77	4.72	4.73	4.85	4.96	5.02	5.10	5.18	5.24	5.27	5.28	5.28	5.27	5.25	5.23	5.23	5.24	5.26	5.27	5.28	5.30	0.7%
Petroleum Products 2/	5.47	6.96	6.80	6.79	6.82	6.85	6.86	6.89	6.93	6.97	7.04	7.00	6.97	6.98	6.97	6.96	6.99	6.98	6.99	7.04	7.08	7.13	1.2%
Distillate Fuel	4.10	5.45	5.33	5.33	5.38	5.39	5.41	5.45	5.49	5.54	5.62	5.57	5.52	5.52	5.50	5.50	5.52	5.51	5.52	5.57	5.61	5.66	1.5%
Residual Fuel	2.50	2.60	2.43	2.45	2.46	2.48	2.49	2.51	2.53	2.54	2.56	2.57	2.59	2.61	2.62	2.64	2.66	2.67	2.69	2.70	2.72	2.74	0.4%
Natural Gas 3/	4.57	4.63	4.61	4.61	4.76	4.88	4.95	5.04	5.14	5.20	5.22	5.24	5.25	5.24	5.22	5.20	5.20	5.21	5.23	5.24	5.25	5.26	0.6%
Electricity	18.81	19.07	18.82	18.67	18.81	18.71	18.64	18.77	18.83	18.60	18.53	18.55	18.35	18.35	18.37	18.42	18.33	18.27	18.17	18.05	17.89	17.83	-0.2%
<b>Industrial 4/</b>	5.16	5.86	5.78	5.77	5.87	5.91	5.93	5.99	6.04	6.05	6.07	6.07	6.04	6.04	6.04	6.04	6.05	6.05	6.06	6.07	6.07	6.10	0.8%
Primary Energy	3.16	3.98	3.93	3.95	4.03	4.10	4.13	4.18	4.24	4.30	4.34	4.34	4.35	4.36	4.35	4.35	4.38	4.39	4.42	4.45	4.48	4.52	1.6%
Petroleum Products 2/	4.22	5.85	5.70	5.68	5.70	5.72	5.71	5.73	5.76	5.79	5.85	5.81	5.79	5.80	5.79	5.78	5.81	5.80	5.82	5.85	5.89	5.93	1.6%
Distillate Fuel	4.27	5.82	5.70	5.69	5.74	5.76	5.78	5.82	5.86	5.90	5.99	5.93	5.89	5.88	5.87	5.86	5.89	5.87	5.88	5.88	5.93	5.97	1.6%
Liquefied Petroleum Gas	6.48	8.53	8.35	8.32	8.30	8.36	8.29	8.30	8.30	8.34	8.37	8.35	8.35	8.47	8.45	8.42	8.49	8.51	8.55	8.62	8.67	8.75	1.4%
Residual Fuel	2.85	3.17	3.00	3.02	3.03	3.05	3.06	3.08	3.10	3.11	3.13	3.14	3.16	3.18	3.19	3.21	3.23	3.24	3.26	3.27	3.29	3.31	0.7%
Natural Gas 5/	2.36	2.40	2.41	2.47	2.68	2.85	2.96	3.07	3.20	3.28	3.33	3.37	3.41	3.41	3.42	3.42	3.45	3.49	3.54	3.58	3.60	3.63	2.0%
Metallurgical Coal	1.93	1.98	1.96	1.94	1.92	1.91	1.89	1.87	1.86	1.84	1.82	1.81	1.80	1.78	1.77	1.76	1.76	1.74	1.72	1.71	1.69	1.68	-0.6%
Steam Coal	1.30	1.28	1.29	1.30	1.30	1.29	1.27	1.26	1.25	1.24	1.22	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.12	1.11	-0.7%
Electricity	11.97	12.20	12.04	11.87	11.99	11.90	11.84	11.91	11.92	11.74	11.67	11.66	11.49	11.44	11.41	11.39	11.33	11.27	11.20	11.11	11.01	11.00	-0.4%
<b>Transportation</b>	8.26	9.87	9.63	9.58	9.60	9.61	9.63	9.61	9.65	9.67	9.70	9.69	9.69	9.69	9.69	9.69	9.70	9.69	9.68	9.67	9.65	9.64	0.7%
Primary Energy	8.24	9.86	9.61	9.57	9.58	9.59	9.61	9.59	9.63	9.65	9.68	9.67	9.66	9.67	9.66	9.67	9.68	9.67	9.66	9.65	9.63	9.62	0.7%
Petroleum Products 2/	8.24	9.86	9.62	9.58	9.60	9.60	9.62	9.60	9.64	9.66	9.69	9.68	9.67	9.68	9.67	9.67	9.68	9.67	9.66	9.65	9.64	9.63	0.7%
Distillate Fuel 6/	7.83	9.25	9.09	9.07	9.10	9.09	9.10	9.12	9.12	9.14	9.22	9.20	9.19	9.21	9.22	9.24	9.27	9.26	9.26	9.26	9.25	9.25	0.8%
Jet Fuel 7/	4.61	5.81	5.65	5.67	5.75	5.76	5.80	5.87	5.90	5.94	6.05	6.02	5.98	5.98	5.97	5.99	6.06	6.05	6.04	6.03	6.02	6.01	1.2%
Motor Gasoline 8/	9.21	11.05	10.73	10.67	10.68	10.69	10.71	10.67	10.72	10.74	10.74	10.73	10.73	10.74	10.73	10.73	10.73	10.73	10.72	10.71	10.71	10.70	0.7%
Residual Fuel	2.14	3.06	3.23	3.38	3.56	3.70	3.81	3.96	4.09	4.13	4.17	4.19	4.21	4.23	4.27	4.28	4.28	4.30	4.34	4.47	4.38	4.43	3.4%
Liquid Petroleum Gas 9/	10.50	12.69	12.49	12.44	12.38	12.41	12.31	12.30	12.27	12.27	12.28	12.23	12.21	12.30	12.25	12.20	12.24	12.23	12.24	12.27	12.29	12.34	0.7%
Natural Gas 10/	4.81	5.29	5.28	5.33	5.51	5.70	5.88	6.09	6.34	6.53	6.68	6.80	6.90	6.96	7.01	7.03	7.05	7.08	7.10	7.10	7.11	7.13	1.8%
Ethanol (E85) 11/	14.35	18.37	17.81	17.75	18.08	18.12	18.19	18.13	18.23	18.28	18.30	18.32	18.34	18.36	18.38	18.40	18.42	18.43	18.45	18.46	18.48	18.49	1.2%
Methanol (M85) 12/	8.99	12.19	12.09	12.20	14.29	14.31	14.70	14.70	15.10	15.12	15.13	15.14	15.15	15.17	15.18	15.20	15.21	15.22	15.23	15.24	15.25	15.26	2.4%
Electricity	16.24	16.20	15.99	15.89	15.87	15.72	15.41	15.37	15.44	15.23	15.16	15.12	14.96	14.92	14.84	14.69	14.57	14.47	14.36	14.24	14.18	14.11	-0.6%
<b>Average End-Use Energy</b>	8.45	9.50	9.35	9.32	9.41	9.44	9.45	9.49	9.55	9.57	9.60	9.60	9.58	9.59	9.58	9.57	9.57	9.56	9.55	9.54	9.52	9.53	0.5%
Primary Energy	8.14	9.33	9.16	9.14	9.21	9.23	9.25	9.27	9.33	9.35	9.38	9.38	9.36	9.37	9.36	9.36	9.36	9.35	9.34	9.34	9.32	9.33	0.6%
Electricity	17.60	18.01	17.82	17.69	17.83	17.74	17.63	17.72	17.80	17.65	17.59	17.60	17.43	17.41	17.38	17.35	17.25	17.19	17.06	16.96	16.83	16.79	-0.2%
<b>Electric Generators 13/</b>																							
Fossil Fuel Average	1.10	1.20	1.17	1.16	1.14	1.12	1.12	1.11	1.11	1.10	1.08	1.06	1.05	1.04	1.03	1.01	0.99	0.97	0.95	0.93	0.91	0.90	-0.9%
Petroleum Products	3.51	5.52	5.40	5.39	5.44	5.46	5.48	5.52	5.56	5.60	5.69	5.63	5.59	5.58	5.57	5.57	5.59	5.57	5.59	5.64	5.68	5.73	2.2%
Distillate Fuel	4.23	5.52	5.40	5.39	5.44	5.46	5.48	5.52	5.56	5.61	5.69	5.64	5.59	5.59	5.57	5.57	5.59	5.58	5.59	5.64	5.68	5.73	1.4%
Residual Fuel	2.16	4.21	4.03	4.05	4.07	4.08	4.10	4.11	4.13	4.15	4.16	4.18	4.19	4.21	4.23	4.24	4.26	4.28	4.29	4.31	4.33	4.34	3.2%
Natural Gas	2.21	2.49	2.53	2.63	2.84	3.05	3.24	3.36	3.47	3.59	3.65	3.69	3.73	3.74	3.73	3.71	3.70	3.68	3.65	3.61	3.58	3.58	2.2%
Steam Coal	1.01	1.00	0.96	0.94	0.93	0.91	0.89	0.87	0.85	0.84	0.82	0.81	0.80	0.78	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	-1.7%

**Table 18. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**08 - Mountain**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Average Price to All Users 14/																								
Petroleum Products 2/	7.47	9.13	8.92	8.89	8.92	8.94	8.96	8.96	8.99	9.02	9.07	9.05	9.04	9.05	9.05	9.05	9.07	9.06	9.06	9.07	9.07	9.07	0.9%	
Distillate Fuel	6.85	8.32	8.17	8.16	8.21	8.21	8.22	8.25	8.26	8.29	8.37	8.35	8.32	8.34	8.34	8.36	8.39	8.39	8.39	8.41	8.41	8.43	0.9%	
Jet Fuel	4.61	5.81	5.65	5.67	5.75	5.76	5.80	5.87	5.90	5.94	6.05	6.02	5.98	5.98	5.97	5.99	6.06	6.05	6.04	6.03	6.02	6.01	1.2%	
Liquefied Petroleum Gas	7.75	10.20	10.04	10.03	10.02	10.10	10.04	10.07	10.07	10.10	10.14	10.12	10.11	10.22	10.18	10.15	10.21	10.22	10.25	10.20	10.30	10.35	10.42	1.4%
Motor Gasoline 8/	9.21	11.05	10.73	10.67	10.68	10.69	10.71	10.67	10.72	10.74	10.74	10.73	10.73	10.73	10.73	10.73	10.73	10.73	10.72	10.71	10.71	10.70	0.7%	
Residual Fuel	2.68	3.15	2.98	3.00	3.01	3.03	3.04	3.06	3.07	3.09	3.11	3.12	3.14	3.15	3.17	3.18	3.20	3.22	3.23	3.25	3.27	3.28	0.9%	
Natural Gas	3.74	3.69	3.71	3.76	3.97	4.16	4.26	4.38	4.47	4.57	4.62	4.66	4.68	4.68	4.67	4.66	4.67	4.69	4.71	4.72	4.73	4.75	1.1%	
Coal	1.03	1.01	0.98	0.96	0.94	0.92	0.90	0.89	0.87	0.86	0.84	0.83	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.72	0.71	-1.7%	
Ethanol (E85) 11/	14.35	18.37	17.81	17.75	18.08	18.12	18.19	18.13	18.23	18.28	18.30	18.32	18.34	18.36	18.38	18.40	18.42	18.43	18.45	18.46	18.48	18.49	1.2%	
Methanol (M85) 12/	8.99	12.19	12.09	12.20	14.29	14.31	14.70	14.70	15.10	15.12	15.13	15.14	15.15	15.17	15.18	15.20	15.21	15.22	15.23	15.24	15.25	15.26	2.4%	
Electricity	17.60	18.01	17.82	17.69	17.83	17.74	17.63	17.72	17.80	17.65	17.59	17.60	17.43	17.41	17.38	17.35	17.25	17.19	17.06	16.96	16.83	16.79	-0.2%	
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																								
Residential	6.50	7.20	7.30	7.45	7.69	7.89	8.01	8.19	8.39	8.56	8.66	8.80	8.85	8.96	9.02	9.10	9.17	9.28	9.31	9.40	9.49	9.63	1.8%	
Commercial	5.66	6.21	6.32	6.44	6.62	6.76	6.90	7.09	7.27	7.36	7.49	7.62	7.69	7.79	7.89	7.98	8.04	8.10	8.15	8.19	8.22	8.28	1.7%	
Industrial	4.98	5.70	5.66	5.75	5.97	6.12	6.26	6.41	6.55	6.62	6.69	6.78	6.79	6.88	6.98	7.10	7.22	7.28	7.36	7.45	7.54	7.65	2.0%	
Transportation	13.45	17.14	17.33	17.90	18.50	19.12	19.70	20.20	20.78	21.31	21.83	22.27	22.60	23.00	23.43	23.97	24.55	25.03	25.54	26.10	26.69	27.34	3.3%	
Total Non-Renewable Expend.	30.60	36.26	36.62	37.54	38.79	39.90	40.87	41.90	42.99	43.85	44.67	45.46	45.94	46.64	47.33	48.16	48.98	49.69	50.36	51.15	51.94	52.90	2.5%	
Trans. Renewable Expend.	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.11	19.0%	
Total Expenditures	30.60	36.27	36.63	37.56	38.81	39.93	40.91	41.94	43.04	43.91	44.73	45.53	46.02	46.72	47.42	48.25	49.08	49.79	50.47	51.25	52.06	53.02	2.5%	

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 19. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**09 - Pacific**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Residential</b>	13.73	13.79	13.62	13.54	13.67	13.63	13.51	13.45	13.52	13.55	13.49	13.43	13.40	13.38	13.34	13.24	13.17	13.12	13.04	12.98	12.96	12.92	-0.3%	
Primary Energy 1/	6.77	7.08	7.10	7.12	7.17	7.20	7.22	7.24	7.24	7.23	7.21	7.17	7.14	7.10	7.05	6.98	6.93	6.87	6.83	6.79	6.77	6.77	0.0%	
Petroleum Products 2/	9.10	11.14	11.15	11.34	11.59	11.74	11.96	12.09	12.18	12.22	12.29	12.34	12.40	12.41	12.45	12.47	12.55	12.58	12.60	12.62	12.72	12.73	1.5%	
Distillate Fuel	6.59	8.09	7.85	7.83	7.89	7.95	8.01	8.04	7.99	7.94	7.93	7.95	8.07	8.00	7.97	7.92	7.89	7.92	7.93	7.93	7.93	7.92	7.93	0.8%
Liquefied Petroleum Gas	11.61	13.90	14.01	14.22	14.50	14.59	14.81	14.90	15.00	15.02	15.04	15.10	15.11	15.16	15.23	15.28	15.40	15.40	15.39	15.40	15.52	15.51	1.3%	
Natural Gas	6.58	6.72	6.73	6.74	6.76	6.78	6.79	6.79	6.79	6.77	6.74	6.69	6.65	6.61	6.55	6.48	6.41	6.35	6.30	6.26	6.23	6.24	-0.2%	
Electricity	23.24	23.03	22.66	22.51	22.88	22.84	22.58	22.50	22.77	22.99	22.98	22.97	22.94	22.97	22.95	22.80	22.71	22.67	22.54	22.44	22.37	22.25	-0.2%	
<b>Commercial</b>	15.50	15.69	15.51	14.84	14.86	14.73	14.48	14.29	14.26	14.23	14.28	14.36	14.43	14.51	14.55	14.50	14.43	14.36	14.29	14.18	14.11	14.02	-0.5%	
Primary Energy 1/	5.46	5.80	5.81	5.84	5.90	5.93	5.97	6.00	6.01	6.02	6.01	5.99	5.97	5.93	5.89	5.84	5.79	5.74	5.71	5.68	5.67	5.67	0.2%	
Petroleum Products 2/	5.40	7.19	7.00	7.02	7.13	7.22	7.35	7.38	7.36	7.33	7.33	7.27	7.30	7.20	7.12	7.04	6.99	6.97	6.95	6.91	6.90	6.87	1.1%	
Distillate Fuel	3.88	5.85	5.61	5.59	5.65	5.71	5.77	5.80	5.75	5.71	5.69	5.71	5.83	5.77	5.73	5.68	5.65	5.68	5.70	5.69	5.69	5.69	1.8%	
Residual Fuel	1.75	3.25	3.08	3.10	3.11	3.13	3.16	3.17	3.19	3.21	3.23	3.25	3.26	3.28	3.30	3.32	3.34	3.35	3.37	3.39	3.41	3.42	3.1%	
Natural Gas 3/	5.56	5.79	5.82	5.86	5.91	5.94	5.97	6.00	6.02	6.03	6.02	6.00	5.98	5.95	5.91	5.85	5.80	5.76	5.72	5.69	5.68	5.69	0.1%	
Electricity	23.18	22.79	22.42	21.15	21.10	20.81	20.30	19.90	19.81	19.73	19.81	19.93	20.07	20.21	20.31	20.26	20.19	20.10	20.01	19.84	19.71	19.56	-0.8%	
<b>Industrial 4/</b>	5.09	5.72	5.69	5.68	5.75	5.75	5.74	5.69	5.73	5.71	5.73	5.74	5.75	5.75	5.74	5.71	5.68	5.66	5.64	5.61	5.60	5.61	0.4%	
Primary Energy	3.18	3.91	3.91	4.07	4.14	4.20	4.27	4.28	4.34	4.36	4.38	4.37	4.39	4.38	4.36	4.33	4.31	4.29	4.29	4.27	4.28	4.29	1.4%	
Petroleum Products 2/	3.89	5.11	5.02	5.27	5.34	5.39	5.46	5.41	5.49	5.47	5.50	5.47	5.50	5.47	5.46	5.42	5.41	5.39	5.39	5.37	5.37	5.36	1.5%	
Distillate Fuel	4.22	6.27	6.03	6.01	6.07	6.13	6.20	6.22	6.17	6.13	6.11	6.13	6.26	6.19	6.15	6.10	6.07	6.10	6.12	6.11	6.11	6.12	1.7%	
Liquefied Petroleum Gas	8.57	10.42	10.52	10.74	11.01	11.10	11.33	11.41	11.51	11.53	11.56	11.62	11.63	11.67	11.75	11.79	11.92	11.91	11.91	11.92	12.04	12.03	1.6%	
Residual Fuel	2.44	3.37	3.20	3.22	3.23	3.25	3.28	3.30	3.31	3.33	3.35	3.37	3.38	3.40	3.42	3.44	3.46	3.47	3.49	3.51	3.53	3.54	1.7%	
Natural Gas 5/	2.59	2.83	2.91	3.00	3.12	3.21	3.30	3.37	3.43	3.47	3.49	3.50	3.51	3.51	3.50	3.48	3.46	3.45	3.44	3.43	3.45	3.49	1.4%	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Steam Coal	1.87	1.84	1.84	1.82	1.82	1.79	1.78	1.76	1.75	1.75	1.71	1.72	1.71	1.69	1.68	1.66	1.65	1.63	1.62	1.60	1.58	1.57	-0.8%	
Electricity	14.33	14.24	14.02	13.08	13.00	12.68	12.30	11.98	11.85	11.67	11.67	11.71	11.69	11.72	11.72	11.63	11.57	11.49	11.42	11.27	11.18	11.11	-1.2%	
<b>Transportation</b>	7.56	8.91	8.72	8.76	8.84	9.01	9.26	9.24	9.33	9.38	9.38	9.35	9.35	9.31	9.28	9.26	9.25	9.23	9.21	9.18	9.15	9.14	0.9%	
Primary Energy	7.53	8.89	8.70	8.74	8.82	8.99	9.24	9.22	9.31	9.36	9.36	9.33	9.32	9.29	9.26	9.23	9.23	9.21	9.19	9.16	9.13	9.11	0.9%	
Petroleum Products 2/	7.53	8.90	8.71	8.74	8.82	8.99	9.24	9.22	9.32	9.36	9.36	9.33	9.32	9.29	9.25	9.23	9.22	9.20	9.18	9.15	9.12	9.11	0.9%	
Distillate Fuel 6/	8.33	9.70	9.48	9.52	9.44	9.55	9.66	9.69	9.83	9.88	9.87	9.86	9.71	9.66	9.63	9.59	9.50	9.50	9.45	9.35	9.32	9.28	0.5%	
Jet Fuel 7/	4.16	5.33	5.19	5.29	5.21	5.34	5.51	5.57	5.83	6.03	6.14	6.13	6.14	6.13	6.11	6.16	6.25	6.25	6.25	6.24	6.24	6.24	1.9%	
Motor Gasoline 8/	9.34	10.88	10.68	10.72	10.96	11.22	11.62	11.59	11.64	11.67	11.66	11.65	11.70	11.69	11.68	11.66	11.66	11.65	11.66	11.65	11.63	11.62	1.0%	
Residual Fuel	2.43	3.64	3.46	3.48	3.50	3.52	3.55	3.57	3.58	3.60	3.62	3.64	3.66	3.68	3.70	3.72	3.74	3.75	3.77	3.79	3.81	3.83	2.1%	
Liquid Petroleum Gas 9/	10.48	12.22	12.30	12.49	12.73	12.80	12.99	13.05	13.12	13.11	13.11	13.14	13.12	13.14	13.19	13.21	13.31	13.27	13.24	13.21	13.30	13.26	1.1%	
Natural Gas 10/	5.10	5.68	5.69	5.77	5.91	6.07	6.25	6.46	6.68	6.85	6.98	7.09	7.17	7.23	7.26	7.27	7.26	7.25	7.24	7.23	7.24	7.27	1.6%	
Ethanol (E85) 11/	14.35	16.76	16.35	16.35	17.82	17.91	18.05	18.02	18.10	18.15	18.17	18.19	18.21	18.24	18.25	18.27	18.30	18.31	18.33	18.34	18.36	18.37	1.1%	
Methanol (M85) 12/	8.99	13.07	12.71	12.75	12.78	12.85	13.34	13.35	13.37	13.38	13.39	13.40	13.42	13.44	13.44	13.46	13.47	13.48	13.49	13.50	13.51	13.51	1.9%	
Electricity	17.29	16.78	16.53	16.36	16.26	15.95	15.60	15.47	15.54	14.98	14.97	15.05	14.94	15.00	14.93	14.87	14.87	14.97	14.94	14.78	14.78	14.70	-0.7%	
<b>Average End-Use Energy</b>	8.50	9.41	9.27	9.21	9.29	9.36	9.44	9.39	9.47	9.49	9.50	9.49	9.50	9.48	9.46	9.42	9.40	9.37	9.33	9.29	9.26	9.24	0.4%	
Primary Energy	7.87	8.87	8.73	8.72	8.80	8.90	9.03	8.99	9.08	9.11	9.12	9.11	9.11	9.10	9.07	9.04	9.02	9.00	8.98	8.94	8.91	8.90	0.6%	
Electricity	20.59	20.38	20.07	19.26	19.32	19.10	18.70	18.43	18.44	18.42	18.45	18.51	18.54	18.61	18.62	18.51	18.43	18.36	18.26	18.11	18.01	17.89	-0.6%	
<b>Electric Generators 13/</b>																								
Fossil Fuel Average	2.27	2.73	2.73	2.76	2.82	2.85	2.89	2.96	3.01	3.06	3.09	3.13	3.15	3.16	3.17	3.16	3.16	3.16	3.16	3.16	3.17	3.22	1.6%	
Petroleum Products	2.65	4.25	4.06	4.07	4.09	4.11	4.14	4.16	4.18	4.20	4.21	4.21	4.23	4.23	4.23	4.23	4.24	4.24	4.25	4.26	4.27	4.28	2.2%	
Distillate Fuel	2.96	5.46	5.22	5.20	5.26	5.32	5.38	5.40	5.35	5.31	5.30	5.31	5.44	5.37	5.34	5.28	5.26	5.29	5.30	5.29	5.29	5.30	2.7%	
Residual Fuel	2.60	4.08	3.91	3.93	3.95	3.96	3.99	4.01	4.02	4.04	4.06	4.08	4.09	4.11	4.13	4.15	4.17	4.18	4.20	4.22	4.24	4.25	2.3%	
Natural Gas	2.57	2.86	2.90	2.96	3.03	3.09	3.14	3.21	3.27	3.32	3.35	3.38	3.40	3.41	3.41	3.39	3.39	3.38	3.38	3.38	3.40	3.45	1.4%	
Steam Coal	1.38	1.37	1.34	1.32	1.30	1.28	1.27	1.26	1.25	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.13	1.12	1.11	-1.0%	



**Table 19. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**09 - Pacific**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.93	8.33	8.16	8.24	8.33	8.48	8.71	8.69	8.80	8.83	8.85	8.82	8.82	8.79	8.77	8.75	8.74	8.73	8.72	8.69	8.67	8.66	1.0%
Distillate Fuel	7.53	9.08	8.86	8.88	8.84	8.93	9.03	9.06	9.16	9.20	9.19	9.19	9.09	9.03	9.01	8.96	8.89	8.89	8.86	8.77	8.75	8.72	0.7%
Jet Fuel	4.16	5.33	5.19	5.29	5.21	5.34	5.51	5.57	5.83	6.03	6.14	6.13	6.14	6.13	6.11	6.16	6.25	6.25	6.25	6.24	6.24	6.24	1.9%
Liquefied Petroleum Gas	10.05	12.17	12.21	12.41	12.83	12.95	13.18	13.28	13.35	13.32	13.33	13.41	13.41	13.46	13.53	13.57	13.70	13.69	13.68	13.69	13.81	13.80	1.4%
Motor Gasoline 8/	9.35	10.88	10.69	10.72	10.96	11.22	11.62	11.59	11.65	11.67	11.66	11.65	11.70	11.69	11.68	11.66	11.66	11.65	11.66	11.65	11.63	11.63	1.0%
Residual Fuel	2.47	3.71	3.53	3.55	3.57	3.59	3.61	3.62	3.63	3.64	3.66	3.67	3.69	3.71	3.73	3.75	3.77	3.78	3.80	3.82	3.84	3.86	2.0%
Natural Gas	4.02	4.09	4.16	4.21	4.27	4.34	4.39	4.43	4.47	4.49	4.50	4.49	4.48	4.47	4.44	4.40	4.37	4.35	4.33	4.32	4.33	4.36	0.4%
Coal	1.49	1.52	1.50	1.48	1.45	1.43	1.42	1.41	1.40	1.39	1.37	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.30	1.28	1.27	1.26	-0.8%
Ethanol (E85) 11/	14.35	16.76	16.35	16.35	17.82	17.91	18.05	18.02	18.10	18.15	18.17	18.19	18.21	18.24	18.25	18.27	18.30	18.31	18.33	18.34	18.36	18.37	1.1%
Methanol (M85) 12/	8.99	13.07	12.71	12.75	12.78	12.85	13.34	13.35	13.37	13.38	13.39	13.40	13.42	13.44	13.44	13.46	13.47	13.48	13.49	13.50	13.51	13.51	1.9%
Electricity	20.59	20.38	20.07	19.26	19.32	19.10	18.70	18.43	18.44	18.42	18.45	18.51	18.54	18.61	18.62	18.51	18.43	18.36	18.26	18.11	18.01	17.89	-0.6%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	14.90	15.72	15.76	15.92	16.33	16.63	16.76	17.01	17.40	17.83	18.06	18.35	18.49	18.70	18.80	18.90	19.03	19.20	19.24	19.35	19.50	19.68	1.3%
Commercial	13.24	13.99	14.01	13.61	13.75	13.78	13.71	13.70	13.83	13.97	14.19	14.42	14.66	14.88	15.06	15.15	15.20	15.22	15.22	15.16	15.13	15.06	0.6%
Industrial	9.23	10.10	10.08	10.09	10.37	10.52	10.65	10.68	10.85	10.93	11.05	11.20	11.32	11.47	11.63	11.76	11.89	11.94	12.03	12.08	12.19	12.31	1.3%
Transportation	31.42	38.62	38.58	39.51	40.67	42.44	44.62	45.58	47.06	48.31	49.29	50.20	51.02	51.77	52.59	53.59	54.58	55.34	56.04	56.70	57.31	58.00	2.8%
Total Non-Renewable Expend.	68.79	78.43	78.42	79.13	81.12	83.37	85.74	86.97	89.15	91.04	92.59	94.18	95.48	96.82	98.09	99.40	100.69	101.70	102.53	103.29	104.13	105.06	1.9%
Trans. Renewable Expend.	0.01	0.02	0.03	0.04	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	17.5%
Total Expenditures	68.79	78.46	78.46	79.17	81.18	83.45	85.84	87.08	89.27	91.18	92.74	94.34	95.65	97.00	98.28	99.60	100.90	101.91	102.75	103.51	104.36	105.29	2.0%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 20. Energy Prices by Sector and Source (1 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**United States Averages**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Residential</b>	13.30	13.30	13.17	13.07	13.07	13.08	13.03	13.08	13.12	13.12	13.05	13.09	13.02	13.00	13.01	13.05	13.08	13.07	13.08	13.10	13.09	13.10	-0.1%
Primary Energy 1/	6.75	7.22	7.16	7.13	7.12	7.13	7.15	7.16	7.17	7.17	7.15	7.11	7.09	7.07	7.04	7.01	6.99	6.96	6.94	6.93	6.92	6.92	0.1%
Petroleum Products 2/	7.48	9.45	9.33	9.35	9.41	9.46	9.48	9.54	9.58	9.64	9.73	9.73	9.74	9.80	9.81	9.82	9.88	9.89	9.91	9.95	9.99	10.04	1.3%
Distillate Fuel	6.12	7.58	7.46	7.45	7.51	7.53	7.55	7.59	7.62	7.67	7.75	7.74	7.73	7.76	7.77	7.80	7.82	7.83	7.82	7.84	7.86	7.88	1.2%
Liquefied Petroleum Gas	10.42	13.18	13.01	13.02	13.02	13.10	13.06	13.09	13.12	13.16	13.21	13.21	13.22	13.32	13.30	13.28	13.37	13.38	13.42	13.48	13.55	13.62	1.2%
Natural Gas	6.60	6.68	6.64	6.60	6.59	6.60	6.62	6.64	6.65	6.63	6.60	6.57	6.54	6.52	6.49	6.46	6.43	6.40	6.39	6.37	6.36	6.36	-0.2%
Electricity	23.58	23.05	22.69	22.35	22.25	22.17	21.90	21.92	21.92	21.85	21.59	21.67	21.47	21.39	21.36	21.45	21.50	21.44	21.44	21.46	21.38	21.33	-0.5%
<b>Commercial</b>	13.13	13.08	12.86	12.60	12.53	12.46	12.32	12.34	12.31	12.23	12.10	12.14	12.03	11.98	11.98	12.01	12.04	12.02	12.02	12.02	11.98	12.00	-0.4%
Primary Energy 1/	5.06	5.49	5.44	5.42	5.43	5.46	5.49	5.52	5.55	5.56	5.55	5.54	5.53	5.53	5.52	5.51	5.51	5.50	5.50	5.50	5.51	5.53	0.4%
Petroleum Products 2/	4.55	6.20	6.04	6.04	6.08	6.11	6.12	6.15	6.18	6.22	6.28	6.27	6.27	6.31	6.31	6.32	6.36	6.37	6.38	6.42	6.45	6.49	1.6%
Distillate Fuel	3.93	5.43	5.30	5.29	5.35	5.36	5.38	5.42	5.45	5.50	5.57	5.56	5.55	5.58	5.58	5.60	5.63	5.63	5.63	5.67	5.70	5.73	1.7%
Residual Fuel	2.49	3.84	3.66	3.66	3.67	3.69	3.70	3.71	3.72	3.72	3.73	3.74	3.74	3.75	3.76	3.78	3.79	3.81	3.82	3.84	3.86	3.87	2.0%
Natural Gas 3/	5.26	5.47	5.44	5.42	5.43	5.45	5.48	5.52	5.55	5.56	5.54	5.53	5.52	5.51	5.50	5.49	5.48	5.47	5.47	5.47	5.47	5.50	0.2%
Electricity	21.76	21.19	20.71	20.13	19.91	19.69	19.31	19.26	19.12	18.90	18.60	18.65	18.40	18.28	18.25	18.32	18.37	18.30	18.29	18.28	18.18	18.17	-0.8%
<b>Industrial 4/</b>	4.88	5.52	5.42	5.39	5.38	5.39	5.38	5.41	5.45	5.47	5.46	5.48	5.45	5.47	5.48	5.51	5.55	5.55	5.57	5.60	5.62	5.65	0.7%
Primary Energy	3.41	4.16	4.10	4.11	4.13	4.16	4.18	4.21	4.26	4.29	4.32	4.32	4.32	4.36	4.37	4.39	4.42	4.43	4.45	4.48	4.51	4.55	1.3%
Petroleum Products 2/	4.58	5.92	5.77	5.78	5.79	5.81	5.79	5.80	5.83	5.86	5.90	5.88	5.86	5.92	5.92	5.93	5.97	5.98	6.00	6.04	6.07	6.11	1.3%
Distillate Fuel	4.02	5.53	5.40	5.39	5.45	5.47	5.49	5.53	5.56	5.60	5.68	5.66	5.65	5.66	5.66	5.67	5.71	5.71	5.73	5.78	5.83	5.89	1.7%
Liquefied Petroleum Gas	7.11	8.01	7.84	7.82	7.79	7.85	7.79	7.80	7.81	7.86	7.89	7.87	7.86	7.98	7.96	7.93	8.00	8.02	8.06	8.12	8.17	8.25	0.7%
Residual Fuel	2.49	3.31	3.14	3.14	3.15	3.16	3.17	3.19	3.20	3.21	3.22	3.23	3.24	3.25	3.27	3.28	3.30	3.32	3.33	3.35	3.36	3.38	1.4%
Natural Gas 5/	2.66	2.89	2.88	2.91	2.95	3.00	3.08	3.15	3.21	3.25	3.27	3.28	3.30	3.32	3.34	3.36	3.38	3.40	3.42	3.44	3.46	3.50	1.3%
Metallurgical Coal	1.72	1.75	1.73	1.71	1.69	1.68	1.66	1.65	1.64	1.62	1.61	1.60	1.59	1.57	1.57	1.56	1.56	1.54	1.53	1.52	1.51	1.50	-0.6%
Steam Coal	1.45	1.40	1.38	1.36	1.35	1.34	1.32	1.31	1.30	1.29	1.28	1.26	1.25	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.16	-1.0%
Electricity	13.09	13.05	12.81	12.46	12.29	12.14	11.92	11.92	11.89	11.79	11.60	11.66	11.46	11.36	11.33	11.38	11.43	11.35	11.36	11.34	11.27	11.27	-0.7%
<b>Transportation</b>	7.53	9.25	9.00	8.97	9.00	9.03	9.08	9.06	9.10	9.13	9.14	9.13	9.12	9.12	9.11	9.10	9.11	9.09	9.08	9.07	9.05	9.04	0.8%
Primary Energy	7.51	9.24	8.98	8.95	8.98	9.01	9.06	9.04	9.08	9.11	9.12	9.11	9.10	9.10	9.09	9.08	9.09	9.07	9.06	9.05	9.03	9.02	0.8%
Petroleum Products 2/	7.51	9.24	8.98	8.95	8.98	9.02	9.06	9.04	9.09	9.11	9.12	9.11	9.10	9.10	9.08	9.08	9.08	9.07	9.06	9.04	9.02	9.01	0.8%
Distillate Fuel 6/	7.51	9.05	8.88	8.86	8.88	8.88	8.90	8.92	8.94	8.96	9.03	9.01	8.98	9.00	8.99	9.01	9.02	9.01	9.00	8.99	8.97	8.97	0.8%
Jet Fuel 7/	4.06	5.35	5.19	5.23	5.27	5.32	5.39	5.46	5.55	5.64	5.74	5.74	5.74	5.76	5.77	5.81	5.89	5.90	5.90	5.91	5.91	5.91	1.7%
Motor Gasoline 8/	8.54	10.51	10.20	10.16	10.21	10.26	10.33	10.29	10.34	10.37	10.36	10.35	10.36	10.36	10.35	10.35	10.35	10.34	10.33	10.32	10.31	10.30	0.9%
Residual Fuel	2.22	3.24	3.06	3.08	3.09	3.11	3.13	3.15	3.16	3.18	3.20	3.21	3.23	3.25	3.26	3.28	3.30	3.32	3.33	3.35	3.37	3.39	1.9%
Liquid Petroleum Gas 9/	11.01	13.67	13.52	13.52	13.52	13.56	13.52	13.51	13.50	13.50	13.51	13.48	13.45	13.51	13.47	13.41	13.47	13.44	13.44	13.45	13.48	13.50	0.9%
Natural Gas 10/	5.83	6.31	6.23	6.23	6.28	6.39	6.54	6.71	6.90	7.04	7.13	7.22	7.30	7.36	7.40	7.43	7.45	7.46	7.46	7.46	7.47	7.49	1.1%
Ethanol (E85) 11/	14.35	17.50	17.01	16.96	17.42	17.47	17.54	17.49	17.58	17.63	17.65	17.66	17.68	17.69	17.71	17.72	17.74	17.75	17.76	17.77	17.79	17.79	1.0%
Methanol (M85) 12/	8.99	12.26	12.12	12.20	13.65	13.67	14.01	14.01	14.28	14.30	14.31	14.32	14.34	14.35	14.36	14.37	14.38	14.39	14.40	14.41	14.41	14.42	2.2%
Electricity	16.46	15.91	15.63	15.36	15.15	14.92	14.62	14.52	14.47	14.25	14.09	14.15	13.94	13.85	13.78	13.73	13.68	13.64	13.59	13.53	13.46	13.38	-0.9%
<b>Average End-Use Energy</b>	8.08	9.01	8.84	8.77	8.77	8.77	8.76	8.77	8.80	8.81	8.80	8.81	8.78	8.78	8.78	8.79	8.81	8.81	8.81	8.81	8.80	8.81	0.4%
Primary Energy	7.59	8.66	8.48	8.42	8.42	8.43	8.43	8.43	8.47	8.49	8.48	8.49	8.46	8.47	8.46	8.47	8.49	8.49	8.49	8.49	8.48	8.49	0.5%
Electricity	19.56	19.25	18.91	18.49	18.31	18.16	17.85	17.85	17.79	17.67	17.43	17.50	17.29	17.19	17.15	17.21	17.24	17.19	17.18	17.16	17.08	17.06	-0.6%
<b>Electric Generators 13/</b>																							
Fossil Fuel Average	1.48	1.54	1.47	1.45	1.43	1.43	1.44	1.47	1.50	1.52	1.52	1.55	1.57	1.58	1.60	1.61	1.64	1.64	1.65	1.66	1.66	1.67	0.6%
Petroleum Products	2.24	3.34	3.15	3.17	3.21	3.24	3.23	3.21	3.21	3.22	3.25	3.28	3.31	3.33	3.36	3.37	3.40	3.42	3.45	3.50	3.52	3.54	2.1%
Distillate Fuel	3.19	5.00	4.88	4.89	4.93	4.96	4.98	5.03	5.05	5.08	5.16	5.12	5.12	5.10	5.09	5.08	5.10	5.09	5.10	5.15	5.18	5.23	2.3%
Residual Fuel	2.17	3.21	3.04	3.06	3.09	3.12	3.11	3.10	3.09	3.10	3.11	3.13	3.13	3.15	3.16	3.17	3.19	3.21	3.24	3.26	3.29	3.30	1.9%
Natural Gas	2.34	2.59	2.59	2.62	2.65	2.72	2.79	2.88	2.95	3.01	3.05	3.08	3.11	3.14	3.16	3.18	3.21	3.23	3.25	3.26	3.29	3.33	1.6%
Steam Coal	1.25	1.24	1.19	1.16	1.14	1.12	1.11	1.10	1.10	1.09	1.06	1.07	1.06	1.05	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	-1.1%

**Table 20. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**  
**United States Averages**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.64	8.32	8.10	8.11	8.14	8.19	8.22	8.21	8.26	8.29	8.33	8.32	8.32	8.34	8.34	8.34	8.35	8.35	8.35	8.35	8.35	8.35	1.0%
Distillate Fuel	6.60	8.16	8.00	7.99	8.03	8.04	8.06	8.09	8.11	8.14	8.21	8.19	8.17	8.19	8.19	8.20	8.22	8.21	8.21	8.21	8.21	8.22	1.0%
Jet Fuel	4.06	5.35	5.19	5.23	5.27	5.32	5.39	5.46	5.55	5.64	5.74	5.74	5.74	5.76	5.77	5.81	5.89	5.90	5.90	5.91	5.91	5.91	1.7%
Liquefied Petroleum Gas	7.76	9.03	8.87	8.86	8.84	8.91	8.86	8.88	8.88	8.92	8.95	8.93	8.92	9.02	8.99	8.95	9.02	9.03	9.06	9.11	9.16	9.22	0.8%
Motor Gasoline 8/	8.54	10.51	10.20	10.16	10.21	10.26	10.33	10.29	10.34	10.37	10.36	10.35	10.36	10.36	10.35	10.35	10.35	10.34	10.33	10.32	10.31	10.30	0.9%
Residual Fuel	2.24	3.27	3.10	3.11	3.13	3.16	3.16	3.17	3.18	3.19	3.21	3.23	3.24	3.26	3.27	3.29	3.31	3.33	3.34	3.36	3.38	3.40	1.9%
Natural Gas	3.92	4.16	4.16	4.17	4.17	4.21	4.23	4.27	4.29	4.31	4.31	4.29	4.29	4.29	4.28	4.27	4.26	4.26	4.26	4.26	4.28	4.31	0.4%
Coal	1.29	1.25	1.20	1.18	1.15	1.14	1.13	1.12	1.11	1.11	1.08	1.09	1.08	1.07	1.06	1.05	1.04	1.04	1.02	1.01	1.00	0.99	-1.2%
Ethanol (E85) 11/	14.35	17.50	17.01	16.96	17.42	17.47	17.54	17.49	17.58	17.63	17.65	17.66	17.68	17.69	17.71	17.72	17.74	17.75	17.76	17.77	17.79	17.79	1.0%
Methanol (M85) 12/	8.99	12.26	12.12	12.20	13.65	13.67	14.01	14.01	14.28	14.30	14.31	14.32	14.34	14.35	14.36	14.37	14.38	14.39	14.40	14.41	14.41	14.42	2.2%
Electricity	19.56	19.25	18.91	18.49	18.31	18.16	17.85	17.85	17.79	17.67	17.43	17.50	17.29	17.19	17.15	17.21	17.24	17.19	17.18	17.16	17.08	17.06	-0.6%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																							
Residential	131.06	139.89	139.52	139.62	140.76	142.55	142.85	144.61	146.28	148.05	148.22	150.04	150.37	151.66	152.38	154.06	155.58	156.93	157.72	159.05	160.12	161.86	1.0%
Commercial	96.86	101.21	100.89	100.15	100.53	101.02	101.07	102.27	103.10	103.64	103.78	105.14	105.37	105.99	106.79	107.82	108.63	108.90	109.27	109.52	109.44	109.62	0.6%
Industrial	101.24	113.34	112.00	112.64	114.83	116.87	118.54	120.66	122.67	124.12	124.65	126.14	126.20	127.97	129.72	132.02	134.52	135.43	137.08	138.76	140.55	142.83	1.6%
Transportation	188.13	241.05	239.56	243.85	249.41	255.95	262.48	267.19	273.37	278.79	283.70	288.11	291.71	295.62	299.66	304.53	309.47	312.87	316.24	319.78	323.06	326.66	2.5%
Total Non-Renewable Expend.	517.29	595.49	591.97	596.26	605.53	616.38	624.94	634.74	645.43	654.60	660.35	669.44	673.65	681.24	688.55	698.43	708.19	714.13	720.31	727.10	733.17	740.97	1.6%
Trans. Renewable Expend.	0.04	0.16	0.22	0.30	0.38	0.47	0.57	0.66	0.75	0.84	0.93	1.01	1.08	1.14	1.20	1.26	1.31	1.34	1.37	1.39	1.41	1.41	17.5%
Total Expenditures	517.33	595.64	592.19	596.56	605.91	616.86	625.50	635.40	646.19	655.44	661.28	670.44	674.73	682.39	689.75	699.69	709.50	715.47	721.68	728.50	734.58	742.38	1.7%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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.

Expend. = Expenditures.

Trans. = Transportation.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999. Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of Energy Information Administration (EIA), Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1998 industrial gas delivered prices are based on EIA, Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run AEO2K.D100199A. 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 21. Residential Sector Supplement Table (1 of 2)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Equipment Stock (million units)																							
<b>Main Space Heaters</b>																							
Electric Heat Pumps	9.58	10.05	10.26	10.47	10.67	10.88	11.02	11.15	11.28	11.41	11.53	11.65	11.77	11.89	12.03	12.18	12.32	12.45	12.59	12.72	12.85	12.98	1.4%
Electric Other	20.03	20.25	20.37	20.50	20.63	20.77	20.88	20.99	21.11	21.24	21.37	21.50	21.62	21.75	21.89	22.03	22.17	22.30	22.43	22.55	22.68	22.81	0.6%
Natural Gas Heat Pumps	0.02	0.06	0.08	0.10	0.12	0.14	0.17	0.19	0.21	0.24	0.26	0.28	0.31	0.33	0.35	0.37	0.42	0.46	0.51	0.55	0.60	0.64	16.7%
Natural Gas Other	54.34	56.02	56.83	57.63	58.45	59.27	60.20	61.12	62.04	62.94	63.79	64.63	65.42	66.21	67.00	67.82	68.60	69.34	70.07	70.81	71.54	72.26	1.3%
Distillate	9.42	9.35	9.30	9.25	9.21	9.16	9.11	9.06	9.01	8.95	8.90	8.84	8.79	8.73	8.68	8.62	8.57	8.51	8.45	8.39	8.33	8.27	-0.6%
Liquid Petroleum Gas	4.73	4.91	4.97	5.02	5.07	5.12	5.15	5.17	5.19	5.21	5.22	5.23	5.23	5.23	5.23	5.22	5.21	5.20	5.19	5.18	5.17	5.17	0.4%
Kerosene	0.97	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.79	0.78	0.77	-1.0%
Wood Stoves	2.18	2.17	2.17	2.16	2.16	2.16	2.15	2.14	2.13	2.13	2.12	2.12	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.12	-0.1%
Geothermal Heat Pumps	0.38	0.43	0.45	0.48	0.51	0.54	0.60	0.67	0.73	0.80	0.86	0.92	0.98	1.04	1.10	1.16	1.22	1.28	1.33	1.39	1.44	1.50	6.5%
<b>Total</b>	<b>101.64</b>	<b>104.19</b>	<b>105.37</b>	<b>106.54</b>	<b>107.73</b>	<b>108.94</b>	<b>110.17</b>	<b>111.38</b>	<b>112.59</b>	<b>113.78</b>	<b>114.91</b>	<b>116.03</b>	<b>117.07</b>	<b>118.13</b>	<b>119.22</b>	<b>120.34</b>	<b>121.45</b>	<b>122.47</b>	<b>123.48</b>	<b>124.50</b>	<b>125.52</b>	<b>126.51</b>	<b>1.0%</b>
<b>Space Cooling (million units)</b>																							
Electric Heat Pumps	9.58	10.05	10.26	10.47	10.67	10.88	11.02	11.15	11.28	11.41	11.53	11.65	11.77	11.89	12.03	12.18	12.32	12.45	12.59	12.72	12.85	12.98	1.4%
Natural Gas Heat Pumps	0.02	0.06	0.08	0.10	0.12	0.14	0.17	0.19	0.21	0.24	0.26	0.28	0.31	0.33	0.35	0.37	0.42	0.46	0.51	0.55	0.60	0.64	16.7%
Geothermal Heat Pumps	0.38	0.43	0.45	0.48	0.51	0.54	0.60	0.67	0.73	0.80	0.86	0.92	0.98	1.04	1.10	1.16	1.22	1.28	1.33	1.39	1.44	1.50	6.5%
Central Air Conditioners	40.10	42.14	43.08	44.02	44.97	45.92	46.89	47.85	48.80	49.73	50.62	51.50	52.33	53.17	54.01	54.87	55.70	56.48	57.25	58.02	58.79	59.53	1.8%
Room Air Conditioners	37.07	37.11	37.13	37.15	37.18	37.22	37.26	37.31	37.36	37.41	37.46	37.52	37.57	37.62	37.67	37.74	37.80	37.85	37.91	37.96	38.01	38.06	0.1%
<b>Total</b>	<b>87.14</b>	<b>89.78</b>	<b>91.01</b>	<b>92.23</b>	<b>93.45</b>	<b>94.69</b>	<b>95.94</b>	<b>97.16</b>	<b>98.38</b>	<b>99.58</b>	<b>100.73</b>	<b>101.87</b>	<b>102.95</b>	<b>104.04</b>	<b>105.17</b>	<b>106.33</b>	<b>107.47</b>	<b>108.53</b>	<b>109.59</b>	<b>110.64</b>	<b>111.69</b>	<b>112.71</b>	<b>1.2%</b>
<b>Water Heaters (million units)</b>																							
Electric	40.06	40.88	41.28	41.69	42.10	42.53	42.90	43.27	43.66	44.04	44.42	44.79	45.15	45.53	45.92	46.32	46.71	47.06	47.41	47.76	48.12	48.48	0.9%
Natural Gas	53.45	54.99	55.72	56.45	57.18	57.93	58.77	59.59	60.42	61.22	61.98	62.74	63.44	64.15	64.87	65.61	66.36	67.05	67.74	68.42	69.11	69.78	1.2%
Distillate	5.12	5.10	5.08	5.06	5.04	5.02	4.99	4.97	4.94	4.91	4.88	4.85	4.82	4.79	4.76	4.72	4.69	4.66	4.63	4.60	4.57	4.53	-0.6%
Liquid Petroleum Gas	3.35	3.55	3.62	3.68	3.73	3.79	3.82	3.86	3.89	3.91	3.93	3.95	3.96	3.96	3.97	3.98	3.98	3.99	3.99	3.99	3.99	3.99	0.8%
Solar Thermal	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	-0.4%
<b>Total</b>	<b>102.34</b>	<b>104.88</b>	<b>106.05</b>	<b>107.22</b>	<b>108.40</b>	<b>109.60</b>	<b>110.83</b>	<b>112.04</b>	<b>113.25</b>	<b>114.43</b>	<b>115.55</b>	<b>116.67</b>	<b>117.71</b>	<b>118.76</b>	<b>119.85</b>	<b>120.97</b>	<b>122.07</b>	<b>123.09</b>	<b>124.10</b>	<b>125.11</b>	<b>126.12</b>	<b>127.11</b>	<b>1.0%</b>
<b>Cooking Equipment (million units) 1/</b>																							
Electric	63.11	64.63	65.36	66.08	66.81	67.54	68.27	68.99	69.72	70.45	71.14	71.82	72.45	73.07	73.72	74.39	75.04	75.65	76.28	76.92	77.60	78.27	1.0%
Natural Gas	34.21	35.08	35.49	35.90	36.32	36.76	37.25	37.73	38.19	38.65	39.09	39.53	39.96	40.40	40.85	41.33	41.80	42.22	42.62	42.99	43.35	43.68	1.1%
Liquid Petroleum Gas	4.28	4.43	4.48	4.52	4.55	4.58	4.60	4.62	4.62	4.63	4.63	4.62	4.61	4.60	4.59	4.58	4.56	4.55	4.53	4.52	4.51	4.50	0.2%
<b>Total</b>	<b>101.60</b>	<b>104.14</b>	<b>105.32</b>	<b>106.49</b>	<b>107.68</b>	<b>108.89</b>	<b>110.12</b>	<b>111.33</b>	<b>112.54</b>	<b>113.73</b>	<b>114.85</b>	<b>115.97</b>	<b>117.02</b>	<b>118.07</b>	<b>119.16</b>	<b>120.29</b>	<b>121.40</b>	<b>122.41</b>	<b>123.43</b>	<b>124.44</b>	<b>125.46</b>	<b>126.45</b>	<b>1.0%</b>
<b>Clothes Dryers (million units)</b>																							
Electric	56.99	59.46	60.60	61.71	62.82	63.94	65.05	66.15	67.23	68.28	69.28	70.26	71.18	72.10	73.04	73.99	74.93	75.80	76.67	77.53	78.39	79.23	1.5%
Natural Gas	15.84	16.65	17.04	17.43	17.83	18.24	18.65	19.06	19.47	19.87	20.25	20.64	21.01	21.38	21.76	22.15	22.53	22.89	23.25	23.61	23.97	24.32	2.0%
<b>Total</b>	<b>72.84</b>	<b>76.11</b>	<b>77.64</b>	<b>79.14</b>	<b>80.65</b>	<b>82.17</b>	<b>83.70</b>	<b>85.20</b>	<b>86.70</b>	<b>88.14</b>	<b>89.53</b>	<b>90.90</b>	<b>92.19</b>	<b>93.48</b>	<b>94.80</b>	<b>96.14</b>	<b>97.46</b>	<b>98.69</b>	<b>99.92</b>	<b>101.14</b>	<b>102.36</b>	<b>103.55</b>	<b>1.6%</b>
<b>Other Appliances (million units)</b>																							
Refrigerators	116.47	119.11	120.33	121.54	122.76	124.01	125.29	126.54	127.80	129.02	130.18	131.33	132.40	133.48	134.60	135.75	136.89	137.93	138.97	140.01	141.05	142.07	0.9%
Freezers	33.69	33.69	33.64	33.59	33.56	33.52	33.51	33.51	33.52	33.51	33.48	33.47	33.46	33.48	33.53	33.62	33.73	33.82	33.93	34.05	34.20	34.36	0.1%

**Table 21. Residential Sector Supplement Table (2 of 2)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Stock Average Equipment Efficiency</b>																							
<b>Main Space Heaters</b>																							
Elec. Heat Pumps (HSPF)	6.94	7.10	7.15	7.19	7.22	7.23	7.24	7.25	7.25	7.25	7.24	7.24	7.25	7.25	7.26	7.27	7.30	7.33	7.36	7.38	7.40	7.43	0.3%
NG Heat Pumps (HSPF)	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	N/A
Geo. Heat Pumps (COP)	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.44	3.48	3.51	3.54	3.58	3.61	0.3%
Natural Gas Furnace (AFUE)	0.75	0.76	0.77	0.77	0.78	0.78	0.79	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	0.84	0.84	0.5%
Distillate Furnace (AFUE)	0.78	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.81	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	0.2%
<b>Space Cooling</b>																							
Elec. Heat Pumps (SEER)	10.25	10.56	10.68	10.78	10.85	10.90	10.96	11.00	11.02	11.04	11.06	11.08	11.09	11.11	11.12	11.13	11.19	11.24	11.29	11.33	11.37	11.41	0.5%
NG Heat Pumps (SEER)	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	0.0%
Geo. Heat Pumps (EER)	13.50	13.50	13.50	13.50	13.50	13.50	14.68	15.33	15.96	16.56	17.13	17.68	18.20	18.73	19.25	19.71	19.48	19.07	18.64	18.19	17.74	17.28	1.1%
Cent. Air Conditioners(SEER)	10.10	10.34	10.45	10.54	10.61	10.66	10.75	10.81	10.86	10.91	10.95	10.98	11.02	11.05	11.08	11.10	11.16	11.21	11.25	11.30	11.33	11.37	0.5%
Room Air Conditioners (EER)	8.53	8.70	8.81	8.92	9.03	9.12	9.21	9.29	9.36	9.42	9.47	9.52	9.56	9.61	9.65	9.69	9.73	9.75	9.77	9.79	9.80	9.80	0.6%
<b>Water Heaters</b>																							
Electric (EF)	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.1%
Natural Gas (EF)	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.3%
Distillate (EF)	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.0%
Liquid Petroleum Gas (EF)	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.4%
<b>Other Appliances (kilowatthours per year)</b>																							
Refrigerators	937.97	880.99	857.58	822.70	790.08	759.92	732.00	706.30	682.28	659.74	638.41	618.99	601.56	585.85	571.92	559.58	548.87	539.63	531.76	525.01	519.38	514.40	-2.7%
Freezers	678.12	631.33	609.99	586.93	565.38	545.42	528.13	514.12	502.54	492.48	483.89	476.26	469.80	464.27	459.24	454.95	451.38	448.47	446.15	444.33	442.88	441.81	-1.9%
<b>Building Shell Efficiency Index</b>																							
<b>Space Heating</b>																							
Pre-1998 Homes	0.95	0.94	0.93	0.93	0.93	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.90	0.89	0.89	0.88	0.88	0.88	0.88	0.87	0.87	0.87	-0.4%
New Construction	0.86	0.86	0.86	0.86	0.86	0.85	0.85	0.85	0.85	0.85	0.84	0.84	0.84	0.83	0.83	0.83	0.82	0.82	0.81	0.81	0.80	0.80	-0.3%
All Homes	0.95	0.93	0.93	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.89	0.88	0.88	0.87	0.87	0.87	0.86	0.86	0.86	0.86	-0.4%
<b>Space Cooling</b>																							
Pre-1998 Homes	0.95	0.94	0.94	0.94	0.93	0.93	0.93	0.92	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.90	0.89	0.89	0.89	0.88	0.88	0.88	-0.3%
New Construction	0.87	0.87	0.86	0.86	0.86	0.86	0.86	0.86	0.85	0.85	0.85	0.85	0.84	0.84	0.83	0.83	0.82	0.82	0.81	0.81	0.80	0.80	-0.4%
All Homes	0.95	0.94	0.93	0.93	0.92	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.89	0.88	0.88	0.88	0.87	0.87	0.87	0.87	-0.4%

1/ Does not include microwave ovens or outdoor grills.

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.

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.

kWh/y = Kilowatt hours per year to run the appliance under certain test conditions as specified by the Department of Energy.

Btu = British thermal unit.

N/A = Not applicable.

Elec. = Electric.

Geo. = Geothermal.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 22. Commercial Sector Supplement Table (1 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Commercial Building Delivered																							
Energy Consumption (quadrillion Btu) 1/																							
Assembly	0.50	0.52	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.5%
Education	0.67	0.70	0.71	0.71	0.72	0.72	0.73	0.73	0.74	0.75	0.75	0.76	0.77	0.77	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.8%
Food Sales	0.14	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.8%
Food Service	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.8%
Health Care	0.51	0.54	0.55	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.67	0.67	0.68	0.68	0.69	1.3%
Lodging	0.52	0.54	0.54	0.55	0.56	0.56	0.57	0.58	0.58	0.59	0.60	0.61	0.62	0.63	0.63	0.64	0.64	0.65	0.65	0.65	0.66	0.66	1.1%
Office - Large	0.66	0.68	0.69	0.69	0.70	0.71	0.72	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.78	0.79	0.79	0.80	0.80	0.80	0.80	0.81	0.9%
Office - Small	0.50	0.52	0.53	0.54	0.55	0.55	0.56	0.56	0.57	0.58	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.62	0.62	0.62	1.0%
Mercantile/Service	1.04	1.11	1.12	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.24	1.24	1.24	1.24	1.24	1.24	0.8%
Warehouse	0.35	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	1.3%
Other	0.45	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.64	0.65	0.65	0.66	1.8%
Total	5.71	5.98	6.07	6.15	6.20	6.27	6.34	6.41	6.47	6.55	6.63	6.70	6.78	6.85	6.91	6.96	7.00	7.03	7.06	7.08	7.10	7.11	1.0%
Commercial Building Floorspace (billion square feet)																							
Assembly	6.91	7.06	7.11	7.15	7.19	7.24	7.29	7.33	7.37	7.41	7.45	7.49	7.53	7.56	7.58	7.60	7.62	7.63	7.64	7.64	7.64	7.64	0.5%
Education	8.08	8.36	8.49	8.62	8.74	8.86	8.99	9.11	9.24	9.36	9.49	9.62	9.74	9.85	9.94	10.02	10.08	10.12	10.16	10.19	10.22	10.24	1.1%
Food Sales	0.68	0.70	0.70	0.71	0.72	0.73	0.74	0.75	0.75	0.76	0.77	0.78	0.79	0.79	0.80	0.80	0.81	0.81	0.81	0.81	0.82	0.82	0.9%
Food Service	1.41	1.45	1.46	1.47	1.48	1.50	1.51	1.53	1.54	1.56	1.57	1.58	1.60	1.61	1.62	1.62	1.63	1.63	1.63	1.63	1.63	1.63	0.6%
Health Care	1.73	1.80	1.82	1.85	1.88	1.91	1.94	1.96	1.98	2.00	2.02	2.04	2.07	2.08	2.10	2.11	2.13	2.14	2.15	2.16	2.17	2.18	1.1%
Lodging	3.81	4.01	4.09	4.15	4.20	4.26	4.33	4.39	4.44	4.50	4.56	4.62	4.68	4.73	4.77	4.81	4.84	4.87	4.89	4.90	4.91	4.92	1.2%
Office - Large	5.82	5.95	6.00	6.04	6.08	6.11	6.15	6.20	6.25	6.31	6.37	6.42	6.47	6.51	6.54	6.56	6.57	6.58	6.57	6.56	6.55	6.53	0.5%
Office - Small	5.50	5.63	5.69	5.73	5.77	5.81	5.85	5.90	5.96	6.01	6.07	6.13	6.18	6.22	6.25	6.28	6.29	6.30	6.30	6.29	6.28	6.27	0.6%
Mercantile/Service	13.30	13.71	13.86	13.98	14.09	14.23	14.38	14.54	14.69	14.85	15.00	15.14	15.27	15.39	15.50	15.59	15.66	15.71	15.75	15.77	15.78	15.78	0.8%
Warehouse	8.96	9.34	9.49	9.62	9.75	9.87	10.01	10.15	10.28	10.41	10.52	10.63	10.72	10.79	10.85	10.89	10.92	10.93	10.93	10.91	10.88	10.84	0.9%
Other	5.04	5.34	5.48	5.60	5.72	5.82	5.93	6.04	6.14	6.24	6.33	6.42	6.50	6.58	6.65	6.72	6.78	6.84	6.89	6.93	6.96	6.98	1.5%
Total	61.24	63.34	64.20	64.93	65.62	66.34	67.11	67.89	68.66	69.41	70.16	70.87	71.53	72.11	72.60	73.00	73.32	73.56	73.72	73.81	73.84	73.81	0.9%
Stock Average Equipment Efficiency 2/																							
Space Heating																							
Electricity	1.08	1.09	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.2%
Natural Gas	0.74	0.75	0.75	0.76	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.3%
Distillate	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.2%
Space Cooling																							
Electricity	2.49	2.57	2.61	2.65	2.68	2.72	2.76	2.80	2.83	2.87	2.90	2.93	2.96	2.99	3.01	3.03	3.06	3.08	3.10	3.13	3.15	3.16	1.1%
Natural Gas	0.88	0.92	0.94	0.95	0.96	0.97	0.99	1.01	1.03	1.04	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.14	1.15	1.16	1.2%

**Table 22. Commercial Sector Supplement Table (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Water Heating																								
Electricity	0.94	0.95	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.2%
Natural Gas	0.73	0.74	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.5%
Distillate	0.74	0.75	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	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.2%
Ventilation (cfm per Btu) 3/																								
Electricity	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.7%
Cooking																								
Electricity	0.52	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.1%
Natural Gas	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	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.0%
Lighting Efficacy 4/ (efficacy in lumens per watt)																								
Electricity	49.02	50.43	51.16	51.91	52.68	53.40	53.97	54.54	55.06	55.50	55.88	56.28	56.59	56.85	57.08	57.30	57.68	58.05	58.38	58.75	59.13	59.53	59.93	0.9%
Refrigeration																								
Electricity	1.31	1.32	1.32	1.32	1.33	1.33	1.33	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	0.2%

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.

Quad. = Quadrillion.

Btu = British thermal unit.

Avg. = Average.

Equip. = Equipment.

Cfm = Cubic feet per minute.

PC = Personal computer.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 23. Industrial Sector Macroeconomic Indicators (1 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
GDP (billion 1992 dollars)	7552	7991	8191	8377	8596	8824	9056	9251	9449	9651	9840	10054	10218	10416	10648	10906	11147	11331	11533	11741	11959	12179	2.2%
Non-Agricultural Emp. (million)	126.2	129.7	130.2	131.2	132.6	133.9	135.3	136.5	137.5	138.5	139.2	140.1	140.8	141.5	142.3	143.4	144.6	145.4	145.9	146.5	147.1	147.8	0.7%
Value of Gross Output (billion 1987 dollars)																							
Nonmanufacturing Sector																							
Agricultural	258.4	264.4	267.1	270.8	273.8	277.3	280.6	283.3	286.1	289.0	291.2	294.6	297.4	300.5	304.5	308.7	312.6	315.2	318.7	322.4	326.0	329.7	1.1%
Mining	137.2	136.1	135.3	135.8	137.5	138.8	140.6	142.3	144.1	145.6	146.4	148.1	149.3	150.7	152.4	154.4	156.6	157.6	159.0	160.0	161.0	161.9	0.8%
Construction	439.5	456.9	461.9	473.3	483.0	496.9	510.8	520.3	528.5	534.8	539.1	546.4	550.2	558.4	568.5	583.5	597.7	603.2	609.1	617.6	629.3	638.9	1.7%
Manufacturing Sector																							
Food and Kindred Products	409.9	421.5	425.7	429.9	433.6	437.7	442.6	446.7	450.7	454.5	457.9	462.3	466.9	471.5	476.8	482.7	488.9	494.1	499.5	504.8	510.4	516.2	1.1%
Tobacco Products	28.1	27.6	27.3	27.2	27.1	26.9	26.7	26.3	26.0	25.7	25.3	25.0	24.6	24.3	24.2	24.0	23.8	23.4	23.2	22.9	22.6	22.3	-1.0%
Textile Mill Products	58.3	58.7	58.0	57.9	58.4	58.5	58.5	58.3	58.3	58.5	58.3	58.8	58.9	59.1	60.0	60.7	60.9	60.7	61.1	61.5	61.9	62.4	0.3%
Apparel and Other Textile Products	86.0	82.7	79.9	78.6	78.4	77.9	77.4	75.8	74.9	74.2	72.7	72.4	71.6	70.7	70.6	69.8	68.4	67.2	67.4	67.7	67.3	67.0	-1.1%
Lumber and Wood Products	79.1	82.5	83.3	84.5	86.2	87.3	88.6	89.3	89.8	90.0	90.1	90.8	90.8	91.4	91.9	93.4	94.6	94.6	94.8	95.3	96.0	96.7	0.9%
Furniture and Fixtures	46.5	50.2	50.2	51.0	52.2	52.9	53.5	53.2	53.5	53.9	54.0	54.7	55.0	55.5	56.7	58.1	59.4	59.9	60.6	61.2	62.0	63.1	1.4%
Paper and Allied Products	127.6	132.1	134.5	136.7	139.1	141.2	143.4	145.1	146.6	148.1	149.3	150.9	151.8	153.2	154.8	156.8	158.8	160.1	161.3	162.5	164.0	165.6	1.2%
Printing and Publishing	143.0	143.6	144.3	145.6	147.2	148.8	150.4	151.4	152.5	153.5	154.0	155.3	155.9	156.8	158.2	160.1	162.1	163.1	164.0	165.3	166.6	168.2	0.7%
Chemical and Allied Products	288.3	295.1	300.6	306.9	314.9	320.7	326.5	331.1	336.6	341.9	346.9	352.7	357.2	363.3	369.9	376.5	382.4	387.6	393.6	399.3	405.7	412.3	1.6%
Bulk Chemicals	155.6	156.0	158.1	160.1	163.6	165.9	168.1	170.1	172.3	174.5	176.4	178.5	179.9	182.5	185.0	187.3	189.1	190.4	192.1	193.6	195.6	197.8	1.1%
Other Chemicals and Allied Products	132.7	139.1	142.5	146.8	151.2	154.8	158.3	161.0	164.3	167.4	170.5	174.3	177.3	180.8	184.9	189.2	193.3	197.2	201.4	205.7	210.0	214.5	2.2%
Petroleum and Coal Products	156.3	159.6	160.8	163.3	164.4	167.1	169.7	172.0	174.7	175.5	176.2	176.9	176.9	177.5	178.2	179.0	180.1	180.3	181.1	181.6	182.3	183.1	0.7%
Petroleum Refining	140.6	143.5	144.5	146.8	147.6	150.1	152.6	154.6	157.2	157.9	158.4	159.0	158.9	159.4	159.9	160.4	161.2	161.4	162.0	162.4	163.0	163.6	0.7%
Other Petroleum and Coal Products	15.7	16.1	16.3	16.5	16.7	16.9	17.2	17.3	17.5	17.7	17.8	17.9	18.0	18.1	18.3	18.6	18.8	18.9	19.0	19.2	19.4	19.5	1.0%
Rubber and Miscellaneous																							
Plastic Products	132.9	138.8	142.3	147.3	153.8	159.4	165.1	169.7	174.8	179.9	184.2	189.2	193.0	197.9	203.8	209.9	215.3	218.7	223.2	227.8	232.8	237.9	2.7%
Leather and Leather Products	6.8	6.2	5.5	5.3	5.1	4.7	4.3	3.9	3.5	3.3	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.8	1.8	1.8	1.6	1.5	-6.7%
Stone, Clay, & Glass Products	71.6	73.9	74.3	75.0	76.2	77.4	78.6	79.2	79.9	80.3	80.3	80.9	80.5	81.1	81.9	83.0	83.8	83.6	83.7	84.2	84.7	85.1	0.8%
Glass and Glass Products	19.3	19.8	19.9	20.1	20.5	20.8	21.0	21.2	21.5	21.8	22.0	22.2	22.4	22.7	22.9	23.2	23.4	23.5	23.5	23.6	23.7	23.7	0.9%
Cement, Hydraulic	5.0	5.0	5.1	5.1	5.1	5.2	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.5	5.5	5.6	5.6	5.6	5.6	5.7	5.7	0.6%
Other Stone, Clay, & Glass Products	47.3	49.0	49.3	49.8	50.5	51.4	52.2	52.6	53.0	53.2	53.0	53.2	52.7	53.0	53.5	54.3	54.9	54.5	54.6	54.9	55.4	55.7	0.7%

**Table 23. Industrial Sector Macroeconomic Indicators (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Primary Metals Industry	149.7	149.4	151.8	153.8	156.9	159.4	161.5	161.7	163.1	164.0	164.0	165.0	164.7	166.0	167.2	168.5	169.2	169.1	169.4	169.7	170.5	171.1	0.6%
Blast Furnace and Basic																							
Steel Products	68.1	66.9	68.4	69.2	70.9	72.3	73.4	73.2	74.0	74.3	74.1	74.5	74.2	74.8	75.3	75.8	76.1	76.0	76.0	76.3	76.8	77.0	0.6%
Aluminum	30.1	30.3	30.4	30.8	30.9	31.3	31.5	31.6	31.7	31.9	31.9	32.0	32.1	32.3	32.5	32.7	32.8	33.0	33.0	33.0	33.1	33.3	0.5%
Other Primary Metal Products	51.5	52.2	52.9	53.8	55.0	55.8	56.6	56.8	57.4	57.9	58.0	58.4	58.4	58.8	59.4	59.9	60.3	60.0	60.3	60.4	60.6	60.7	0.8%
Fabricated Metal Products	186.6	191.9	193.9	198.8	205.7	209.4	213.7	215.9	218.6	220.4	221.6	223.7	224.5	226.4	229.5	233.2	236.1	236.5	237.6	238.9	241.4	243.3	1.2%
Industrial Machinery and																							
Equipment	333.6	343.0	357.8	379.1	395.3	407.4	421.0	431.4	443.4	456.1	464.4	476.0	483.6	493.0	508.4	525.3	544.3	555.3	567.2	580.9	596.1	611.2	2.8%
Electronic and Other Electric																							
Equipment	389.0	431.0	458.5	494.8	529.4	559.3	588.7	620.8	654.0	686.1	713.5	741.2	769.1	802.2	833.3	861.8	892.4	919.5	952.6	981.6	1005.7	1027.5	4.5%
Transportation Equipment	425.0	418.2	413.5	422.3	443.3	452.7	465.9	473.3	486.7	499.5	509.4	522.6	531.9	542.6	559.5	574.9	588.0	590.6	599.7	610.3	623.2	636.6	1.9%
Instruments & Related Products	129.1	136.6	139.0	142.9	147.3	151.1	154.8	159.0	163.4	167.9	172.6	177.1	180.8	184.4	188.9	194.1	199.5	203.0	205.9	208.6	211.4	214.4	2.3%
Miscellaneous Manufacturing																							
Industries	43.3	44.4	44.7	45.5	45.9	46.6	47.2	47.3	47.6	47.8	48.1	48.7	49.2	49.8	51.0	52.1	53.2	53.4	53.5	53.8	54.3	54.9	1.1%
<b>Total Industrial Gross Output</b>	<b>4125.9</b>	<b>4244.5</b>	<b>4309.9</b>	<b>4426.0</b>	<b>4554.6</b>	<b>4659.5</b>	<b>4769.9</b>	<b>4857.3</b>	<b>4957.4</b>	<b>5050.5</b>	<b>5122.8</b>	<b>5216.4</b>	<b>5286.7</b>	<b>5379.0</b>	<b>5493.0</b>	<b>5612.8</b>	<b>5730.1</b>	<b>5798.5</b>	<b>5888.1</b>	<b>5979.7</b>	<b>6076.8</b>	<b>6170.9</b>	<b>1.8%</b>

GDP = Gross domestic product.

Emp. = Employment.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998: Standard & Poors DRI, Simulation T250899. Projections: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 24. Refining Industry Energy Consumption (1 of 1)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Industry Output (billion 1987 \$)	140.64	143.49	144.48	146.78	147.63	150.14	152.56	154.62	157.23	157.87	158.44	159.01	158.93	159.44	159.87	160.43	161.25	161.43	162.03	162.42	162.95	163.63	0.7%	
Energy Consumption (trillion Btu)																								
Residual Oil	31.2	12.0	12.1	12.0	12.0	12.0	11.9	25.9	21.8	38.7	40.5	40.6	38.0	41.0	41.1	41.4	41.6	41.8	42.2	42.5	42.7	43.0	1.5%	
Distillate Oil	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	14.0	0.0	4.0	6.2	0.0	0.0	0.0	0.0	7.3	13.2	14.5	15.7	6.9	7.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	-3.2%
Petroleum Coke	589.2	568.8	621.0	621.8	612.7	669.9	713.3	735.3	758.8	771.8	802.5	818.5	832.8	838.3	843.4	835.9	841.4	838.3	823.2	828.1	834.7	838.8	1.6%	
Still Gas	1431.0	1625.6	1614.5	1603.4	1602.3	1572.4	1554.1	1548.3	1557.4	1530.6	1500.3	1487.4	1483.3	1473.7	1459.2	1471.5	1471.4	1473.5	1489.1	1475.8	1469.6	1463.8	0.1%	
Other Petroleum 2/	32.8	32.1	35.5	33.9	32.7	32.4	31.6	31.1	23.4	18.3	17.6	15.2	24.7	27.1	27.0	17.7	26.0	12.8	27.4	11.5	10.0	24.6	-1.3%	
Petroleum Subtotal	2102.6	2238.5	2287.1	2277.3	2259.7	2286.7	2310.9	2340.6	2368.6	2372.6	2375.5	2377.4	2385.7	2387.1	2377.5	2373.3	2387.3	2373.3	2388.9	2364.9	2364.0	2377.1	0.6%	
Natural Gas	902.6	900.7	903.5	906.2	920.8	930.5	942.2	954.8	964.2	972.9	972.5	971.3	969.5	966.3	964.0	961.8	960.0	957.5	955.2	953.6	951.6	950.2	0.2%	
Steam Coal	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
Purchased Electricity	111.2	123.7	126.5	128.1	129.0	128.1	128.2	131.4	136.9	135.0	131.6	128.9	125.0	122.4	119.7	119.1	123.2	122.8	122.4	121.0	119.0	117.4	0.2%	
Total	3117.2	3262.9	3317.1	3311.6	3309.5	3345.3	3381.4	3426.8	3469.8	3480.6	3479.6	3477.6	3480.1	3475.8	3461.2	3454.2	3470.4	3453.6	3466.5	3439.5	3434.5	3444.7	0.5%	
Energy Consumption per Unit of																								
Output (thousand Btu per 1987 dollar of output)																								
Residual Oil	0.22	0.08	0.08	0.08	0.08	0.08	0.08	0.17	0.14	0.25	0.26	0.26	0.24	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.8%	
Distillate Oil	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Liquefied Petroleum Gas	0.10	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.05	0.08	0.09	0.10	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-3.8%
Petroleum Coke	4.19	3.96	4.30	4.24	4.15	4.46	4.68	4.76	4.83	4.89	5.07	5.15	5.24	5.26	5.28	5.21	5.22	5.19	5.08	5.10	5.12	5.13	0.9%	
Still Gas	10.18	11.33	11.17	10.92	10.85	10.47	10.19	10.01	9.91	9.70	9.47	9.35	9.33	9.24	9.13	9.17	9.13	9.13	9.19	9.09	9.02	8.95	-0.6%	
Other Petroleum 2/	0.23	0.22	0.25	0.23	0.22	0.22	0.21	0.20	0.15	0.12	0.11	0.10	0.16	0.17	0.17	0.11	0.16	0.08	0.17	0.07	0.06	0.15	-2.0%	
Petroleum Subtotal	14.95	15.60	15.83	15.52	15.31	15.23	15.15	15.14	15.07	15.03	14.99	14.95	15.01	14.97	14.87	14.79	14.80	14.70	14.74	14.56	14.51	14.53	-0.1%	
Natural Gas	6.42	6.28	6.25	6.17	6.24	6.20	6.18	6.18	6.13	6.16	6.14	6.11	6.10	6.06	6.03	5.99	5.95	5.93	5.89	5.87	5.84	5.81	-0.5%	
Steam Coal	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Purchased Electricity	0.79	0.86	0.88	0.87	0.87	0.85	0.84	0.85	0.87	0.86	0.83	0.81	0.79	0.77	0.75	0.74	0.76	0.76	0.76	0.75	0.73	0.72	-0.4%	
Total	22.17	22.74	22.96	22.56	22.42	22.28	22.16	22.16	22.07	22.05	21.96	21.87	21.90	21.80	21.65	21.53	21.52	21.39	21.39	21.18	21.08	21.05	-0.2%	
Carbon Emissions (billion kg.)	53.3	56.5	57.4	57.3	57.3	57.7	58.1	59.0	59.7	59.8	59.5	59.3	59.2	59.0	58.7	58.5	59.0	58.7	59.0	58.4	58.2	58.4	0.4%	

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes lubricants and miscellaneous petroleum products.

Btu = British thermal unit.

N/A = Not applicable.

\$ = Dollars

KG. = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 25. Food Industry Energy Consumption (1 of 1)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Industry Output (billion 1987 \$)	409.86	421.54	425.65	429.94	433.59	437.69	442.61	446.68	450.72	454.50	457.95	462.30	466.85	471.50	476.77	482.71	488.87	494.05	499.51	504.81	510.39	516.25	1.1%	
Energy Consumption (trillion Btu)																								
Residual Oil	26.5	24.7	25.9	26.2	26.4	26.7	27.1	27.5	27.8	28.0	28.1	28.2	28.4	28.6	28.8	29.2	29.5	29.7	30.1	30.4	30.7	30.9	0.7%	
Distillate Oil	19.9	18.3	19.2	19.4	19.6	19.9	20.2	20.4	20.6	20.8	20.8	20.9	21.0	21.2	21.3	21.6	21.8	22.0	22.2	22.4	22.6	22.8	0.6%	
Liquefied Petroleum Gas	5.4	4.9	5.1	5.2	5.2	5.4	5.5	5.6	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.9	5.9	6.0	6.0	6.1	6.1	6.2	0.6%	
Other Petroleum 2/	92.6	89.6	93.6	94.8	96.1	97.7	99.7	101.5	103.1	104.6	105.5	106.7	108.1	109.6	111.2	113.2	115.1	116.8	118.6	120.3	122.1	124.3	1.3%	
Petroleum Subtotal	144.5	137.5	143.9	145.5	147.4	149.6	152.5	155.0	157.2	159.0	160.0	161.6	163.2	165.1	167.2	169.8	172.3	174.5	176.9	179.1	181.5	184.2	1.1%	
Natural Gas	654.5	678.8	678.2	682.0	684.3	686.4	689.3	691.2	693.4	695.9	699.1	704.1	709.6	715.3	722.3	730.4	739.3	746.6	754.7	762.7	770.7	778.7	0.8%	
Steam Coal	156.9	158.1	158.3	158.6	158.9	159.3	159.8	160.2	160.6	160.8	161.0	161.3	161.6	161.8	162.1	162.3	162.6	162.9	163.1	163.4	163.8	164.4	0.2%	
Renewables	12.3	12.8	12.9	13.1	13.2	13.3	13.5	13.6	13.8	13.9	14.0	14.1	14.3	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.9	1.2%	
Purchased Electricity	209.8	216.2	217.9	220.2	222.1	224.2	227.1	229.1	231.1	233.0	234.6	236.4	238.8	241.0	243.5	246.3	249.3	252.0	254.8	257.5	260.6	263.8	1.0%	
Total	1178.0	1203.4	1211.1	1219.3	1225.8	1232.9	1242.1	1249.2	1256.0	1262.6	1268.8	1277.5	1287.4	1297.8	1309.7	1323.6	1338.5	1351.2	1364.9	1378.2	1392.3	1407.0	0.8%	
Energy Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																								
Residual Oil	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.3%	
Distillate Oil	0.05	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.4%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.5%
Other Petroleum 2/	0.23	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.3%
Petroleum Subtotal	0.35	0.33	0.34	0.34	0.34	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	0.35	0.35	0.36	0.36	0.1%	
Natural Gas	1.60	1.61	1.59	1.59	1.58	1.57	1.56	1.55	1.54	1.53	1.53	1.52	1.52	1.52	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	-0.3%
Steam Coal	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	-0.8%
Renewables	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.1%
Purchased Electricity	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.0%
Total	2.87	2.85	2.85	2.84	2.83	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.76	2.75	2.75	2.74	2.74	2.73	2.73	2.73	2.73	2.73	2.73	-0.2%
Carbon Emissions (bill. Kg.)	26.8	27.7	27.9	28.1	28.4	28.6	28.8	29.0	29.2	29.3	29.4	29.6	29.8	30.0	30.2	30.6	31.0	31.3	31.6	31.9	32.2	32.6	0.9%	

1/ Fuel consumption includes consumption for cogeneration.

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

Btu = British thermal unit.

Bill = Billion

N/A = Not applicable.

\$ = Dollars.

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 26. Paper Industry Energy Consumption (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Industry Output (billion 1987 \$)	127.62	132.09	134.52	136.66	139.09	141.24	143.41	145.05	146.64	148.14	149.33	150.89	151.83	153.18	154.83	156.81	158.78	160.10	161.31	162.55	164.00	165.56	1.2%
Energy Consumption (trillion Btu)																							
Residual Oil	159.2	146.2	152.9	153.3	154.6	156.0	157.8	158.9	159.6	159.9	159.0	158.7	157.7	157.5	157.8	159.2	160.9	161.9	163.0	163.9	165.3	166.7	0.2%
Distillate Oil	12.1	11.2	11.6	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.3	12.3	12.2	12.2	12.2	12.4	12.5	12.6	12.7	12.7	12.9	13.0	0.3%
Liquefied Petroleum Gas	3.7	3.4	3.5	3.6	3.6	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.1	0.5%
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	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	175.0	160.8	168.1	168.6	170.1	171.7	173.7	175.0	175.8	176.1	175.1	174.9	173.8	173.6	173.9	175.5	177.4	178.5	179.6	180.7	182.2	183.7	0.2%
Natural Gas	648.0	669.3	668.1	670.8	674.8	676.0	676.7	674.3	671.6	669.2	666.3	665.3	661.0	659.7	660.8	665.6	671.6	674.6	677.5	681.3	686.5	693.1	0.3%
Steam Coal	305.9	302.4	300.3	298.3	296.3	294.3	292.4	290.5	288.5	286.6	284.7	282.9	281.1	279.6	278.2	277.5	277.2	277.0	276.8	276.7	276.6	276.6	-0.5%
Renewables	1373.6	1412.7	1436.9	1458.5	1482.7	1504.6	1526.8	1543.6	1559.9	1575.7	1588.3	1604.2	1614.4	1628.1	1644.8	1664.8	1684.8	1697.9	1710.0	1722.4	1737.0	1753.4	1.1%
Purchased Electricity	252.3	261.4	262.8	265.6	268.8	271.7	274.9	277.0	279.0	280.9	282.3	284.1	285.4	287.2	289.5	292.4	295.6	297.9	300.1	302.4	305.3	308.5	0.9%
Total	2754.8	2806.6	2836.2	2861.8	2892.6	2918.3	2944.5	2960.4	2974.8	2988.6	2996.7	3011.4	3015.7	3028.3	3047.3	3075.9	3106.5	3125.9	3144.2	3163.5	3187.6	3215.3	0.7%
Energy Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																							
Residual Oil	1.25	1.11	1.14	1.12	1.11	1.10	1.10	1.10	1.09	1.08	1.06	1.05	1.04	1.03	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01	-1.0%
Distillate Oil	0.09	0.08	0.09	0.09	0.09	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	0.08	0.08	0.08	0.08	-0.9%
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	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-0.7%
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	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	1.37	1.22	1.25	1.23	1.22	1.22	1.21	1.21	1.20	1.19	1.17	1.16	1.14	1.13	1.12	1.12	1.12	1.12	1.11	1.11	1.11	1.11	-1.0%
Natural Gas	5.08	5.07	4.97	4.91	4.85	4.79	4.72	4.65	4.58	4.52	4.46	4.41	4.35	4.31	4.27	4.24	4.23	4.21	4.20	4.19	4.19	4.19	-0.9%
Steam Coal	2.40	2.29	2.23	2.18	2.13	2.08	2.04	2.00	1.97	1.93	1.91	1.87	1.85	1.83	1.80	1.77	1.75	1.73	1.72	1.70	1.69	1.67	-1.6%
Renewables	10.76	10.69	10.68	10.67	10.66	10.65	10.65	10.64	10.64	10.64	10.64	10.63	10.63	10.63	10.62	10.62	10.61	10.60	10.60	10.60	10.59	10.59	-0.1%
Purchased Electricity	1.98	1.98	1.95	1.94	1.93	1.92	1.92	1.91	1.90	1.90	1.89	1.88	1.88	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	-0.3%
Total	21.59	21.25	21.08	20.94	20.80	20.66	20.53	20.41	20.29	20.17	20.07	19.96	19.86	19.77	19.68	19.62	19.56	19.52	19.49	19.46	19.44	19.42	-0.5%
Carbon Emissions (bill. kg)	33.3	34.1	34.4	34.5	34.8	34.9	35.1	35.1	35.1	35.1	35.0	34.9	34.8	34.8	34.9	35.2	35.6	35.7	35.9	36.1	36.4	36.6	0.4%

1/ Fuel consumption includes consumption for cogeneration.

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

Btu = British thermal unit.

Bill. = Billion.

N/A = Not applicable.

\$ = Dollars.

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO99 National Energy Modeling System run AEO2000.D100198A.

**Table 27. Bulk Chemical Industry Energy Consumption (1 of 1)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Industry Output (billion 1987 \$)	155.59	156.05	158.08	160.07	163.61	165.88	168.14	170.09	172.32	174.47	176.38	178.46	179.89	182.47	184.98	187.26	189.06	190.41	192.15	193.59	195.62	197.83	1.1%	
Energy Consumption (trillion Btu)																								
Heat and Power																								
Residual Oil	53.3	48.6	50.8	51.2	52.3	53.2	54.3	55.3	56.3	57.2	57.6	58.2	58.6	59.4	60.1	61.0	61.6	62.1	62.7	63.2	63.9	64.6	0.9%	
Distillate Oil	6.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	0.3%	
Liquefied Petroleum Gas	1.9	1.7	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	0.7%	
Other Petroleum 2/	477.8	449.5	466.1	470.8	481.3	489.9	500.3	510.0	520.2	528.4	533.3	538.6	542.6	550.3	558.2	566.9	573.6	578.9	585.4	590.4	597.6	606.9	1.1%	
Petroleum Subtotal	539.4	505.3	524.3	529.5	541.2	550.9	562.5	573.4	584.8	593.9	599.3	605.2	609.8	618.3	627.1	636.6	644.0	649.9	657.1	662.6	670.6	680.6	1.1%	
Natural Gas	1794.3	1814.4	1817.9	1833.4	1865.0	1879.0	1889.9	1897.5	1908.4	1920.2	1932.7	1947.8	1953.6	1971.4	1991.8	2011.9	2027.6	2038.3	2053.2	2066.4	2085.0	2103.9	0.7%	
Steam Coal	207.1	207.9	208.1	208.3	208.4	208.6	208.8	209.1	209.3	209.5	209.6	209.8	209.9	210.1	210.2	210.3	210.4	210.6	210.7	210.9	211.0	211.2	0.1%	
Purchased Electricity	474.6	477.9	484.2	492.2	506.0	515.5	525.8	534.0	543.1	551.8	559.4	566.7	573.0	583.3	593.2	601.8	609.2	615.2	622.5	628.7	637.7	647.5	1.4%	
Total Heat and Power	3015.4	3005.5	3034.5	3063.4	3120.6	3154.0	3187.0	3214.0	3245.7	3275.5	3301.1	3329.5	3346.3	3383.1	3422.2	3460.7	3491.2	3514.0	3543.6	3568.5	3604.3	3643.3	0.9%	
Feedstock																								
Liquefied Petroleum Gas	1625.2	1626.7	1645.4	1663.8	1697.8	1718.9	1740.1	1758.3	1779.3	1799.5	1817.4	1836.9	1850.1	1874.6	1898.6	1920.2	1937.1	1949.5	1965.7	1979.0	1998.2	2019.2	1.0%	
Petrochemical Feedstocks	1313.1	1314.3	1329.5	1344.4	1371.8	1388.9	1406.0	1420.7	1437.7	1454.0	1468.4	1484.2	1494.9	1514.7	1534.1	1551.6	1565.2	1575.2	1588.3	1599.0	1614.5	1631.5	1.0%	
Natural Gas	715.8	716.4	724.7	732.8	747.8	757.1	766.4	774.4	783.7	792.6	800.4	809.0	814.9	825.7	836.2	845.7	853.2	858.6	865.8	871.6	880.1	889.3	1.0%	
Total Feedstocks	3654.1	3657.4	3699.7	3741.0	3817.3	3864.8	3912.5	3953.4	4000.6	4046.1	4086.3	4130.1	4159.8	4214.9	4268.8	4317.5	4355.4	4383.3	4419.7	4449.6	4492.8	4540.0	1.0%	
Total	6669.5	6663.0	6734.2	6804.4	6937.9	7018.8	7099.6	7167.4	7246.3	7321.6	7387.3	7459.6	7506.1	7598.0	7691.0	7778.2	7846.5	7897.3	7963.3	8018.1	8097.1	8183.3	0.9%	
Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																								
Heat and Power																								
Residual Oil	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%	
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%	
Other Petroleum	3.1	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1	0.0%	
Petroleum Subtotal	3.5	3.2	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0%	
Natural Gas 2/	11.5	11.6	11.5	11.5	11.4	11.3	11.2	11.1	11.0	11.0	10.9	10.9	10.8	10.8	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.6	10.6	-0.4%
Steam Coal	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-1.0%	
Purchased Electricity	3.1	3.1	3.1	3.1	3.1	3.1	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	3.2	3.3	3.3	0.3%	
Total Heat and Power	19.4	19.3	19.2	19.1	19.1	19.0	19.0	18.9	18.8	18.8	18.7	18.7	18.6	18.5	18.5	18.5	18.5	18.5	18.4	18.4	18.4	18.4	-0.2%	
Feedstock																								
Liquefied Petroleum Gas	10.4	10.4	10.4	10.4	10.4	10.4	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2	10.2	10.2	-0.1%	
Petrochemical Feedstocks	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	-0.1%	
Natural Gas 2/	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	-0.1%	
Total Feedstocks	23.5	23.4	23.4	23.4	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.1	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.0	23.0	22.9	-0.1%	
Total	42.9	42.7	42.6	42.5	42.4	42.3	42.2	42.1	42.1	42.0	41.9	41.8	41.7	41.6	41.6	41.5	41.5	41.5	41.4	41.4	41.4	41.4	-0.2%	
Carbon Emissions (bill. kg)	84.2	84.8	85.9	86.8	88.7	89.9	91.0	92.0	93.1	94.0	94.7	95.5	96.1	97.2	98.5	99.7	100.9	101.5	102.6	103.3	104.4	105.5	1.0%	

1/ Fuel consumption includes consumption for cogeneration.

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

Btu = British thermal unit. N/A = Not applicable. \$ = Dollars Bill. = Billion

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 28. Glass Industry Energy Consumption (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Industry Output (billion 1987 \$)	19.32	19.80	19.91	20.07	20.48	20.79	21.04	21.24	21.53	21.81	22.02	22.25	22.40	22.66	22.93	23.19	23.39	23.45	23.54	23.59	23.65	23.68	0.9%
Energy Consumption (trillion Btu)																							
Residual Oil	4.9	4.3	4.6	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.1	5.2	5.2	5.2	5.2	5.2	5.3	5.2	5.2	5.2	5.2	5.3	0.3%
Distillate Oil	0.7	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	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	-0.3%
Liquefied Petroleum Gas	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	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4%
Petroleum Subtotal	6.1	5.3	5.6	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.3	6.3	6.4	6.4	6.5	6.5	6.5	6.5	6.4	6.5	6.5	0.3%
Natural Gas	169.1	171.5	171.0	171.2	173.3	174.5	175.1	175.4	176.5	177.4	177.9	178.6	178.7	179.6	180.6	181.7	182.3	181.9	181.7	181.3	181.1	180.8	0.3%
Purchased Electricity	32.7	33.6	33.7	34.0	34.7	35.3	35.8	36.1	36.6	37.0	37.3	37.6	37.8	38.2	38.5	38.8	39.1	39.1	39.2	39.2	39.3	39.4	0.8%
Total	207.9	210.4	210.4	210.9	213.8	215.6	216.9	217.6	219.3	220.7	221.5	222.5	222.8	224.1	225.5	227.0	227.8	227.5	227.4	227.0	226.9	226.7	0.4%
Energy Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																							
Residual Oil	0.26	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	-0.6%
Distillate Oil	0.04	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.2%
Liquefied Petroleum Gas	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.5%
Petroleum Subtotal	0.32	0.27	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	-0.7%
Natural Gas	8.75	8.66	8.59	8.53	8.46	8.39	8.32	8.26	8.19	8.13	8.08	8.03	7.98	7.92	7.88	7.83	7.79	7.76	7.72	7.69	7.66	7.64	-0.6%
Purchased Electricity	1.69	1.70	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.69	1.69	1.69	1.68	1.68	1.67	1.67	1.67	1.67	1.66	1.66	1.66	-0.1%
Total	10.76	10.63	10.57	10.51	10.44	10.37	10.31	10.25	10.18	10.12	10.06	10.00	9.95	9.89	9.84	9.79	9.74	9.70	9.66	9.62	9.59	9.57	-0.5%
Carbon Emissions (bill. kg)	4.2	4.3	4.3	4.3	4.4	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.7	0.6%

1/ Fuel consumption includes consumption for cogeneration.

Btu = British thermal unit.

Bill. = Billion.

N/A = Not applicable.

\$ = Dollars.

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 29. Cement Industry Energy Consumption (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Industry Output (billion 1987 \$)	4.96	5.04	5.07	5.08	5.14	5.21	5.29	5.32	5.35	5.37	5.36	5.41	5.38	5.44	5.48	5.54	5.57	5.57	5.60	5.63	5.66	5.71	0.6%	
Energy Consumption (trillion Btu)																								
Residual Oil	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	-1.7%	
Distillate Oil	3.5	2.6	2.7	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	-2.2%	
Other Petroleum 2/	73.8	74.1	74.1	73.7	74.2	74.6	75.3	75.2	75.2	74.9	74.5	74.6	73.9	74.2	74.4	74.7	74.6	74.4	74.4	74.4	74.5	74.6	74.9	0.1%
Petroleum Subtotal	78.8	77.9	78.0	77.6	78.0	78.4	79.0	78.9	78.9	78.6	78.0	78.1	77.4	77.7	77.8	78.0	78.0	77.7	77.7	77.7	77.8	78.1	0.0%	
Natural Gas	27.3	25.7	25.4	24.8	24.5	23.9	23.3	22.7	22.1	21.6	21.2	21.0	20.6	20.4	20.2	20.2	19.9	19.6	19.4	19.3	19.1	18.9	-1.7%	
Steam Coal	262.0	265.3	265.0	263.6	265.1	267.0	269.6	269.8	269.9	268.9	267.3	267.6	264.9	265.8	266.2	267.0	266.9	266.0	266.4	266.5	267.1	268.4	0.1%	
Purchased Electricity	47.7	48.3	48.5	48.6	49.1	49.7	50.4	50.5	50.7	50.7	50.6	50.8	50.6	51.0	51.3	51.6	51.7	51.6	51.8	51.9	52.2	52.5	0.4%	
Total	415.8	417.2	416.9	414.5	416.6	419.0	422.4	421.9	421.6	419.8	417.1	417.5	413.4	414.8	415.5	416.8	416.5	414.9	415.3	415.5	416.2	417.8	0.0%	
Energy Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																								
Residual Oil	0.29	0.23	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.18	0.18	-2.3%	
Distillate Oil	0.71	0.52	0.52	0.52	0.50	0.49	0.48	0.48	0.47	0.46	0.44	0.44	0.44	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.38	-2.8%	
Other Petroleum 2/	14.89	14.70	14.61	14.53	14.43	14.32	14.22	14.13	14.05	13.97	13.89	13.81	13.74	13.65	13.56	13.47	13.39	13.34	13.29	13.23	13.18	13.12	-0.6%	
Petroleum Subtotal	15.90	15.45	15.38	15.28	15.17	15.05	14.93	14.83	14.73	14.64	14.55	14.45	14.38	14.28	14.18	14.09	14.00	13.94	13.87	13.81	13.75	13.68	-0.7%	
Natural Gas	5.51	5.09	5.00	4.89	4.76	4.59	4.41	4.26	4.13	4.03	3.96	3.89	3.82	3.75	3.69	3.64	3.58	3.52	3.47	3.43	3.37	3.31	-2.3%	
Steam Coal	52.87	52.60	52.22	51.92	51.57	51.26	50.94	50.68	50.41	50.12	49.83	49.50	49.22	48.87	48.54	48.20	47.90	47.73	47.54	47.36	47.17	47.03	-0.5%	
Purchased Electricity	9.62	9.59	9.56	9.57	9.55	9.53	9.52	9.50	9.47	9.45	9.44	9.40	9.40	9.37	9.35	9.31	9.28	9.27	9.24	9.23	9.21	9.20	-0.2%	
Total	83.91	82.73	82.17	81.66	81.05	80.43	79.80	79.27	78.74	78.25	77.78	77.24	76.81	76.27	75.76	75.23	74.76	74.46	74.13	73.82	73.50	73.22	-0.6%	
Carbon Emissions (bill. kg)	11.0	11.1	11.2	11.1	11.2	11.3	11.4	11.4	11.4	11.3	11.2	11.3	11.1	11.2	11.2	11.2	11.3	11.2	11.2	11.3	11.3	11.3	0.1%	

1/ Fuel consumption includes consumption for cogeneration.

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

Btu = British thermal unit.

Bill. = Billion.

N/A = Not applicable.

\$ = Dollars.

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 30. Iron and Steel Industries Energy Consumption (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Industry Output (billion 1987 \$)	68.06	66.92	68.43	69.16	70.94	72.34	73.39	73.22	73.98	74.33	74.05	74.54	74.24	74.83	75.33	75.83	76.10	76.03	76.01	76.28	76.76	77.03	0.6%
Energy Consumption (trillion Btu)																							
Residual Oil	44.9	39.2	41.5	41.5	42.4	43.1	43.8	43.6	43.9	43.7	42.9	42.7	42.0	41.9	41.8	41.7	41.5	41.1	40.8	40.7	40.8	41.0	-0.4%
Other Petroleum 2/	52.7	47.4	48.8	48.8	50.2	51.2	51.8	51.0	51.1	50.8	49.7	49.4	48.3	48.1	47.9	47.8	47.3	46.5	45.8	45.5	45.5	45.3	-0.7%
Petroleum Subtotal	97.7	86.5	90.3	90.2	92.6	94.4	95.6	94.6	95.0	94.5	92.6	92.0	90.3	90.0	89.7	89.5	88.9	87.7	86.6	86.2	86.3	86.3	-0.6%
Natural Gas	495.1	486.3	488.7	489.3	494.6	497.7	498.3	493.8	493.7	492.5	489.0	489.3	485.6	486.2	486.8	487.8	487.9	486.2	485.1	485.4	486.7	486.8	-0.1%
Metallurgical Coal	795.0	767.9	754.5	741.3	728.3	715.6	703.1	690.8	678.7	666.8	655.1	643.6	632.3	621.2	610.3	599.5	589.0	578.9	569.0	559.3	549.7	540.4	-1.7%
Net Coke Imports	89.8	96.4	113.0	124.0	141.3	156.4	169.2	174.0	184.6	192.7	196.7	205.3	209.1	218.1	226.6	234.9	241.7	246.5	251.5	258.4	266.5	273.2	5.2%
Steam Coal	83.4	85.1	85.8	86.2	87.1	88.2	89.3	89.4	90.2	90.4	90.0	90.4	90.0	90.5	90.8	91.1	91.3	91.2	91.1	91.4	92.0	92.6	0.5%
Coal Subtotal	968.2	949.4	953.3	951.5	956.8	960.2	961.6	954.2	953.5	949.9	941.7	939.3	931.4	929.8	927.7	925.5	921.9	916.6	911.7	909.1	908.2	906.3	-0.3%
Purchased Electricity	161.6	159.1	163.2	165.8	171.4	176.1	180.1	179.9	182.5	183.8	183.4	184.7	184.3	186.3	187.9	189.4	190.2	190.4	190.5	191.6	193.6	195.0	0.9%
Total	1722.6	1681.3	1695.5	1696.8	1715.4	1728.5	1735.7	1722.4	1724.7	1720.7	1706.7	1705.3	1691.6	1692.3	1692.1	1692.1	1688.9	1680.9	1673.9	1672.4	1674.8	1674.4	-0.1%
Energy Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																							
Residual Oil	0.66	0.59	0.61	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.58	0.57	0.57	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.53	-1.0%
Other Petroleum 2/	0.77	0.71	0.71	0.71	0.71	0.71	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.64	0.63	0.62	0.61	0.60	0.60	0.59	0.59	-1.2%
Petroleum Subtotal	1.44	1.29	1.32	1.30	1.30	1.30	1.30	1.29	1.28	1.27	1.25	1.23	1.22	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.12	1.12	-1.1%
Natural Gas	7.27	7.27	7.14	7.07	6.97	6.88	6.79	6.74	6.67	6.63	6.60	6.56	6.54	6.50	6.46	6.43	6.41	6.39	6.38	6.36	6.34	6.32	-0.6%
Metallurgical Coal	11.68	11.47	11.03	10.72	10.27	9.89	9.58	9.44	9.17	8.97	8.85	8.63	8.52	8.30	8.10	7.91	7.74	7.61	7.49	7.33	7.16	7.02	-2.3%
Net Coke Imports	1.32	1.44	1.65	1.79	1.99	2.16	2.31	2.38	2.50	2.59	2.66	2.75	2.82	2.91	3.01	3.10	3.18	3.24	3.31	3.39	3.47	3.55	4.6%
Steam Coal	1.23	1.27	1.25	1.25	1.23	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	-0.1%
Coal Subtotal	14.23	14.19	13.93	13.76	13.49	13.27	13.10	13.03	12.89	12.78	12.72	12.60	12.55	12.43	12.31	12.21	12.11	12.06	11.99	11.92	11.83	11.76	-0.9%
Purchased Electricity	2.37	2.38	2.38	2.40	2.42	2.43	2.45	2.46	2.47	2.47	2.48	2.48	2.48	2.49	2.49	2.50	2.50	2.50	2.51	2.51	2.52	2.53	0.3%
Total	25.31	25.12	24.78	24.53	24.18	23.89	23.65	23.52	23.31	23.15	23.05	22.88	22.78	22.62	22.46	22.32	22.19	22.11	22.02	21.93	21.82	21.74	-0.7%
Carbon Emissions (bill. kg)	41.7	41.0	41.5	41.5	42.1	42.6	42.8	42.5	42.7	42.6	42.2	42.1	41.8	41.8	41.9	41.9	41.9	41.7	41.6	41.6	41.7	41.7	0.0%

1/ Fuel consumption includes consumption for cogeneration.  
 2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.  
 Btu = British thermal unit.  
 Bill. = Billion.  
 N/A = Not applicable.  
 \$ = Dollars.  
 KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 31. Aluminum Industry Energy Consumption (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Industry Output (billion 1987 \$)	30.12	30.32	30.43	30.78	30.92	31.26	31.55	31.64	31.73	31.85	31.91	32.00	32.09	32.31	32.49	32.70	32.82	32.98	33.04	33.05	33.12	33.34	0.5%	
Energy Consumption (trillion Btu)																								
Distillate Oil	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Petroleum Coke	14.2	14.1	14.1	14.2	14.2	14.2	14.3	14.3	14.2	14.2	14.2	14.2	14.2	14.2	14.3	14.3	14.3	14.4	14.4	14.3	14.4	14.4	14.4	0.1%
Other Petroleum	30.8	30.8	30.7	30.9	30.9	31.1	31.3	31.2	31.2	31.2	31.1	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.2	31.1	31.1	31.2	31.2	0.1%
Petroleum Subtotal	45.2	45.0	45.0	45.2	45.2	45.5	45.7	45.6	45.5	45.5	45.4	45.4	45.3	45.4	45.5	45.6	45.6	45.7	45.7	45.6	45.6	45.8	45.8	0.1%
Natural Gas	82.5	82.0	81.9	82.3	82.3	82.6	82.9	82.7	82.5	82.3	82.1	81.9	81.7	81.9	82.1	82.2	82.3	82.4	82.4	82.3	82.3	82.6	82.6	0.0%
Purchased Electricity	215.7	215.3	215.3	217.1	217.5	219.4	220.8	220.8	220.9	221.2	221.1	221.2	221.3	222.3	223.1	224.0	224.6	225.3	225.5	225.3	225.6	226.8	226.8	0.2%
Total	343.4	342.3	342.1	344.7	345.0	347.5	349.3	349.1	348.9	349.1	348.6	348.5	348.3	349.6	350.6	351.9	352.5	353.5	353.7	353.2	353.5	355.3	355.3	0.2%
Energy Consumption per Unit of Output (thousand Btu per 1987 dollar of output)																								
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.4%
Petroleum Coke	0.47	0.47	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.43	-0.4%
Other Petroleum	1.02	1.01	1.01	1.00	1.00	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.97	0.96	0.96	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	-0.4%
Petroleum Subtotal	1.50	1.48	1.48	1.47	1.46	1.46	1.45	1.44	1.44	1.43	1.42	1.42	1.41	1.41	1.40	1.40	1.39	1.39	1.38	1.38	1.38	1.37	1.37	-0.4%
Natural Gas	2.74	2.71	2.69	2.67	2.66	2.64	2.63	2.61	2.60	2.58	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.50	2.49	2.49	2.48	2.48	2.48	-0.5%
Purchased Electricity	7.16	7.10	7.07	7.05	7.04	7.02	7.00	6.98	6.96	6.95	6.93	6.91	6.90	6.88	6.87	6.85	6.84	6.83	6.83	6.82	6.81	6.80	6.80	-0.2%
Total	11.40	11.29	11.24	11.20	11.16	11.11	11.07	11.03	11.00	10.96	10.92	10.89	10.85	10.82	10.79	10.76	10.74	10.72	10.70	10.69	10.67	10.66	10.66	-0.3%
Carbon Emissions (bill. kg)	12.8	13.1	13.1	13.2	13.3	13.4	13.5	13.5	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.4	13.5	13.5	13.6	13.6	13.6	13.6	13.6	0.3%

1/ Fuel consumption includes consumption for cogeneration.

Btu = British thermal unit.

Bill. = Billion.

N/A = Not applicable.

\$ = Dollars.

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 32. Other Industrial Sector Energy Consumption (1 of 2)  
(Trillion Btu)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Agriculture</b>																							
Distillate Oil	564.0	578.1	584.1	594.2	601.3	609.6	617.5	624.1	631.2	638.4	643.9	652.4	659.4	667.1	677.3	687.0	695.8	701.5	710.2	719.1	727.7	736.3	1.2%
Liquid Petroleum Gas	77.8	79.8	80.6	82.0	83.0	84.1	85.2	86.1	87.1	88.1	88.9	90.1	91.0	92.1	93.5	94.8	96.1	96.8	98.0	99.3	100.5	101.7	1.2%
Motor Gasoline	92.4	94.7	95.7	97.3	98.5	99.9	101.2	102.3	103.4	104.6	105.5	106.9	108.0	109.3	111.0	112.6	114.0	114.9	116.4	117.8	119.2	120.7	1.2%
Other Petroleum	16.4	16.9	17.0	17.3	17.5	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.2	19.4	19.7	20.0	20.3	20.4	20.7	20.9	21.2	21.4	1.2%
Petroleum Subtotal	750.7	769.4	777.4	790.8	800.3	811.4	821.9	830.7	840.1	849.8	857.1	868.3	877.7	888.0	901.5	914.4	926.2	933.7	945.3	957.2	968.7	980.1	1.2%
Natural Gas	48.9	50.1	50.6	51.5	52.1	52.9	53.6	54.1	54.8	55.4	55.9	56.6	57.2	57.9	58.8	59.6	60.4	60.9	61.7	62.5	63.2	64.0	1.2%
Steam Coal	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5%
Renewables	19.4	19.9	20.1	20.5	20.7	21.0	21.3	21.6	21.8	22.1	22.3	22.6	22.8	23.1	23.4	23.8	24.1	24.3	24.6	24.9	25.2	25.5	1.2%
Purchased Electricity	134.5	137.9	139.3	141.7	143.4	145.4	147.3	148.8	150.5	152.2	153.5	155.5	157.2	159.1	161.5	163.8	165.9	167.2	169.3	171.4	173.5	175.5	1.2%
<b>Total</b>	954.0	977.8	988.0	1005.0	1017.1	1031.1	1044.6	1055.7	1067.7	1080.0	1089.2	1103.5	1115.5	1128.5	1145.7	1162.1	1177.1	1186.7	1201.4	1216.5	1231.1	1245.6	1.2%
Industry Output (billion 1987 \$)	258.42	264.40	267.06	270.80	273.83	277.27	280.58	283.30	286.12	288.96	291.19	294.55	297.37	300.48	304.53	308.68	312.61	315.20	318.74	322.37	326.02	329.73	1.1%
Energy Consumption per Unit of Output																							
(thous. Btu/1987 \$ of output)	3.69	3.70	3.70	3.71	3.71	3.72	3.72	3.73	3.73	3.74	3.74	3.75	3.75	3.76	3.76	3.76	3.77	3.76	3.77	3.77	3.78	3.78	0.1%
Carbon Emissions (bill. Kg.)	22.0	22.8	23.0	23.4	23.7	24.1	24.4	24.6	24.9	25.1	25.3	25.6	25.9	26.1	26.5	26.9	27.4	27.6	27.9	28.3	28.6	28.9	1.3%
<b>Construction</b>																							
Distillate Oil	191.8	199.0	201.0	205.7	209.7	215.5	221.2	225.1	228.4	231.0	232.8	235.7	237.3	240.6	244.8	251.0	256.9	259.1	261.5	265.0	269.9	273.8	1.6%
Motor Gasoline	118.0	122.4	123.6	126.5	129.0	132.5	136.0	138.4	140.5	142.1	143.2	145.0	145.9	148.0	150.6	154.4	158.0	159.4	160.9	163.0	166.0	168.4	1.6%
Asphalt and Road Oil	1314.0	1360.2	1372.5	1403.3	1429.8	1468.5	1507.0	1533.8	1556.8	1574.9	1587.3	1607.9	1618.9	1641.9	1670.6	1712.8	1753.3	1769.6	1786.9	1811.3	1844.7	1873.3	1.6%
Petroleum Subtotal	1623.9	1681.6	1697.2	1735.5	1768.6	1816.5	1864.2	1897.3	1925.8	1948.1	1963.2	1988.6	2002.1	2030.5	2066.1	2118.2	2168.2	2188.1	2209.3	2239.3	2280.6	2315.6	1.6%
Natural Gas	191.4	198.6	200.6	205.3	209.2	215.0	220.7	224.6	227.9	230.5	232.2	235.2	236.7	240.1	244.3	250.4	256.3	258.5	260.9	264.4	269.2	273.2	1.6%
Steam Coal	144.0	149.4	150.9	154.4	157.4	161.7	166.0	169.0	171.5	173.4	174.7	176.9	178.1	180.6	183.8	188.4	192.8	194.5	196.3	198.9	202.6	205.5	1.6%
Purchased Electricity	124.5	129.2	130.5	133.5	136.1	139.9	143.6	146.1	148.3	150.0	151.1	153.0	154.0	156.2	158.9	162.9	166.7	168.2	169.7	172.0	175.1	177.7	1.6%
<b>Total</b>	2083.8	2158.8	2179.1	2228.7	2271.3	2333.0	2394.5	2436.9	2473.4	2502.0	2521.3	2553.7	2570.9	2607.3	2653.0	2720.0	2784.1	2809.4	2836.2	2874.7	2927.5	2972.0	1.6%
Industry Output (billion 1987 \$)	439.53	456.87	461.88	473.27	483.01	496.95	510.78	520.31	528.48	534.83	539.15	546.37	550.20	558.35	568.54	583.49	597.73	603.24	609.13	617.62	629.25	638.86	1.7%
Energy Consumption per Unit of Output																							
(thous. Btu/1987 \$ of output)	4.74	4.73	4.72	4.71	4.70	4.69	4.69	4.68	4.68	4.68	4.68	4.67	4.67	4.67	4.67	4.66	4.66	4.66	4.66	4.65	4.65	4.65	-0.1%
Carbon Emissions (bill. Kg.)	18.7	19.6	19.8	20.2	20.7	21.3	21.8	22.2	22.5	22.7	22.9	23.1	23.2	23.5	24.0	24.6	25.2	25.4	25.7	26.0	26.5	26.8	1.7%
<b>Mining</b>																							
Residual Oil	25.3	25.3	25.4	25.8	26.2	26.5	26.8	27.0	27.3	27.4	27.5	27.7	27.7	27.9	28.1	28.4	28.6	28.7	28.8	29.0	29.1	29.3	0.7%
Distillate Oil	174.4	174.1	175.2	177.4	180.4	182.8	184.7	186.2	187.7	189.0	189.5	190.5	191.1	192.1	193.6	195.4	197.2	197.6	198.8	199.7	200.8	201.9	0.7%
Motor Gasoline	14.3	14.1	14.0	14.0	14.1	14.2	14.3	14.5	14.7	14.9	14.9	15.1	15.3	15.4	15.6	15.8	16.0	16.1	16.3	16.4	16.5	16.6	0.7%
Other Petroleum	7.9	7.7	7.5	7.5	7.5	7.5	7.6	7.8	7.9	8.0	8.0	8.2	8.3	8.4	8.5	8.7	8.8	8.9	9.0	9.1	9.1	9.2	0.7%
Petroleum Subtotal	221.9	221.2	222.2	224.6	228.2	231.0	233.5	235.5	237.5	239.3	240.0	241.5	242.4	243.8	245.8	248.2	250.6	251.3	252.9	254.1	255.5	256.9	0.7%
Natural Gas	357.3	350.9	343.0	340.4	342.0	343.0	347.4	352.6	358.3	362.8	365.5	372.2	376.8	381.4	386.6	392.7	399.6	403.3	407.5	410.8	413.1	414.8	0.7%
Lease and Plant Fuel	1275.5	1277.4	1256.0	1253.4	1267.8	1275.8	1298.8	1332.7	1370.9	1402.9	1424.7	1466.7	1494.4	1520.3	1546.9	1577.9	1613.9	1632.5	1654.8	1676.2	1694.9	1712.7	1.3%
Steam Coal	93.2	94.5	95.5	96.9	98.7	100.0	101.0	101.6	102.1	102.6	102.8	103.1	102.9	103.3	103.9	104.7	105.1	104.7	105.0	105.3	105.7	106.1	0.6%
Renewables	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	0.7%
Purchased Electricity	293.3	291.4	290.9	293.2	297.5	300.8	304.5	307.6	310.9	313.6	314.9	317.9	319.5	321.9	325.2	329.0	332.7	333.7	336.0	337.8	339.8	341.5	0.7%
<b>Total</b>	2242.3	2236.5	2208.7	2209.6	2235.1	2251.6	2286.2	2331.1	2380.9	2422.4	2449.1	2502.6	2537.1	2571.8	2609.7	2653.7	2703.2	2726.8	2757.5	2785.4	2810.2	2833.4	1.1%

**Table 32. Other Industrial Sector Energy Consumption (2 of 2)  
(Trillion Btu)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Industry Output (billion 1987 \$)	137.15	136.14	135.30	135.81	137.50	138.83	140.57	142.29	144.08	145.56	146.38	148.13	149.34	150.72	152.43	154.40	156.59	157.58	158.97	160.05	161.03	161.91	0.8%
Energy Consumption per Unit of Output																							
(thous. Btu/1987 \$ of output)	16.35	16.43	16.32	16.27	16.26	16.22	16.26	16.38	16.53	16.64	16.73	16.89	16.99	17.06	17.12	17.19	17.26	17.30	17.35	17.40	17.45	17.50	0.3%
Carbon Emissions (bill. Kg.)	26.5	26.8	26.8	27.0	27.4	27.7	28.0	28.3	28.6	28.7	28.8	29.0	29.1	29.3	29.6	30.0	30.4	30.5	30.8	31.0	31.1	31.2	0.7%
<b>Metal-Based Durables Consumption</b>																							
Residual Oil	30.2	28.9	31.3	33.0	34.9	36.4	38.1	39.7	41.5	43.0	44.2	45.6	46.6	47.9	49.5	51.1	52.8	53.9	55.2	56.4	57.6	58.2	3.0%
Distillate Oil	21.6	19.7	21.0	22.1	23.4	24.4	25.5	26.6	27.7	28.7	29.3	30.2	30.8	31.7	32.6	33.7	34.7	35.4	36.2	36.9	37.7	38.4	2.7%
Liquid Petroleum Gas	4.2	3.9	4.1	4.2	4.5	4.7	4.9	5.2	5.4	5.6	5.7	5.8	6.0	6.1	6.3	6.5	6.7	6.8	7.0	7.1	7.2	7.3	2.5%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	56.0	52.4	56.4	59.4	62.8	65.4	68.6	71.4	74.6	77.3	79.2	81.6	83.4	85.6	88.4	91.4	94.2	96.0	98.4	100.4	102.5	103.8	2.8%
Natural Gas	781.9	809.7	824.9	859.3	899.2	925.8	954.5	979.3	1008.7	1037.5	1060.4	1087.8	1108.8	1134.7	1167.3	1199.5	1232.2	1250.6	1275.8	1300.4	1324.8	1348.5	2.5%
Steam Coal	83.0	83.1	83.2	83.3	83.4	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.3	84.3	84.3	84.3	84.4	84.5	84.6	84.6	0.1%
Renewables	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	2.3%
Purchased Electricity	604.9	625.2	639.5	667.4	698.9	721.2	746.0	766.5	790.7	813.8	832.4	852.8	870.5	891.2	916.2	940.7	965.6	981.0	1000.9	1020.9	1041.4	1061.2	2.6%
Total	1526.8	1571.4	1604.9	1670.4	1745.4	1796.9	1853.7	1902.0	1958.8	2013.6	2057.1	2107.3	2147.9	2196.9	2257.4	2317.1	2377.5	2413.4	2460.9	2507.6	2554.8	2599.7	2.4%
Industry Output (billion 1987 \$)	1463.4	1520.8	1562.6	1637.8	1721.0	1779.9	1844.1	1900.4	1966.1	2030.0	2081.6	2140.7	2190.0	2248.7	2319.6	2389.3	2460.3	2505.0	2562.9	2620.3	2677.8	2733.0	2.9%
Energy Consumption per Unit of Output																							
(thous. Btu/1987 \$ of output)	1.04	1.03	1.03	1.02	1.01	1.01	1.01	1.00	1.00	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.96	0.96	0.96	0.95	0.95	-0.4%
Carbon Emissions (bill. Kg.)	44.6	47.0	48.2	50.1	52.6	54.3	56.0	57.4	59.1	60.6	61.7	63.0	64.1	65.4	67.2	69.0	71.2	72.2	73.8	75.2	76.6	77.9	2.6%
<b>Other Manufacturing Consumption</b>																							
Residual Oil	46.7	42.0	43.9	44.3	45.2	46.1	47.1	47.9	48.8	49.4	49.6	50.1	50.4	50.9	51.5	52.3	52.9	53.2	53.7	54.1	54.7	55.3	0.8%
Distillate Oil	57.1	48.3	50.0	51.0	52.3	53.7	55.2	56.3	57.4	58.3	58.0	59.0	59.6	60.4	61.3	62.4	63.2	63.7	64.4	64.9	65.5	66.4	0.7%
Liquid Petroleum Gas	16.6	15.4	16.0	16.3	16.7	17.1	17.7	18.2	18.6	18.9	18.9	19.2	19.4	19.5	19.9	20.3	20.6	20.8	21.0	21.2	21.4	21.7	1.2%
Petroleum Subtotal	120.3	105.7	109.9	111.6	114.2	116.9	120.0	122.5	124.7	126.6	126.6	128.3	129.4	130.7	132.8	135.1	136.7	137.6	139.1	140.2	141.6	143.4	0.8%
Natural Gas	1667.8	1713.0	1716.7	1738.2	1769.4	1791.9	1812.2	1821.2	1835.2	1849.9	1858.7	1880.3	1888.4	1905.4	1933.1	1963.0	1987.9	1996.6	2015.5	2036.1	2057.0	2079.1	1.0%
Steam Coal	154.9	156.5	156.6	157.6	159.2	160.3	161.3	161.7	162.3	162.9	163.1	164.0	164.2	164.8	165.9	167.1	168.0	168.1	168.8	169.5	170.2	171.0	0.5%
Renewables	303.9	311.9	313.9	318.7	325.3	330.4	335.5	338.2	341.8	345.5	347.7	352.4	354.8	358.8	364.8	371.1	376.5	378.9	383.2	387.8	392.6	397.6	1.2%
Purchased Electricity	746.3	765.0	768.3	779.5	794.9	807.3	820.3	826.7	835.0	843.4	848.9	858.4	864.4	873.5	886.7	900.4	911.9	917.3	926.6	936.5	947.7	959.5	1.1%
Total	2993.3	3052.0	3065.3	3105.6	3162.9	3206.8	3249.3	3270.2	3299.1	3328.3	3345.1	3383.3	3401.3	3433.2	3483.3	3536.6	3580.9	3598.5	3633.2	3670.1	3709.2	3750.7	1.0%
Industry Output (billion 1987 \$)	871.2	891.0	896.4	909.7	927.8	942.0	955.8	963.2	973.0	982.9	989.1	1001.7	1008.1	1018.9	1035.2	1052.4	1067.0	1073.5	1085.1	1097.4	1110.5	1124.4	1.2%
Energy Consumption per Unit of Output																							
(thous. Btu/1987 \$ of output)	3.44	3.43	3.42	3.41	3.41	3.40	3.40	3.40	3.39	3.39	3.38	3.38	3.37	3.37	3.36	3.36	3.36	3.35	3.35	3.34	3.34	3.34	-0.1%
Carbon Emissions (bill. Kg.)	67.5	70.1	70.6	71.5	73.0	74.2	75.1	75.6	76.3	76.8	76.9	77.6	77.9	78.5	79.7	80.9	82.3	82.6	83.6	84.4	85.3	86.1	1.1%

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 are model results and may differ slightly from official EIA data reports.

Bill. = Billion.

Thous. = Thousand.

\$ = Dollar.

KG = Kilograms.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 33. Transportation Sector Energy Use by Mode and Type (Trillion Btu) (1 of 2)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Use by Mode																							
Highway																							
Light-Duty Vehicles	14641	15288	15666	16010	16279	16641	16966	17303	17632	17928	18234	18537	18795	19034	19299	19590	19867	20103	20324	20556	20781	21027	1.7%
Automobiles	7156	7023	7007	6969	6892	6861	6813	6780	6753	6718	6694	6682	6649	6623	6621	6627	6645	6665	6682	6711	6739	6785	-0.2%
Light Trucks	7462	8243	8636	9019	9365	9757	10131	10501	10857	11189	11519	11834	12125	12389	12656	12942	13201	13417	13621	13825	14021	14221	3.0%
Motorcycles	22.8	22.4	22.3	22.1	21.9	21.8	21.6	21.5	21.4	21.2	21.1	21.1	21.0	20.9	20.8	20.9	20.9	20.9	21.0	21.0	21.1	21.2	-0.3%
Commercial Light Trucks 1/	612.8	623.5	631.4	642.3	652.3	662.8	673.1	681.6	690.2	698.5	705.6	714.0	720.0	727.5	736.7	747.2	757.4	762.9	769.7	777.1	785.2	793.2	1.2%
Buses	151.5	152.3	152.8	153.2	153.5	154.1	154.4	154.7	155.0	155.1	155.2	155.1	154.9	154.7	154.4	154.2	153.9	153.7	153.3	152.9	152.5	152.0	0.0%
Transit	73.0	73.3	73.6	73.8	73.9	74.2	74.4	74.5	74.6	74.7	74.7	74.7	74.6	74.5	74.3	74.2	74.1	74.0	73.8	73.6	73.4	73.2	0.0%
Intercity	19.8	19.9	20.0	20.0	20.1	20.2	20.2	20.2	20.3	20.3	20.3	20.3	20.3	20.2	20.2	20.2	20.1	20.1	20.1	20.0	19.9	19.9	0.0%
School	58.7	59.0	59.2	59.4	59.5	59.7	59.9	60.0	60.1	60.1	60.1	60.1	60.0	59.9	59.8	59.7	59.7	59.6	59.4	59.3	59.1	58.9	0.0%
Freight Trucks 2/	4139.9	4283.3	4339.0	4414.2	4493.8	4562.5	4627.5	4668.0	4709.6	4744.4	4759.0	4789.9	4797.9	4821.5	4858.7	4901.2	4939.7	4948.4	4969.4	4988.1	5006.9	5025.9	0.9%
Medium (1000-26000 pounds)	856.6	826.3	816.0	810.1	808.4	803.5	800.5	799.2	799.9	802.2	803.4	806.8	808.0	812.0	818.9	828.8	834.9	838.2	844.6	851.4	858.8	866.4	0.1%
Large (> 26000 pounds)	3283.3	3457.1	3522.9	3604.0	3685.4	3759.0	3827.0	3868.8	3909.7	3942.2	3955.6	3983.1	3989.9	4009.5	4039.8	4074.3	4104.8	4110.1	4124.8	4136.6	4148.1	4159.4	1.1%
Non-Highway																							
Air 3/	3090.2	3294.9	3401.9	3520.1	3662.6	3812.9	3946.9	4100.9	4226.4	4372.8	4499.4	4656.6	4770.1	4914.0	5054.6	5231.5	5386.1	5540.1	5674.8	5836.7	5980.1	6124.8	3.2%
General Aviation	181.0	190.0	194.8	200.1	206.5	213.3	219.3	226.3	231.9	238.5	244.3	251.4	256.5	263.0	269.4	277.4	284.4	291.4	297.5	304.8	311.3	317.9	2.6%
Domestic Air Carriers	1760.4	1843.5	1889.9	1929.4	2000.1	2052.4	2101.4	2143.5	2185.3	2226.9	2266.5	2311.4	2344.2	2383.0	2429.1	2481.7	2533.8	2574.7	2617.5	2662.9	2712.0	2762.2	2.1%
International Air Carriers	728.7	798.8	819.6	855.5	876.2	919.5	943.2	996.9	1018.6	1060.4	1081.1	1125.9	1144.4	1187.5	1213.2	1265.6	1294.3	1340.2	1363.0	1412.5	1439.1	1466.4	3.2%
Freight Carriers	420.2	462.6	497.6	535.1	579.7	627.7	682.9	734.2	790.6	846.9	907.6	967.9	1025.0	1080.5	1142.9	1206.8	1273.5	1333.8	1396.8	1456.4	1517.7	1578.2	6.2%
Water 4/	1161.4	1205.3	1224.7	1247.2	1274.4	1304.4	1336.5	1366.5	1396.7	1427.6	1457.9	1490.9	1519.4	1547.4	1578.4	1612.0	1646.2	1674.4	1703.2	1733.3	1764.4	1796.5	2.0%
Freight	910.5	951.0	968.6	989.2	1014.4	1042.1	1072.1	1100.0	1128.2	1157.0	1185.4	1216.3	1243.1	1269.2	1298.1	1329.4	1361.4	1387.6	1414.6	1442.6	1471.6	1501.6	2.3%
Domestic Shipping	283.8	282.5	279.5	278.5	279.0	278.8	279.3	279.1	279.1	278.7	277.2	277.1	275.8	275.2	275.3	275.8	276.3	274.8	274.1	273.0	272.0	270.8	-0.2%
International Shipping	626.7	668.5	689.1	710.7	735.4	763.2	792.8	820.9	849.1	878.3	908.2	939.2	967.2	994.0	1022.8	1053.6	1085.1	1112.7	1140.5	1169.5	1199.6	1230.8	3.1%
Recreational Boats	250.9	254.2	256.2	258.1	260.0	262.3	264.4	266.5	268.5	270.5	272.5	274.6	276.4	278.2	280.3	282.6	284.9	286.8	288.7	290.7	292.8	294.9	0.7%
Rail	558.2	568.0	575.3	581.3	585.0	591.2	595.0	601.0	603.9	607.0	604.8	609.2	613.6	614.8	617.6	620.1	623.7	627.0	629.7	632.0	634.3	636.8	0.6%
Freight	456.2	462.1	467.4	471.4	473.1	477.2	479.1	483.2	484.2	485.3	481.1	483.5	486.0	485.3	486.1	486.6	488.2	489.5	490.3	490.5	490.7	491.0	0.3%
Passenger	102.0	105.8	107.9	109.9	112.0	114.0	115.9	117.8	119.7	121.7	123.7	125.7	127.6	129.5	131.5	133.5	135.6	137.5	139.5	141.5	143.6	145.8	1.6%
Intercity	19.3	20.1	20.5	20.9	21.2	21.6	22.0	22.3	22.7	23.1	23.5	23.8	24.2	24.6	24.9	25.3	25.7	26.1	26.5	26.8	27.2	27.7	1.6%
Transit	44.5	46.1	47.0	47.9	48.8	49.7	50.5	51.3	52.2	53.0	53.9	54.8	55.6	56.4	57.3	58.2	59.1	59.9	60.8	61.7	62.6	63.5	1.6%
Commuter	38.2	39.6	40.4	41.2	41.9	42.7	43.4	44.1	44.8	45.6	46.3	47.1	47.8	48.5	49.3	50.0	50.8	51.5	52.2	53.0	53.8	54.6	1.6%
Lubricants	258.6	267.9	270.9	273.1	275.0	278.2	282.9	287.0	290.6	293.4	295.2	297.7	299.4	301.7	305.0	309.2	313.7	316.8	319.7	321.9	323.7	325.9	1.1%
Pipeline Fuel Natural Gas	751.5	770.7	747.6	745.8	751.9	754.4	767.8	788.9	812.6	830.0	840.6	866.4	881.3	895.2	909.5	927.4	948.1	957.4	968.5	977.6	983.3	987.9	1.3%
Military Use																							
Aviation	521.3	528.5	524.1	521.6	518.3	516.7	520.0	525.4	530.2	535.2	539.8	542.2	542.9	544.4	545.9	547.4	548.9	550.5	552.1	553.7	555.3	556.9	0.3%
Residual Fuel Use	455.0	460.7	456.9	454.7	451.8	450.4	453.3	458.0	462.2	466.6	470.5	472.7	473.3	474.5	475.8	477.2	478.5	479.9	481.3	482.7	484.1	485.5	0.3%
Distillate Fuel Use	7.8	8.2	8.1	8.1	8.0	8.0	8.1	8.2	8.2	8.3	8.4	8.4	8.4	8.5	8.5	8.5	8.5	8.5	8.6	8.6	8.6	8.6	0.5%
Total	25886.2	26982.4	27533.9	28108.9	28645.8	29277.7	29870.3	30476.8	31046.9	31592.2	32091.0	32658.7	33094.6	33554.8	34059.3	34640.1	35184.8	35633.6	36064.4	36529.7	36967.2	37427.1	1.7%
Energy Use by Type																							
Motor Gasoline	15589.0	16173.4	16512.1	16817.6	17043.8	17369.0	17654.3	17958.5	18258.4	18523.3	18792.9	19059.5	19278.6	19479.8	19708.5	19964.9	20208.7	20409.1	20600.5	20805.8	21007.6	21231.9	1.4%
Distillate (diesel)	4946.0	5117.7	5185.3	5273.7	5364.5	5448.6	5530.2	5582.6	5634.7	5682.2	5706.5	5757.3	5786.8	5830.3	5890.8	5958.1	6023.0	6056.3	6100.8	6142.2	6183.1	6224.0	1.1%
Jet Fuel (kerosene & naptha)	3357.0	3557.8	3650.0	3766.4	3893.2	4041.0	4171.5	4322.9	4446.7	4590.4	4715.0	4866.9	4975.5	5113.9	5249.1	5418.9	5567.4	5715.5	5845.1	6000.6	6138.7	6277.8	2.9%
Residual Oil	650.0	689.4	706.7	725.7	747.8	772.5	799.0	824.1	849.3	875.3	901.5	929.2	953.8	977.4	1003.2	1030.8	1059.0	1083.2	1107.7	1133.3	1159.8	1187.3	2.8%
Aviation Gasoline	42.8	42.6	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	-0.1%
Liquid Petroleum Gas	45.1	54.3	61.6	68.5	74.8	80.8	86.3	91.1	95.1	99.2	103.1	106.9	110.3	113.4	116.7	119.9	123.0	125.4	127.6	129.6	131.3	132.8	5.0%
Lubricants	258.6	267.9	270.9	273.1	275.0	278.2	282.9	287.0	290.6	293.4	295.2	297.7	299.4	301.7	305.0	309.2	313.7	316.8	319.7	321.9	323.7	325.9	1.1%
Oil Subtotal	24888.5	25903.1	26435.1	26967.3	27447.5	28032.5	28566.5	29108.4	29617.0	30105.9	30556.4	31059.6	31446.4	31858.6	32315.3	32844.0	33336.9	33748.5	34143.6	34575.5	34986.3	35421.8	1.6%
Methanol	8.1	21.1	29.8	40.1	50.7	55.1	63.3	72.1	78.9	86.4	93.7	101.0	107.8	114.2	120.5	126.5	132.0	137.2	141.7	145.7	149.0	152.0	14.3%
Ethanol	2.9	9.1	13.0	17.4	22.0	27.2	32.4	37.7	42.9	47.7	52.6	57.1	61.1	64.7	68.0	71.1	73.7	75.7	77.2	78.4	79.0	79.4	16.3%
Electricity	67.7	70.8	72.5	74.2	81.7	89.0																	

### Table 33. Transportation Sector Energy Use by Mode and Type (Trillion Btu) (2 of 2)

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. The historical data used for the projections were the most current available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 values derived using: Energy Information Administration (EIA), Short-Term Energy Outlook, September 1999, Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.html> (October 12, 1999); EIA, Fuel Oil and Kerosene Sales 1997, DOE/EIA-0535(97) (Washington, D.C., August 1998); EIA, State Energy Data Report 1996, DOE/EIA-0214(96) (Washington, DC, February 1999); Oak Ridge National Laboratory, Transportation Energy Book: 17 and 18 (September 1998); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (1 of 2)  
(Trillion Btu per Year)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Light-Duty Vehicle																							
Motor Gasoline	14368.1	14987.9	15335.7	15646.6	15877.0	16203.4	16488.8	16793.7	17093.5	17357.5	17626.8	17890.8	18109.8	18308.2	18531.7	18780.7	19016.8	19214.5	19401.4	19600.9	19796.0	20013.1	1.5%
Methanol	8.05	21.13	29.82	40.09	50.67	55.12	63.29	72.07	78.87	86.43	93.70	100.96	107.77	114.23	120.47	126.47	131.99	137.19	141.66	145.68	149.01	151.95	14.3%
Ethanol	2.85	9.07	12.96	17.44	21.98	27.15	32.42	37.73	42.88	47.71	52.55	57.10	61.07	64.69	68.04	71.07	73.67	75.70	77.21	78.35	79.03	79.38	16.3%
Compressed Natural Gas	19.69	49.81	72.48	94.36	114.28	133.15	149.69	163.39	174.83	185.85	196.59	206.87	216.15	224.70	233.21	241.71	249.62	256.49	262.53	268.06	272.90	277.50	12.8%
Liquid Petroleum Gas	24.45	35.00	42.52	49.69	56.03	62.13	67.49	71.98	75.79	79.46	83.02	86.44	89.53	92.34	95.17	98.00	100.63	102.89	104.83	106.55	107.98	109.31	7.0%
Electricity	0.45	1.04	1.41	1.77	2.15	2.52	2.89	3.26	3.63	4.00	4.37	4.74	5.11	5.48	5.85	6.22	6.59	6.96	7.33	7.70	8.07	8.44	26.0%
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	N/A
Distillate (diesel)	217.19	184.15	171.26	160.20	150.93	145.78	145.12	139.70	137.37	138.63	144.05	153.39	165.63	180.24	196.95	215.23	234.17	252.56	270.65	288.76	306.38	323.81	1.8%
Total	14640.8	15288.1	15666.1	16010.2	16278.9	16640.7	16966.2	17302.8	17631.6	17928.2	18233.5	18536.6	18795.2	19033.6	19298.6	19590.0	19867.1	20102.6	20324.0	20556.5	20781.5	21027.1	1.7%
Commercial LT. Gasoline 1/																							
Motor Gasoline	612.81	623.48	631.41	642.33	652.28	662.80	673.12	681.61	690.25	698.51	705.59	714.04	719.98	727.51	736.72	747.23	757.35	762.90	769.65	777.11	785.19	793.22	1.2%
Freight Trucks 2/																							
Motor Gasoline	349.92	300.46	281.55	263.25	247.16	233.14	220.54	209.23	198.63	189.25	180.56	172.69	165.05	158.45	152.43	147.05	142.30	137.50	133.44	129.68	126.35	123.32	-4.6%
Distillate (diesel)	3766.92	3960.88	4035.33	4128.42	4223.02	4304.24	4379.73	4428.92	4477.92	4518.67	4538.30	4573.18	4585.18	4611.68	4651.00	4695.16	4735.09	4746.08	4768.70	4788.81	4808.86	4828.95	1.1%
Compressed Natural Gas	2.45	2.66	3.02	3.71	4.89	6.46	8.45	10.83	13.70	16.78	20.08	23.58	26.88	30.25	33.74	37.00	39.93	42.22	44.45	46.52	48.40	50.12	14.7%
Liquid Petroleum Gas	20.61	19.34	19.10	18.79	18.77	18.66	18.80	19.08	19.36	19.70	20.05	20.45	20.75	21.10	21.52	21.94	22.33	22.55	22.81	23.05	23.28	23.49	0.6%
Total	4139.90	4283.34	4338.99	4414.16	4493.84	4562.49	4627.51	4668.05	4709.61	4744.40	4758.99	4789.90	4797.85	4821.49	4858.68	4901.15	4939.66	4948.35	4969.39	4988.05	5006.89	5025.89	0.9%
Freight Rail 3/																							
Distillate (diesel)	456.23	462.14	467.40	471.36	473.06	477.25	479.10	483.22	484.18	485.32	481.14	483.54	486.03	485.32	486.09	486.60	488.17	489.54	490.27	490.49	490.67	490.98	0.3%
Total	456.23	462.14	467.40	471.36	473.06	477.25	479.10	483.22	484.18	485.32	481.14	483.54	486.03	485.32	486.09	486.60	488.17	489.54	490.27	490.49	490.67	490.98	0.3%
Domestic Shipping																							
Distillate (diesel)	199.98	196.98	194.89	194.15	194.54	194.39	194.69	194.58	194.60	194.30	193.25	193.18	192.31	191.87	191.93	192.28	192.64	191.61	191.09	190.37	189.64	188.81	-0.3%
Residual Oil	83.85	85.55	84.64	84.32	84.49	84.43	84.56	84.51	84.52	84.39	83.93	83.90	83.52	83.33	83.36	83.51	83.67	83.22	83.00	82.68	82.36	82.00	-0.1%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	283.83	282.54	279.53	278.47	279.03	278.82	279.25	279.09	279.11	278.69	277.19	277.09	275.83	275.21	275.29	275.79	276.30	274.83	274.09	273.05	272.00	270.82	-0.2%
International Shipping																							
Distillate (diesel)	68.32	72.87	75.11	77.47	80.16	83.19	86.42	89.48	92.55	95.74	98.99	102.37	105.43	108.35	111.49	114.84	118.27	121.29	124.31	127.48	130.76	134.16	3.1%
Residual Oil	558.38	595.63	613.95	633.23	655.26	680.05	706.41	731.46	756.55	782.59	809.18	836.85	861.80	885.66	911.33	938.78	966.78	991.46	1016.15	1042.05	1068.85	1096.65	3.1%
Total	626.69	668.49	689.06	710.70	735.42	763.25	792.83	820.94	849.10	878.33	908.17	939.23	967.23	994.00	1022.81	1053.62	1085.05	1112.75	1140.46	1169.53	1199.60	1230.81	3.1%
Air Transportation																							
Jet Fuel	2901.97	3097.06	3199.06	3311.73	3447.43	3590.64	3718.25	3864.95	3984.46	4123.87	4244.51	4394.21	4502.25	4639.38	4773.23	4941.71	5088.89	5235.62	5363.83	5517.99	5654.63	5792.36	3.2%
Aviation Gasoline	42.79	42.56	42.48	42.41	42.35	42.30	42.26	42.23	42.20	42.18	42.16	42.14	42.13	42.12	42.11	42.10	42.10	42.09	42.09	42.08	42.08	42.08	-0.1%
Total	2944.76	3139.62	3241.53	3354.14	3489.78	3632.94	3760.51	3907.17	4026.66	4166.05	4286.67	4436.35	4544.38	4681.50	4815.34	4983.82	5130.99	5277.71	5405.92	5560.07	5696.71	5834.43	3.2%
Miscellaneous Transportation																							
Military Use																							
Jet Fuel	455.03	460.73	456.90	454.65	451.78	450.38	453.27	458.00	462.20	466.55	470.53	472.66	473.26	474.53	475.85	477.18	478.53	479.89	481.27	482.66	484.06	485.46	0.3%
Residual Fuel	7.77	8.21	8.14	8.10	8.05	8.02	8.08	8.16	8.23	8.31	8.38	8.42	8.43	8.45	8.48	8.50	8.53	8.55	8.57	8.60	8.62	8.65	0.5%
Distillate	58.46	59.59	59.10	58.81	58.44	58.25	58.63	59.24	59.78	60.35	60.86	61.14	61.21	61.38	61.55	61.72	61.89	62.07	62.25	62.43	62.61	62.79	0.3%
Total	521.26	528.54	524.14	521.56	518.27	516.66	519.97	525.40	530.22	535.21	539.77	542.22	542.91	544.37	545.87	547.40	548.95	550.51	552.09	553.69	555.29	556.90	0.3%

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (2 of 2)  
(Trillion Btu per Year)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Bus Transportation</b>																							
Transit Bus (motor gasoline)	4.06	4.04	4.06	4.07	4.08	4.09	4.10	4.11	4.11	4.12	4.12	4.12	4.11	4.11	4.10	4.09	4.09	4.08	4.07	4.06	4.05	4.04	0.0%
Transit Bus (diesel)	68.93	69.30	69.52	69.70	69.87	70.11	70.27	70.41	70.51	70.59	70.62	70.59	70.49	70.38	70.25	70.15	70.05	69.93	69.77	69.58	69.39	69.18	0.0%
Intercity Bus (diesel)	19.82	19.92	19.99	20.04	20.09	20.16	20.20	20.24	20.27	20.29	20.30	20.29	20.26	20.23	20.19	20.17	20.14	20.10	20.06	20.00	19.95	19.89	0.0%
School Bus (motor gasoline)	3.27	3.25	3.26	3.27	3.28	3.29	3.30	3.31	3.31	3.31	3.32	3.31	3.31	3.30	3.30	3.29	3.29	3.28	3.28	3.27	3.26	3.25	0.0%
School Bus (diesel)	55.47	55.77	55.95	56.10	56.23	56.42	56.55	56.66	56.75	56.81	56.83	56.81	56.73	56.64	56.53	56.45	56.38	56.28	56.15	56.00	55.84	55.68	0.0%
<b>Total</b>	<b>151.55</b>	<b>152.28</b>	<b>152.77</b>	<b>153.18</b>	<b>153.54</b>	<b>154.07</b>	<b>154.42</b>	<b>154.73</b>	<b>154.95</b>	<b>155.12</b>	<b>155.18</b>	<b>155.12</b>	<b>154.90</b>	<b>154.66</b>	<b>154.37</b>	<b>154.15</b>	<b>153.94</b>	<b>153.67</b>	<b>153.32</b>	<b>152.92</b>	<b>152.49</b>	<b>152.04</b>	<b>0.0%</b>
<b>Rail Transportation</b>																							
Intercity Rail (electricity)	7.66	7.94	8.10	8.25	8.40	8.55	8.70	8.84	8.99	9.13	9.28	9.43	9.58	9.72	9.87	10.02	10.18	10.32	10.47	10.62	10.78	10.94	1.6%
Intercity Rail (diesel)	11.66	12.13	12.37	12.60	12.83	13.06	13.28	13.50	13.72	13.95	14.18	14.41	14.63	14.85	15.08	15.31	15.54	15.76	15.99	16.22	16.47	16.71	1.6%
Transit Rail (electricity)	44.49	46.11	47.01	47.89	48.78	49.65	50.48	51.31	52.16	53.01	53.88	54.75	55.59	56.43	57.30	58.18	59.06	59.91	60.76	61.66	62.58	63.51	1.6%
Commuter Rail (electricity)	15.14	15.69	15.99	16.29	16.60	16.89	17.18	17.46	17.75	18.04	18.33	18.63	18.91	19.20	19.50	19.80	20.10	20.38	20.67	20.98	21.29	21.61	1.6%
Commuter Rail (diesel)	23.02	23.96	24.42	24.88	25.34	25.80	26.23	26.66	27.10	27.55	28.00	28.45	28.88	29.32	29.77	30.23	30.69	31.13	31.57	32.04	32.52	33.00	1.6%
<b>Total</b>	<b>101.97</b>	<b>105.82</b>	<b>107.89</b>	<b>109.92</b>	<b>111.95</b>	<b>113.96</b>	<b>115.87</b>	<b>117.77</b>	<b>119.72</b>	<b>121.68</b>	<b>123.67</b>	<b>125.67</b>	<b>127.59</b>	<b>129.53</b>	<b>131.51</b>	<b>133.54</b>	<b>135.57</b>	<b>137.50</b>	<b>139.47</b>	<b>141.52</b>	<b>143.64</b>	<b>145.77</b>	<b>1.6%</b>
<b>Recreation Boats</b>	<b>250.86</b>	<b>254.23</b>	<b>256.16</b>	<b>258.05</b>	<b>259.99</b>	<b>262.30</b>	<b>264.42</b>	<b>266.48</b>	<b>268.53</b>	<b>270.53</b>	<b>272.51</b>	<b>274.55</b>	<b>276.35</b>	<b>278.22</b>	<b>280.28</b>	<b>282.56</b>	<b>284.85</b>	<b>286.79</b>	<b>288.69</b>	<b>290.70</b>	<b>292.78</b>	<b>294.90</b>	<b>0.7%</b>
Lubricants	258.64	267.89	270.92	273.10	275.02	278.17	282.92	286.96	290.62	293.44	295.17	297.68	299.40	301.68	304.99	309.18	313.67	316.75	319.69	321.90	323.75	325.91	1.1%
Pipeline Fuel Natural Gas	751.47	770.67	747.61	745.82	751.92	754.40	767.84	788.86	812.61	829.99	840.58	866.37	881.34	895.16	909.51	927.41	948.13	957.35	968.46	977.57	983.26	987.94	1.3%
<b>Total Miscellaneous</b>	<b>2035.75</b>	<b>2079.43</b>	<b>2059.49</b>	<b>2061.64</b>	<b>2070.69</b>	<b>2079.57</b>	<b>2105.45</b>	<b>2140.18</b>	<b>2176.64</b>	<b>2205.97</b>	<b>2226.90</b>	<b>2261.61</b>	<b>2282.49</b>	<b>2303.61</b>	<b>2326.54</b>	<b>2354.24</b>	<b>2385.11</b>	<b>2402.58</b>	<b>2421.71</b>	<b>2438.31</b>	<b>2451.20</b>	<b>2463.47</b>	<b>0.9%</b>
<b>Total Consumption</b>	<b>25740.7</b>	<b>26827.2</b>	<b>27373.5</b>	<b>27942.9</b>	<b>28473.0</b>	<b>29097.8</b>	<b>29683.9</b>	<b>30283.1</b>	<b>30847.2</b>	<b>31385.4</b>	<b>31878.2</b>	<b>32438.4</b>	<b>32868.9</b>	<b>33322.2</b>	<b>33820.1</b>	<b>34392.4</b>	<b>34929.7</b>	<b>35371.2</b>	<b>35795.5</b>	<b>36253.1</b>	<b>36683.7</b>	<b>37136.8</b>	<b>1.7%</b>

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.

L/I = Light Trucks.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 compressed natural gas volumes: Energy Information Administration (EIA), AEO2000 National Energy Modeling System run AEO2K.D100199A. Other 1998 values derived using: EIA, Short-Term Energy Outlook, September 1999, Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.html> (October 12, 1999); EIA, Fuel Oil and Kerosene Sales 1997, DOE/EIA-0535(97) (Washington, D.C., August 1998); EIA, State Energy Data Report 1996, DOE/EIA-0214(96) (Washington, DC, February 1999); Oak Ridge National Laboratory, Transportation Energy Book: 17 and 18 (September 1998); Department of Defense, Defense Fuel Supply Center, and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type (Trillion Btu) (1 of 1)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Light-Duty Consumption by Technology Type																							
Conventional Vehicles 1/																							
Gasoline ICE Vehicles	14340.9	14926.2	15253.2	15539.4	15742.6	16035.3	16291.5	16568.4	16841.3	17083.0	17332.1	17579.3	17786.3	17975.3	18192.1	18437.7	18673.7	18873.2	19064.3	19269.7	19472.2	19698.0	1.5%
TDI Diesel ICE	217.19	184.15	171.26	160.20	150.93	145.78	145.12	139.70	137.37	138.63	144.05	153.39	165.63	180.24	196.95	215.23	234.17	252.56	270.65	288.76	306.38	323.81	1.8%
Alternative-Fuel Vehicles																							
Alcohol Fuel Technology																							
Methanol-Flex Fuel ICE	16.38	51.26	74.88	101.97	131.00	158.99	185.93	212.14	235.78	256.94	275.82	292.21	304.94	315.96	324.94	331.69	335.99	339.45	341.08	341.71	341.06	339.76	14.8%
Methanol ICE	0.03	0.09	0.16	0.26	0.42	0.66	1.03	1.60	2.42	3.63	5.39	7.85	10.97	14.20	17.90	22.01	26.32	30.59	34.69	38.63	42.32	45.80	40.7%
Ethanol-Flex Fuel ICE	10.42	33.08	47.13	63.42	80.47	99.20	118.12	137.07	155.08	171.21	186.70	200.24	210.94	219.51	226.43	231.58	234.81	236.32	236.40	235.63	233.85	231.46	15.1%
Ethanol Ice	0.01	0.04	0.08	0.12	0.20	0.32	0.52	0.81	1.24	1.84	2.63	3.65	4.83	6.22	7.79	9.50	11.28	12.95	14.46	15.84	17.02	18.03	39.8%
Total Alcohol	26.84	84.48	122.25	165.77	212.09	259.18	305.60	351.61	394.52	433.62	470.54	503.94	531.68	555.89	577.06	594.78	608.40	619.31	626.62	631.81	634.26	635.05	15.5%
Natural Gas Technology																							
CNG ICE	19.22	48.48	70.57	91.82	111.11	129.33	145.26	158.41	169.36	179.98	190.36	200.34	209.44	217.87	226.31	234.79	242.75	249.74	255.94	261.64	266.70	271.53	12.8%
CNG Bi-fuel	0.93	2.66	3.80	5.05	6.31	7.61	8.82	9.93	10.90	11.71	12.43	13.01	13.38	13.62	13.76	13.80	13.70	13.48	13.17	12.80	12.38	11.92	12.3%
LPG ICE	24.24	34.42	41.72	48.66	54.77	60.61	65.73	70.01	73.64	77.16	80.62	83.96	87.00	89.81	92.65	95.51	98.21	100.55	102.58	104.42	105.97	107.43	7.0%
LPG Bi-fuel	0.66	1.82	2.54	3.31	4.06	4.84	5.56	6.21	6.77	7.21	7.56	7.81	7.93	7.96	7.92	7.79	7.59	7.33	7.03	6.70	6.34	5.97	10.5%
Total Natural Gas Technology	45.05	87.38	118.63	148.84	176.26	202.40	225.37	244.55	260.67	276.06	290.97	305.13	317.75	329.26	340.64	351.90	362.24	371.09	378.71	385.56	391.38	396.85	10.4%
Electric Technology																							
Electric Vehicle	0.45	1.04	1.41	1.77	2.14	2.51	2.88	3.25	3.62	3.99	4.36	4.73	5.10	5.47	5.84	6.21	6.58	6.95	7.32	7.69	8.06	8.43	26.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Total Electricity	0.45	1.04	1.41	1.77	2.14	2.51	2.88	3.25	3.62	3.99	4.36	4.73	5.10	5.47	5.84	6.21	6.58	6.95	7.32	7.69	8.06	8.43	26.0%
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	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	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	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 Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Light-Duty Consumption by Fuel Type 1/																							
Motor Gasoline	14368.1	14987.9	15335.7	15646.6	15877.0	16203.4	16488.8	16793.7	17093.5	17357.5	17626.8	17890.8	18109.8	18308.2	18531.7	18780.7	19016.8	19214.5	19401.4	19600.9	19796.0	20013.1	1.5%
Distillate (diesel)	217.19	184.15	171.26	160.20	150.93	145.78	145.12	139.70	137.37	138.63	144.05	153.39	165.63	180.24	196.95	215.23	234.17	252.56	270.65	288.76	306.38	323.81	1.8%
Methanol	8.05	21.13	29.82	40.09	50.67	55.12	63.29	72.07	78.87	86.43	93.70	100.96	107.77	114.23	120.47	126.47	131.99	137.19	141.66	145.68	149.01	151.95	14.3%
Ethanol	2.85	9.07	12.96	17.44	21.98	27.15	32.42	37.73	42.88	47.71	52.55	57.10	61.07	64.69	68.04	71.07	73.67	75.70	77.21	78.35	79.03	79.38	16.3%
Compressed Natural Gas	19.69	49.81	72.48	94.36	114.28	133.15	149.69	163.39	174.83	185.85	196.59	206.87	216.15	224.70	233.21	241.71	249.62	256.49	262.53	268.06	272.90	277.50	12.8%
Liquid Petroleum Gas	24.45	35.00	42.52	49.69	56.03	62.13	67.49	71.98	75.79	79.46	83.02	86.44	89.53	92.34	95.17	98.00	100.63	102.89	104.83	106.55	107.98	109.31	7.0%
Electricity	0.45	1.04	1.41	1.77	2.14	2.51	2.88	3.25	3.62	3.99	4.36	4.73	5.10	5.47	5.84	6.21	6.58	6.95	7.32	7.69	8.06	8.43	26.0%
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	N/A

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

LDI = Turbo Direct Injection.

Btu = British thermal unit.

CNG = Compressed natural gas.

LPG = Liquid petroleum gas.

ICE = Internal combustion engine.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 36. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**01 - New England**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
<b>New Car Sales 1/</b>																								
<b>Conventional Vehicles</b>																								
Gasoline ICE Vehicles	370.0	342.8	331.6	324.0	313.9	317.2	318.7	315.2	310.5	307.6	304.8	305.7	301.9	300.0	303.6	310.3	314.1	308.0	304.6	303.2	304.4	307.1	-0.8%	
TDI Diesel ICE	0.1	0.4	0.5	0.9	1.3	2.1	3.4	2.7	4.0	5.6	7.2	8.9	10.1	11.2	12.1	13.0	13.6	13.5	13.5	13.6	13.8	14.0	23.0%	
<b>Total Conventional</b>	<b>370.2</b>	<b>343.2</b>	<b>332.1</b>	<b>324.8</b>	<b>315.2</b>	<b>319.3</b>	<b>322.1</b>	<b>317.9</b>	<b>314.5</b>	<b>313.2</b>	<b>312.0</b>	<b>314.6</b>	<b>312.0</b>	<b>311.2</b>	<b>315.7</b>	<b>323.3</b>	<b>327.7</b>	<b>321.5</b>	<b>318.2</b>	<b>316.8</b>	<b>318.2</b>	<b>321.1</b>	<b>-0.6%</b>	
<b>Alternative-Fuel Vehicles</b>																								
Methanol-Flex Fuel ICE	8.3	8.9	10.3	11.5	12.0	12.8	13.0	12.7	12.2	11.6	10.9	10.4	9.7	9.4	9.1	9.1	8.9	10.1	9.7	9.5	9.4	9.3	0.5%	
Methanol ICE	0.2	0.6	0.8	0.8	0.8	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.1	2.1	2.3	2.5	2.6	2.6	2.5	2.5	2.4	2.4	10.8%	
Ethanol-Flex Fuel ICE	5.4	6.3	7.0	7.8	8.1	8.6	8.7	8.4	8.0	7.5	7.8	7.3	6.7	6.3	6.1	5.9	5.8	5.6	5.3	5.1	4.9	4.8	-0.5%	
Ethanol Ice	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.6	0.6	14.4%	
Electric Vehicle	0.1	0.1	0.1	0.1	12.4	12.7	12.9	12.9	12.8	12.8	12.8	13.0	12.9	12.9	13.2	13.5	13.8	13.6	13.5	13.5	13.5	13.6	13.8	28.6%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.8%	
CNG ICE	1.6	3.3	4.0	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.4	4.5	4.5	4.4	4.4	4.3	4.3	4.3	4.6%	
CNG Bi-fuel	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	-2.1%	
LPG ICE	0.9	1.4	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	3.4%	
LPG Bi-fuel	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	-5.3%	
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
<b>Total Alternatives</b>	<b>17.5</b>	<b>21.7</b>	<b>25.2</b>	<b>27.2</b>	<b>40.6</b>	<b>42.4</b>	<b>43.1</b>	<b>42.6</b>	<b>41.7</b>	<b>40.8</b>	<b>40.7</b>	<b>40.2</b>	<b>39.0</b>	<b>38.4</b>	<b>38.5</b>	<b>39.0</b>	<b>39.0</b>	<b>39.6</b>	<b>38.7</b>	<b>38.0</b>	<b>37.6</b>	<b>37.4</b>	<b>3.5%</b>	
Percent Alternative Car Sales	4.51	5.95	7.04	7.72	11.42	11.73	11.81	11.83	11.70	11.53	11.53	11.32	11.11	10.98	10.86	10.76	10.63	10.97	10.84	10.71	10.57	10.43	3.9%	
<b>Total New Car Sales</b>	<b>387.7</b>	<b>364.9</b>	<b>357.3</b>	<b>352.0</b>	<b>355.8</b>	<b>361.7</b>	<b>365.2</b>	<b>360.5</b>	<b>356.1</b>	<b>354.0</b>	<b>352.7</b>	<b>354.8</b>	<b>351.0</b>	<b>349.6</b>	<b>354.2</b>	<b>362.3</b>	<b>366.7</b>	<b>361.2</b>	<b>356.9</b>	<b>354.8</b>	<b>355.9</b>	<b>358.5</b>	<b>-0.4%</b>	
<b>New Light-Truck Sales 2/</b>																								
<b>Conventional Vehicles</b>																								
Gasoline ICE Vehicles	307.2	301.6	300.8	302.1	310.3	318.9	325.1	328.8	328.1	328.7	329.6	333.3	331.5	331.2	337.2	346.5	352.1	348.2	345.2	344.4	346.4	349.9	0.6%	
TDI Diesel ICE	0.2	0.5	0.7	1.2	1.9	3.3	5.3	1.5	2.3	3.3	4.4	5.4	6.2	6.8	7.1	7.5	7.7	7.5	7.4	7.3	7.2	7.2	18.8%	
<b>Total Conventional</b>	<b>307.4</b>	<b>302.1</b>	<b>301.5</b>	<b>303.2</b>	<b>312.2</b>	<b>322.2</b>	<b>330.3</b>	<b>330.4</b>	<b>330.4</b>	<b>332.0</b>	<b>334.0</b>	<b>338.8</b>	<b>337.6</b>	<b>337.9</b>	<b>344.3</b>	<b>354.0</b>	<b>359.8</b>	<b>355.7</b>	<b>352.6</b>	<b>351.7</b>	<b>353.6</b>	<b>357.1</b>	<b>0.7%</b>	
<b>Alternative-Fuel Vehicles</b>																								
Methanol-Flex Fuel ICE	2.3	2.6	3.2	3.9	4.5	4.8	4.9	4.9	4.7	4.4	4.2	4.0	3.7	4.0	3.8	3.7	3.5	3.2	3.0	2.7	2.5	2.3	0.2%	
Methanol Ice	0.3	0.7	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.3	1.3	1.3	7.2%	
Ethanol-Flex Fuel ICE	1.3	1.6	2.1	2.6	2.9	3.1	3.2	3.1	2.9	2.7	2.5	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1	1.0	0.9	-1.8%	
Ethanol ICE	0.0	0.1	0.1	0.1	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	0.2	0.2	0.2	0.2	0.2	8.1%	
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	4.5%	
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.3%	
CNG ICE	1.0	2.5	3.4	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.9	4.0	4.0	4.0	3.9	3.9	3.9	4.0	6.3%	
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.5%	
LPG ICE	0.6	1.0	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.4	4.5%	
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.3%	
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
<b>Total Alternatives</b>	<b>5.6</b>	<b>8.6</b>	<b>11.3</b>	<b>12.5</b>	<b>13.5</b>	<b>14.2</b>	<b>14.5</b>	<b>14.6</b>	<b>14.1</b>	<b>13.7</b>	<b>13.3</b>	<b>13.1</b>	<b>12.6</b>	<b>12.7</b>	<b>12.5</b>	<b>12.4</b>	<b>12.2</b>	<b>11.7</b>	<b>11.2</b>	<b>10.8</b>	<b>10.5</b>	<b>10.2</b>	<b>2.8%</b>	

**Table 36. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
01 - New England**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Percent Alternative LT. Sales	1.77	2.77	3.60	3.95	4.14	4.23	4.22	4.22	4.10	3.97	3.84	3.73	3.59	3.61	3.50	3.39	3.29	3.18	3.08	2.98	2.88	2.78	2.1%
Total New Truck Sales	312.9	310.7	312.8	315.7	325.7	336.4	344.9	344.9	344.5	345.7	347.4	351.9	350.2	350.6	356.8	366.4	372.0	367.4	363.8	362.5	364.1	367.4	0.7%
Percent Total Alternative Sales	3.29	4.49	5.44	5.94	7.94	8.11	8.12	8.11	7.96	7.79	7.71	7.54	7.36	7.29	7.16	7.06	6.94	7.04	6.92	6.80	6.68	6.56	3.2%
EPACT Leg. Alternative Sales	4.07	9.17	11.73	11.70	11.94	12.22	12.42	12.34	12.26	12.24	12.25	12.37	12.28	12.26	12.45	12.76	12.94	12.76	12.62	12.56	12.61	12.71	5.3%
Z EVP Leg. Alternative Sales	0.00	0.00	0.00	0.00	30.79	31.50	32.05	31.89	31.72	31.75	31.84	32.22	32.06	32.09	32.66	33.57	34.13	33.77	33.52	33.48	33.72	34.14	N/A
Total Vehicles Sales	700.6	675.5	670.0	667.7	681.4	698.2	710.1	705.5	700.6	699.7	700.1	706.7	701.3	700.2	711.0	728.7	738.7	728.6	720.7	717.3	720.0	725.9	0.2%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 I DI = Turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPACT = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 L.T. = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 37. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**02 - Middle Atlantic**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	1060.9	960.5	921.4	893.4	864.5	868.7	868.7	855.3	839.5	829.0	818.7	818.5	805.3	797.9	804.4	819.3	826.1	807.8	796.4	790.4	791.4	796.2	-1.3%
TDI Diesel ICE	0.4	0.9	1.4	2.2	3.4	5.5	8.6	6.9	10.1	14.0	18.2	22.3	25.2	27.8	29.9	31.7	33.1	32.5	32.4	32.4	32.6	33.0	22.2%
<b>Total Conventional</b>	<b>1061.3</b>	<b>961.5</b>	<b>922.8</b>	<b>895.6</b>	<b>867.9</b>	<b>874.2</b>	<b>877.4</b>	<b>862.2</b>	<b>849.6</b>	<b>843.0</b>	<b>836.9</b>	<b>840.8</b>	<b>830.4</b>	<b>825.7</b>	<b>834.3</b>	<b>851.0</b>	<b>859.2</b>	<b>840.4</b>	<b>828.8</b>	<b>822.8</b>	<b>824.0</b>	<b>829.2</b>	<b>-1.1%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	22.4	26.6	30.6	33.7	35.0	37.0	37.3	36.2	34.2	32.0	29.4	27.2	25.0	23.6	22.7	22.2	21.6	24.2	23.4	22.8	22.5	22.2	0.0%
Methanol ICE	0.7	1.6	2.2	2.2	2.3	2.5	2.8	3.2	3.7	4.6	5.9	7.5	9.2	9.4	10.6	11.7	12.6	12.6	12.3	12.0	11.8	11.6	13.5%
Ethanol-Flex Fuel ICE	14.5	18.2	20.1	22.2	23.0	24.1	24.1	23.2	21.7	20.1	20.4	18.6	16.7	15.4	14.6	14.0	13.4	13.0	12.3	11.8	11.4	11.0	-1.3%
Ethanol Ice	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.7	0.8	1.1	1.3	1.6	1.8	2.1	2.2	2.4	2.5	2.4	2.3	2.1	1.9	1.8	14.7%
Electric Vehicle	0.2	0.3	0.3	0.3	29.1	29.7	30.3	30.1	30.0	30.0	30.1	30.4	30.3	30.3	30.8	31.7	32.2	31.9	31.6	31.6	31.8	32.2	27.4%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.6%
CNG ICE	4.6	9.2	11.1	10.9	11.1	11.4	11.6	11.6	11.6	11.6	11.7	11.5	11.5	11.6	11.9	11.9	11.7	11.5	11.3	11.3	11.3	11.3	4.2%
CNG Bi-fuel	1.7	1.9	2.2	2.4	2.5	2.5	2.4	2.2	2.0	1.8	1.7	1.6	1.4	1.3	1.3	1.3	1.1	1.1	1.0	0.9	0.8	0.8	-3.4%
LPG ICE	2.4	4.0	4.5	4.5	4.6	4.8	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	5.0	5.0	4.9	4.8	4.7	4.6	4.6	3.0%
LPG Bi-fuel	1.1	1.2	1.4	1.5	1.5	1.5	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	-5.7%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>47.7</b>	<b>63.3</b>	<b>72.8</b>	<b>78.1</b>	<b>109.4</b>	<b>113.9</b>	<b>115.4</b>	<b>113.4</b>	<b>110.2</b>	<b>107.1</b>	<b>106.2</b>	<b>104.4</b>	<b>101.4</b>	<b>99.0</b>	<b>99.3</b>	<b>100.8</b>	<b>101.0</b>	<b>102.2</b>	<b>99.6</b>	<b>97.7</b>	<b>96.5</b>	<b>95.8</b>	<b>3.2%</b>
Percent Alternative Car Sales	4.30	6.18	7.31	8.02	11.20	11.53	11.62	11.63	11.48	11.27	11.26	11.05	10.88	10.71	10.64	10.59	10.52	10.84	10.73	10.61	10.48	10.35	4.1%
<b>Total New Car Sales</b>	<b>1109.0</b>	<b>1024.8</b>	<b>995.6</b>	<b>973.7</b>	<b>977.3</b>	<b>988.1</b>	<b>992.7</b>	<b>975.7</b>	<b>959.8</b>	<b>950.1</b>	<b>943.2</b>	<b>945.2</b>	<b>931.8</b>	<b>924.8</b>	<b>933.6</b>	<b>951.8</b>	<b>960.2</b>	<b>942.6</b>	<b>928.4</b>	<b>920.5</b>	<b>920.5</b>	<b>925.0</b>	<b>-0.8%</b>
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	879.5	846.3	837.1	834.5	851.2	870.3	883.0	888.6	883.3	881.6	881.0	887.9	879.9	876.2	889.0	910.8	922.4	909.3	898.9	894.2	897.0	903.8	0.1%
TDI Diesel ICE	0.4	1.2	1.9	3.1	4.9	8.3	13.3	3.8	5.6	8.1	10.8	13.3	15.1	16.3	17.1	17.6	18.1	17.6	17.1	16.8	16.5	16.4	18.0%
<b>Total Conventional</b>	<b>880.0</b>	<b>847.5</b>	<b>839.1</b>	<b>837.5</b>	<b>856.1</b>	<b>878.6</b>	<b>896.3</b>	<b>892.4</b>	<b>888.9</b>	<b>889.7</b>	<b>891.8</b>	<b>901.2</b>	<b>894.9</b>	<b>892.5</b>	<b>906.1</b>	<b>928.4</b>	<b>940.5</b>	<b>926.9</b>	<b>916.1</b>	<b>910.9</b>	<b>913.5</b>	<b>920.2</b>	<b>0.2%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	6.0	7.8	9.8	11.8	13.4	14.1	14.4	14.5	13.8	13.0	12.2	11.7	10.9	11.5	10.9	10.5	10.1	9.3	8.6	7.9	7.3	6.8	0.6%
Methanol Ice	0.8	2.1	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.9	4.0	3.9	3.8	3.7	3.6	3.6	7.0%
Ethanol-Flex Fuel ICE	3.6	4.8	6.2	7.5	8.2	8.9	9.0	8.8	8.1	7.5	6.9	6.4	5.7	5.3	4.9	4.6	4.3	3.8	3.4	3.1	2.7	2.4	-1.8%
Ethanol ICE	0.1	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.5	7.7%
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.0%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.3%
CNG ICE	3.0	7.1	9.5	9.5	9.7	10.0	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.0	10.2	10.4	10.5	10.4	10.2	10.2	10.2	10.2	5.8%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.8%
LPG ICE	1.6	2.8	3.5	3.5	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.9	3.8	3.8	3.7	3.7	3.8	4.0%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>15.2</b>	<b>25.0</b>	<b>32.5</b>	<b>35.8</b>	<b>38.5</b>	<b>40.4</b>	<b>41.1</b>	<b>41.0</b>	<b>39.6</b>	<b>38.3</b>	<b>37.1</b>	<b>36.3</b>	<b>34.8</b>	<b>35.0</b>	<b>34.3</b>	<b>34.1</b>	<b>33.5</b>	<b>31.9</b>	<b>30.5</b>	<b>29.3</b>	<b>28.3</b>	<b>27.5</b>	<b>2.7%</b>

**Table 37. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
02 - Middle Atlantic**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Percent Alternative LT. Sales	1.70	2.87	3.73	4.10	4.30	4.39	4.39	4.39	4.27	4.13	3.99	3.88	3.74	3.77	3.65	3.54	3.44	3.33	3.22	3.11	3.01	2.90	2.5%
Total New Truck Sales	895.2	872.5	871.5	873.3	894.6	918.9	937.4	933.4	928.5	928.0	928.9	937.5	929.7	927.4	940.4	962.5	974.0	958.8	946.5	940.2	941.8	947.7	0.3%
Percent Total Alternative Sales	3.14	4.66	5.64	6.17	7.90	8.09	8.11	8.09	7.93	7.74	7.66	7.48	7.32	7.24	7.13	7.04	6.96	7.05	6.94	6.82	6.70	6.58	3.4%
EPACT Leg. Alternative Sales	11.64	25.76	32.70	32.36	32.79	33.37	33.77	33.40	33.04	32.87	32.77	32.96	32.59	32.43	32.82	33.52	33.87	33.30	32.84	32.59	32.62	32.80	4.8%
Z EVP Leg. Alternative Sales	0.00	0.00	0.00	0.00	71.92	73.60	74.90	74.51	74.14	74.19	74.42	75.32	74.93	75.00	76.35	78.48	79.79	78.94	78.35	78.26	78.84	79.80	N/A
Total Vehicles Sales	2004.2	1897.3	1867.1	1847.0	1872.0	1907.0	1930.2	1909.1	1888.3	1878.2	1872.0	1882.7	1861.6	1852.2	1874.0	1914.3	1934.2	1901.3	1875.0	1860.7	1862.4	1872.7	-0.3%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 TDI = Turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPACT = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 LT = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 38. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**03 - East North Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	1221.5	1105.9	1064.8	1035.5	1038.6	1055.8	1061.7	1050.0	1036.3	1027.2	1017.3	1020.6	1007.7	1001.3	1012.4	1034.2	1046.2	1025.5	1013.5	1008.2	1011.5	1019.9	-0.8%
TDI Diesel ICE	0.5	1.1	1.8	2.7	4.1	6.8	10.7	8.6	12.6	17.6	22.8	28.0	31.8	35.2	38.0	40.6	42.2	41.9	41.9	42.0	42.5	43.1	22.6%
<b>Total Conventional</b>	<b>1222.0</b>	<b>1107.0</b>	<b>1066.6</b>	<b>1038.3</b>	<b>1042.6</b>	<b>1062.5</b>	<b>1072.5</b>	<b>1058.6</b>	<b>1048.9</b>	<b>1044.8</b>	<b>1040.1</b>	<b>1048.6</b>	<b>1039.5</b>	<b>1036.5</b>	<b>1050.5</b>	<b>1074.8</b>	<b>1088.4</b>	<b>1067.5</b>	<b>1055.4</b>	<b>1050.2</b>	<b>1054.1</b>	<b>1062.9</b>	<b>-0.6%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	26.8	37.1	42.5	47.0	49.9	45.5	44.8	43.8	40.4	38.1	35.7	33.5	31.1	29.5	28.7	28.2	27.5	30.8	29.8	29.1	28.6	28.3	0.3%
Methanol ICE	0.8	1.9	2.5	2.6	2.7	2.9	3.1	3.4	3.8	4.5	5.5	6.7	7.9	8.0	8.7	9.5	10.0	10.0	9.8	9.6	9.4	9.3	11.7%
Ethanol-Flex Fuel ICE	17.3	25.4	28.0	31.1	32.4	33.9	34.1	33.2	31.4	29.4	30.5	28.3	25.7	24.1	23.1	22.5	21.8	21.2	20.3	19.6	19.1	18.6	0.3%
Ethanol ICE	0.1	0.3	0.4	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	2.7	3.2	3.7	4.2	4.6	4.9	4.7	4.5	4.2	4.0	3.8	17.8%
Electric Vehicle	0.2	0.3	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.8%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.4%
CNG ICE	5.3	10.7	12.9	12.8	13.1	13.5	13.8	13.9	13.9	14.0	14.0	14.2	14.1	14.1	14.3	14.8	14.8	14.5	14.3	14.2	14.1	14.2	4.6%
CNG Bi-fuel	1.9	2.3	2.6	2.8	2.9	2.9	2.8	2.7	2.4	2.2	2.1	2.0	1.8	1.7	1.7	1.7	1.5	1.4	1.3	1.2	1.1	1.1	-2.6%
LPG ICE	2.8	4.6	5.3	5.3	5.4	5.6	5.8	5.9	5.9	6.0	6.0	6.0	6.0	5.9	6.0	6.1	6.1	6.0	5.8	5.7	5.7	5.7	3.3%
LPG Bi-fuel	1.2	1.4	1.6	1.7	1.8	1.8	1.7	1.6	1.4	1.2	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	-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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>56.4</b>	<b>84.0</b>	<b>96.3</b>	<b>104.2</b>	<b>109.2</b>	<b>106.9</b>	<b>107.4</b>	<b>105.7</b>	<b>100.9</b>	<b>97.6</b>	<b>97.5</b>	<b>94.9</b>	<b>91.0</b>	<b>88.2</b>	<b>87.8</b>	<b>88.4</b>	<b>87.8</b>	<b>89.7</b>	<b>86.9</b>	<b>84.6</b>	<b>83.1</b>	<b>81.8</b>	<b>1.7%</b>
Percent Alternative Car Sales	4.41	7.05	8.28	9.12	9.48	9.14	9.10	9.08	8.78	8.54	8.57	8.30	8.05	7.84	7.71	7.60	7.46	7.76	7.61	7.46	7.31	7.15	2.2%
<b>Total New Car Sales</b>	<b>1278.4</b>	<b>1191.0</b>	<b>1162.8</b>	<b>1142.4</b>	<b>1151.8</b>	<b>1169.5</b>	<b>1179.8</b>	<b>1164.4</b>	<b>1149.9</b>	<b>1142.4</b>	<b>1137.6</b>	<b>1143.5</b>	<b>1130.5</b>	<b>1124.7</b>	<b>1138.3</b>	<b>1163.3</b>	<b>1176.2</b>	<b>1157.2</b>	<b>1142.3</b>	<b>1134.9</b>	<b>1137.2</b>	<b>1144.8</b>	<b>-0.5%</b>
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	1013.5	980.0	973.4	973.7	996.6	1026.7	1046.2	1057.9	1056.3	1057.9	1060.4	1071.8	1065.1	1063.5	1081.8	1110.8	1127.9	1114.2	1104.0	1100.5	1106.1	1116.6	0.4%
TDI Diesel ICE	0.5	1.5	2.4	3.8	6.1	10.4	16.7	4.8	7.1	10.4	13.8	17.1	19.4	21.1	22.3	23.2	23.6	23.2	22.7	22.3	22.1	22.0	18.4%
<b>Total Conventional</b>	<b>1014.1</b>	<b>981.4</b>	<b>975.8</b>	<b>977.5</b>	<b>1002.7</b>	<b>1037.0</b>	<b>1062.9</b>	<b>1062.7</b>	<b>1063.4</b>	<b>1068.2</b>	<b>1074.2</b>	<b>1088.9</b>	<b>1084.5</b>	<b>1084.6</b>	<b>1104.0</b>	<b>1134.0</b>	<b>1151.5</b>	<b>1137.4</b>	<b>1126.7</b>	<b>1122.8</b>	<b>1128.2</b>	<b>1138.6</b>	<b>0.5%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	7.1	11.3	14.1	17.0	19.8	17.3	17.1	17.2	15.7	14.9	14.0	13.5	12.5	13.1	12.5	12.0	11.5	10.5	9.7	9.0	8.3	7.7	0.3%
Methanol ICE	0.9	2.4	3.4	3.4	3.5	3.7	3.8	3.8	3.9	3.9	4.0	4.2	4.2	4.2	4.3	4.4	4.5	4.4	4.3	4.3	4.2	4.2	7.1%
Ethanol-Flex Fuel ICE	4.3	6.8	8.9	10.7	11.8	12.8	13.0	12.9	12.1	11.3	10.5	9.9	8.9	8.3	7.7	7.3	6.9	6.2	5.6	5.1	4.6	4.1	-0.2%
Ethanol ICE	0.1	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	8.7%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	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	0.2	0.2	0.2	4.4%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.1%
CNG ICE	3.4	8.2	11.0	11.1	11.4	11.8	12.1	12.1	12.1	12.1	12.1	12.3	12.2	12.2	12.4	12.7	12.9	12.7	12.6	12.5	12.6	12.7	6.1%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.0%
LPG ICE	1.8	3.2	4.1	4.1	4.2	4.3	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	4.6	4.7	4.7	4.7	4.6	4.6	4.6	4.7	4.3%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.2%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>17.9</b>	<b>32.6</b>	<b>42.2</b>	<b>47.1</b>	<b>51.6</b>	<b>50.6</b>	<b>51.2</b>	<b>51.2</b>	<b>49.0</b>	<b>47.5</b>	<b>46.1</b>	<b>45.3</b>	<b>43.4</b>	<b>43.4</b>	<b>42.6</b>	<b>42.3</b>	<b>41.7</b>	<b>39.6</b>	<b>37.9</b>	<b>36.5</b>	<b>35.3</b>	<b>34.3</b>	<b>3.0%</b>



**Table 38. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
03 - East North Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Percent Alternative LT. Sales	1.73	3.21	4.14	4.60	4.90	4.65	4.60	4.60	4.40	4.26	4.12	3.99	3.85	3.84	3.71	3.60	3.49	3.37	3.25	3.14	3.03	2.92	2.4%
Total New Truck Sales	1031.9	1014.0	1017.9	1024.6	1054.3	1087.6	1114.1	1113.9	1112.4	1115.8	1120.3	1134.2	1127.9	1127.9	1146.6	1176.3	1193.2	1177.1	1164.6	1159.2	1163.5	1172.9	0.6%
Percent Total Alternative Sales	3.21	5.29	6.35	6.98	7.29	6.98	6.91	6.89	6.63	6.43	6.36	6.15	5.95	5.84	5.71	5.59	5.46	5.54	5.41	5.28	5.14	5.01	2.0%
EPACT Leg. Alternative Sales	13.42	29.93	38.19	37.96	38.64	39.49	40.13	39.86	39.59	39.52	39.52	39.87	39.54	39.44	40.01	40.97	41.49	40.88	40.40	40.18	40.29	40.59	5.2%
ZEVP Leg. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2310.3	2205.0	2180.8	2167.0	2206.1	2257.1	2293.9	2278.3	2262.3	2258.1	2257.9	2277.7	2258.4	2252.6	2284.9	2339.6	2369.4	2334.3	2306.9	2294.1	2300.6	2317.7	0.0%

1/ Includes personal and fleet light-duty cars.  
2/ Includes personal and fleet light-duty trucks.

TDI = Turbo Direct Injection.

CNG = Compressed natural gas.

LPG = Liquid petroleum gas.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

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

N/A = Not applicable.

LI = Light Truck.

Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 39. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**04 - West North Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	507.3	463.0	447.1	435.9	438.0	446.1	449.2	444.7	439.5	436.5	433.5	435.9	431.3	429.2	434.6	444.3	450.1	442.0	437.4	435.8	437.7	441.9	-0.6%
TDI Diesel ICE	0.2	0.5	0.7	1.1	1.7	2.8	4.4	3.6	5.2	7.3	9.5	11.7	13.3	14.8	16.0	17.1	17.7	17.6	17.7	17.7	17.9	18.2	22.8%
Total Conventional	507.5	463.5	447.8	437.0	439.6	448.9	453.6	448.3	444.8	443.8	443.0	447.6	444.6	444.0	450.6	461.4	467.8	459.6	455.1	453.5	455.7	460.0	-0.4%
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	10.6	15.3	17.6	19.4	20.5	18.6	18.1	17.4	15.8	14.6	13.4	12.4	11.3	10.6	10.3	10.1	9.9	11.2	10.9	10.7	10.6	10.5	0.0%
Methanol ICE	0.3	0.8	1.1	1.1	1.2	1.2	1.3	1.4	1.6	1.8	2.2	2.6	3.0	3.0	3.3	3.6	3.8	3.8	3.7	3.7	3.6	3.6	11.3%
Ethanol-Flex Fuel ICE	6.9	9.7	10.7	11.9	12.6	13.0	12.9	12.4	11.5	10.6	10.7	9.8	8.7	8.1	7.7	7.5	7.3	7.1	6.9	6.6	6.5	6.3	-0.4%
Ethanol Ice	0.0	0.1	0.2	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.7	3.8	3.7	3.5	3.3	3.1	2.9	20.7%
Electric Vehicle	0.1	0.1	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	4.6%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.6%
CNG ICE	2.2	4.5	5.5	5.4	5.6	5.8	6.0	6.1	6.1	6.2	6.3	6.4	6.4	6.4	6.6	6.9	6.9	6.8	6.7	6.6	6.6	6.6	5.1%
CNG Bi-fuel	0.8	1.0	1.2	1.3	1.3	1.3	1.2	1.1	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.4	-3.1%
LPG ICE	1.2	1.9	2.3	2.3	2.4	2.5	2.6	2.7	2.8	2.8	2.8	2.9	2.9	2.8	2.9	3.0	3.0	2.9	2.9	2.8	2.8	2.7	4.0%
LPG Bi-fuel	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	-5.4%
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	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	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	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	22.7	34.2	39.3	42.5	44.7	43.6	43.6	42.7	40.5	38.9	38.6	37.6	36.1	35.2	35.3	35.9	35.8	36.6	35.5	34.6	34.0	33.5	1.8%
Percent Alternative Car Sales	4.28	6.87	8.07	8.86	9.24	8.86	8.77	8.69	8.34	8.06	8.02	7.74	7.51	7.34	7.26	7.23	7.11	7.37	7.23	7.09	6.94	6.79	2.1%
Total New Car Sales	530.2	497.7	487.1	479.5	484.4	492.5	497.2	490.9	485.2	482.7	481.6	485.2	480.7	479.2	485.9	497.3	503.6	496.2	490.6	488.1	489.7	493.6	-0.3%
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	420.5	409.7	408.0	409.0	419.4	432.8	441.5	446.5	446.2	447.6	449.6	455.4	453.5	453.7	462.3	475.4	483.4	478.2	474.5	473.7	476.7	481.8	0.6%
TDI Diesel ICE	0.2	0.6	1.0	1.5	2.5	4.2	6.8	2.0	2.9	4.3	5.7	7.0	8.0	8.7	9.2	9.6	9.8	9.6	9.4	9.3	9.2	9.1	18.6%
Total Conventional	420.8	410.3	409.0	410.6	421.9	437.0	448.3	448.5	449.2	451.8	455.2	462.4	461.5	462.4	471.5	485.0	493.2	487.8	484.0	483.0	485.9	491.0	0.7%
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	2.9	4.8	6.0	7.3	8.4	7.3	7.2	7.3	6.6	6.2	5.9	5.6	5.2	5.5	5.3	5.1	4.9	4.5	4.2	3.9	3.6	3.4	0.7%
Methanol Ice	0.4	1.0	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	7.2%
Ethanol-Flex Fuel ICE	1.7	2.6	3.4	4.1	4.7	5.0	5.1	5.0	4.6	4.3	4.0	3.7	3.4	3.1	2.9	2.8	2.6	2.4	2.2	2.0	1.8	1.6	-0.4%
Ethanol ICE	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	10.1%
Electric Vehicle	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.5%
CNG ICE	1.4	3.4	4.6	4.7	4.8	5.0	5.1	5.1	5.1	5.1	5.1	5.2	5.2	5.2	5.3	5.4	5.5	5.5	5.4	5.4	5.4	5.5	6.3%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.4%
LPG ICE	0.8	1.4	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.5%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.5%
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	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	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	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	7.3	13.5	17.4	19.5	21.5	21.0	21.2	21.2	20.3	19.7	19.1	18.8	18.1	18.2	17.9	17.9	17.7	16.9	16.2	15.6	15.1	14.7	3.3%

**Table 39. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
04 - West North Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Percent Alternative LT. Sales	1.70	3.18	4.09	4.53	4.85	4.59	4.52	4.52	4.32	4.17	4.03	3.91	3.77	3.79	3.67	3.56	3.46	3.34	3.23	3.13	3.02	2.91	2.5%
Total New Truck Sales	428.0	423.8	426.4	430.1	443.4	458.0	469.5	469.7	469.4	471.5	474.3	481.2	479.6	480.6	489.4	502.9	510.9	504.7	500.1	498.6	501.0	505.7	0.8%
Percent Total Alternative Sales	3.13	5.17	6.21	6.82	7.14	6.80	6.71	6.65	6.36	6.14	6.04	5.83	5.64	5.56	5.46	5.38	5.27	5.34	5.21	5.09	4.96	4.83	2.0%
EPACT Leg. Alternative Sales	5.56	12.51	16.00	15.93	16.25	16.63	16.91	16.81	16.71	16.70	16.73	16.92	16.81	16.80	17.08	17.52	17.77	17.53	17.35	17.28	17.35	17.50	5.3%
ZEVP Leg. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	958.2	921.5	913.5	909.6	927.8	950.5	966.7	960.6	954.7	954.3	956.0	966.3	960.2	959.7	975.3	1000.2	1014.5	1000.9	990.7	986.6	990.7	999.3	0.2%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

LDI = Turbo Direct Injection.

CNG = Compressed natural gas.

LPG = Liquid petroleum gas.

CNG = Compressed natural gas.

LPG = Liquid petroleum gas.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

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

N/A = Not applicable.

LT = Light Truck.

Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see

EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.L100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.L100199A.

**Table 40. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**05 - South Atlantic**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	1378.5	1264.2	1225.0	1199.6	1211.0	1240.7	1256.7	1251.4	1244.3	1243.2	1242.8	1257.7	1252.8	1256.4	1282.1	1321.8	1349.6	1334.6	1331.3	1336.8	1353.7	1377.5	0.0%
TDI Diesel ICE	0.5	1.2	1.9	3.0	4.6	7.6	12.1	9.8	14.5	20.4	26.7	33.0	37.8	42.2	46.0	49.5	51.8	51.9	52.4	52.8	53.8	54.9	23.6%
<b>Total Conventional</b>	<b>1379.0</b>	<b>1265.5</b>	<b>1226.9</b>	<b>1202.6</b>	<b>1215.6</b>	<b>1248.3</b>	<b>1268.9</b>	<b>1261.2</b>	<b>1258.8</b>	<b>1263.6</b>	<b>1269.5</b>	<b>1290.7</b>	<b>1290.6</b>	<b>1298.6</b>	<b>1328.0</b>	<b>1371.2</b>	<b>1401.5</b>	<b>1386.5</b>	<b>1383.6</b>	<b>1389.6</b>	<b>1407.5</b>	<b>1432.4</b>	<b>0.2%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	28.3	43.4	50.1	55.9	59.8	54.6	54.2	53.4	49.7	47.4	44.7	42.5	39.9	38.4	37.9	37.7	37.3	42.4	41.6	41.1	41.0	41.1	1.7%
Methanol ICE	0.9	2.2	2.9	3.0	3.2	3.4	3.7	4.1	4.6	5.5	6.8	8.5	10.1	10.3	11.4	12.6	13.5	13.7	13.6	13.5	13.4	13.3	12.9%
Ethanol-Flex Fuel ICE	18.3	24.1	27.0	30.1	31.6	32.9	33.2	32.4	30.7	29.0	30.2	28.2	25.9	24.4	23.6	23.1	22.5	22.1	21.2	20.6	20.0	19.5	0.3%
Ethanol Ice	0.1	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.5	3.8	4.1	4.0	3.7	3.5	3.3	3.1	16.2%
Electric Vehicle	0.2	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	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	5.4%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.3%
CNG ICE	6.0	12.3	14.9	14.9	15.3	15.8	16.4	16.6	16.7	17.0	17.2	17.6	17.6	17.7	18.2	18.9	19.1	19.0	18.8	18.8	19.0	19.2	5.5%
CNG Bi-fuel	2.2	2.8	3.2	3.5	3.6	3.7	3.6	3.4	3.1	2.8	2.7	2.6	2.4	2.2	2.2	2.2	2.0	1.9	1.8	1.7	1.6	1.5	-1.7%
LPG ICE	3.1	5.2	6.1	6.1	6.3	6.5	6.8	6.9	7.0	7.1	7.2	7.3	7.3	7.3	7.4	7.7	7.8	7.7	7.6	7.5	7.5	7.6	4.1%
LPG Bi-fuel	1.4	1.6	1.8	2.0	2.0	2.0	1.9	1.8	1.6	1.5	1.3	1.2	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.5	-4.7%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>60.6</b>	<b>92.2</b>	<b>106.8</b>	<b>116.2</b>	<b>122.7</b>	<b>119.8</b>	<b>120.9</b>	<b>119.9</b>	<b>115.2</b>	<b>112.3</b>	<b>112.5</b>	<b>110.7</b>	<b>107.4</b>	<b>105.1</b>	<b>105.7</b>	<b>107.5</b>	<b>107.6</b>	<b>112.1</b>	<b>109.6</b>	<b>107.9</b>	<b>107.0</b>	<b>106.4</b>	<b>2.6%</b>
Percent Alternative Car Sales	4.21	6.79	8.01	8.81	9.17	8.76	8.70	8.68	8.38	8.16	8.14	7.90	7.68	7.49	7.37	7.27	7.13	7.48	7.34	7.20	7.06	6.92	2.3%
<b>Total New Car Sales</b>	<b>1439.6</b>	<b>1357.7</b>	<b>1333.7</b>	<b>1318.8</b>	<b>1338.3</b>	<b>1368.1</b>	<b>1389.8</b>	<b>1381.1</b>	<b>1374.0</b>	<b>1375.9</b>	<b>1382.0</b>	<b>1401.4</b>	<b>1397.9</b>	<b>1403.6</b>	<b>1433.7</b>	<b>1478.7</b>	<b>1509.1</b>	<b>1498.6</b>	<b>1493.2</b>	<b>1497.5</b>	<b>1514.5</b>	<b>1538.8</b>	<b>0.3%</b>
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	1142.1	1117.8	1117.5	1125.3	1159.4	1203.5	1235.4	1257.1	1264.6	1276.7	1290.9	1316.4	1319.9	1329.9	1365.1	1414.8	1449.9	1445.6	1445.7	1454.6	1475.7	1503.5	1.3%
TDI Diesel ICE	0.6	1.6	2.6	4.1	6.7	11.5	18.6	5.4	8.0	11.8	15.8	19.7	22.6	24.7	26.4	27.6	28.3	28.2	27.8	27.4	27.3	27.4	19.3%
<b>Total Conventional</b>	<b>1142.7</b>	<b>1119.4</b>	<b>1120.0</b>	<b>1129.5</b>	<b>1166.1</b>	<b>1215.0</b>	<b>1254.0</b>	<b>1262.4</b>	<b>1272.6</b>	<b>1288.5</b>	<b>1306.7</b>	<b>1336.1</b>	<b>1342.6</b>	<b>1354.6</b>	<b>1391.5</b>	<b>1442.4</b>	<b>1478.2</b>	<b>1473.8</b>	<b>1473.5</b>	<b>1482.0</b>	<b>1503.0</b>	<b>1530.9</b>	<b>1.3%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	7.6	13.7	17.1	20.9	24.6	21.3	21.2	21.6	19.9	19.1	18.2	17.7	16.7	17.8	17.2	16.8	16.3	15.1	14.1	13.3	12.4	11.7	2.0%
Methanol Ice	1.1	2.8	3.9	4.0	4.1	4.3	4.5	4.5	4.6	4.8	4.9	5.1	5.2	5.3	5.5	5.7	5.8	5.7	5.7	5.6	5.7	5.7	8.0%
Ethanol-Flex Fuel ICE	4.5	6.3	8.4	10.1	11.3	12.1	12.3	12.2	11.4	10.7	9.9	9.4	8.5	7.9	7.5	7.1	6.7	6.0	5.5	4.9	4.5	4.0	-0.6%
Ethanol ICE	0.1	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	9.0%
Electric Vehicle	0.1	0.1	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.2%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.4%
CNG ICE	3.8	9.4	12.7	12.8	13.3	13.8	14.2	14.3	14.4	14.6	14.7	15.0	15.1	15.2	15.6	16.2	16.5	16.5	16.4	16.5	16.7	17.0	7.0%
CNG Bi-fuel	0.0	0.0	0.1	0.1	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	0.0	0.0	0.0	0.0	0.0	-12.2%
LPG ICE	2.1	3.7	4.7	4.7	4.9	5.1	5.2	5.3	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.9	6.1	6.1	6.0	6.1	6.1	6.3	5.2%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.9%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>19.4</b>	<b>36.5</b>	<b>47.5</b>	<b>53.3</b>	<b>59.0</b>	<b>57.4</b>	<b>58.4</b>	<b>58.8</b>	<b>56.6</b>	<b>55.4</b>	<b>54.3</b>	<b>53.9</b>	<b>52.2</b>	<b>53.1</b>	<b>52.7</b>	<b>52.9</b>	<b>52.6</b>	<b>50.6</b>	<b>48.9</b>	<b>47.6</b>	<b>46.6</b>	<b>45.8</b>	<b>4.0%</b>

**Table 40. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
05 - South Atlantic**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Percent Alternative LT. Sales	1.67	3.16	4.07	4.51	4.81	4.51	4.45	4.45	4.26	4.12	3.99	3.88	3.74	3.77	3.65	3.54	3.44	3.32	3.21	3.11	3.01	2.90	2.6%
Total New Truck Sales	1162.0	1155.9	1167.5	1182.8	1225.0	1272.4	1312.4	1321.3	1329.2	1343.9	1361.0	1390.0	1394.7	1407.7	1444.2	1495.3	1530.9	1524.4	1522.4	1529.6	1549.6	1576.6	1.4%
Percent Total Alternative Sales	3.07	5.12	6.17	6.77	7.09	6.71	6.64	6.61	6.35	6.17	6.08	5.89	5.71	5.63	5.50	5.39	5.27	5.38	5.26	5.14	5.01	4.89	2.1%
EPACT Leg. Alternative Sales	15.11	34.12	43.80	43.82	44.90	46.20	47.28	47.28	47.30	47.60	48.01	48.86	48.89	49.22	50.39	52.08	53.24	52.94	52.81	53.01	53.66	54.56	6.0%
Z EVP Leg. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2601.6	2513.7	2501.3	2501.6	2563.3	2640.5	2702.2	2702.4	2703.2	2719.9	2743.0	2791.4	2792.7	2811.3	2877.9	2974.0	3040.0	3023.0	3015.6	3027.1	3064.1	3115.5	0.8%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 I DI = I turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPACT = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 L.I. = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 41. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**06 - East South Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	453.3	416.3	402.9	393.7	396.1	403.8	407.1	403.6	399.1	396.5	393.7	396.1	392.1	390.6	395.9	405.5	411.2	404.2	400.4	399.3	401.7	406.0	-0.5%
TDI Diesel ICE	0.2	0.4	0.7	1.1	1.6	2.7	4.2	3.4	5.0	7.0	9.1	11.2	12.7	14.1	15.3	16.4	17.1	17.1	17.1	17.2	17.5	17.8	23.2%
<b>Total Conventional</b>	<b>453.4</b>	<b>416.7</b>	<b>403.6</b>	<b>394.7</b>	<b>397.6</b>	<b>406.5</b>	<b>411.4</b>	<b>407.0</b>	<b>404.1</b>	<b>403.5</b>	<b>402.8</b>	<b>407.3</b>	<b>404.9</b>	<b>404.7</b>	<b>411.3</b>	<b>421.9</b>	<b>428.3</b>	<b>421.2</b>	<b>417.6</b>	<b>416.5</b>	<b>419.2</b>	<b>423.8</b>	<b>-0.3%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	9.6	13.2	15.2	16.9	18.0	16.4	16.2	15.8	14.6	13.8	13.0	12.2	11.3	10.8	10.5	10.3	10.1	11.3	11.0	10.7	10.6	10.5	0.4%
Methanol ICE	0.3	0.7	1.0	1.0	1.0	1.1	1.2	1.3	1.4	1.6	2.0	2.4	2.8	2.9	3.1	3.4	3.6	3.6	3.5	3.5	3.4	3.3	11.5%
Ethanol-Flex Fuel ICE	6.2	9.0	10.0	11.1	11.9	12.4	12.5	12.2	11.5	10.8	11.3	10.5	9.6	9.0	8.7	8.4	8.2	8.0	7.7	7.4	7.2	7.1	0.6%
Ethanol Ice	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.8	1.7	1.6	1.6	1.5	1.4	17.8%
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.0%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.1%
CNG ICE	2.0	4.0	4.9	4.9	5.0	5.1	5.3	5.3	5.4	5.4	5.5	5.5	5.5	5.5	5.6	5.8	5.8	5.7	5.6	5.6	5.6	5.6	4.9%
CNG Bi-fuel	0.7	0.9	1.0	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	-2.1%
LPG ICE	1.0	1.7	2.0	2.0	2.1	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.3	2.3	2.3	3.7%
LPG Bi-fuel	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	-4.9%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>20.4</b>	<b>30.4</b>	<b>35.0</b>	<b>37.9</b>	<b>40.1</b>	<b>39.4</b>	<b>39.6</b>	<b>39.1</b>	<b>37.4</b>	<b>36.2</b>	<b>36.3</b>	<b>35.4</b>	<b>34.0</b>	<b>33.1</b>	<b>33.0</b>	<b>33.3</b>	<b>33.0</b>	<b>33.8</b>	<b>32.8</b>	<b>32.0</b>	<b>31.5</b>	<b>31.0</b>	<b>1.9%</b>
Percent Alternative Car Sales	4.30	6.79	7.97	8.76	9.16	8.83	8.79	8.76	8.47	8.24	8.27	8.00	7.75	7.55	7.42	7.31	7.16	7.43	7.28	7.13	6.98	6.82	2.1%
<b>Total New Car Sales</b>	<b>473.8</b>	<b>447.1</b>	<b>438.6</b>	<b>432.6</b>	<b>437.7</b>	<b>445.8</b>	<b>451.0</b>	<b>446.1</b>	<b>441.5</b>	<b>439.7</b>	<b>439.1</b>	<b>442.7</b>	<b>438.9</b>	<b>437.8</b>	<b>444.2</b>	<b>455.1</b>	<b>461.4</b>	<b>455.1</b>	<b>450.3</b>	<b>448.5</b>	<b>450.6</b>	<b>454.8</b>	<b>-0.2%</b>
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	375.8	368.2	367.5	369.3	379.3	391.8	400.2	405.8	406.0	407.6	409.6	415.2	413.7	414.1	422.3	434.7	442.5	438.2	435.2	434.9	438.3	443.5	0.8%
TDI Diesel ICE	0.2	0.6	0.9	1.5	2.4	4.1	6.6	1.9	2.9	4.2	5.6	6.9	7.9	8.6	9.1	9.5	9.7	9.6	9.4	9.3	9.2	9.2	19.0%
<b>Total Conventional</b>	<b>376.0</b>	<b>368.8</b>	<b>368.5</b>	<b>370.8</b>	<b>381.6</b>	<b>395.9</b>	<b>406.8</b>	<b>407.7</b>	<b>408.8</b>	<b>411.7</b>	<b>415.2</b>	<b>422.1</b>	<b>421.5</b>	<b>422.7</b>	<b>431.4</b>	<b>444.2</b>	<b>452.2</b>	<b>447.8</b>	<b>444.6</b>	<b>444.2</b>	<b>447.5</b>	<b>452.8</b>	<b>0.8%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	2.6	4.0	5.0	6.1	7.1	6.2	6.1	6.2	5.7	5.4	5.1	4.9	4.5	4.7	4.5	4.3	4.2	3.8	3.5	3.2	3.0	2.8	0.3%
Methanol Ice	0.3	0.9	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	7.4%
Ethanol-Flex Fuel ICE	1.5	2.4	3.2	3.8	4.4	4.7	4.8	4.8	4.5	4.2	3.9	3.7	3.3	3.1	2.9	2.7	2.6	2.3	2.1	1.9	1.7	1.6	0.0%
Ethanol ICE	0.0	0.1	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	0.4	0.4	0.3	0.3	0.3	0.3	0.3	8.9%
Electric Vehicle	0.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.7%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.9%
CNG ICE	1.3	3.1	4.2	4.2	4.3	4.5	4.6	4.6	4.6	4.7	4.7	4.8	4.7	4.8	4.8	5.0	5.1	5.0	5.0	4.9	5.0	5.0	6.5%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.5%
LPG ICE	0.7	1.2	1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	4.6%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.0%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>6.5</b>	<b>11.9</b>	<b>15.4</b>	<b>17.3</b>	<b>19.0</b>	<b>18.8</b>	<b>19.0</b>	<b>19.1</b>	<b>18.3</b>	<b>17.8</b>	<b>17.3</b>	<b>17.0</b>	<b>16.3</b>	<b>16.4</b>	<b>16.1</b>	<b>16.0</b>	<b>15.8</b>	<b>15.1</b>	<b>14.5</b>	<b>14.0</b>	<b>13.6</b>	<b>13.2</b>	<b>3.3%</b>

**Table 41. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
06 - East South Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Percent Alternative LT. Sales	1.70	3.12	4.02	4.45	4.75	4.52	4.47	4.47	4.28	4.14	4.00	3.88	3.73	3.73	3.60	3.49	3.38	3.27	3.16	3.05	2.94	2.84	2.4%
Total New Truck Sales	382.5	380.6	383.9	388.0	400.7	414.6	425.9	426.7	427.1	429.5	432.5	439.1	437.9	439.1	447.5	460.2	468.0	462.9	459.1	458.2	461.0	466.0	0.9%
Percent Total Alternative Sales	3.13	5.10	6.13	6.72	7.05	6.76	6.69	6.66	6.41	6.21	6.15	5.95	5.75	5.64	5.50	5.39	5.26	5.33	5.20	5.07	4.94	4.81	2.0%
EPACT Leg. Alternative Sales	4.97	11.24	14.40	14.38	14.69	15.06	15.34	15.27	15.20	15.21	15.26	15.44	15.35	15.35	15.61	16.03	16.28	16.08	15.93	15.88	15.97	16.13	5.5%
Z EVP Leg. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	856.3	827.7	822.5	820.6	838.4	860.5	876.8	872.8	868.6	869.2	871.6	881.8	876.8	876.9	891.7	915.4	929.4	917.9	909.4	906.7	911.7	920.8	0.3%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 I DI = I turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPACT = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 L.T. = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 42. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**07 - West South Central**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	801.4	737.4	714.6	699.3	705.2	720.6	728.6	724.5	718.6	716.0	713.5	719.8	714.8	714.0	725.9	745.4	758.4	747.8	743.2	743.4	750.0	760.3	-0.2%
TDI Diesel ICE	0.3	0.8	1.2	1.9	2.9	4.8	7.7	6.2	9.1	12.8	16.7	20.6	23.5	26.2	28.5	30.7	32.1	32.1	32.3	32.6	33.2	33.9	23.8%
<b>Total Conventional</b>	<b>801.7</b>	<b>738.2</b>	<b>715.8</b>	<b>701.2</b>	<b>708.0</b>	<b>725.4</b>	<b>736.2</b>	<b>730.7</b>	<b>727.7</b>	<b>728.7</b>	<b>730.1</b>	<b>740.4</b>	<b>738.3</b>	<b>740.2</b>	<b>754.5</b>	<b>776.1</b>	<b>790.5</b>	<b>779.9</b>	<b>775.5</b>	<b>776.0</b>	<b>783.2</b>	<b>794.2</b>	<b>0.0%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	16.6	22.4	25.7	28.5	30.2	27.3	26.6	25.8	23.6	22.2	20.8	19.7	18.3	17.6	17.2	17.2	17.0	19.3	18.8	18.5	18.3	18.3	0.5%
Methanol ICE	0.5	1.2	1.7	1.7	1.8	1.9	2.0	2.1	2.3	2.6	3.1	3.7	4.2	4.2	4.5	4.9	5.1	5.1	5.1	5.0	5.0	4.9	10.6%
Ethanol-Flex Fuel ICE	10.7	14.2	15.8	17.5	18.2	18.8	18.7	18.0	16.9	15.8	16.3	15.2	13.9	13.1	12.7	12.4	12.1	12.0	11.5	11.2	10.9	10.7	0.0%
Ethanol Ice	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.3	2.3	2.2	2.1	1.9	1.8	16.3%
Electric Vehicle	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	5.2%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.6%
CNG ICE	3.5	7.2	8.7	8.7	9.0	9.4	9.8	10.0	10.1	10.3	10.5	10.8	10.9	11.0	11.4	12.0	12.0	11.9	11.7	11.6	11.7	11.7	5.7%
CNG Bi-fuel	1.4	1.7	2.0	2.1	2.2	2.2	2.1	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.9	0.8	-2.4%
LPG ICE	1.8	3.1	3.7	3.7	4.0	4.3	4.6	4.9	5.2	5.4	5.6	5.8	5.8	5.9	6.0	6.1	6.1	6.0	5.8	5.7	5.6	5.5	5.1%
LPG Bi-fuel	0.8	1.1	1.3	1.3	1.3	1.3	1.2	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	-3.8%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>35.5</b>	<b>51.3</b>	<b>59.2</b>	<b>64.1</b>	<b>67.3</b>	<b>65.7</b>	<b>65.8</b>	<b>64.7</b>	<b>61.8</b>	<b>60.0</b>	<b>60.1</b>	<b>59.0</b>	<b>57.0</b>	<b>55.7</b>	<b>55.9</b>	<b>56.9</b>	<b>56.7</b>	<b>58.3</b>	<b>56.8</b>	<b>55.6</b>	<b>55.0</b>	<b>54.5</b>	<b>2.0%</b>
Percent Alternative Car Sales	4.24	6.50	7.64	8.38	8.68	8.30	8.21	8.14	7.83	7.61	7.61	7.38	7.16	7.00	6.90	6.83	6.69	6.96	6.82	6.69	6.56	6.42	1.9%
<b>Total New Car Sales</b>	<b>837.2</b>	<b>789.5</b>	<b>775.0</b>	<b>765.3</b>	<b>775.3</b>	<b>791.1</b>	<b>802.1</b>	<b>795.5</b>	<b>789.5</b>	<b>788.7</b>	<b>790.3</b>	<b>799.4</b>	<b>795.3</b>	<b>796.0</b>	<b>810.4</b>	<b>833.0</b>	<b>847.1</b>	<b>838.3</b>	<b>832.3</b>	<b>831.7</b>	<b>838.2</b>	<b>848.7</b>	<b>0.1%</b>
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	664.1	650.8	650.3	654.1	672.9	696.5	713.1	725.0	727.4	732.3	738.4	750.7	750.5	753.8	771.1	796.4	813.2	807.8	804.9	806.9	815.6	828.0	1.0%
TDI Diesel ICE	0.3	1.0	1.6	2.6	4.3	7.4	11.9	3.5	5.2	7.6	10.2	12.7	14.6	15.9	16.9	17.7	18.1	18.0	17.8	17.6	17.5	17.6	19.6%
<b>Total Conventional</b>	<b>664.5</b>	<b>651.9</b>	<b>651.9</b>	<b>656.8</b>	<b>677.2</b>	<b>703.8</b>	<b>725.0</b>	<b>728.5</b>	<b>732.6</b>	<b>739.9</b>	<b>748.6</b>	<b>763.5</b>	<b>765.1</b>	<b>769.7</b>	<b>788.1</b>	<b>814.1</b>	<b>831.3</b>	<b>825.8</b>	<b>822.7</b>	<b>824.4</b>	<b>833.1</b>	<b>845.6</b>	<b>1.1%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	4.5	7.0	8.7	10.6	12.4	10.8	10.6	10.8	9.9	9.4	8.9	8.5	8.0	8.4	8.0	7.8	7.5	6.9	6.4	5.9	5.5	5.1	0.6%
Methanol Ice	0.6	1.6	2.3	2.3	2.4	2.5	2.6	2.6	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.1	3.1	3.1	3.0	3.0	3.0	3.1	7.6%
Ethanol-Flex Fuel ICE	2.7	3.8	5.0	6.1	6.8	7.3	7.4	7.3	6.8	6.4	5.9	5.6	5.1	4.7	4.4	4.2	3.9	3.6	3.2	2.9	2.6	2.3	-0.6%
Ethanol ICE	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	8.9%
Electric Vehicle	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.0%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.3%
CNG ICE	2.2	5.4	7.4	7.4	7.7	8.0	8.2	8.3	8.3	8.4	8.4	8.6	8.6	8.6	8.8	9.1	9.3	9.2	9.2	9.2	9.3	9.4	6.7%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.4%
LPG ICE	1.2	2.2	2.7	2.7	2.8	2.9	3.0	3.0	3.1	3.1	3.1	3.2	3.2	3.2	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.5	4.9%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.0%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>11.3</b>	<b>20.4</b>	<b>26.5</b>	<b>29.6</b>	<b>32.6</b>	<b>31.9</b>	<b>32.4</b>	<b>32.5</b>	<b>31.2</b>	<b>30.5</b>	<b>29.7</b>	<b>29.4</b>	<b>28.4</b>	<b>28.6</b>	<b>28.2</b>	<b>28.2</b>	<b>28.0</b>	<b>26.8</b>	<b>25.9</b>	<b>25.1</b>	<b>24.5</b>	<b>23.9</b>	<b>3.5%</b>



**Table 42. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
07 - West South Central**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Percent Alternative LT. Sales	1.68	3.03	3.91	4.31	4.59	4.34	4.27	4.27	4.09	3.96	3.82	3.71	3.57	3.58	3.46	3.35	3.26	3.15	3.05	2.95	2.85	2.75	2.3%
Total New Truck Sales	675.8	672.2	678.4	686.4	709.7	735.8	757.4	761.0	763.8	770.4	778.3	792.8	793.4	798.3	816.3	842.3	859.3	852.7	848.5	849.5	857.6	869.5	1.2%
Percent Total Alternative Sales	3.10	4.90	5.90	6.46	6.72	6.39	6.30	6.25	5.99	5.80	5.73	5.55	5.37	5.29	5.17	5.08	4.96	5.04	4.92	4.80	4.68	4.56	1.8%
EPACT Leg. Alternative Sales	8.79	19.84	25.45	25.43	26.01	26.72	27.28	27.23	27.18	27.29	27.46	27.87	27.81	27.91	28.48	29.34	29.88	29.61	29.44	29.44	29.70	30.09	5.8%
Z EVP Leg. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1513.0	1461.7	1453.5	1451.7	1485.1	1526.9	1559.4	1556.4	1553.4	1559.1	1568.6	1592.2	1588.7	1594.3	1626.7	1675.4	1706.4	1690.9	1680.8	1681.2	1695.7	1718.2	0.6%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 I DI = I turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPAC I = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 L I . = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 43. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**08 - Mountain**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	443.8	421.1	415.7	412.2	421.4	435.3	444.3	445.3	445.0	446.4	447.7	454.0	452.4	453.4	462.8	477.6	489.4	486.9	488.3	493.7	504.2	518.1	0.7%
TDI Diesel ICE	0.2	0.5	0.7	1.1	1.8	3.0	4.8	3.9	5.8	8.2	10.8	13.4	15.3	17.1	18.7	20.2	21.3	21.5	21.9	22.3	23.1	23.9	24.7%
<b>Total Conventional</b>	<b>444.0</b>	<b>421.6</b>	<b>416.4</b>	<b>413.4</b>	<b>423.2</b>	<b>438.3</b>	<b>449.1</b>	<b>449.2</b>	<b>450.8</b>	<b>454.6</b>	<b>458.4</b>	<b>467.4</b>	<b>467.7</b>	<b>470.5</b>	<b>481.5</b>	<b>497.8</b>	<b>510.7</b>	<b>508.4</b>	<b>510.2</b>	<b>516.0</b>	<b>527.3</b>	<b>542.0</b>	<b>0.9%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	10.0	13.6	16.0	18.0	19.4	17.7	17.5	17.0	15.6	14.7	13.6	12.6	11.6	11.0	10.6	10.4	10.2	11.7	11.5	11.5	11.5	11.7	0.7%
Methanol ICE	0.3	0.7	1.0	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.8	3.6	4.3	4.4	5.0	5.6	6.0	6.1	6.1	6.1	6.1	6.1	14.6%
Ethanol-Flex Fuel ICE	6.5	8.3	9.4	10.6	11.2	11.7	11.8	11.4	10.7	9.9	10.2	9.3	8.3	7.8	7.4	7.1	6.9	6.9	6.7	6.5	6.4	6.4	-0.1%
Ethanol Ice	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	1.0	1.2	1.4	1.7	1.9	2.2	2.3	2.3	2.2	2.1	2.0	1.9	19.1%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	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	0.2	0.2	0.2	0.2	5.8%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0%
CNG ICE	1.9	4.1	5.1	5.2	5.4	5.7	6.0	6.2	6.3	6.5	6.6	6.8	6.9	6.9	7.2	7.6	7.7	7.6	7.6	7.7	7.8	8.0	6.6%
CNG Bi-fuel	0.8	1.0	1.2	1.3	1.3	1.3	1.3	1.2	1.1	1.0	0.9	0.9	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	-1.7%
LPG ICE	1.0	1.8	2.1	2.2	2.3	2.5	2.6	2.8	2.9	3.0	3.1	3.1	3.1	3.1	3.2	3.3	3.4	3.4	3.3	3.3	3.3	3.3	5.5%
LPG Bi-fuel	0.5	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	-4.0%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>21.1</b>	<b>30.4</b>	<b>35.8</b>	<b>39.4</b>	<b>41.9</b>	<b>41.3</b>	<b>41.9</b>	<b>41.5</b>	<b>39.8</b>	<b>38.7</b>	<b>38.8</b>	<b>38.1</b>	<b>37.0</b>	<b>36.2</b>	<b>36.5</b>	<b>37.5</b>	<b>37.7</b>	<b>39.1</b>	<b>38.5</b>	<b>38.1</b>	<b>38.1</b>	<b>38.3</b>	<b>2.7%</b>
Percent Alternative Car Sales	4.53	6.73	7.92	8.69	9.01	8.62	8.53	8.45	8.11	7.85	7.80	7.54	7.33	7.14	7.05	7.00	6.88	7.14	7.01	6.88	6.74	6.60	1.7%
<b>Total New Car Sales</b>	<b>465.1</b>	<b>452.0</b>	<b>452.2</b>	<b>452.7</b>	<b>465.1</b>	<b>479.7</b>	<b>490.9</b>	<b>490.7</b>	<b>490.6</b>	<b>493.3</b>	<b>497.2</b>	<b>505.5</b>	<b>504.8</b>	<b>506.7</b>	<b>518.0</b>	<b>535.3</b>	<b>548.5</b>	<b>547.5</b>	<b>548.7</b>	<b>554.1</b>	<b>565.4</b>	<b>580.3</b>	<b>1.0%</b>
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	368.5	372.2	379.0	386.3	402.9	421.6	435.6	446.6	451.3	457.4	463.9	474.0	475.6	479.0	492.0	510.9	525.5	526.7	529.7	536.7	549.2	565.1	2.0%
TDI Diesel ICE	0.2	0.6	1.0	1.6	2.7	4.6	7.5	2.2	3.3	4.9	6.6	8.3	9.5	10.4	11.2	11.8	12.1	12.2	12.1	12.1	12.3	12.5	20.5%
<b>Total Conventional</b>	<b>368.7</b>	<b>372.8</b>	<b>380.0</b>	<b>388.0</b>	<b>405.6</b>	<b>426.2</b>	<b>443.2</b>	<b>448.8</b>	<b>454.7</b>	<b>462.3</b>	<b>470.5</b>	<b>482.3</b>	<b>485.2</b>	<b>489.4</b>	<b>503.2</b>	<b>522.6</b>	<b>537.7</b>	<b>538.8</b>	<b>541.8</b>	<b>548.8</b>	<b>561.5</b>	<b>577.6</b>	<b>2.1%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	2.7	4.3	5.5	6.7	8.0	7.0	7.0	7.1	6.6	6.3	6.0	5.8	5.4	5.7	5.5	5.4	5.2	4.9	4.6	4.3	4.1	3.8	1.6%
Methanol Ice	0.3	0.9	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	8.9%
Ethanol-Flex Fuel ICE	1.6	2.2	3.0	3.7	4.1	4.5	4.6	4.6	4.3	4.0	3.7	3.5	3.2	2.9	2.8	2.6	2.5	2.3	2.1	1.9	1.7	1.6	-0.2%
Ethanol ICE	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	10.4%
Electric Vehicle	0.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.0%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.7%
CNG ICE	1.2	3.1	4.3	4.4	4.6	4.8	5.0	5.1	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.9	6.0	6.0	6.0	6.1	6.2	6.4	7.8%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.2%
LPG ICE	0.7	1.2	1.6	1.6	1.7	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.4	5.9%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.3%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>6.7</b>	<b>12.0</b>	<b>15.9</b>	<b>18.1</b>	<b>20.2</b>	<b>19.9</b>	<b>20.4</b>	<b>20.6</b>	<b>19.9</b>	<b>19.6</b>	<b>19.2</b>	<b>19.0</b>	<b>18.4</b>	<b>18.7</b>	<b>18.6</b>	<b>18.7</b>	<b>18.7</b>	<b>18.1</b>	<b>17.6</b>	<b>17.2</b>	<b>17.0</b>	<b>16.9</b>	<b>4.3%</b>

**Table 43. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
08 - Mountain**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Percent Alternative LT. Sales	1.78	3.12	4.02	4.45	4.74	4.47	4.40	4.40	4.20	4.06	3.92	3.80	3.66	3.68	3.56	3.45	3.36	3.25	3.14	3.04	2.94	2.84	2.1%
Total New Truck Sales	375.4	384.8	395.9	406.0	425.8	446.1	463.6	469.4	474.6	481.9	489.7	501.4	503.6	508.1	521.8	541.3	556.4	556.9	559.4	566.0	578.5	594.5	2.1%
Percent Total Alternative Sales	3.30	5.07	6.10	6.69	6.97	6.62	6.52	6.47	6.19	5.98	5.88	5.68	5.50	5.41	5.30	5.22	5.11	5.18	5.06	4.94	4.82	4.70	1.6%
EPACT Leg. Alternative Sales	4.88	11.36	14.85	15.04	15.60	16.20	16.70	16.80	16.89	17.07	17.28	17.63	17.65	17.77	18.21	18.86	19.35	19.34	19.41	19.62	20.03	20.57	6.8%
Z EVP Leg. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	840.5	836.9	848.1	858.8	890.9	925.8	954.5	960.2	965.2	975.2	987.0	1006.8	1008.3	1014.8	1039.8	1076.7	1104.8	1104.4	1108.1	1120.1	1143.8	1174.8	1.5%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 I DI = I turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPACT = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 L I. = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 44. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)**  
**09 - Pacific**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	1164.8	1063.3	1022.5	994.6	940.2	947.9	951.9	943.9	932.4	926.2	920.0	923.9	911.4	907.9	918.6	939.2	952.3	936.6	928.8	926.8	933.9	945.3	-0.9%
TDI Diesel ICE	0.5	1.1	1.7	2.7	4.2	7.0	11.8	9.5	13.7	19.5	25.2	31.1	36.0	40.3	44.0	47.4	50.5	50.7	51.4	53.0	54.2	56.0	24.2%
Total Conventional	1165.3	1064.4	1024.2	997.2	944.4	954.9	963.7	953.4	946.1	945.7	945.2	955.0	947.4	948.2	962.6	986.6	1002.8	987.2	980.3	979.8	988.2	1001.3	-0.7%
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	26.4	31.2	37.3	41.3	45.0	47.8	47.2	45.1	41.8	38.2	34.5	31.6	29.0	27.5	26.9	27.0	26.9	30.4	29.8	29.6	29.6	29.8	0.5%
Methanol ICE	0.8	1.9	2.5	2.6	2.9	3.4	4.0	5.0	6.3	8.3	11.2	15.0	19.0	19.5	22.2	24.9	26.1	26.6	26.5	26.5	26.5	26.6	17.2%
Ethanol-Flex Fuel ICE	17.1	23.0	25.5	28.1	27.3	28.7	28.9	27.3	25.1	22.7	22.5	20.3	18.2	16.9	16.2	15.9	15.6	15.2	14.7	14.2	13.9	13.6	-1.0%
Ethanol Ice	0.1	0.2	0.4	0.4	0.5	0.6	0.8	1.1	1.4	1.8	2.3	2.9	3.4	4.0	4.7	5.3	5.7	5.6	5.3	5.0	4.7	4.4	18.6%
Electric Vehicle	0.2	0.3	0.3	0.3	58.3	59.7	60.8	60.5	60.2	60.3	60.5	61.2	60.9	61.0	62.1	63.8	64.9	64.2	63.7	63.7	64.2	64.9	31.0%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.2%
CNG ICE	5.1	10.4	12.5	12.4	12.8	13.3	13.9	14.2	14.4	14.5	14.8	15.1	15.1	15.3	15.8	16.7	16.7	16.5	16.3	16.3	16.3	16.5	5.5%
CNG Bi-fuel	2.0	2.4	2.8	3.0	3.1	3.1	3.0	2.8	2.4	2.2	2.0	1.9	1.7	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.2	1.1	-2.7%
LPG ICE	2.7	4.5	5.3	5.3	5.6	6.1	6.6	7.0	7.3	7.5	7.6	7.8	7.8	7.8	7.9	8.1	8.0	7.9	7.7	7.5	7.4	7.3	4.6%
LPG Bi-fuel	1.4	1.6	1.8	1.9	1.9	1.9	1.9	1.7	1.5	1.3	1.1	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	-5.3%
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	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	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	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	55.8	75.5	88.4	95.5	157.4	164.7	167.2	164.6	160.4	156.8	156.6	156.7	155.9	154.2	158.0	163.9	166.0	168.3	165.9	164.4	164.2	164.7	5.0%
Percent Alternative Car Sales	4.57	6.62	7.95	8.74	14.29	14.71	14.79	14.72	14.50	14.22	14.21	14.09	14.13	13.99	14.10	14.25	14.20	14.56	14.48	14.37	14.25	14.12	5.3%
Total New Car Sales	1221.1	1139.9	1112.6	1092.7	1101.8	1119.6	1130.9	1118.0	1106.5	1102.5	1101.8	1111.6	1103.3	1102.4	1120.6	1150.5	1168.8	1155.5	1146.2	1144.3	1152.4	1166.0	-0.2%
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	967.4	939.5	932.5	932.6	954.3	979.1	996.5	1011.4	1011.3	1015.0	1020.7	1034.9	1031.2	1032.7	1054.5	1087.5	1108.5	1100.2	1095.1	1096.2	1107.4	1123.1	0.7%
TDI Diesel ICE	0.5	1.4	2.3	3.7	6.3	11.1	19.1	5.5	8.1	12.1	15.9	19.8	23.3	25.6	27.5	29.0	30.6	30.6	30.6	31.2	31.3	32.2	20.6%
Total Conventional	967.9	940.9	934.8	936.3	960.7	990.2	1015.6	1016.9	1019.4	1027.1	1036.6	1054.7	1054.5	1058.3	1082.0	1116.5	1139.2	1130.8	1125.7	1127.4	1138.7	1155.3	0.8%
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	7.2	9.5	12.5	15.2	18.6	20.1	20.3	20.6	19.7	18.8	17.8	17.3	16.3	17.5	16.9	16.6	16.2	15.1	14.2	13.4	12.6	12.0	2.3%
Methanol Ice	0.9	2.3	3.3	3.3	3.4	3.6	3.7	3.9	4.0	4.2	4.5	4.7	4.9	5.1	5.3	5.4	5.5	5.4	5.2	5.2	5.1	5.0	8.2%
Ethanol-Flex Fuel ICE	4.3	6.3	8.3	9.9	10.2	11.2	11.6	11.4	10.6	9.8	9.1	8.5	7.7	7.2	6.7	6.4	6.1	5.5	5.0	4.5	4.1	3.7	-0.7%
Ethanol ICE	0.1	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	9.4%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	4.7%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.5%
CNG ICE	3.3	7.9	10.6	10.6	10.9	11.3	11.6	11.6	11.6	11.7	11.8	11.9	11.9	12.0	12.2	12.6	12.8	12.7	12.6	12.6	12.7	12.9	6.5%
CNG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.1%
LPG ICE	1.8	3.1	3.9	3.9	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.7	4.7	4.6%
LPG Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.5%
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	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	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	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	17.7	29.6	39.2	43.7	47.9	51.1	52.3	52.6	51.1	49.8	48.4	47.8	46.3	47.2	46.8	46.9	46.5	44.6	42.9	41.4	40.3	39.4	3.7%

**Table 44. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
09 - Pacific**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Percent Alternative LT. Sales	1.80	3.05	4.02	4.46	4.75	4.91	4.90	4.92	4.77	4.62	4.46	4.34	4.20	4.27	4.15	4.03	3.92	3.79	3.67	3.55	3.42	3.29	2.8%
Total New Truck Sales	985.6	970.5	974.0	980.0	1008.6	1041.3	1067.9	1069.5	1070.5	1076.9	1085.1	1102.5	1100.8	1105.5	1128.8	1163.4	1185.7	1175.4	1168.6	1168.9	1179.0	1194.7	0.9%
Percent Total Alternative Sales	3.33	4.98	6.12	6.71	7.73	9.99	9.98	9.93	9.72	9.48	9.38	9.24	9.17	9.12	9.11	9.03	9.13	9.02	8.90	8.77	8.64	8.64	4.4%
EPACT Leg. Alternative Sales	12.81	28.65	36.54	36.31	36.97	37.81	38.47	38.27	38.10	38.14	38.28	38.76	38.59	38.66	39.39	40.52	41.23	40.82	40.54	40.51	40.83	41.34	5.5%
Z EVP Leg. Alternative Sales	0.00	0.00	0.00	0.00	144.92	148.39	151.10	150.38	149.69	149.85	150.35	152.20	151.45	151.62	154.38	158.70	161.37	159.66	158.48	158.30	159.49	161.44	N/A
Total Vehicles Sales	2206.7	2110.4	2086.6	2072.7	2110.4	2160.9	2198.9	2187.5	2177.0	2179.5	2186.9	2214.2	2204.1	2207.9	2249.4	2313.9	2354.5	2330.9	2314.7	2313.1	2331.4	2360.7	0.3%

1/ Includes personal and fleet light-duty cars.  
 2/ Includes personal and fleet light-duty trucks.  
 I DI = I turbo Direct Injection.  
 CNG = Compressed natural gas.  
 LPG = Liquid petroleum gas.  
 ICE = Internal combustion engine.  
 EPACT = Energy Policy Act of 1992.  
 Z EVP = Zero emission vehicles from the low emission vehicle program.  
 N/A = Not applicable.  
 L I. = Light Truck.  
 Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 45. Light-Duty Vehicle Sales by Technology Type (Thousands) (1 of 2)  
United States Total**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	7401.6	6774.7	6545.6	6388.2	6328.8	6436.0	6487.0	6433.9	6365.2	6328.6	6291.9	6332.1	6269.7	6250.8	6340.3	6497.7	6597.4	6493.4	6443.9	6437.6	6488.6	6572.3	-0.5%
TDI Diesel ICE	2.9	6.9	10.7	16.7	25.4	42.3	67.8	54.7	80.0	112.4	146.2	180.3	205.7	228.9	248.5	266.4	279.5	278.9	280.7	283.7	288.8	294.7	23.4%
Total Conventional	7404.5	6781.5	6556.3	6404.9	6354.2	6478.3	6554.8	6488.6	6445.2	6441.0	6438.1	6512.4	6475.4	6479.7	6588.8	6764.1	6876.9	6772.2	6724.6	6721.3	6777.4	6867.1	-0.3%
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	159.0	211.8	245.3	272.1	289.9	277.5	274.9	267.3	248.0	232.7	215.9	202.2	187.2	178.4	173.9	172.2	169.6	191.4	186.5	183.4	182.1	181.6	0.6%
Methanol ICE	5.0	11.6	15.5	15.9	17.0	18.3	20.4	23.2	26.7	32.5	40.9	51.8	62.6	63.8	71.2	78.6	83.3	84.1	83.2	82.3	81.7	81.2	13.5%
Ethanol-Flex Fuel ICE	102.8	138.2	153.5	170.5	176.4	184.1	184.8	178.4	167.4	155.9	159.9	147.5	133.8	125.1	120.0	117.1	113.6	111.0	106.6	103.1	100.4	98.0	-0.2%
Ethanol Ice	0.6	1.5	2.1	2.4	2.8	3.4	4.5	5.8	7.6	10.0	12.7	15.7	18.4	21.5	24.1	26.7	28.2	27.4	26.0	24.5	23.0	21.6	17.4%
Electric Vehicle	1.1	2.0	2.2	2.2	101.3	103.7	105.5	105.0	104.5	104.6	104.9	106.2	105.8	105.9	107.9	111.1	113.0	111.8	111.0	110.9	111.7	113.1	23.5%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.1%
CNG ICE	32.2	65.7	79.5	79.2	81.3	84.2	87.1	88.0	88.8	89.7	90.8	92.5	92.2	92.7	95.1	99.1	99.5	98.2	96.9	96.4	96.7	97.5	5.2%
CNG Bi-fuel	12.0	14.6	16.8	18.2	19.0	19.1	18.5	17.1	15.4	14.1	13.5	12.5	11.3	10.7	10.4	10.6	9.6	9.0	8.4	7.9	7.4	7.0	-2.4%
LPG ICE	17.0	28.3	32.8	33.0	34.3	36.1	38.1	39.3	40.3	41.1	41.6	42.2	42.0	42.0	42.6	43.6	43.9	43.0	42.1	41.4	41.0	40.9	4.1%
LPG Bi-fuel	7.9	9.4	10.7	11.4	11.4	11.5	11.1	10.2	9.1	8.0	7.1	6.3	5.5	5.0	4.6	4.4	4.1	3.8	3.5	3.2	2.9	2.6	-4.9%
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	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	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	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	337.6	483.1	558.6	605.0	733.3	737.9	745.0	734.3	707.9	688.5	687.4	676.9	658.8	645.0	650.0	663.3	664.6	679.8	664.2	652.9	646.9	643.4	3.0%
Percent Alternative Car Sales	4.36	6.65	7.85	8.63	10.35	10.23	10.21	10.17	9.90	9.66	9.65	9.42	9.23	9.05	8.98	8.93	8.81	9.12	8.99	8.85	8.71	8.57	3.1%
Total New Car Sales	7742.1	7264.7	7115.0	7009.9	7087.5	7216.1	7299.7	7222.8	7153.1	7129.5	7125.5	7189.3	7134.2	7124.7	7238.8	7427.4	7541.5	7452.0	7388.8	7374.3	7424.3	7510.5	-0.1%
<b>New Light-Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	6138.7	5986.2	5966.1	5987.0	6146.3	6341.2	6476.6	6567.6	6574.6	6604.7	6644.2	6739.6	6720.8	6734.0	6875.3	7087.7	7225.5	7168.4	7133.4	7141.9	7212.4	7315.3	0.8%
TDI Diesel ICE	3.2	8.9	14.4	23.1	37.8	64.8	105.8	30.6	45.4	66.7	88.7	110.3	126.6	138.1	146.7	153.5	158.0	156.4	154.3	153.2	152.5	153.9	19.3%
Total Conventional	6141.9	5995.1	5980.5	6010.1	6184.1	6405.9	6582.4	6598.2	6620.0	6671.4	6732.9	6849.9	6847.5	6872.1	7022.0	7241.3	7383.5	7324.8	7287.6	7295.2	7364.9	7469.2	0.9%
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	42.8	65.1	82.1	99.5	116.8	108.8	108.9	110.2	102.5	97.5	92.2	88.9	83.2	88.2	84.6	82.3	79.4	73.3	68.2	63.7	59.4	55.5	1.2%
Methanol Ice	5.7	14.8	20.8	21.1	21.9	22.7	23.6	24.0	24.4	25.1	25.9	27.0	27.4	27.9	28.7	29.6	30.1	29.5	29.0	28.7	28.6	28.6	7.6%
Ethanol-Flex Fuel ICE	25.6	36.9	48.4	58.6	64.3	69.6	71.0	70.0	65.3	60.9	56.4	52.8	47.9	44.5	41.6	39.4	37.2	33.6	30.3	27.4	24.7	22.1	-0.7%
Ethanol ICE	0.7	2.0	2.8	2.9	3.0	3.2	3.5	3.7	3.9	4.3	4.6	5.0	5.3	5.5	5.7	5.9	5.9	5.7	5.5	5.3	5.1	4.9	9.0%
Electric Vehicle	0.4	0.7	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	4.8%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.0%
CNG ICE	20.7	50.1	67.6	68.2	70.4	72.8	74.7	74.9	75.0	75.5	76.0	77.2	77.1	77.3	78.9	81.2	82.7	81.9	81.4	81.4	82.0	83.1	6.5%
CNG Bi-fuel	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.8%
LPG ICE	11.1	19.8	24.8	25.1	25.9	26.8	27.5	27.6	27.6	27.8	28.0	28.4	28.4	28.5	29.0	29.9	30.4	30.1	29.9	29.9	30.2	30.5	4.7%
LPG Bi-fuel	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-13.1%
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	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	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	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	107.4	190.0	247.9	276.8	303.8	305.4	310.6	311.7	300.2	292.3	284.5	280.6	270.4	273.1	269.7	269.4	266.9	255.4	245.5	237.4	231.1	225.9	3.4%

**Table 45. Light-Duty Vehicle Sales by Technology Type (Thousands) (2 of 2)  
United States Total**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Percent Alternative LT. Sales	1.72	3.07	3.98	4.40	4.68	4.55	4.51	4.51	4.34	4.20	4.05	3.94	3.80	3.82	3.70	3.59	3.49	3.37	3.26	3.15	3.04	2.94	2.5%
Total New Truck Sales	6249.3	6185.1	6228.4	6286.9	6487.9	6711.3	6893.0	6909.9	6920.2	6963.7	7017.4	7130.5	7117.8	7145.2	7291.8	7510.7	7650.4	7580.2	7533.1	7532.6	7596.1	7695.1	1.0%
Percent Total Alternative Sales	3.18	5.00	6.04	6.63	7.64	7.49	7.44	7.40	7.16	6.96	6.87	6.69	6.52	6.43	6.33	6.24	6.13	6.22	6.10	5.97	5.85	5.72	2.7%
EPACT Leg. Alternative Sales	81.25	182.58	233.67	232.94	237.79	243.69	248.31	247.28	246.27	246.64	247.55	250.68	249.51	249.85	254.44	261.60	266.05	263.26	261.34	261.07	263.05	266.28	5.5%
ZEV Leg. Alternative Sales	0.00	0.00	0.00	0.00	247.62	253.49	258.05	256.78	255.55	255.79	256.61	259.74	258.44	258.71	263.39	270.75	275.30	272.37	270.34	270.03	272.05	275.38	N/A
Total Vehicles Sales	13991.4	13449.7	13343.3	13296.8	13575.4	13927.4	14192.7	14132.7	14073.3	14093.1	14142.9	14319.8	14252.0	14269.9	14530.6	14938.1	15191.9	15032.2	14921.9	14906.9	15020.3	15205.6	0.4%

1/ Includes personal and fleet light-duty cars.  
2/ Includes personal and fleet light-duty trucks.

LDI = Turbo Direct Injection.

CNG = Compressed natural gas.

LPG = Liquid petroleum gas.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

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

N/A = Not applicable.

LI = Light Truck.

Leg. = Legislative.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 Vehicle - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); US Department of Energy, Argonne National Laboratory, National Alternative-Fuel Survey, Model Version 28, July 21, 1998; Energy Information Administration (EIA), Describing Current and Potential Markets Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.





**Table 46. Light-Duty Vehicle Stock by Technology Type (Millions) (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Fuel Cell Technology</b>																								
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	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	0.00	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	0.00	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 Alternatives	0.34	0.66	0.89	1.16	1.44	1.73	2.01	2.29	2.55	2.79	3.02	3.22	3.40	3.57	3.73	3.87	3.99	4.09	4.16	4.22	4.27	4.30	4.30	12.2%
<b>Total Truck Stock</b>																								
Total Truck Stock	66.07	73.05	76.21	79.30	82.44	85.66	88.92	92.03	94.96	97.76	100.44	103.06	105.49	107.79	110.08	112.43	114.78	116.91	118.85	120.66	122.41	124.13	124.13	2.9%
<b>Total Vehicle Stock</b>																								
Total Vehicle Stock	188.33	192.37	193.58	194.65	195.93	197.56	199.43	201.23	202.92	204.59	206.30	208.13	209.83	211.49	213.35	215.55	217.92	220.05	221.98	223.80	225.64	227.57	227.57	0.9%

1/ Includes personal and fleet vehicles.

IDI = Turbo Direct Injection.

ICE = Internal combustion engine.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, D.C., 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 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); Federal Highway Administration, Highway Statistics 1997, (Washington DC, November 1998); R.L. Polk and Company, Transportation Energy Data Book: Edition 18, "Automobiles in Operation and Vehicle Travel by Age in 1996" and "Trucking Operation and Vehicle Travel by Age in 1995", US Department of Energy, ORNL-6941, (Oak Ridge, TN., September 1998); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 47. Light-Duty Vehicle MPG by Technology Type (MPG Gasoline Equivalents) (1 of 2)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Automobiles 1/																							
Conventional Vehicles																							
Gasoline ICE Vehicles	28.10	28.77	28.80	29.00	29.77	29.75	29.84	30.05	30.29	30.52	30.73	30.94	31.20	31.25	31.25	31.22	31.17	31.16	31.16	31.15	31.12	31.09	0.5%
TDI Diesel ICE	38.32	39.10	39.14	39.31	39.84	39.76	39.87	39.84	40.05	40.27	40.52	40.70	40.95	41.09	41.05	40.95	40.84	40.78	40.74	40.68	40.61	40.53	0.3%
Alternative-Fuel Vehicles																							
Alcohol Fuel Technology																							
Methanol-Flex Fuel ICE	30.18	30.89	30.87	31.03	31.75	31.69	31.77	31.96	32.18	32.39	32.55	32.71	32.92	32.94	32.92	32.84	32.77	32.51	32.48	32.44	32.39	32.32	0.3%
Methanol ICE	29.93	30.38	30.40	30.70	31.51	31.59	31.89	32.33	32.79	33.26	33.64	33.92	34.22	34.28	34.28	34.22	34.16	34.11	34.09	34.05	33.99	33.93	0.6%
Ethanol-Flex Fuel ICE	29.81	30.47	30.58	30.74	31.47	31.41	31.49	31.67	31.89	32.10	32.09	32.26	32.49	32.53	32.52	32.47	32.41	32.35	32.33	32.30	32.25	32.19	0.4%
Ethanol Ice	29.00	29.42	29.50	29.95	30.89	31.14	31.53	31.97	32.39	32.75	33.03	33.25	33.51	33.56	33.53	33.45	33.37	33.32	33.31	33.28	33.24	33.19	0.6%
Natural Gas Technology																							
CNG ICE	29.72	30.12	30.13	30.28	30.77	30.71	30.84	31.03	31.22	31.41	31.65	31.89	32.17	32.35	32.51	32.57	32.45	32.43	32.43	32.41	32.38	32.36	0.4%
CNG Bi-fuel	27.25	27.69	27.71	27.90	28.47	28.41	28.54	28.73	28.94	29.15	29.35	29.57	29.84	30.04	30.23	30.30	29.96	29.96	29.97	29.97	29.96	29.95	0.4%
LPG ICE	29.02	29.49	29.52	29.69	30.23	30.20	30.37	30.58	30.80	31.00	31.23	31.47	31.73	31.89	32.04	32.08	32.01	31.98	31.95	31.92	31.88	31.83	0.4%
LPG Bi-fuel	27.62	28.10	28.11	28.27	28.84	28.77	28.88	29.04	29.22	29.39	29.60	29.82	30.08	30.26	30.42	30.47	30.41	30.39	30.38	30.36	30.33	30.31	0.4%
Electric Technology																							
Electric Vehicle	33.48	32.97	32.69	32.52	30.95	33.62	37.14	41.63	47.46	47.23	47.02	46.86	46.70	46.57	46.45	46.30	46.17	46.04	45.93	45.86	45.78	45.71	1.4%
Electric-Diesel Hybrid	47.66	47.56	47.42	47.58	47.28	46.64	46.38	46.35	46.61	46.95	47.25	47.56	47.86	48.13	48.34	48.49	48.58	48.67	49.01	49.24	49.36	49.29	0.2%
Fuel Cell Technology																							
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	42.82	42.56	42.30	42.10	41.90	41.69	41.50	41.30	41.12	40.89	40.67	40.48	40.24	40.04	39.82	39.63	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	45.65	45.36	45.05	44.81	44.56	44.31	44.07	43.84	43.62	43.37	43.13	42.94	42.69	42.48	42.26	42.07	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	49.89	49.53	49.16	48.89	48.62	48.35	48.12	47.91	47.73	47.52	47.33	47.18	46.97	46.80	46.63	46.47	N/A
Average New Car MPG	28.17	28.88	28.93	29.15	29.94	29.96	30.12	30.36	30.66	30.92	31.16	31.40	31.68	31.76	31.78	31.75	31.71	31.70	31.70	31.69	31.66	31.63	0.5%
Light-Duty Trucks 1/																							
Conventional Vehicles																							
Gasoline ICE Vehicles	20.62	20.65	20.65	20.77	21.01	20.94	21.02	21.18	21.35	21.31	21.39	21.56	21.72	21.88	22.01	22.12	22.23	22.35	22.48	22.61	22.77	22.74	0.4%
TDI Diesel ICE	26.67	26.55	26.56	26.71	26.96	26.84	26.93	28.52	28.77	28.75	28.85	29.02	29.19	29.34	29.48	29.58	29.68	29.75	29.85	29.94	30.05	29.98	0.5%
Alternative-Fuel Vehicles																							
Alcohol Fuel Technology																							
Methanol-Flex Fuel ICE	20.78	21.14	21.18	21.36	21.66	21.66	21.70	21.83	22.01	21.99	22.06	22.18	22.29	22.40	22.51	22.61	22.70	22.77	22.84	22.93	23.04	23.02	0.5%
Methanol ICE	19.56	19.92	20.00	20.21	20.50	20.48	20.64	20.92	21.19	21.23	21.40	21.64	21.87	22.08	22.26	22.40	22.52	22.64	22.77	22.93	23.10	23.06	0.8%
Ethanol-Flex Fuel ICE	20.73	21.12	21.17	21.34	21.65	21.60	21.64	21.77	21.95	21.91	21.96	22.06	22.16	22.26	22.36	22.45	22.55	22.63	22.72	22.82	22.93	22.92	0.5%
Ethanol Ice	18.88	19.22	19.30	19.53	19.86	19.89	20.11	20.47	20.84	20.98	21.24	21.55	21.81	22.04	22.19	22.32	22.42	22.51	22.59	22.70	22.82	22.74	0.8%
Natural Gas Technology																							
CNG ICE	19.59	19.94	20.00	20.19	20.46	20.42	20.55	20.79	21.01	20.98	21.08	21.23	21.40	21.56	21.69	21.80	21.90	22.01	22.13	22.28	22.44	22.56	0.6%
CNG Bi-fuel	20.94	21.12	21.10	21.21	21.41	21.34	21.39	21.54	21.70	21.67	21.77	21.91	22.01	22.12	22.17	22.22	22.29	22.36	22.47	22.63	22.78	22.89	0.4%
LPG ICE	19.01	19.29	19.34	19.52	19.80	19.75	19.87	20.11	20.33	20.30	20.40	20.57	20.74	20.89	21.02	21.13	21.23	21.34	21.46	21.61	21.75	21.88	0.6%
LPG Bi-fuel	22.01	22.28	22.27	22.40	22.64	22.59	22.64	22.81	23.00	22.97	23.08	23.22	23.35	23.47	23.57	23.65	23.73	23.82	23.97	24.15	24.33	24.42	0.5%
Electric Technology																							
Electric Vehicle	23.58	23.35	23.12	22.98	25.15	27.32	30.11	33.68	38.35	38.02	37.74	37.48	37.22	36.96	36.71	36.47	36.25	36.03	35.86	35.71	35.56	35.42	1.9%
Electric-Diesel Hybrid	34.44	35.06	35.18	35.57	35.78	35.53	35.53	35.78	36.27	36.19	36.31	36.45	36.57	36.72	36.84	36.93	36.97	36.98	37.22	37.37	37.44	37.36	0.4%

**Table 47. Light-Duty Vehicle MPG by Technology Type (MPG Gasoline Equivalents) (2of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
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	0.00	0.00	0.00	34.54	34.34	34.18	34.03	33.89	33.76	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	45.57	45.15	44.79	44.40	44.05	43.74	43.45	43.15	42.87	42.60	42.34	42.10	41.91	41.74	41.56	41.40	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	0.00	0.00	0.00	0.00	0.00	0.00	40.18	0.00	0.00	0.00	0.00	N/A
Average New Truck MPG	20.61	20.66	20.66	20.79	21.04	20.99	21.09	21.21	21.39	21.37	21.47	21.65	21.82	21.99	22.12	22.24	22.35	22.46	22.59	22.73	22.88	22.85	0.5%
Fleet Avr. Stock Car MPG 2/	23.54	23.85	24.00	24.16	24.42	24.56	24.73	24.87	25.02	25.19	25.35	25.47	25.64	25.79	25.91	26.04	26.16	26.23	26.31	26.38	26.47	26.52	0.5%
Fleet Avr. Stock Truck MPG 2/	16.84	16.77	16.80	16.81	16.89	16.89	16.92	16.92	16.94	16.97	16.98	17.00	17.01	17.05	17.09	17.11	17.15	17.19	17.23	17.28	17.33	17.37	0.1%
Fleet Avr. Stock Vehicle MPG 2/	20.66	20.55	20.53	20.51	20.56	20.52	20.51	20.47	20.45	20.46	20.44	20.43	20.43	20.45	20.46	20.47	20.49	20.50	20.52	20.55	20.58	20.60	0.0%

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.

IDI = Turbo Direct Injection.

CNG = Compressed natural gas.

LNG = Liquid natural gas.

MPG = Miles per Gallon.

ICE = Internal combustion engine.

N/A = Not applicable.

Avr. = Average.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 derived using: Energy and Environmental Analysis Inc., Update 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, 1998; Federal Highway Administration, Highway Statistics 1997, (November 1998); United States Department of Commerce, Bureau of the Census, Truck Inventory and Use Survey, IC92-1-52 (Washington, DC, May 1995); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 48. Technology Market Penetration in Light-Duty Vehicles (1 of 4)  
(Percentage)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Car																							
Front Wheel Drive	85.99	86.42	86.26	86.18	86.12	86.03	85.99	85.93	85.86	85.79	85.73	85.66	85.61	85.55	85.49	85.41	85.35	85.29	85.23	85.18	85.12	85.06	0.0%
Unit Body	93.44	93.34	93.22	93.15	93.74	93.62	93.57	93.51	93.46	93.41	93.35	93.30	93.26	93.21	93.16	93.10	93.04	92.99	92.94	92.89	92.84	92.78	0.0%
Material Substitution II	16.50	19.99	21.02	23.42	34.19	34.74	34.98	36.98	39.32	39.33	39.34	39.35	39.35	39.38	39.38	39.38	39.38	39.38	39.37	39.33	39.19	39.04	4.0%
Material Substitution III	2.18	4.40	5.73	8.06	14.19	14.52	14.86	16.80	18.69	20.49	21.60	22.68	23.07	23.53	23.95	23.95	23.96	23.96	23.95	23.95	23.95	23.95	11.5%
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	1.02	2.15	3.53	5.33	7.09	8.86	10.64	12.45	14.22	15.64	17.06	18.11	19.17	N/A
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	0.00	0.00	0.00	0.00	0.00	0.17	0.82	1.74	2.89	N/A
Drag Reduction II	32.68	33.24	33.16	34.00	27.18	26.58	24.95	22.44	19.31	15.68	12.71	9.97	7.67	5.80	3.96	2.78	1.82	0.87	0.20	0.08	0.00	0.00	N/A
Drag Reduction III	58.84	58.14	58.24	59.17	72.64	72.67	72.65	72.66	72.51	71.90	70.95	69.93	68.29	66.46	64.41	62.02	58.24	54.75	50.45	46.33	41.90	37.64	-2.0%
Drag Reduction IV	0.00	0.00	0.00	0.00	0.00	0.56	2.19	4.68	7.94	12.17	16.07	19.81	23.75	27.42	31.30	34.48	37.78	40.17	42.57	43.49	44.68	45.61	N/A
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	0.00	0.00	0.00	0.38	1.80	3.84	6.39	9.70	13.00	16.31	N/A
TCLU	81.26	81.01	81.14	81.21	81.24	81.34	81.36	81.40	81.43	81.46	81.49	81.53	81.56	81.58	81.61	81.64	81.67	81.70	81.72	81.75	81.78	81.81	0.0%
4-Speed Automatic	58.34	55.53	53.57	52.31	50.45	49.32	48.16	46.71	45.89	44.36	43.81	43.01	42.27	42.28	42.30	42.31	42.32	42.34	42.34	42.35	42.36	42.37	-1.4%
5-Speed Automatic	5.22	8.57	11.80	13.84	16.43	18.37	20.35	22.40	24.03	25.65	26.29	27.12	27.71	27.76	27.83	27.90	27.96	28.02	28.08	28.13	28.19	28.25	8.0%
CVT	3.82	5.20	6.57	7.70	10.07	10.59	11.18	12.18	12.94	13.65	13.83	14.11	14.31	14.26	14.19	14.13	14.07	14.02	13.97	13.93	13.88	13.83	6.0%
6-Speed Manual	8.16	8.66	10.55	10.84	10.82	10.96	11.15	11.24	11.27	11.26	11.24	11.22	11.21	11.20	11.18	11.17	11.15	11.14	11.12	11.11	11.09	11.07	1.4%
Electronic Transmission I	22.21	22.17	22.26	22.43	26.04	26.11	26.13	26.15	26.18	26.20	26.23	26.25	26.27	26.29	26.31	26.34	26.36	26.38	26.40	26.42	26.44	26.46	0.8%
Electronic Transmission II	0.49	2.53	3.60	5.99	12.30	12.86	13.23	15.34	17.86	19.94	21.60	22.93	24.37	24.71	25.43	26.00	26.05	26.07	26.08	26.09	26.11	26.13	19.8%
Roller Cam	95.74	96.80	96.78	97.03	98.70	98.69	98.68	98.67	98.66	98.65	98.64	98.63	98.62	98.61	98.59	98.58	98.57	98.56	98.55	98.54	98.52	98.51	0.1%
OHV 4	6.27	2.97	2.05	0.97	0.30	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
OHV 6	14.44	13.07	10.67	8.16	5.65	3.13	2.19	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
OHV 8	5.66	5.32	4.39	3.44	2.66	1.87	1.44	1.01	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.86	0.87	-8.2%
4C/4V	41.92	45.34	44.91	44.35	42.75	41.03	39.49	37.78	35.84	34.39	32.94	31.98	31.06	30.65	30.12	29.69	29.58	29.48	29.40	29.31	29.21	29.12	-1.6%
6C/4V	19.43	24.02	26.80	29.46	32.00	34.53	35.47	36.78	37.77	37.83	37.91	37.98	38.04	38.10	38.18	38.26	38.33	38.39	38.44	38.49	38.54	38.59	3.2%
8C/4V	6.09	8.34	9.37	10.37	11.24	12.26	12.73	13.21	13.45	13.50	13.55	13.60	13.65	13.69	13.73	13.78	13.83	13.88	13.92	13.98	14.03	14.09	3.9%
Cylinder Reduction	8.49	11.38	12.58	13.92	15.39	16.40	16.76	17.36	17.84	17.89	17.94	17.98	18.01	18.05	18.08	18.12	18.16	18.19	18.22	18.25	18.28	18.31	3.6%
4C/5V	0.22	2.55	4.12	6.03	7.94	9.82	11.71	13.60	15.48	16.87	18.26	19.15	20.04	20.36	20.80	21.12	21.10	21.08	21.07	21.05	21.04	21.02	23.1%
Turbo	4.71	4.53	4.67	4.73	4.78	4.79	4.78	4.79	4.80	4.82	4.84	4.85	4.86	4.87	4.89	4.91	4.92	4.93	4.94	4.95	4.96	4.97	0.3%
Engine Friction Reduction I	84.32	81.22	80.48	75.62	60.13	59.79	59.77	57.11	51.56	45.83	40.54	36.47	31.63	27.65	24.03	20.46	17.09	14.30	11.15	7.85	4.78	2.93	-14.2%
Engine Friction Reduction II	9.21	15.09	16.26	22.11	39.69	40.02	40.02	42.23	46.16	49.50	51.95	52.42	53.60	54.09	54.10	54.03	53.65	53.19	52.12	51.30	49.80	47.75	7.8%
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	2.04	4.41	7.24	10.82	14.47	17.95	21.54	25.16	28.89	31.78	34.70	36.92	39.13	39.98	N/A
Engine Friction 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	0.00	0.00	0.00	0.00	0.35	1.65	3.53	5.87	8.90	N/A	
WT I	1.00	9.81	16.81	25.33	33.81	42.18	50.80	59.41	67.89	74.69	78.86	80.65	82.38	74.29	65.63	56.97	48.32	39.67	31.03	24.07	17.12	11.86	11.9%
WT II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	4.71	10.08	16.75	25.40	34.05	42.69	51.32	59.95	68.58	75.52	82.46	87.70	N/A
Lean Burn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Stroke	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
TBI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MPI	99.90	99.89	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	0.0%
Air Pump	93.53	94.09	94.01	93.96	93.94	93.96	93.95	93.92	93.89	93.87	93.84	93.81	93.79	93.77	93.75	93.73	93.71	93.69	93.67	93.66	93.64	93.62	0.0%
DFS	98.34	99.39	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	0.1%
Oil SW-30	80.02	76.30	70.97	65.63	57.02	48.36	39.74	31.08	24.11	17.15	11.90	6.65	4.68	2.06	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-26.7%
Oil Synthetic	4.73	16.81	25.40	34.09	42.80	51.45	60.05	68.70	75.65	82.59	87.83	93.07	95.02	97.63	99.58	99.57	99.55	99.54	99.52	99.51	99.49	99.48	14.8%
Tires I	37.26	37.48	37.47	39.06	59.81	59.85	59.86	59.65	58.92	57.78	56.70	55.66	54.47	53.83	51.62	49.11	44.96	40.85	35.64	30.15	24.19	18.72	-3.1%
Tires II	0.00	0.00	0.00	0.47	3.35	5.98	8.29	12.61	17.22	21.77	25.78	29.60	33.74	36.72	40.01	42.57	45.28	46.20	47.48	48.45	48.47	47.20	N/A
Tires III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	2.25	4.82	8.05	12.20	16.36	20.53	24.68	28.85	N/A
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	0.00	0.00	0.00	0.00	0.00	0.00	0.47	2.24	4.79	N/A
ACC I	20.63	20.57	20.59	21.16	31.34	31.39	31.41	31.43	31.45	31.49	31.52	31.54	31.56	31.58	31.60	31.62	31.65	31.66	31.68	31.70	31.72	31.74	2.0%
ACC II	2.22	4.68	6.04	8.63	16.01	16.22	16.38	18.29	20.47	22.52	23.82	25.05	25.50	26.00	26.50	26.52	26.57	26.58	26.59	26.61	26.62	26.64	12.0%
EPS	0.00	0.00	0.00	0.05	0.46	0.79	1.06	1.51	1.98	2.45	2.86	3.25	3.68	3.93	4.20	4.34	4.49	4.53	4.59	4.63	4.61	4.60	N/A

**Table 48. Technology Market Penetration in Light-Duty Vehicles (2 of 4)  
(Percentage)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
4WD Improvements	0.00	0.00	0.00	0.16	0.83	1.54	2.33	3.73	5.21	6.68	8.02	9.33	10.70	11.82	13.04	14.11	15.22	15.62	16.17	16.59	16.62	16.65	N/A
Air Bags	99.90	99.89	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	0.0%
Emissions Tier I	99.90	99.89	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	0.0%
Emissions Tier II	0.00	0.00	0.00	0.00	0.10	0.91	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	N/A
ABS	15.88	99.89	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	8.7%
Side Impact	99.90	99.89	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	0.0%
Roof Crush	0.00	0.00	99.87	99.85	99.83	99.81	99.79	99.78	99.76	99.74	99.73	99.72	99.70	99.69	99.67	99.66	99.64	99.62	99.61	99.60	99.58	99.57	N/A
Increase Size/Weight	26.64	33.30	36.62	39.94	43.26	46.58	49.90	53.21	56.53	59.85	63.16	66.48	69.79	73.11	76.42	79.73	83.03	86.34	89.65	92.96	96.26	99.57	6.2%
GDI/4-cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.27	0.56	0.90	1.27	1.65	2.02	2.39	2.76	3.13	3.39	3.64	3.78	3.92	3.97	4.03	N/A
GDI/6-cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.25	0.44	0.70	0.97	1.24	1.50	1.77	2.04	2.29	2.53	2.75	2.96	3.05	3.16	N/A
Gasoline Hybrid	0.00	0.00	0.06	0.30	0.68	1.11	1.65	2.21	2.77	3.33	3.89	4.44	4.89	5.33	5.66	6.00	6.13	6.30	6.42	6.42	6.42	6.42	N/A
Light Truck																							
Front Wheel Drive	73.17	75.91	75.83	75.84	77.02	77.21	77.31	77.37	77.43	77.48	77.52	77.57	77.61	77.65	77.68	77.72	77.77	77.81	77.84	77.89	77.93	77.96	0.3%
Unit Body	9.33	20.87	25.47	31.47	39.16	44.68	48.60	53.63	58.13	58.48	58.89	59.46	59.90	59.98	60.07	60.18	60.34	60.45	60.56	60.72	60.87	61.00	8.9%
Material Substitution II	16.50	19.99	21.02	23.42	34.19	34.74	34.98	36.98	39.32	39.33	39.34	39.35	39.35	39.38	39.38	39.38	39.38	39.38	39.37	39.33	39.19	39.04	4.0%
Material Substitution III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.28	2.03	3.59	5.77	7.96	10.08	12.21	14.33	16.47	18.33	20.20	21.85	23.45	23.98	N/A
Material Substitution 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	0.00	0.00	0.00	0.00	0.22	0.73	1.63	2.90	4.70	N/A
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Drag Reduction II	62.47	71.66	70.29	69.37	62.48	55.07	48.49	40.63	32.39	30.56	25.91	19.33	13.03	7.52	4.30	1.98	0.36	0.00	0.00	0.00	0.00	0.00	N/A
Drag Reduction III	3.05	12.48	19.48	27.56	37.52	44.93	51.51	59.37	66.72	67.23	69.12	71.88	72.62	72.75	70.60	67.58	63.81	58.96	53.85	48.12	42.31	35.97	11.9%
Drag Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	2.21	4.97	8.79	14.35	19.73	25.09	30.44	35.84	41.04	45.76	50.45	54.53	58.54	N/A
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	0.00	0.00	0.00	0.00	0.00	0.00	0.39	1.43	3.17	5.49	N/A
TCLU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
4-Speed Automatic	66.70	66.66	64.74	62.43	58.58	56.93	55.17	52.10	48.38	48.19	46.49	43.43	42.02	40.30	38.87	38.33	37.86	37.40	36.99	36.59	36.48	36.31	-2.7%
5-Speed Automatic	1.02	4.80	8.18	11.56	17.03	19.56	22.09	25.59	29.02	29.05	30.25	32.81	33.72	34.94	35.88	35.91	35.94	35.97	35.99	36.02	36.04	36.07	17.6%
CVT	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.31	0.70	0.92	1.49	2.05	2.62	3.17	3.72	4.27	4.76	5.23	5.65	6.07	6.19	6.37	N/A
6-Speed Manual	0.83	2.55	4.34	5.53	6.78	7.96	9.31	10.64	11.62	11.59	12.13	12.78	12.98	13.28	13.51	13.48	13.45	13.43	13.41	13.39	13.36	13.34	13.5%
Electronic Transmission I	19.33	25.83	25.73	27.86	38.95	39.04	39.11	39.14	39.17	39.20	39.23	39.25	39.27	39.30	39.32	39.34	39.36	39.34	39.28	39.30	39.32	39.33	3.3%
Electronic Transmission II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.24	2.05	3.74	6.16	8.59	10.92	13.25	15.58	17.94	20.05	22.15	24.10	26.00	26.60	N/A
Roller Cam	95.21	98.38	99.13	99.93	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	0.2%
OHV 4	5.49	3.09	2.40	1.70	1.17	0.64	0.45	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
OHV 6	22.82	20.62	16.43	12.60	10.33	5.07	3.59	1.68	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	-18.4%
OHV 8	2.99	7.41	10.11	12.47	14.19	16.86	19.53	21.86	22.70	21.18	19.17	17.18	15.28	13.31	11.33	9.38	7.47	6.80	5.87	5.16	5.15	5.15	2.5%
4C/4V	10.60	10.83	11.29	11.71	12.02	12.24	12.25	12.36	12.48	12.41	12.41	12.40	12.40	12.39	12.38	12.37	12.35	12.33	12.32	12.29	12.27	12.25	0.7%
6C/4V	26.17	35.30	39.44	43.34	45.77	51.31	52.96	54.99	56.54	56.61	56.68	56.75	56.80	56.86	56.91	56.98	57.06	57.10	57.16	57.22	57.27	57.32	3.6%
8C/4V	0.00	0.00	0.00	0.28	0.49	1.26	2.64	4.76	6.80	8.32	10.30	12.28	14.17	16.12	18.09	20.03	21.91	22.58	23.50	24.21	24.20	24.19	N/A
Cylinder Reduction	11.34	16.24	18.05	20.20	22.12	24.50	26.56	29.53	31.41	32.20	33.15	33.97	34.46	34.47	34.48	34.50	34.50	34.50	34.50	34.49	34.48	34.47	5.2%
4C/5V	0.36	0.54	0.73	0.90	1.02	1.09	1.15	1.23	1.24	1.24	1.20	1.15	1.11	1.07	1.04	1.00	0.95	0.93	0.90	0.87	0.85	0.82	3.8%
Turbo	1.29	1.71	2.15	2.21	2.22	2.23	2.29	2.30	2.31	2.32	2.32	2.33	2.33	2.34	2.34	2.34	2.35	2.35	2.35	2.35	2.35	2.35	2.8%
Engine Friction Reduction I	87.75	93.76	95.18	96.13	94.94	92.28	87.70	79.90	72.00	70.02	64.09	58.14	52.00	46.09	39.35	31.97	23.48	17.24	10.85	6.87	4.59	2.52	-14.9%
Engine Friction Reduction II	0.00	0.00	0.00	0.92	3.20	7.10	12.30	20.10	28.00	29.98	35.91	41.86	48.00	53.30	58.69	63.60	68.60	69.87	71.33	70.42	67.88	65.19	N/A
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	0.62	1.96	4.43	7.92	12.88	17.82	22.71	27.53	32.29	N/A
Engine Friction 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
WT I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.26	7.36	13.14	21.45	29.76	38.08	46.39	54.70	63.01	70.54	76.52	81.69	86.85	78.54	N/A
WT II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.26	7.36	13.15	21.46	N/A
Lean Burn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Stroke	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
TBI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MPI	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.0%
Air Pump	50.91	52.04	52.02	52.06	52.14	52.24	52.33	52.39	52.45	52.50	52.54	52.57	52.60	52.62	52.65	52.67	52.70	52.72	52.74	52.76	52.78	52.80	0.2%
DFS	90.41	97.51	99.44	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.5%
Oil SW-30	94.98	86.85	78.54	70.22	61.91	53.59	45.28	36.96	29.44	21.91	15.17	8.43	5.90	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-38.1%
Oil Synthetic	3.26	13.15	21.46	29.78	38.09	46.41	54.72	63.04	70.56	78.09	84.83	91.57	94.10										

**Table 48. Technology Market Penetration in Light-Duty Vehicles (3 of 4)  
(Percentage)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
EPS	0.00	0.00	0.00	0.01	0.12	0.20	0.25	0.32	0.39	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.28	0.28	0.27	0.26	0.25	0.24	N/A
4WD Improvements	0.00	0.00	0.00	0.19	1.00	1.96	2.97	4.71	6.55	6.57	7.19	8.26	9.41	10.35	11.34	12.22	13.13	13.43	13.86	14.19	14.25	14.31	N/A
Air Bags	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.0%
Emissions Tier I	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.0%
Emissions Tier II	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
ABS	70.12	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1.6%
Side Impact	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.0%
Roof Crush	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increase Size/Weight	26.67	33.33	36.67	40.00	43.33	46.67	50.00	53.33	56.67	60.00	63.33	66.67	70.00	73.33	76.67	80.00	83.33	86.67	90.00	93.33	96.67	100.00	6.2%
GDI/4-cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.25	0.29	0.40	0.52	0.64	0.76	0.87	0.98	1.06	1.14	1.18	1.23	1.24	1.26	N/A
GDI/6-cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.22	0.50	0.71	1.16	1.60	2.04	2.48	2.92	3.36	3.76	4.15	4.51	4.86	4.99	5.15	N/A
Gasoline Hybrid	0.00	0.00	0.07	0.23	0.54	0.94	1.50	2.07	2.66	3.04	3.58	4.12	4.61	5.10	5.54	5.97	6.14	6.35	6.51	6.51	6.51	6.51	N/A
Light-Duty Vehicle Total																							
Front Wheel Drive	49.98	49.67	48.97	48.45	48.53	48.12	47.83	47.56	47.33	47.12	46.94	46.78	46.65	46.53	46.41	46.31	46.21	46.13	46.06	45.98	45.91	45.85	-0.4%
Unit Body	56.42	60.48	62.03	64.39	68.02	70.35	72.02	74.28	76.33	76.39	76.50	76.70	76.84	76.83	76.81	76.80	76.83	76.84	76.85	76.89	76.93	76.96	1.4%
Material Substitution II	16.50	19.99	21.02	23.42	34.19	34.74	34.98	36.98	39.32	39.33	39.34	39.35	39.35	39.38	39.38	39.38	39.38	39.38	39.37	39.33	39.19	39.04	4.0%
Material Substitution III	1.22	2.41	3.09	4.30	7.50	7.62	7.74	8.88	10.25	11.50	12.79	14.39	15.64	16.90	18.15	19.19	20.25	21.17	22.09	22.90	23.70	23.96	14.5%
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.52	1.10	1.80	2.71	3.59	4.48	5.37	6.28	7.27	8.23	9.39	10.54	11.96	N/A
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	0.00	0.00	0.00	0.00	0.00	0.09	0.41	0.88	1.45	N/A
Drag Reduction II	45.79	50.66	50.25	50.49	43.82	40.12	36.23	31.21	25.65	22.93	19.17	14.56	10.31	6.65	4.13	2.39	1.09	0.44	0.10	0.04	0.00	0.00	N/A
Drag Reduction III	34.28	37.43	40.39	44.43	56.09	59.48	62.52	66.25	69.70	69.62	70.05	70.88	70.42	69.56	67.47	64.77	61.00	56.84	52.14	47.22	42.10	36.81	0.3%
Drag Reduction IV	0.00	0.00	0.00	0.00	0.00	0.30	1.14	2.42	4.52	7.32	10.64	14.41	19.12	23.63	28.24	32.48	36.82	40.60	44.16	46.95	49.58	52.05	N/A
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	0.00	0.00	0.00	0.19	0.91	1.94	3.41	5.59	8.11	10.93	N/A
TCLU	77.70	78.70	78.70	78.70	79.25	79.37	79.42	79.45	79.49	79.52	79.55	79.59	79.61	79.64	79.67	79.70	79.74	79.77	79.80	79.83	79.86	79.89	0.1%
4-Speed Automatic	62.02	60.58	58.71	57.03	54.28	52.94	51.52	49.31	47.10	46.23	45.12	43.21	42.15	41.31	40.60	40.34	40.11	39.89	39.68	39.49	39.43	39.35	-2.0%
5-Speed Automatic	3.37	6.86	10.13	12.78	16.71	18.94	21.18	23.94	26.45	27.31	28.23	29.91	30.66	31.30	31.81	31.86	31.92	31.97	32.01	32.05	32.10	32.15	10.8%
CVT	2.14	2.84	3.54	4.11	5.32	5.55	5.87	6.46	7.01	7.45	7.80	8.20	8.56	8.79	9.02	9.25	9.45	9.66	9.84	10.02	10.05	10.12	7.3%
6-Speed Manual	4.93	5.89	7.69	8.37	8.92	9.54	10.27	10.95	11.41	11.42	11.68	11.99	12.08	12.22	12.33	12.31	12.29	12.28	12.26	12.24	12.22	12.20	4.2%
Electronic Transmission I	20.94	23.83	23.85	24.96	32.13	32.26	32.35	32.41	32.48	32.53	32.58	32.63	32.67	32.70	32.74	32.77	32.81	32.81	32.80	32.82	32.85	32.87	2.1%
Electronic Transmission II	0.27	1.38	1.94	3.20	6.50	6.74	6.89	8.14	9.80	11.23	12.87	14.70	16.61	17.91	19.41	20.84	22.03	23.08	24.13	25.10	26.05	26.36	23.1%
Roller Cam	95.51	97.52	97.86	98.38	99.31	99.31	99.31	99.31	99.30	99.30	99.30	99.30	99.29	99.29	99.29	99.28	99.27	99.27	99.27	99.26	99.26	99.25	0.2%
OHV 4	5.93	3.02	2.21	1.31	0.71	0.37	0.21	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
OHV 6	18.13	16.50	13.32	10.23	7.86	4.05	2.86	1.30	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	-20.1%
OHV 8	4.48	6.26	7.02	7.65	8.09	9.00	10.11	11.07	11.44	10.75	9.81	8.86	7.95	6.99	6.03	5.07	4.13	3.81	3.35	3.00	3.00	3.00	-1.8%
4C/4V	28.13	29.69	29.43	29.13	28.27	27.34	26.44	25.52	24.51	23.68	22.90	22.38	21.88	21.65	21.36	21.12	21.04	20.97	20.91	20.85	20.78	20.72	-1.4%
6C/4V	22.40	29.13	32.62	35.93	38.49	42.51	43.85	45.56	46.87	46.98	47.09	47.19	47.27	47.35	47.44	47.53	47.61	47.68	47.74	47.80	47.86	47.92	3.5%
8C/4V	3.41	4.56	5.05	5.66	6.17	7.03	7.90	9.14	10.23	10.98	11.96	12.95	13.90	14.89	15.88	16.87	17.84	18.20	18.68	19.06	19.09	19.12	8.2%
Cylinder Reduction	9.75	13.59	15.10	16.85	18.56	20.25	21.46	23.23	24.42	24.86	25.37	25.82	26.10	26.15	26.19	26.23	26.26	26.28	26.31	26.32	26.34	26.36	4.6%
4C/5V	0.28	1.64	2.56	3.64	4.68	5.67	6.65	7.63	8.58	9.26	9.92	10.32	10.73	10.85	11.03	11.16	11.11	11.08	11.05	11.02	10.99	10.96	18.2%
Turbo	3.20	3.25	3.51	3.55	3.57	3.57	3.59	3.59	3.60	3.60	3.61	3.61	3.62	3.62	3.63	3.64	3.65	3.65	3.65	3.66	3.66	3.67	0.6%
Engine Friction Reduction I	85.83	86.91	87.25	85.18	76.54	75.24	73.15	68.10	61.47	57.61	52.06	47.10	41.65	36.74	31.60	26.16	20.26	15.76	11.00	7.36	4.69	2.73	-14.5%
Engine Friction Reduction II	5.16	8.25	8.78	12.23	22.50	24.36	26.74	31.56	37.36	39.99	44.11	47.24	50.84	53.70	56.37	58.77	61.06	61.47	61.66	60.81	58.80	56.43	11.5%
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.05	2.26	3.70	5.51	7.35	9.40	11.87	14.90	18.50	22.40	26.31	29.86	33.36	36.15	N/A
Engine Friction 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	0.00	0.00	0.00	0.00	0.00	0.18	0.83	1.77	2.95	4.47	N/A
WT I	0.56	5.36	9.07	13.52	17.88	22.13	26.46	31.24	36.55	41.89	46.73	51.61	56.49	56.43	56.12	55.85	55.60	54.99	53.63	52.72	51.83	45.07	22.1%
WT II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	2.41	5.13	8.51	12.88	17.22	21.56	25.88	30.69	36.13	41.63	47.96	54.71	N/A
Lean Burn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Stroke	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
TBI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MPI	99.95	99.94	99.93	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	0.0%
Air Pump	74.77	75.02	74.68	74.43	74.24	74.12	74.01	73.90	73.80	73.72	73.64	73.58	73.52	73.48	73.44	73.41	73.38	73.36	73.34	73.32	73.30	73.29	-0.1%
DFS	94.85	98.54	99.67	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	

**Table 48. Technology Market Penetration in Light-Duty Vehicles (4 of 4)  
(Percentage)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
ACC I	12.24	14.50	15.85	18.39	29.03	30.11	30.69	32.94	35.29	35.34	35.38	35.58	35.77	36.01	36.19	36.22	36.25	36.27	36.29	36.32	36.34	36.36	5.1%	
ACC II	1.24	2.56	3.26	4.61	8.47	8.51	8.53	9.47	10.82	12.14	13.51	15.16	16.92	18.66	20.41	21.92	23.46	24.93	26.29	27.64	28.83	30.01	15.6%	
EPS	0.00	0.00	0.00	0.03	0.30	0.51	0.68	0.94	1.21	1.43	1.63	1.82	2.03	2.15	2.28	2.34	2.41	2.42	2.44	2.46	2.44	2.43	2.43	N/A
4WD Improvements	0.00	0.00	0.00	0.17	0.91	1.74	2.63	4.20	5.86	6.63	7.61	8.80	10.07	11.10	12.20	13.17	14.18	14.54	15.02	15.39	15.44	15.48	15.48	N/A
Air Bags	99.95	99.94	99.93	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	99.78	0.0%
Emissions Tier I	99.95	99.94	99.93	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	99.78	0.0%
Emissions Tier II	0.00	0.00	0.00	0.00	0.05	0.90	0.99	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.88	N/A
ABS	39.75	99.94	99.93	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	99.78	4.3%
Side Impact	99.95	99.94	99.93	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	99.78	0.0%
Roof Crush	0.00	0.00	99.93	99.92	99.91	99.90	99.89	99.88	99.88	99.87	99.86	99.86	99.85	99.84	99.84	99.83	99.82	99.81	99.80	99.80	99.79	99.78	99.78	N/A
Increase Size/Weight	26.65	33.31	36.64	39.97	43.29	46.62	49.95	53.27	56.60	59.92	63.25	66.57	69.89	73.22	76.54	79.86	83.18	86.50	89.82	93.14	96.46	99.78	99.78	6.2%
GDI/4-cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.20	0.41	0.60	0.85	1.09	1.34	1.58	1.83	2.07	2.24	2.40	2.49	2.58	2.61	2.65	2.65	N/A
GDI/6-cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.37	0.57	0.93	1.28	1.63	1.98	2.34	2.69	3.02	3.34	3.62	3.91	4.01	4.15	4.15	N/A
Gasoline Hybrid	0.00	0.00	0.07	0.27	0.61	1.03	1.57	2.14	2.72	3.19	3.74	4.28	4.75	5.22	5.60	5.99	6.13	6.32	6.47	6.47	6.47	6.47	6.47	N/A

N/A = Not applicable.

CV I = Continuous Variable Transmission.

OHV = Overhead Camshaft.

4C/4V = 4 Cylinders/4 Valves.

6C/4V = 6 Cylinders/4 Valves.

8C/4V = 8 Cylinders/4 Valves.

4C/5V = 4 Cylinders/5 Valves.

IBI = Inertial Body Fuel Injection.

MPI = Multi Point Fuel Injection.

ACC = Accessory Improvements.

ABS = Anti-Lock Brakes System.

GDI = Gasoline Direct Injection.

ICLU = Torque Converter Lock-up.

WI = Weight Reduction.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 49. Light-Duty Vehicle VMT by Technology Type (1 of 1)  
(Billion Miles, Unless Otherwise Noted)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Conventional Vehicles 1/																							
Gasoline ICE Vehicles	2351.6	2447.7	2499.6	2543.6	2583.1	2625.0	2663.8	2703.5	2743.8	2782.1	2819.2	2856.2	2887.1	2918.5	2953.4	2992.5	3032.2	3064.6	3097.2	3132.5	3169.9	3208.5	1.4%
TDI Diesel ICE	38.6	31.7	29.3	27.2	25.7	25.0	25.2	24.6	24.7	25.6	27.4	30.1	33.5	37.4	41.7	46.3	51.1	55.8	60.3	64.8	69.3	73.6	3.0%
Alternative-Fuel Vehicles																							
Alcohol Fuel Technology																							
Methanol-Flex Fuel ICE	3.4	10.5	15.5	21.0	27.0	32.7	38.1	43.1	47.6	51.7	55.3	58.3	60.7	62.7	64.3	65.5	66.3	66.9	67.3	67.4	67.4	67.1	14.5%
Methanol ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.2	1.7	2.4	3.2	4.0	4.9	5.9	6.8	7.8	8.6	9.5	10.2	41.2%
Ethanol-Flex Fuel ICE	1.9	6.2	8.9	12.0	15.2	18.8	22.3	25.9	29.2	32.2	35.1	37.6	39.6	41.1	42.4	43.3	43.9	44.1	44.1	43.9	43.6	43.1	15.1%
Ethanol Ice	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.0	2.4	2.8	3.1	3.4	3.7	3.9	40.3%
Natural Gas Technology																							
CNG ICE	3.1	7.9	11.5	14.9	18.2	21.2	23.9	26.2	28.2	30.1	32.0	33.8	35.5	37.1	38.7	40.3	41.8	43.0	44.2	45.2	46.2	47.1	13.2%
CNG Bi-fuel	0.2	0.5	0.7	0.9	1.2	1.4	1.7	1.9	2.1	2.3	2.4	2.5	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.5	2.4	2.3	12.6%
LPG ICE	3.7	5.4	6.6	7.7	8.8	9.8	10.7	11.5	12.2	12.9	13.5	14.2	14.8	15.4	15.9	16.5	17.0	17.5	17.9	18.2	18.6	18.8	7.6%
LPG Bi-fuel	0.1	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.2	10.8%
Electric Technology																							
Electric Vehicle	0.1	0.2	0.3	0.4	1.7	3.0	4.4	5.8	7.2	8.6	10.0	11.4	12.8	14.1	15.3	16.6	17.7	18.7	19.5	20.3	21.1	21.7	28.2%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
VMT Equation Components																							
Total VMT (billion miles)	2402.8	2510.6	2572.8	2628.5	2681.9	2738.1	2791.5	2844.1	2897.0	2948.1	2998.2	3048.3	3091.5	3135.0	3181.6	3232.1	3282.4	3324.2	3365.2	3408.3	3452.7	3497.6	1.7%
VMT/Driving Pop. (thou. miles)	11.3	11.5	11.6	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	0.8%
Driving Population (million)	208.6	212.8	214.9	217.0	219.2	221.4	223.7	226.0	228.4	230.7	233.0	235.2	237.4	239.5	241.5	243.6	245.6	247.6	249.5	251.5	253.4	255.3	0.9%
Price Effects																							
Motor Gas Price (1987 \$/mill. Btu)	6.30	7.75	7.55	7.49	7.52	7.56	7.62	7.62	7.63	7.64	7.64	7.63	7.63	7.64	7.63	7.63	7.63	7.62	7.62	7.61	7.60	7.60	0.9%
Fleet Miles per Gallon	20.81	20.68	20.64	20.61	20.65	20.59	20.57	20.53	20.50	20.51	20.49	20.48	20.47	20.48	20.49	20.50	20.52	20.53	20.55	20.58	20.61	20.63	0.0%
R. Cost of Driving/Mile(1987cent)	3.786	4.685	4.575	4.546	4.553	4.591	4.630	4.643	4.656	4.660	4.661	4.663	4.666	4.665	4.659	4.655	4.650	4.643	4.636	4.627	4.613	4.604	0.9%
Point Price Elasticity	-0.035	-0.042	-0.041	-0.040	-0.040	-0.040	-0.040	-0.040	-0.039	-0.039	-0.039	-0.039	-0.038	-0.038	-0.038	-0.037	-0.037	-0.037	-0.037	-0.036	-0.036	-0.035	0.1%
Income Effects																							
Disposable Income (bill.1987 \$)	4444.6	4707.7	4820.4	4932.6	5049.2	5190.5	5323.0	5453.2	5585.9	5716.7	5848.8	5986.5	6110.1	6239.8	6385.6	6549.2	6716.6	6860.8	7003.3	7157.3	7318.3	7485.5	2.4%
Point Income Elasticity	0.439	0.448	0.450	0.452	0.455	0.459	0.463	0.466	0.470	0.473	0.477	0.481	0.484	0.487	0.491	0.495	0.499	0.502	0.505	0.509	0.512	0.516	0.7%
Demographic Driving Population Effect																							
Percentage Female Driving Pop.	0.711	0.744	0.757	0.766	0.774	0.780	0.785	0.789	0.791	0.794	0.795	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.5%
Point Demographic Elasticity	0.248	0.255	0.256	0.257	0.257	0.256	0.256	0.255	0.253	0.252	0.251	0.249	0.248	0.246	0.245	0.242	0.240	0.239	0.237	0.236	0.234	0.232	-0.3%

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

TDI = Turbo Direct Injection. Pop. = Population  
 CNG = Compressed natural gas. Thou. = Thousands.  
 LNG = Liquid natural gas. Mill. = Million.  
 VMT = Vehicle miles traveled. \$ = Dollar.  
 ICE = Internal combustion engine. Bill. = Billion.  
 Btu = British thermal unit. R. Cost = Real Cost.  
 N/A = Not applicable.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 derived using: Federal Highway Administration, Highway Statistics 1996, (November 1997); Oak Ridge National Laboratory, Transportation Energy Data Book: 18, (September 1998); United States Department of Commerce, Bureau of the Census, Truck Inventory and Use Survey, TC92-T-52 (Washington, DC, May 1995); and Energy Information Administration (EIA), AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 50. Summary of New Light-Duty Vehicle Size Class Attributes (1 of 2)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Personal Vehicles																							
New Fuel Efficiency EPA Rated																							
Conventional Cars (MPG)																							
Minicompact	26.100	26.561	26.708	26.997	27.745	27.749	28.024	28.364	28.695	28.961	29.255	29.371	29.470	29.550	29.611	29.639	29.687	29.717	29.738	29.769	29.807	29.806	0.6%
Subcompact	31.811	32.383	32.484	32.624	33.261	33.255	33.302	33.461	33.622	33.792	33.995	34.073	34.210	34.241	34.188	34.079	33.985	33.930	33.883	33.831	33.756	33.658	0.3%
Compact	30.657	31.352	31.410	31.605	32.497	32.464	32.526	32.719	32.948	33.190	33.360	33.543	33.777	33.811	33.776	33.695	33.622	33.592	33.565	33.515	33.454	33.389	0.4%
Mid-size	27.127	27.670	27.715	27.925	28.537	28.521	28.633	28.855	29.105	29.332	29.533	29.743	29.998	30.032	30.048	30.025	29.995	29.988	29.993	29.992	29.983	29.969	0.5%
Large	24.637	24.972	25.012	25.304	26.033	26.031	26.167	26.402	26.655	26.927	27.190	27.506	27.880	27.976	28.063	28.105	28.111	28.144	28.196	28.234	28.259	28.290	0.6%
Two Seater	24.826	25.247	25.352	25.557	26.179	26.175	26.324	26.560	26.800	27.009	27.219	27.303	27.406	27.451	27.469	27.447	27.437	27.434	27.431	27.429	27.420	27.387	0.4%
Average New Car	28.630	29.365	29.383	29.578	30.410	30.386	30.478	30.683	30.915	31.148	31.356	31.557	31.808	31.853	31.849	31.800	31.745	31.735	31.725	31.701	31.666	31.625	0.5%
Avr. New Car On-Road MPG	24.654	25.093	25.081	25.246	26.026	25.974	26.053	26.195	26.361	26.559	26.702	26.806	26.985	26.992	26.921	26.848	26.767	26.691	26.646	26.592	26.565	26.500	0.3%
Conventional Light Trucks																							
Small Pickup	23.768	24.161	24.107	24.162	24.323	24.225	24.142	24.169	24.230	24.121	24.133	24.223	24.337	24.447	24.544	24.611	24.680	24.757	24.843	24.946	25.061	24.994	0.2%
Large Pickup	18.516	18.490	18.454	18.482	18.597	18.505	18.575	18.740	18.861	18.843	18.951	19.131	19.307	19.484	19.620	19.753	19.882	20.025	20.176	20.337	20.506	20.473	0.5%
Small Van	24.500	25.034	25.061	25.174	25.478	25.450	25.489	25.632	25.759	25.609	25.606	25.712	25.846	25.985	26.095	26.177	26.263	26.393	26.526	26.699	26.886	26.840	0.4%
Large Van	18.400	18.804	18.929	19.188	19.512	19.492	19.660	19.942	20.203	20.218	20.370	20.603	20.824	21.030	21.195	21.353	21.502	21.666	21.841	22.044	22.258	22.259	0.9%
Small Utility	21.070	21.605	21.608	21.760	22.056	22.006	22.032	22.183	22.381	22.342	22.413	22.559	22.707	22.851	22.990	23.103	23.196	23.280	23.377	23.473	23.588	23.567	0.5%
Large Utility	17.159	14.586	14.636	14.791	14.989	14.998	15.127	15.337	15.528	15.555	15.688	15.886	16.065	16.198	16.306	16.409	16.511	16.620	16.740	16.854	16.996	16.980	0.0%
Average New Light Truck	20.904	20.791	20.765	20.866	21.087	21.014	21.076	21.212	21.371	21.323	21.401	21.556	21.715	21.862	21.988	22.096	22.197	22.307	22.426	22.553	22.695	22.659	0.4%
Avr. New LT On-Road MPG	17.023	16.779	16.761	16.841	17.065	16.985	17.034	17.122	17.227	17.189	17.228	17.330	17.412	17.508	17.585	17.627	17.683	17.746	17.816	17.891	17.983	17.932	0.2%
Degradation Factors 1/																							
Cars	0.861	0.855	0.854	0.854	0.856	0.855	0.855	0.854	0.853	0.853	0.852	0.849	0.848	0.847	0.845	0.844	0.843	0.841	0.840	0.839	0.839	0.838	-0.1%
Light Trucks	0.814	0.807	0.807	0.807	0.809	0.808	0.808	0.807	0.806	0.806	0.805	0.804	0.802	0.801	0.800	0.798	0.797	0.796	0.794	0.793	0.792	0.791	-0.1%
New Fuel Efficiency by Size Class 2/																							
Alternative-Fuel Cars																							
Minicompact	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	36.088	36.677	36.744	36.874	37.540	37.479	37.510	37.672	37.853	38.076	38.341	38.506	38.745	38.850	38.821	38.718	38.614	38.547	38.495	38.428	38.334	38.214	0.3%
Compact	29.942	30.562	30.576	30.725	31.551	31.482	31.533	31.718	31.940	32.183	32.376	32.576	32.832	32.827	32.818	32.753	32.689	32.649	32.612	32.551	32.474	32.384	0.4%
Midsized	28.293	28.873	28.919	29.118	29.738	29.697	29.822	30.064	30.339	30.587	30.787	31.001	31.259	31.344	31.398	31.403	31.396	31.357	31.350	31.337	31.316	31.287	0.5%
Large	26.555	26.893	26.928	27.224	27.976	27.989	28.152	28.418	28.712	29.024	29.337	29.710	30.138	30.361	30.571	30.708	30.747	30.785	30.843	30.883	30.916	30.953	0.7%
2-Seater	28.977	29.478	29.737	30.195	30.872	33.434	36.774	40.999	46.400	46.201	46.036	45.906	45.777	45.659	45.531	45.368	45.658	45.542	45.436	45.378	45.311	45.251	2.0%
Average New Alternative Cars	24.976	25.414	25.484	25.689	26.279	26.680	27.299	28.145	29.207	29.345	29.479	29.616	29.792	29.840	29.857	29.825	29.851	29.813	29.789	29.763	29.725	29.682	0.8%
Alternative-Fuel Light Trucks																							
Small Pickup	24.489	24.998	24.944	25.019	25.252	25.153	25.084	25.145	25.279	25.235	25.308	25.436	25.596	25.748	25.893	26.003	26.093	26.162	26.236	26.296	26.367	26.299	0.3%
Large Pickup	18.107	18.243	18.208	18.237	18.354	18.257	18.333	18.508	18.644	18.646	18.779	18.986	19.190	19.400	19.561	19.714	19.857	20.005	20.151	20.321	20.493	20.461	0.6%
Small Van	22.159	22.648	22.621	22.720	23.025	22.956	22.952	23.084	23.279	23.275	23.392	23.554	23.740	23.914	24.079	24.211	24.321	24.414	24.495	24.561	24.634	24.590	0.5%
Large Van	17.693	18.086	18.204	18.455	18.770	18.749	18.920	19.205	19.475	19.513	19.681	19.936	20.183	20.414	20.609	20.786	20.947	21.112	21.287	21.490	21.710	21.712	0.9%
Small Utility	20.597	21.098	21.087	21.229	21.528	21.455	21.467	21.601	21.789	21.783	21.869	22.015	22.168	22.314	22.455	22.570	22.670	22.746	22.825	22.902	22.994	22.976	0.5%
Large Utility	16.008	16.345	16.396	16.568	16.791	16.791	16.936	17.171	17.385	17.409	17.558	17.778	17.979	18.130	18.250	18.365	18.478	18.598	18.734	18.861	19.018	18.999	0.8%
Average New Alt. Light Trucks	19.842	20.236	20.243	20.371	20.620	20.560	20.615	20.786	20.975	20.977	21.098	21.284	21.476	21.653	21.808	21.941	22.061	22.173	22.288	22.405	22.536	22.506	0.6%
Fleet Vehicles																							
New Fuel Efficiency EPA Rated																							
Cars	26.714	27.276	27.355	27.584	28.230	28.217	28.338	28.563	28.812	29.049	29.269	29.506	29.791	29.849	29.888	29.884	29.860	29.861	29.876	29.882	29.879	29.873	0.5%
Light Trucks	19.943	20.296	20.342	20.513	20.785	20.742	20.844	21.058	21.261	21.236	21.341	21.527	21.710	21.887	22.034	22.166	22.289	22.424	22.570	22.734	22.911	22.901	0.6%
Average On Road MPG																							
Cars	22.622	22.900	23.091	23.286	23.641	23.834	24.050	24.222	24.328	24.503	24.667	24.807	24.982	25.124	25.193	25.246	25.234	25.175	25.143	25.112	25.119	25.091	0.5%
Light Trucks	15.761	15.970	16.184	16.322	16.502	16.590	16.682	16.772	16.869	16.946	17.015	17.101	17.163	17.246	17.347	17.434	17.534	17.622	17.705	17.790	17.886	17.961	0.6%

**Table 50. Summary of New Light-Duty Vehicle Size Class Attributes (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>New Vehicle Sales Shares (percent)</b>																								
<b>Conventional Cars</b>																								
Minicompact	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	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.6%
Subcompact	0.167	0.172	0.168	0.167	0.165	0.163	0.162	0.161	0.159	0.158	0.157	0.156	0.155	0.154	0.153	0.152	0.151	0.150	0.149	0.148	0.147	0.146	0.146	-0.6%
Compact	0.358	0.393	0.389	0.389	0.389	0.391	0.393	0.393	0.393	0.394	0.394	0.394	0.394	0.394	0.394	0.393	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.4%
Mid-Size	0.341	0.308	0.312	0.314	0.313	0.312	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	-0.4%
Large	0.123	0.115	0.118	0.119	0.120	0.121	0.122	0.123	0.124	0.125	0.126	0.127	0.128	0.129	0.130	0.131	0.133	0.134	0.134	0.135	0.136	0.137	0.137	0.5%
Two Seater	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	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.5%
<b>Conventional Light Trucks</b>																								
Small Pickup	0.172	0.154	0.154	0.154	0.153	0.149	0.147	0.147	0.147	0.146	0.145	0.145	0.144	0.144	0.143	0.143	0.142	0.141	0.140	0.139	0.138	0.138	0.138	-1.0%
Large Pickup	0.210	0.204	0.201	0.200	0.198	0.194	0.193	0.192	0.191	0.190	0.189	0.188	0.187	0.187	0.186	0.185	0.184	0.183	0.182	0.180	0.179	0.178	0.178	-0.8%
Small Van	0.192	0.216	0.211	0.210	0.210	0.207	0.209	0.209	0.209	0.209	0.210	0.210	0.210	0.210	0.210	0.209	0.209	0.209	0.208	0.207	0.206	0.206	0.206	0.3%
Large Van	0.020	0.019	0.019	0.019	0.018	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.016	0.016	-0.9%
Small Utility	0.309	0.309	0.315	0.317	0.319	0.327	0.328	0.329	0.330	0.331	0.332	0.333	0.334	0.335	0.336	0.338	0.340	0.341	0.343	0.345	0.348	0.350	0.350	0.6%
Large Utility	0.097	0.098	0.100	0.101	0.102	0.105	0.105	0.105	0.106	0.106	0.106	0.107	0.107	0.107	0.108	0.108	0.109	0.109	0.110	0.111	0.112	0.112	0.112	0.7%
<b>New Vehicle Average Horse Power</b>																								
<b>Conventional Cars</b>																								
Minicompact	194.901	198.484	202.467	206.056	207.351	211.521	215.644	219.400	222.953	225.608	228.468	231.121	233.216	235.497	237.847	240.677	243.312	245.694	248.257	250.375	252.831	255.316	255.316	1.2%
Subcompact	140.203	133.076	136.683	141.083	145.146	146.804	151.784	156.665	161.484	165.921	170.496	174.973	178.719	182.429	186.251	190.509	194.446	197.822	201.118	204.251	207.587	210.876	210.876	1.9%
Compact	174.408	132.616	136.340	140.472	144.726	146.887	151.607	156.268	160.864	165.135	169.344	173.584	177.210	180.682	184.445	188.760	192.668	196.084	199.253	202.205	205.315	208.428	208.428	0.8%
Mid-Size	193.367	168.139	172.357	176.824	180.355	183.453	188.465	193.349	198.172	202.620	207.002	211.404	215.075	218.439	222.124	226.337	230.111	233.401	236.489	239.543	242.753	245.959	245.959	1.1%
Large	207.570	216.194	220.529	225.279	230.245	234.015	238.919	243.624	248.214	252.759	257.264	261.823	266.017	269.727	273.862	278.241	281.950	285.254	288.206	291.318	294.438	297.506	297.506	1.6%
Two Seater	169.880	235.616	240.788	246.318	250.873	255.189	261.279	267.059	272.718	277.620	282.695	287.515	291.470	295.408	299.428	303.855	307.994	311.653	315.382	318.774	322.560	326.396	326.396	3.0%
Average New Car	179.298	154.358	158.672	163.193	167.327	170.013	174.912	179.774	184.559	189.030	193.488	197.947	201.753	205.334	209.228	213.615	217.548	220.989	224.197	227.305	230.563	233.808	233.808	1.2%
<b>Conventional Light Trucks</b>																								
Small Pickup	175.212	144.296	150.316	157.396	163.849	165.631	174.437	183.413	192.008	196.635	201.594	206.671	211.129	215.745	220.670	225.903	230.727	234.739	238.420	242.050	245.873	249.470	249.470	1.6%
Large Pickup	222.889	227.521	234.372	241.234	247.374	251.368	260.180	268.913	277.692	282.987	289.119	295.280	300.601	305.900	310.759	315.980	320.657	324.877	328.910	332.753	336.622	340.158	340.158	1.9%
Small Van	204.945	169.589	177.059	184.347	190.285	194.075	203.460	212.986	222.151	227.356	232.898	238.774	244.208	249.817	255.911	262.309	268.210	273.158	277.691	282.180	286.742	290.847	290.847	1.6%
Large Van	211.509	222.753	227.833	232.691	236.779	240.111	246.349	252.342	258.191	262.138	266.927	271.767	275.998	280.604	284.691	288.873	292.681	296.102	299.377	302.492	305.485	308.119	308.119	1.7%
Small Utility	205.535	180.472	187.600	194.736	200.905	205.104	213.682	222.272	230.407	235.389	240.419	245.719	250.221	254.933	259.943	265.270	269.981	274.166	278.023	281.869	285.925	289.693	289.693	1.6%
Large Utility	226.004	197.494	204.533	211.182	216.941	221.368	229.625	237.687	245.469	250.340	255.620	260.920	265.576	270.237	274.915	279.980	284.573	288.720	292.634	296.420	300.188	303.541	303.541	1.3%
Average New Light Truck	205.968	184.627	191.518	198.484	204.532	208.260	216.986	225.715	234.147	239.141	244.472	249.993	254.839	259.818	264.953	270.408	275.324	279.622	283.610	287.519	291.544	295.230	295.230	1.6%

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

2/ Environmental Protection Agency rated miles per gallon.

MPG = Miles per gallon.

EPA = Environmental Protection Agency.

N/A = Not applicable.

Avr. = Average.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998

are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy

Outlook for the latest estimates for 1999.

Sources: 1998 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 1997, (November 1998); 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 (March 1992); and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections:

EIA, AEO99 National Energy Modeling System run AEO2K.D100199A.

**Table 51. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology (1 of 1)**  
(Trillion Btu)

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Cars 1/																							
Gasoline Conventional	1099.82	1021.19	978.53	930.99	879.17	861.28	854.13	852.49	850.10	841.38	830.89	825.40	819.12	814.50	815.72	821.45	833.85	845.13	850.33	849.82	846.48	849.12	-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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.32	0.83	1.25	1.61	1.91	2.13	2.24	2.24	2.23	2.22	2.20	2.19	2.17	2.15	2.16	2.17	2.19	2.21	2.23	2.24	2.24	2.25	9.2%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.04	0.10	0.15	0.19	0.22	0.25	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.27	9.4%
CNG	7.62	20.67	29.70	37.89	44.68	49.45	51.86	52.27	52.12	51.92	51.67	51.39	50.95	50.58	50.51	50.67	51.04	51.43	51.76	52.05	52.18	52.33	9.2%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	5.41	10.03	13.15	15.98	18.29	19.94	20.78	20.95	20.89	20.79	20.68	20.57	20.40	20.25	20.22	20.29	20.45	20.61	20.74	20.85	20.89	20.96	6.3%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.22	0.60	0.84	1.06	1.24	1.33	1.34	1.29	1.19	1.09	1.02	0.96	0.92	0.91	0.91	0.92	0.94	0.95	0.96	0.97	0.97	0.98	7.0%
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	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	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	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	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	1113.43	1053.42	1023.62	987.73	945.51	934.38	930.62	929.51	926.79	917.67	906.72	900.77	893.81	888.64	889.77	895.75	908.73	920.59	926.29	926.19	923.02	925.89	-0.8%
Light Trucks 1/																							
Gasoline Conventional	1617.83	1688.69	1686.20	1671.40	1648.07	1637.24	1653.30	1673.73	1693.61	1708.00	1715.12	1718.31	1721.93	1723.88	1729.11	1743.78	1759.42	1772.08	1780.79	1782.18	1776.23	1771.87	0.4%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.68	1.78	2.74	3.69	4.52	5.29	5.91	6.26	6.32	6.37	6.42	6.45	6.45	6.44	6.46	6.51	6.56	6.59	6.61	6.63	6.63	6.62	10.9%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.09	0.24	0.38	0.51	0.63	0.74	0.83	0.88	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.91	0.92	0.92	0.92	0.93	0.93	0.93	11.0%
CNG	9.34	24.56	37.08	49.16	59.28	68.43	75.47	79.44	80.24	80.97	81.57	81.87	81.97	82.04	82.39	83.12	83.91	84.43	84.86	85.16	85.24	85.14	10.6%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	7.14	12.29	16.25	19.97	22.99	25.70	27.84	29.06	29.35	29.61	29.80	29.88	29.92	29.94	30.05	30.31	30.60	30.79	30.95	31.04	31.04	30.98	6.9%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.13	0.33	0.46	0.58	0.66	0.70	0.71	0.68	0.63	0.59	0.56	0.54	0.53	0.53	0.54	0.55	0.57	0.58	0.59	0.60	0.60	0.61	7.1%
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	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	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	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	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	1635.22	1727.88	1743.10	1745.32	1736.15	1738.10	1764.05	1790.04	1811.04	1826.44	1834.36	1837.95	1841.69	1843.73	1849.47	1865.19	1881.97	1895.40	1904.73	1906.53	1900.66	1896.15	0.7%
Total Fleet Vehicles	2748.65	2781.31	2766.72	2733.04	2681.66	2672.48	2694.67	2719.55	2737.83	2744.11	2741.08	2738.72	2735.50	2732.37	2739.23	2760.94	2790.70	2815.99	2831.02	2832.72	2823.69	2822.04	0.1%
Commercial Light Trucks 2/	612.81	623.48	631.41	642.33	652.28	662.80	673.12	681.61	690.25	698.51	705.59	714.04	719.98	727.51	736.72	747.23	757.35	762.90	769.65	777.11	785.19	793.22	1.2%

1/ Includes all fleets of 10 or more.

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

ICE = Internal combustion engine.

CNG = Compressed natural gas.

LPG = Liquid petroleum gas.

N/A = Not Applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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, March 1992; Bobit Publishing Company, Fleet Fact Book, Redondo Beach, California, various issues; United States Department of Commerce, Bureau of the Census, "Trucks Inventory and Use Survey," IC92-1-52, (Washington, DC, May 1995); Federal Highway Administration, Highway Statistics 1997 (November 1998); 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 AEO2000 National Energy Modeling System run AEO2K.D10U199A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D10U199A.

**Table 52. Transportation Fleet Car and Truck Sales by Type and Technology (Thousands) (1 of 1)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Cars 1/																							
Gasoline Conventional	1884.02	1694.38	1636.28	1612.82	1630.48	1657.07	1676.42	1659.29	1643.83	1638.95	1638.71	1653.99	1641.70	1640.00	1666.74	1710.68	1737.18	1716.83	1702.42	1699.11	1710.67	1730.56	-0.4%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	4.67	10.98	14.58	14.37	14.52	14.76	14.93	14.78	14.64	14.60	14.60	14.73	14.62	14.61	14.85	15.24	15.47	15.29	15.16	15.13	15.24	15.42	5.6%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.49	1.23	1.70	1.68	1.70	1.73	1.75	1.73	1.71	1.71	1.71	1.72	1.71	1.71	1.74	1.78	1.81	1.79	1.77	1.77	1.78	1.80	6.1%
CNG	31.59	64.63	77.90	76.79	77.63	78.89	79.81	79.00	78.26	78.03	78.02	78.75	78.16	78.08	79.35	81.44	82.71	81.74	81.05	80.89	81.44	82.39	4.5%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	16.53	27.50	31.56	31.10	31.44	31.96	32.33	32.00	31.70	31.61	31.60	31.90	31.66	31.63	32.14	32.99	33.50	33.11	32.83	32.77	32.99	33.37	3.2%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.09	2.00	2.22	2.19	2.22	2.25	2.28	2.26	2.24	2.23	2.23	2.25	2.23	2.23	2.27	2.33	2.36	2.33	2.31	2.31	2.31	2.33	3.6%
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	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	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	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	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	1938.39	1800.72	1764.24	1738.95	1757.99	1786.66	1807.52	1789.05	1772.38	1767.12	1766.86	1783.34	1770.09	1768.25	1797.08	1844.46	1873.03	1851.10	1835.56	1831.99	1844.44	1865.90	-0.2%
Light Trucks 1/																							
Gasoline Conventional	1798.77	1714.02	1697.90	1713.55	1767.44	1827.18	1875.56	1879.46	1881.62	1892.89	1907.07	1937.37	1933.61	1940.69	1980.23	2039.36	2076.96	2057.70	2044.71	2044.38	2061.41	2088.09	0.7%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	5.62	14.72	20.71	20.90	21.56	22.29	22.88	22.93	22.95	23.09	23.26	23.63	23.59	23.67	24.15	24.88	25.33	25.10	24.94	24.94	25.14	25.47	7.1%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.73	1.95	2.78	2.80	2.89	2.99	3.07	3.07	3.08	3.09	3.12	3.17	3.16	3.17	3.24	3.33	3.40	3.36	3.34	3.34	3.37	3.41	7.3%
CNG	20.64	50.09	67.53	68.15	70.30	72.67	74.60	74.75	74.84	75.29	75.85	77.06	76.91	77.19	78.76	81.11	82.61	81.84	81.32	81.31	81.99	83.05	6.5%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	11.12	19.81	24.81	25.04	25.83	26.70	27.41	27.46	27.49	27.66	27.87	28.31	28.25	28.36	28.93	29.80	30.35	30.07	29.88	29.87	30.12	30.51	4.7%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.38	0.73	0.86	0.87	0.89	0.92	0.95	0.95	0.95	0.96	0.96	0.98	0.98	0.98	1.00	1.03	1.05	1.04	1.03	1.03	1.04	1.06	4.8%
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	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	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	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	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	1837.27	1801.32	1814.58	1831.31	1888.90	1952.75	2004.45	2008.62	2010.93	2022.98	2038.14	2070.52	2066.49	2074.06	2116.32	2179.52	2219.69	2199.11	2185.23	2184.88	2203.08	2231.59	0.9%
Total Fleet Vehicles	3775.66	3602.04	3578.82	3570.26	3646.90	3739.41	3811.97	3797.67	3783.31	3790.09	3804.99	3853.86	3836.58	3842.31	3913.40	4023.98	4092.73	4050.21	4020.79	4016.87	4047.52	4097.49	0.4%
Commercial Light Trucks 2/	919.55	901.21	909.20	918.94	949.50	983.30	1010.75	1013.89	1016.01	1022.85	1031.65	1049.26	1047.99	1052.49	1074.50	1107.60	1128.76	1118.52	1111.49	1111.36	1120.91	1135.92	1.0%

1/ Includes all fleets of 10 or more.

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

ICE = Internal combustion engine.

CNG = Compressed natural gas.

LNG = Liquid petroleum gas.

N/A = Not Applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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, March 1992; Bobit Publishing Company, Fleet Fact Book, Redondo Beach, California, various issues; United States Department of Commerce, Bureau of the Census, "Truck Inventory and Use Survey," IC92-1-52, (Washington, DC, May 1995); Federal Highway Administration, Highway Statistics 1997 (November 1998); 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 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AE-U2000 National Energy Modeling System run AE-U2K.D100199A. Projections: EIA, AE-U2000 National Energy Modeling System run AE-U2K.D100199A.

**Table 53. Transportation Fleet Car and Truck Stock by Type and Technology (Thousands) (1 of 1)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Cars 1/																							
Gasoline Conventional	7897.06	7448.88	7181.26	6878.93	6587.59	6494.21	6491.26	6525.95	6537.22	6520.02	6485.89	6481.36	6478.34	6478.50	6505.58	6564.00	6657.72	6730.17	6762.93	6752.91	6730.87	6745.01	-0.7%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	10.13	26.65	40.15	51.86	62.16	69.76	73.92	74.33	74.56	74.65	74.52	74.35	74.18	74.13	74.37	75.00	75.76	76.41	76.94	77.24	77.30	77.28	9.7%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	1.10	2.92	4.50	5.85	7.03	7.93	8.43	8.45	8.49	8.49	8.47	8.45	8.43	8.43	8.46	8.53	8.62	8.70	8.76	8.79	8.79	8.79	9.9%
CNG	60.09	164.48	236.99	303.72	361.69	401.48	422.87	427.97	428.78	429.57	429.37	428.85	427.61	427.03	428.22	431.62	435.98	439.18	442.00	444.13	445.23	445.65	9.5%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	41.50	77.88	102.53	125.31	144.96	158.59	166.02	168.11	168.39	168.63	168.49	168.33	167.87	167.66	168.14	169.48	171.27	172.57	173.62	174.36	174.73	174.95	6.8%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.99	5.32	7.36	9.34	11.04	12.14	12.72	12.93	12.95	12.98	12.98	12.98	12.93	12.91	12.94	13.04	13.17	13.26	13.33	13.41	13.46	13.48	9.1%
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	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	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	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	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	8011.87	7726.13	7572.79	7375.01	7174.46	7144.10	7175.22	7217.75	7230.38	7214.34	7179.72	7174.32	7169.37	7168.66	7197.71	7261.67	7362.52	7440.28	7477.59	7470.84	7450.38	7465.17	-0.3%
Light Trucks 1/																							
Gasoline Conventional	8101.4	8616.5	8712.2	8706.6	8678.3	8652.9	8772.7	8924.6	9085.1	9207.3	9287.8	9353.4	9406.7	9463.6	9549.2	9679.7	9821.0	9940.9	10038.3	10099.0	10124.0	10141.1	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	13.50	35.26	54.73	74.12	91.75	107.93	121.00	128.91	131.11	133.23	134.87	136.17	136.87	137.60	138.79	140.56	142.60	144.05	145.38	146.59	147.53	148.10	11.5%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	1.76	4.64	7.26	9.88	12.27	14.49	16.29	17.38	17.67	17.96	18.18	18.36	18.46	18.55	18.71	18.95	19.23	19.42	19.60	19.76	19.89	19.97	11.7%
CNG	46.20	122.11	185.38	247.24	301.31	348.93	386.54	408.96	416.03	422.58	427.52	431.44	433.70	436.09	439.87	445.54	451.99	456.77	461.05	464.74	467.39	468.99	11.1%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	34.36	59.23	78.58	97.11	113.00	126.75	137.92	144.70	147.23	149.47	151.10	152.40	153.21	154.08	155.43	157.47	159.75	161.50	163.04	164.26	165.06	165.55	7.4%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	1.94	2.71	3.41	3.93	4.31	4.57	4.71	4.79	4.86	4.90	4.94	4.97	5.00	5.04	5.11	5.18	5.25	5.30	5.33	5.35	5.36	9.0%
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	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	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	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	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	8198.0	8839.7	9040.8	9138.4	9200.5	9255.3	9439.0	9629.3	9801.9	9935.4	10024.4	10096.7	10153.9	10214.9	10307.1	10447.3	10599.8	10727.9	10832.6	10899.7	10929.2	10949.1	1.3%
Total Fleet Vehicles	16209.9	16565.9	16613.6	16513.4	16375.0	16399.4	16614.3	16847.0	17032.3	17149.8	17204.1	17271.0	17323.3	17383.6	17504.8	17709.0	17962.3	18168.1	18310.2	18370.5	18379.6	18414.2	0.6%
Commercial Light Trucks 2/																							
	9881.3	10387.3	10594.1	10796.8	11016.2	11254.7	11504.4	11740.4	11962.6	12176.6	12384.9	12596.8	12793.1	12980.6	13177.4	13394.0	13617.1	13815.0	13992.4	14157.7	14321.3	14489.0	1.8%

1/ Includes all fleets of 10 or more.

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

CNG = Compressed natural gas.

LNG = Liquid petroleum gas.

ICE = Internal combustion engine.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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, March 1992; Bobit Publishing Company, Fleet Fact Book, Redondo Beach, California, various issues; United States Department of Commerce, Bureau of the Census, "Truck Inventory and Use Survey," IC92-1-52, (Washington, DC, May 1995); Federal Highway Administration, Highway Statistics 1997, (November 1998); 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 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, AE02000 National Energy Modeling System run AE02K.D100199A. Projections: EIA, AE02000 National Energy Modeling System run AE02K.D100199A.

**Table 54. Transportation Fleet Car and Truck VMT by Type and Technology (1 of 1)**  
(Billion Miles)

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Cars 1/																							
Gasoline Conventional	203.18	191.20	184.19	176.22	168.54	166.20	166.21	167.10	167.34	166.81	165.85	165.70	165.62	165.62	166.31	167.80	170.22	172.09	172.91	172.58	171.95	172.31	-0.7%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.26	0.68	1.03	1.33	1.59	1.79	1.89	1.90	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.92	1.94	1.95	1.97	1.97	1.97	1.97	9.6%
Ethanol																							
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.03	0.07	0.12	0.15	0.18	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	0.22	0.22	0.22	0.22	9.9%
CNG	1.55	4.22	6.08	7.78	9.25	10.27	10.83	10.96	10.98	10.99	10.98	10.96	10.93	10.92	10.95	11.03	11.15	11.23	11.30	11.35	11.37	11.38	9.5%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	1.07	2.00	2.63	3.21	3.71	4.06	4.25	4.30	4.31	4.31	4.31	4.30	4.29	4.29	4.30	4.33	4.38	4.41	4.44	4.46	4.46	4.47	6.7%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.14	0.19	0.24	0.28	0.31	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	9.1%
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	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	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	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	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	206.14	198.31	194.24	188.93	183.56	182.83	183.73	184.82	185.08	184.58	183.59	183.42	183.29	183.26	184.00	185.63	188.24	190.25	191.18	190.93	190.33	190.70	-0.4%
Light Trucks 1/																							
Gasoline Conventional	208.44	221.17	223.46	223.05	222.03	221.44	224.63	228.52	232.56	235.57	237.50	239.13	240.49	241.93	244.11	247.44	251.09	254.19	256.65	258.09	258.63	259.06	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Neat	0.35	0.91	1.40	1.90	2.35	2.76	3.10	3.30	3.36	3.41	3.45	3.48	3.50	3.52	3.55	3.59	3.65	3.68	3.72	3.75	3.77	3.78	11.5%
Ethanol																							
Flex	0.05	0.12	0.19	0.25	0.31	0.37	0.42	0.44	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.51	11.6%
Neat	0.05	0.12	0.19	0.25	0.31	0.37	0.42	0.44	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.51	11.6%
CNG	1.19	3.13	4.75	6.33	7.71	8.93	9.90	10.47	10.65	10.81	10.93	11.03	11.09	11.15	11.24	11.39	11.56	11.68	11.79	11.88	11.94	11.98	11.1%
CNG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
LPG	0.88	1.52	2.02	2.49	2.89	3.24	3.53	3.71	3.77	3.82	3.86	3.90	3.92	3.94	3.97	4.03	4.08	4.13	4.17	4.20	4.22	4.23	7.4%
LPG Bi-fuel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.05	0.07	0.09	0.10	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	9.0%
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	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	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	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	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	210.97	227.01	232.08	234.36	235.71	237.23	242.11	247.01	251.36	254.65	256.80	258.60	260.06	261.62	263.97	267.55	271.49	274.81	277.46	279.06	279.71	280.21	1.3%
Total Fleet Vehicles	417.11	425.33	426.31	423.29	419.26	420.06	425.84	431.83	436.45	439.23	440.39	442.02	443.36	444.88	447.97	453.18	459.73	465.07	468.64	469.99	470.03	470.91	0.6%
Commercial Light Trucks 2/	72.25	74.65	76.10	77.89	79.61	81.38	83.12	84.64	86.19	87.65	88.97	90.46	91.65	93.04	94.64	96.42	98.16	99.31	100.61	102.00	103.49	104.93	1.7%

1/ Includes all fleets of 10 or more.

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

CNG = Compressed natural gas.

LNG = Liquid petroleum gas.

ICE = Internal combustion engine.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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, March 1992; Bobit Publishing Company, Fleet Fact Book, Redondo Beach, California, various issues; Federal Highway Administration, Highway Statistics 1997, (November 1998); Decision Analysis Corporation of Virginia, NEIMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AE02000 National Energy Modeling System run AE02K.D100199A. Projections: EIA, AE02000 National Energy Modeling System run AE02K.D100199A.

**Table 55. Air Travel Energy Use (1 of 2)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Fuel Cost (1987 dollar per million)	3.0	3.9	3.8	3.9	3.9	3.9	4.0	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.4	4.4	4.4	4.4	4.4	4.4	1.7%
Macro Variables ( 1992 dollars)																							
GDP	7551.9	7990.7	8190.8	8377.2	8595.9	8823.8	9056.3	9250.8	9448.9	9651.1	9840.1	10054.3	10218.1	10415.8	10648.0	10905.7	11147.2	11330.6	11533.4	11740.6	11959.4	12178.6	2.2%
Disposable Income	5348.5	5665.1	5800.7	5935.7	6076.0	6246.1	6405.5	6562.2	6721.9	6879.3	7038.2	7204.0	7352.7	7508.8	7684.2	7881.1	8082.6	8256.0	8427.5	8612.9	8806.7	9007.8	2.4%
Real Merchandise Exports	742.6	810.3	871.1	942.1	1021.3	1114.1	1216.8	1322.0	1433.7	1551.3	1676.2	1805.5	1928.1	2051.9	2184.0	2326.3	2472.9	2618.3	2763.3	2909.8	3054.9	3200.7	6.9%
Yield (ticket price, 1992 dollars)	12.0	12.7	12.6	12.7	12.7	12.7	12.8	12.8	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.1	13.1	13.1	13.1	13.1	13.1	0.4%
Travel Demand(billion of miles)																							
Rev. Passenger Miles Domestic	473.3	503.7	520.4	535.6	551.8	570.8	589.0	605.6	622.0	638.6	654.7	672.7	687.0	703.4	722.1	743.2	764.2	782.0	800.4	820.1	840.8	862.1	2.8%
Personal	250.0	266.4	276.2	284.8	293.4	304.4	314.5	324.3	333.9	343.6	353.2	363.7	372.4	382.0	392.6	404.6	417.2	428.8	440.2	452.6	465.7	479.4	3.0%
Business	223.2	237.2	244.3	250.7	258.4	266.4	274.6	281.3	288.1	295.1	301.5	309.0	314.5	321.4	329.5	338.6	347.0	353.3	360.3	367.4	375.0	382.7	2.5%
Load Factor Domestic 2/	0.70	0.70	0.70	0.70	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	0.69	0.69	0.69	0.69	0.69	-0.1%
Rev. Passenger Miles Int.	207.1	230.7	238.6	251.0	259.2	274.3	283.5	298.0	306.7	321.8	330.4	346.7	354.8	370.8	381.5	401.0	413.0	430.6	441.0	460.2	472.0	484.2	3.9%
Load Factor International 2/	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	-0.1%
Rev. Ton Miles Freight (billion)	16.1	18.1	19.6	21.2	23.2	25.3	27.7	30.1	32.6	35.2	38.0	40.8	43.5	46.2	49.2	52.4	55.7	58.7	61.9	65.0	68.2	71.4	7.0%
Seat Miles Demanded (billion)	1061.5	1151.2	1198.5	1250.7	1312.6	1378.4	1438.5	1507.2	1565.3	1632.4	1692.3	1765.2	1821.1	1890.1	1958.4	2042.6	2118.4	2194.9	2264.0	2345.5	2419.7	2495.2	4.0%
Narrow Body Aircraft	543.7	577.9	595.6	615.3	639.3	664.7	686.7	712.3	732.4	756.1	776.0	801.4	818.5	841.0	862.7	890.8	914.6	938.1	958.0	982.5	1003.5	1024.5	2.9%
Wide Body Aircraft	517.8	573.3	602.9	635.4	673.3	713.7	751.8	794.9	833.0	876.3	916.3	963.9	1002.6	1049.1	1095.8	1151.9	1203.8	1256.8	1306.0	1362.9	1416.2	1470.8	4.9%
Aircraft Sales																							
Narrow Body Aircraft	230.7	251.2	270.1	286.2	322.6	333.8	307.8	339.1	295.9	329.9	301.9	351.9	288.5	339.5	338.9	399.1	370.3	375.2	351.7	398.0	375.4	382.7	2.3%
Wide Body Aircraft	69.6	81.0	88.9	96.2	108.9	115.2	111.1	122.4	112.7	124.5	118.4	135.0	117.7	134.8	136.4	157.5	150.5	154.3	148.6	166.8	161.7	167.0	4.1%
Aircraft Stock																							
Narrow Body Aircraft	4538.2	4837.6	4986.0	5150.8	5352.0	5563.8	5748.5	5962.7	6130.9	6329.7	6496.5	6708.5	6851.7	7040.1	7221.7	7456.7	7656.0	7853.1	8019.5	8224.9	8400.5	8576.1	2.9%
Wide Body Aircraft	1078.0	1196.9	1258.7	1326.4	1405.6	1490.0	1569.5	1659.4	1738.9	1829.3	1912.9	2012.2	2093.2	2190.2	2287.5	2404.6	2513.1	2623.7	2726.5	2845.3	2956.6	3070.5	4.9%
Adv. Technology Penetration																							
Ultra-high Bypass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.09	0.17	0.30	0.48	0.68	0.81	0.90	0.95	0.97	0.99	27.2%
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	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	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	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	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	0.00	0.00	0.01	0.02	0.04	0.08	0.14	0.25	0.40	0.57	0.73	0.85	0.92	0.96	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	31.4%
Aircraft New Efficiency 3/																							
Narrow Body Aircraft	50.4	51.2	51.6	52.0	52.4	52.8	53.3	53.7	54.1	54.5	54.9	55.3	55.8	56.1	56.6	57.0	57.4	57.8	58.3	58.7	59.1	59.6	0.8%
Wide Body Aircraft	60.2	61.0	61.3	61.7	62.1	62.5	62.9	63.3	63.7	64.1	64.4	64.8	65.2	65.5	65.9	66.3	66.6	67.2	67.6	67.9	68.1	68.5	0.6%
Average Aircraft	52.4	53.3	53.7	54.1	54.6	55.0	55.5	55.9	56.4	56.8	57.3	57.7	58.2	58.5	59.0	59.3	59.8	60.3	60.8	61.1	61.6	62.0	0.8%

**Table 55. Air Travel Energy Use (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Aircraft Stock Efficiency 3/																							
Narrow Body Aircraft	47.3	48.0	48.4	48.8	49.2	49.6	49.9	50.3	50.7	51.1	51.5	51.9	52.2	52.6	53.0	53.4	53.8	54.2	54.6	55.0	55.4	55.8	0.8%
Wide Body Aircraft	56.5	57.2	57.6	57.9	58.3	58.7	59.0	59.4	59.8	60.1	60.5	60.8	61.1	61.5	61.8	62.2	62.5	62.9	63.2	63.6	63.9	64.2	0.6%
Average Aircraft	51.4	52.2	52.6	53.0	53.5	53.9	54.3	54.8	55.2	55.6	56.0	56.4	56.8	57.2	57.6	58.0	58.4	58.9	59.3	59.7	60.1	60.5	0.7%
Fuel Consumption (trillion Btu)																							
Commercial																							
Jet Fuel	2902.0	3097.1	3199.1	3311.7	3447.4	3590.6	3718.3	3864.9	3984.5	4123.9	4244.5	4394.2	4502.3	4639.4	4773.2	4941.7	5088.9	5235.6	5363.8	5518.0	5654.6	5792.4	3.2%
Aviation Gasoline	42.8	42.6	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	-0.1%
Military																							
Jet Fuel	455.0	460.7	456.9	454.7	451.8	450.4	453.3	458.0	462.2	466.6	470.5	472.7	473.3	474.5	475.8	477.2	478.5	479.9	481.3	482.7	484.1	485.5	0.3%

1/ Fraction of seats filled.

2/ 1992 cents per passenger-mile.

3/ Seat miles per gallon.

RPM = Revenue passenger miles.

GDP = Gross domestic product.

Btu = British thermal unit.

N/A = Not applicable.

Rev. = Revenue.

Int. = International.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 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 1997-2008, FAA-APO 97-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; DOT, RSPA, Air Carrier Financial Statistics Quarterly, December 1990/1989, and prior issues; DOT, RSPA, Air Carrier Traffic Statistics Monthly, December 1997/1996, and prior issues; 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 Report 1996, DOE/EIA-0214(96) (Washington, DC, February 1999); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1998; and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projections: EIA AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 56. Freight Transportation Energy Use (1 of 3)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Existing Trucks by Size Class																							
Vehicle Miles Traveled (billion miles)																							
Medium																							
Diesel	32.12	33.77	34.49	35.45	36.46	37.10	37.74	38.33	38.98	39.63	40.12	40.70	41.12	41.66	42.34	43.06	43.76	44.18	44.74	45.34	45.94	46.56	1.7%
Gasoline	18.26	15.74	14.77	13.82	13.01	12.28	11.63	11.04	10.50	10.04	9.60	9.22	8.84	8.53	8.25	8.00	7.78	7.56	7.37	7.20	7.06	6.92	-4.3%
Liquid Petroleum Gas	1.06	0.99	0.98	0.96	0.95	0.94	0.94	0.95	0.96	0.98	0.99	1.01	1.02	1.04	1.06	1.08	1.10	1.11	1.13	1.14	1.16	1.17	0.4%
Compressed Natural Gas	0.11	0.12	0.13	0.15	0.20	0.27	0.35	0.44	0.56	0.69	0.83	0.97	1.11	1.26	1.41	1.55	1.67	1.77	1.87	1.96	2.04	2.11	14.4%
Medium Subtotal	51.55	50.61	50.37	50.38	50.63	50.58	50.66	50.77	51.01	51.33	51.54	51.90	52.10	52.48	53.06	53.69	54.32	54.62	55.11	55.64	56.19	56.77	0.4%
Heavy																							
Diesel	130.70	141.03	145.07	149.76	154.44	158.59	162.44	165.15	167.92	170.36	172.11	174.64	176.29	178.54	181.36	184.35	187.11	188.65	190.76	192.94	195.23	197.55	1.9%
Gasoline	1.98	1.68	1.56	1.46	1.36	1.28	1.21	1.14	1.08	1.03	0.97	0.93	0.89	0.85	0.82	0.79	0.77	0.74	0.72	0.71	0.69	0.68	-4.8%
Liquid Petroleum Gas	0.13	0.13	0.13	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26	3.2%
Compressed Natural Gas	0.03	0.04	0.05	0.06	0.09	0.12	0.15	0.20	0.26	0.31	0.38	0.44	0.50	0.57	0.63	0.69	0.74	0.78	0.82	0.86	0.89	0.92	16.4%
Heavy Subtotal	132.84	142.87	146.81	151.41	156.03	160.13	163.96	166.66	169.43	171.89	173.66	176.22	177.89	180.17	183.04	186.07	188.86	190.42	192.56	194.77	197.07	199.41	1.9%
Total Vehicle Miles Traveled	184.39	193.48	197.18	201.80	206.66	210.72	214.62	217.43	220.45	223.21	225.20	228.12	229.99	232.66	236.09	239.76	243.18	245.04	247.67	250.40	253.27	256.18	1.5%
Consumption (trillion Btu)																							
Medium																							
Diesel	531.45	545.08	551.36	561.42	573.06	579.50	586.20	593.04	600.85	608.98	615.21	622.74	628.03	635.22	644.59	654.57	664.41	670.19	678.28	686.74	695.46	704.40	1.3%
Gasoline	305.69	262.75	246.23	230.19	216.18	203.95	192.93	183.09	173.89	165.81	158.34	151.53	144.92	139.22	134.01	129.36	125.25	121.07	117.54	114.28	111.38	108.74	-4.6%
Liquid Petroleum Gas	17.65	16.58	16.36	16.00	15.89	15.66	15.70	15.85	15.99	16.18	16.41	16.67	16.86	17.11	17.41	17.72	18.02	18.18	18.38	18.57	18.76	18.94	0.3%
Compressed Natural Gas	1.76	1.88	2.09	2.52	3.31	4.34	5.66	7.24	9.17	11.24	13.47	15.87	18.14	20.47	22.90	25.17	27.22	28.81	30.37	31.83	33.16	34.37	14.5%
Medium Subtotal	856.56	826.29	816.04	810.13	808.44	803.46	800.49	799.23	799.90	802.21	803.42	806.81	807.96	812.02	818.92	826.82	834.90	838.25	844.57	851.42	858.76	866.45	0.1%
Heavy																							
Diesel	3235.47	3415.80	3483.97	3567.00	3649.96	3724.73	3793.53	3835.88	3877.07	3909.69	3923.09	3950.44	3957.14	3976.46	4006.40	4040.59	4070.68	4075.89	4090.42	4102.07	4113.40	4124.55	1.1%
Gasoline	44.23	37.71	35.31	33.06	30.97	29.19	27.61	26.13	24.74	23.44	22.23	21.16	20.12	19.23	18.42	17.70	17.06	16.43	15.90	15.40	14.97	14.58	-4.9%
Liquid Petroleum Gas	2.95	2.76	2.74	2.78	2.88	2.99	3.09	3.23	3.37	3.51	3.65	3.78	3.88	3.99	4.11	4.22	4.31	4.37	4.43	4.48	4.52	4.56	2.0%
Compressed Natural Gas	0.69	0.78	0.93	1.18	1.58	2.12	2.79	3.59	4.53	5.55	6.61	7.71	8.74	9.78	10.84	11.83	12.71	13.41	14.08	14.69	15.24	15.75	15.3%
Heavy Subtotal	3283.34	3457.05	3522.95	3604.02	3685.40	3759.03	3827.02	3868.82	3909.71	3942.19	3955.58	3983.09	3989.90	4009.47	4039.77	4074.33	4104.77	4110.10	4124.83	4136.64	4148.12	4159.44	1.1%
Medium and Heavy Total																							
Diesel	3766.92	3960.88	4035.33	4128.42	4223.02	4304.24	4379.73	4428.92	4477.92	4518.67	4538.29	4573.18	4585.18	4611.68	4651.00	4695.16	4735.10	4746.08	4768.70	4788.81	4808.86	4828.95	1.1%
Gasoline	349.92	300.46	281.55	263.25	247.16	233.14	220.54	209.23	198.63	189.25	180.56	172.69	165.05	158.45	152.43	147.05	142.30	137.50	133.44	129.68	126.35	123.32	-4.6%
Liquid Petroleum Gas	2.45	2.66	3.02	3.71	4.89	6.46	8.45	10.83	13.70	16.78	20.08	23.58	26.88	30.25	33.74	37.00	39.93	42.22	44.45	46.52	48.40	50.12	14.7%
Compressed Natural Gas	20.61	19.34	19.10	18.79	18.77	18.66	18.80	19.08	19.36	19.70	20.05	20.45	20.75	21.10	21.52	21.94	22.33	22.55	22.81	23.05	23.28	23.49	0.6%
Total	4139.90	4283.34	4338.99	4414.15	4493.83	4562.48	4627.51	4668.05	4709.61	4744.40	4758.98	4789.90	4797.85	4821.49	4858.68	4901.15	4939.66	4948.34	4969.39	4988.06	5006.88	5025.89	0.9%
Fuel Efficiency (Gasoline Equivalent)																							
Medium																							
Diesel	7.61	7.78	7.87	7.94	7.98	8.03	8.10	8.13	8.16	8.19	8.19	8.22	8.24	8.25	8.26	8.28	8.29	8.30	8.31	8.31	8.32	8.32	0.4%
Gasoline	7.52	7.54	7.56	7.53	7.59	7.55	7.58	7.56	7.59	7.62	7.61	7.65	7.67	7.69	7.72	7.76	7.80	7.84	7.87	7.91	7.95	7.99	0.3%
Liquid Petroleum Gas	7.67	7.55	7.60	7.63	7.60	7.58	7.58	7.58	7.60	7.60	7.61	7.63	7.64	7.66	7.68	7.70	7.71	7.72	7.73	7.74	7.75	7.76	0.1%
Compressed Natural Gas	7.84	7.73	7.80	7.78	7.73	7.73	7.73	7.74	7.74	7.75	7.75	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	7.76	-0.1%
Medium Average	7.58	7.70	7.77	7.81	7.86	7.90	7.96	7.99	8.02	8.05	8.06	8.09	8.11	8.13	8.15	8.17	8.19	8.20	8.21	8.23	8.24	8.25	0.4%
Heavy																							
Diesel	5.10	5.20	5.24	5.28	5.32	5.36	5.39	5.42	5.45	5.48	5.51	5.56	5.60	5.64	5.69	5.74	5.78	5.82	5.86	5.91	5.97	6.02	0.8%
Gasoline	5.68	5.60	5.57	5.56	5.56	5.54	5.53	5.51	5.51	5.52	5.51	5.53	5.55	5.57	5.60	5.63	5.66	5.69	5.72	5.76	5.79	5.83	0.1%
Liquid Petroleum Gas	5.58	5.72	5.91	6.00	6.12	6.24	6.37	6.47	6.59	6.64	6.71	6.79	6.86	6.92	6.98	7.03	7.08	7.12	7.15	7.17	7.20	7.21	1.2%
Compressed Natural Gas	6.04	6.30	6.46	6.64	6.80	6.91	6.99	7.05	7.11	7.15	7.19	7.23	7.27	7.30	7.32	7.34	7.36	7.37	7.38	7.38	7.38	7.38	0.9%
Heavy Average	5.10	5.20	5.24	5.29	5.33	5.36	5.40	5.42	5.45	5.48	5.51	5.56	5.61	5.65	5.69	5.74	5.79	5.83	5.87	5.92	5.97	6.02	0.8%
Average	5.62	5.69	5.72	5.75	5.78	5.81	5.84	5.86	5.89	5.91	5.94	5.99	6.03	6.07	6.11	6.15	6.19	6.23	6.27	6.31	6.36	6.41	0.6%



**Table 56. Freight Transportation Energy Use (3 of 3)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Domestic Shipping</b>																							
Ton Miles Shipping (bill. ton mile)	692.23	705.78	706.75	712.63	722.73	730.95	740.97	749.56	758.71	766.77	771.89	780.98	786.89	794.64	804.55	815.79	827.23	832.81	840.66	847.63	854.65	861.25	1.0%
Fuel Eff. (ton miles per thou Btu)	2.44	2.50	2.53	2.56	2.59	2.62	2.65	2.69	2.72	2.75	2.79	2.82	2.85	2.89	2.92	2.96	2.99	3.03	3.07	3.10	3.14	3.18	1.2%
Fuel Consumption (trillion Btu)																							
Diesel (distillate)	199.98	196.98	194.89	194.15	194.54	194.39	194.69	194.58	194.60	194.30	193.25	193.18	192.31	191.87	191.93	192.28	192.64	191.61	191.09	190.37	189.64	188.81	-0.3%
Residual Oil	83.85	85.55	84.64	84.32	84.49	84.43	84.56	84.51	84.52	84.39	83.93	83.90	83.52	83.33	83.36	83.51	83.67	83.22	83.00	82.68	82.36	82.00	-0.1%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>International Shipping</b>																							
Gross Trade (billion 1987 \$)	1758.86	1985.28	2108.35	2243.42	2403.29	2592.12	2804.04	3014.62	3233.24	3468.46	3716.93	3984.87	4237.55	4488.13	4767.23	5075.86	5400.03	5697.65	6002.43	6327.69	6669.89	7031.37	6.5%
Exports (billion 1987 dollars)	742.62	810.35	871.12	942.08	1021.31	1114.06	1216.84	1322.05	1433.67	1551.32	1676.17	1805.55	1928.11	2051.86	2184.03	2326.30	2472.85	2618.32	2763.26	2909.83	3054.90	3200.68	6.9%
Imports (billion 1987 dollars)	1016.24	1174.93	1237.24	1301.34	1381.99	1478.06	1587.20	1692.57	1799.57	1917.15	2040.76	2179.33	2309.44	2436.27	2583.20	2749.56	2927.18	3079.33	3239.17	3417.86	3614.99	3830.69	6.2%
Fuel Consumption (trillion Btu)																							
Diesel (distillate)	68.32	72.87	75.11	77.47	80.16	83.19	86.42	89.48	92.55	95.74	98.99	102.37	105.43	108.35	111.49	114.84	118.27	121.29	124.31	127.48	130.76	134.16	3.1%
Residual Oil	558.38	595.63	613.95	633.23	655.26	680.05	706.41	731.46	756.55	782.59	809.18	836.85	861.80	885.66	911.33	938.78	966.78	991.46	1016.15	1042.05	1068.85	1096.65	3.1%

VM1 = Vehicle Miles Traveled  
 MPG = Miles per gallon.  
 Btu = British thermal unit.  
 N/A = Not applicable.  
 Bill. = Billion.  
 Thou. = Thousand.  
 Eff. = Efficiency.  
 \$ = Dollars.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: 17 and 18 (September 1998); 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, "Truck Inventory and U.S. Survey," IC92-1-52, (Washington, DC, May 1995); Federal Highway Administration, Highway Statistics 1997 (Washington, DC, November 1998); and Energy Information Administration (EIA), AEO2000 National Energy Modeling System run AEO2K.D100198A. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 57. New Light-Duty Vehicle Fuel Economy (1 of 4)  
(Miles per Gallon)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Gasoline</b>																							
Minicompact Cars	26.10	26.56	26.71	27.00	27.75	27.75	28.02	28.36	28.69	28.96	29.26	29.37	29.47	29.55	29.61	29.64	29.69	29.72	29.74	29.77	29.81	29.81	0.6%
Subcompact Cars	31.81	32.38	32.48	32.62	33.26	33.25	33.30	33.46	33.62	33.79	33.99	34.07	34.21	34.24	34.19	34.08	33.99	33.93	33.88	33.83	33.76	33.66	0.3%
Compact Cars	30.66	31.35	31.41	31.61	32.50	32.46	32.53	32.72	32.95	33.19	33.36	33.54	33.78	33.81	33.78	33.69	33.62	33.59	33.56	33.52	33.45	33.39	0.4%
Midsize Cars	27.13	27.67	27.71	27.92	28.54	28.52	28.63	28.85	29.11	29.33	29.53	29.74	30.00	30.03	30.05	30.03	29.99	29.99	29.99	29.99	29.98	29.97	0.5%
Large Cars	24.64	24.97	25.01	25.30	26.03	26.03	26.17	26.40	26.66	26.93	27.19	27.51	27.88	27.98	28.06	28.11	28.11	28.14	28.20	28.23	28.26	28.29	0.6%
2-Seater Cars	24.83	25.25	25.35	25.56	26.18	26.17	26.32	26.56	26.80	27.01	27.22	27.30	27.41	27.45	27.47	27.45	27.44	27.43	27.43	27.43	27.42	27.39	0.4%
Small Pickup	23.77	24.16	24.11	24.16	24.32	24.22	24.14	24.17	24.23	24.12	24.13	24.22	24.34	24.45	24.54	24.61	24.68	24.76	24.84	24.95	25.06	24.99	0.2%
Large Pickup	18.52	18.49	18.45	18.48	18.60	18.51	18.57	18.74	18.86	18.84	18.95	19.13	19.31	19.48	19.62	19.75	19.88	20.03	20.18	20.34	20.51	20.47	0.5%
Small Van	24.50	25.03	25.06	25.17	25.48	25.45	25.49	25.63	25.76	25.61	25.61	25.71	25.85	25.98	26.09	26.18	26.26	26.39	26.53	26.70	26.89	26.84	0.4%
Large Van	18.40	18.80	18.93	19.19	19.51	19.49	19.66	19.94	20.20	20.22	20.37	20.60	20.82	21.03	21.20	21.35	21.50	21.67	21.84	22.04	22.26	22.26	0.9%
Small Utility	21.07	21.61	21.61	21.76	22.06	22.01	22.03	22.18	22.38	22.34	22.41	22.56	22.71	22.85	22.99	23.10	23.20	23.28	23.38	23.47	23.59	23.57	0.5%
Large Utility	17.16	14.59	14.64	14.79	14.99	15.00	15.13	15.34	15.53	15.55	15.69	15.89	16.07	16.20	16.31	16.41	16.51	16.62	16.74	16.85	17.00	16.98	0.0%
<b>Turbo Direct Injection Diesel</b>																							
Minicompact 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	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	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	39.84	40.51	40.55	40.67	41.20	41.11	41.17	41.34	41.51	41.72	41.93	42.05	42.25	42.37	42.27	42.10	41.94	41.84	41.76	41.66	41.55	41.44	0.2%
Midsize Cars	37.62	38.28	38.36	38.56	39.01	38.92	39.06	39.30	39.55	39.78	40.08	40.25	40.48	40.61	40.59	40.51	40.42	40.37	40.33	40.28	40.22	40.16	0.3%
Large Cars	35.38	35.77	35.82	36.05	36.85	36.83	37.00	37.26	37.53	37.82	38.11	38.48	38.93	39.18	39.24	39.27	39.28	39.33	39.41	39.46	39.49	39.50	0.5%
2-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	32.55	33.20	33.15	33.23	33.48	33.36	33.28	33.34	33.49	33.35	33.35	33.40	33.48	33.56	33.64	33.68	33.72	33.75	33.83	33.86	33.92	33.83	0.2%
Large Pickup	24.03	24.20	24.16	24.18	24.28	24.16	24.26	24.47	24.62	24.55	24.62	24.79	24.97	25.16	25.34	25.50	25.65	25.81	25.96	26.15	26.36	26.32	0.4%
Small Van	29.42	30.04	30.02	30.13	30.47	30.38	30.37	30.52	30.73	30.64	30.67	30.76	30.89	31.02	31.13	31.22	31.28	31.34	31.42	31.48	31.56	31.50	0.3%
Large Van	23.49	23.97	24.12	24.43	24.80	24.79	25.01	25.35	25.69	25.66	25.77	25.96	26.15	26.37	26.57	26.76	26.93	27.12	27.31	27.52	27.78	27.77	0.8%
Small Utility	27.32	27.96	27.96	28.13	28.48	28.39	28.41	28.58	28.81	28.76	28.81	28.92	29.06	29.20	29.33	29.43	29.52	29.60	29.69	29.78	29.89	29.83	0.4%
Large Utility	21.22	21.64	21.70	21.92	22.19	22.18	22.38	22.68	22.95	22.91	23.00	23.21	23.41	23.58	23.74	23.88	24.00	24.12	24.26	24.43	24.63	24.60	0.7%
<b>Methanol</b>																							
Minicompact 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	38.37	38.98	39.04	39.15	39.74	39.68	39.71	39.85	40.00	40.17	40.41	40.52	40.69	40.76	40.68	40.53	40.39	40.31	40.24	40.16	40.06	39.94	0.2%
Compact Cars	31.84	32.46	32.48	32.63	33.42	33.34	33.38	33.55	33.75	33.97	34.10	34.22	34.40	34.43	34.37	34.26	34.17	34.11	34.08	34.02	33.93	33.85	0.3%
Midsize Cars	30.11	30.71	30.75	30.95	31.56	31.52	31.63	31.87	32.13	32.37	32.56	32.72	32.92	32.95	32.94	32.90	32.86	32.84	32.83	32.80	32.77	32.74	0.4%
Large Cars	28.32	28.67	28.70	28.95	29.77	29.77	29.91	30.15	30.42	30.71	30.99	31.33	31.74	31.84	31.92	31.98	32.01	32.03	32.08	32.11	32.13	32.17	0.6%
2-Seater Cars	30.94	31.43	31.68	32.13	33.05	33.15	33.53	33.99	34.41	34.80	35.15	35.47	35.79	35.91	36.02	36.11	36.18	36.27	36.35	36.41	36.48	36.53	0.8%
Small Pickup	26.05	26.58	26.53	26.60	26.84	26.74	26.66	26.71	26.83	26.76	26.79	26.87	26.98	27.09	27.19	27.26	27.32	27.38	27.45	27.50	27.56	27.49	0.2%
Large Pickup	19.25	19.39	19.35	19.38	19.49	19.39	19.47	19.64	19.76	19.73	19.83	20.01	20.19	20.37	20.52	20.65	20.78	20.92	21.07	21.24	21.42	21.38	0.5%
Small Van	23.56	24.07	24.04	24.14	24.45	24.37	24.36	24.48	24.66	24.62	24.68	24.80	24.94	25.07	25.20	25.30	25.38	25.47	25.55	25.61	25.67	25.62	0.4%
Large Van	18.81	19.21	19.34	19.60	19.92	19.90	20.07	20.36	20.63	20.63	20.76	20.96	21.18	21.38	21.56	21.71	21.86	22.01	22.18	22.38	22.62	22.61	0.8%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
<b>Methanol Flex</b>																							
Minicompact 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	36.22	36.81	36.88	37.00	37.66	37.59	37.61	37.76	37.91	38.09	38.31	38.42	38.60	38.65	38.57	38.43	38.30	38.23	38.18	38.11	38.01	37.89	0.2%
Compact Cars	30.07	30.69	30.70	30.85	31.67	31.60	31.64	31.81	32.01	32.22	32.35	32.47	32.64	32.66	32.61	32.52	32.43	32.39	32.35	32.28	32.21	32.12	0.3%
Midsize Cars	28.44	29.03	29.06	29.26	29.89	29.84	29.96	30.18	30.44	30.67	30.85	31.01	31.21	31.24	31.24	31.20	31.17	31.15	31.14	31.13	31.11	31.08	0.4%
Large Cars	26.76	27.09	27.12	27.41	28.18	28.19	28.31	28.55	28.81	29.09	29.37	29.70	30.11	30.20	30.29	30.35	30.35	30.38	30.43	30.47	30.50	30.52	0.6%
2-Seater Cars	29.22	29.70	29.95	30.37	31.31	31.40	31.76	32.21	32.61	32.98	33.32	33.62	33.93	34.05	34.16	34.25	34.33	34.41	34.48	34.54	34.61	34.66	0.8%
Small Pickup	24.60	25.11	25.05	25.13	25.35	25.25	25.18	25.23	25.35	25.28	25.33	25.42	25.54	25.64	25.75	25.82	25.89	25.94	26.01	26.06	26.13	26.06	0.3%
Large Pickup	18.19	18.32	18.28	18.31	18.42	18.32	18.39	18.56	18.68	18.66	18.76	18.94	19.11	19.29	19.42	19.55	19.68	19.82	19.97	20.13	20.29	20.26	0.5%
Small Van	22.25	22.74	22.71	22.81	23.11	23.03	23.14	23.31	23.31	23.28	23.35	23.47	23.61	23.75	23.88	23.98	24.07	24.15	24.22	24.28	24.35	24.30	0.4%
Large Van	17.77	18.16	18.27	18.52	18.83	18.81	18.97</																



**Table 57. New Light-Duty Vehicle Fuel Economy (3 of 4)  
(Miles per Gallon)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Liquefied Petroleum Gas (LPG)</b>																							
Minicompact 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	36.77	37.23	37.27	37.33	37.77	37.68	37.73	37.83	37.92	38.06	38.27	38.48	38.73	38.84	38.90	38.83	38.69	38.60	38.53	38.44	38.34	38.21	0.2%
Compact Cars	30.58	31.09	31.12	31.20	31.83	31.73	31.79	31.91	32.06	32.22	32.41	32.60	32.82	32.91	32.98	32.95	32.85	32.79	32.74	32.67	32.58	32.49	0.3%
Midsize Cars	28.95	29.44	29.49	29.62	30.06	29.99	30.12	30.30	30.50	30.68	30.92	31.15	31.41	31.53	31.64	31.66	31.61	31.58	31.56	31.54	31.51	31.47	0.4%
Large Cars	27.25	27.55	27.58	27.81	28.47	28.45	28.58	28.78	28.99	29.22	29.45	29.73	30.06	30.37	30.68	30.84	30.83	30.85	30.90	30.92	30.95	30.96	0.6%
2-Seater Cars	29.78	30.26	30.50	30.94	31.87	31.96	32.33	32.78	33.19	33.56	33.91	34.21	34.52	34.64	34.75	34.84	34.92	35.01	35.07	35.14	35.20	35.26	0.8%
Small Pickup	25.01	25.50	25.44	25.51	25.74	25.63	25.55	25.61	25.73	25.60	25.61	25.66	25.74	25.81	25.87	25.90	25.92	25.94	26.06	26.17	26.27	26.28	0.2%
Large Pickup	18.53	18.66	18.62	18.64	18.75	18.65	18.72	18.89	19.01	18.97	19.06	19.22	19.36	19.52	19.63	19.74	19.83	19.94	20.06	20.19	20.31	20.42	0.4%
Small Van	22.66	23.14	23.10	23.20	23.50	23.42	23.41	23.53	23.71	23.62	23.67	23.75	23.85	23.95	24.05	24.11	24.16	24.21	24.32	24.43	24.51	24.55	0.4%
Large Van	18.10	18.50	18.61	18.87	19.18	19.15	19.32	19.60	19.85	19.85	19.96	20.16	20.34	20.51	20.65	20.78	20.89	21.01	21.14	21.30	21.47	21.62	0.8%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>LPG Bi-Fuel</b>																							
Minicompact 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	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	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	29.41	29.92	29.95	30.03	30.69	30.59	30.65	30.77	30.92	31.07	31.26	31.45	31.66	31.76	31.83	31.80	31.71	31.66	31.60	31.53	31.44	31.35	0.3%
Midsize Cars	27.85	28.34	28.39	28.52	28.99	28.92	29.05	29.23	29.42	29.59	29.83	30.06	30.30	30.43	30.54	30.56	30.51	30.49	30.47	30.45	30.43	30.39	0.4%
Large Cars	26.22	26.52	26.55	26.80	27.44	27.41	27.54	27.74	27.95	28.17	28.40	28.68	29.01	29.31	29.61	29.75	29.74	29.77	29.82	29.85	29.86	29.88	0.6%
2-Seater Cars	28.64	29.12	29.35	29.78	30.71	30.80	31.15	31.59	31.99	32.36	32.68	32.97	33.28	33.41	33.52	33.61	33.69	33.77	33.83	33.89	33.96	34.02	0.8%
Small Pickup	24.07	24.55	24.49	24.56	24.79	24.68	24.61	24.66	24.78	24.66	24.68	24.74	24.81	24.89	24.95	24.99	25.01	25.03	25.15	25.26	25.36	25.37	0.2%
Large Pickup	17.82	17.95	17.91	17.94	18.05	17.95	18.02	18.18	18.30	18.27	18.36	18.51	18.66	18.81	18.92	19.02	19.12	19.23	19.35	19.47	19.59	19.70	0.5%
Small Van	21.80	22.27	22.24	22.33	22.63	22.55	22.54	22.65	22.82	22.75	22.80	22.89	23.00	23.09	23.19	23.26	23.31	23.36	23.47	23.57	23.66	23.70	0.4%
Large Van	17.41	17.80	17.91	18.16	18.46	18.44	18.60	18.86	19.11	19.11	19.24	19.44	19.62	19.79	19.92	20.04	20.15	20.28	20.41	20.56	20.72	20.87	0.8%
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Electric</b>																							
Minicompact 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	36.00	35.40	35.07	34.87	37.92	41.17	45.50	51.02	58.17	57.91	57.62	57.38	57.13	56.92	56.75	56.58	56.44	56.27	56.08	55.97	55.84	55.75	2.0%
Compact Cars	31.29	30.86	30.62	30.47	33.09	35.98	39.78	44.63	50.92	50.74	50.58	50.44	50.30	50.19	50.09	49.95	49.84	49.70	49.56	49.50	49.41	49.34	2.1%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
2-Seater Cars	29.31	28.85	28.60	28.43	30.86	33.53	37.03	41.51	47.33	47.10	46.89	46.73	46.57	46.44	46.32	46.17	46.05	45.92	45.80	45.73	45.66	45.59	2.0%
Small Pickup	27.63	27.18	26.87	26.65	28.99	31.45	34.64	38.71	44.04	43.66	43.31	43.01	42.72	42.43	42.15	41.89	41.63	41.40	41.21	41.04	40.86	40.70	1.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	23.58	23.35	23.12	22.98	25.15	27.32	30.11	33.68	38.35	38.02	37.74	37.48	37.22	36.96	36.71	36.47	36.25	36.03	35.86	35.71	35.56	35.42	1.9%
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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Diesel-Electric Hybrid</b>																							
Minicompact 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	61.81	61.60	61.37	61.55	61.91	61.07	60.53	60.28	60.40	60.63	60.80	60.97	61.17	61.35	61.44	61.43	61.37	61.32	61.63	61.78	61.80	61.55	0.0%
Compact Cars	51.23	51.11	50.96	51.14	51.53	50.80	50.38	50.21	50.35	50.57	50.75	50.91	51.11	51.28	51.38	51.40	51.36	51.34	51.60	51.74	51.78	51.60	0.0%
Midsize Cars	48.10	48.02	47.87	48.03	48.35	47.72	47.45	47.41	47.66	47.99	48.28	48.56	48.84	49.10	49.28	49.40	49.48	49.52	49.83	50.04	50.15	50.05	0.2%
Large Cars	44.56	44.48	44.34	44.46	44.94	44.41	44.23	44.30	44.67	45.09	45.50	45.90	46.26	46.62	46.90	47.15	47.33	47.47	47.90	48.19	48.40	48.41	0.4%
2-Seater Cars	46.71	46.60	46.45	46.61	46.99	46.52	46.49	46.70	47.22	47.79	48.32	48.85	49.32	49.79	50.21	50.59	50.92	51.14	51.65	52.06	52.37	52.45	0.5%
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	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	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	37.03	37.60	37.68	38.03	38.61	38.28	38.18	38.33	38.72	38.57	38.62	38.68	38.73	38.80	38.84	38.85	38.80	38.75	38.93	39.02	39.04	38.90	0.2%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	34.46	35.10	35.22	35.61	36.19	35.93	35.91	36.15	36.63	36.54	36.65	36.77	36.87	37.00	37.11	37.18	37.21	37.20	37.41	37.54	37.60	37.50	0.4%
Large Utility	27.69	28.23	28.37	28.75	29.20	29.01	29.05	29.2															

**Table 57. New Light-Duty Vehicle Fuel Economy (4 of 4)  
(Miles per Gallon)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020		
<b>Fuel Cell Methanol</b>																									
Minicompact 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	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	0.00	0.00	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	55.19	54.42	54.00	53.73	53.42	52.71	52.34	52.06	51.79	51.61	51.45	51.30	51.16	51.04	50.94	50.80	50.69	50.55	50.41	50.34	50.26	50.18	50.18	-0.4%	
Midsize Cars	48.00	47.35	46.99	46.74	46.66	46.07	45.75	45.51	45.28	45.14	45.01	44.90	44.81	44.76	44.71	44.62	44.57	44.48	44.39	44.34	44.27	44.21	44.21	-0.4%	
Large Cars	43.23	42.65	42.35	42.04	41.70	41.22	40.97	40.78	40.61	40.42	40.26	40.10	39.93	39.81	39.70	39.60	39.55	39.47	39.42	39.35	39.30	39.26	39.26	-0.4%	
2-Seater Cars	51.68	50.88	50.43	50.14	49.82	49.12	48.72	48.42	48.13	47.91	47.69	47.53	47.36	47.24	47.11	46.96	46.83	46.70	46.58	46.51	46.44	46.37	46.37	-0.5%	
Small Pickup	48.74	47.93	47.38	47.00	46.80	46.08	45.57	45.15	44.79	44.40	44.05	43.74	43.45	43.15	42.87	42.60	42.34	42.10	41.91	41.74	41.56	41.40	41.40	-0.7%	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Small Van	41.59	41.17	40.77	40.53	40.59	40.03	39.62	39.28	39.01	38.67	38.38	38.12	37.85	37.59	37.34	37.10	36.86	36.65	36.47	36.32	36.16	36.03	36.03	-0.7%	
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	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
<b>Fuel Cell Hydrogen</b>																									
Minicompact 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	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	0.00	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	60.52	59.67	59.21	58.92	58.57	57.80	57.39	57.08	56.79	56.59	56.41	56.25	56.10	55.97	55.86	55.70	55.58	55.43	55.27	55.20	55.10	55.02	55.02	-0.4%	
Midsize Cars	52.63	51.92	51.52	51.25	51.16	50.51	50.16	49.90	49.65	49.49	49.35	49.23	49.14	49.08	49.02	48.93	48.87	48.78	48.67	48.61	48.54	48.48	48.48	48.48	-0.4%
Large Cars	47.41	46.76	46.44	46.10	45.72	45.19	44.92	44.71	44.52	44.33	44.14	43.97	43.78	43.66	43.53	43.42	43.36	43.28	43.23	43.15	43.09	43.05	43.05	-0.4%	
2-Seater Cars	56.67	55.79	55.30	54.98	54.62	53.86	53.43	53.09	52.78	52.53	52.30	52.11	51.93	51.79	51.66	51.49	51.35	51.21	51.08	51.00	50.92	50.84	50.84	-0.5%	
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	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	0.00	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	45.60	45.14	44.71	44.44	44.51	43.89	43.44	43.07	42.77	42.40	42.09	41.79	41.51	41.22	40.94	40.68	40.42	40.18	39.99	39.83	39.65	39.50	39.50	-0.7%	
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	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
<b>Fuel Cell Gasoline</b>																									
Minicompact 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	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	0.00	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	51.72	50.99	50.60	50.35	50.05	49.39	49.04	48.78	48.53	48.36	48.21	48.07	47.94	47.83	47.73	47.60	47.50	47.37	47.23	47.17	47.09	47.02	47.02	-0.4%	
Midsize Cars	44.97	44.37	44.03	43.80	43.72	43.17	42.87	42.65	42.43	42.29	42.18	42.07	41.99	41.94	41.89	41.81	41.76	41.68	41.59	41.54	41.48	41.43	41.43	-0.4%	
Large Cars	40.51	39.96	39.69	39.40	39.07	38.62	38.39	38.21	38.05	37.88	37.72	37.57	37.41	37.31	37.20	37.11	37.06	36.99	36.94	36.88	36.83	36.79	36.79	-0.4%	
2-Seater Cars	48.43	47.68	47.26	46.98	46.68	46.03	45.66	45.37	45.10	44.89	44.69	44.54	44.38	44.26	44.14	44.00	43.88	43.76	43.65	43.59	43.51	43.45	43.45	-0.5%	
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	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	0.00	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	38.97	38.58	38.21	37.98	38.04	37.50	37.12	36.81	36.55	36.23	35.97	35.72	35.47	35.22	34.98	34.76	34.54	34.34	34.18	34.03	33.89	33.76	33.76	-0.7%	
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	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	

N/A = Not applicable.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1997 derived using: Energy and Environmental Analysis Inc., Updates to the Fuels Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports for Auto Manufacturers, 1998; and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projection: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 58. New Light-Duty Vehicle Prices ( 1 of 4)  
(Thousands 1990 Dollars)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Gasoline</b>																							
Minicompact Cars	28.1	28.3	28.4	28.4	28.5	28.7	28.7	28.7	28.8	28.8	28.8	28.7	28.8	28.8	28.8	28.9	29.0	29.0	29.1	29.1	29.2	29.2	0.2%
Subcompact Cars	13.0	13.3	13.4	13.5	13.6	13.8	13.9	13.9	13.9	14.0	14.0	14.0	14.1	14.1	14.2	14.2	14.3	14.3	14.4	14.5	14.5	14.6	0.5%
Compact Cars	16.4	16.7	16.9	16.9	17.0	17.3	17.3	17.3	17.4	17.4	17.5	17.5	17.5	17.6	17.6	17.7	17.8	17.8	17.9	17.9	18.0	18.0	0.4%
Midsized Cars	18.7	19.0	19.1	19.2	19.2	19.5	19.5	19.6	19.6	19.6	19.6	19.6	19.7	19.7	19.7	19.7	19.8	19.8	19.8	19.9	20.0	20.0	0.3%
Large Cars	22.3	22.6	22.7	22.8	22.9	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.4	23.4	0.2%
2-Seater Cars	20.7	20.9	21.1	21.1	21.1	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.5	21.6	21.6	21.7	21.7	21.8	21.8	21.9	21.9	22.0	0.3%
Small Pickup	13.1	13.2	13.3	13.4	13.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.8	13.8	13.8	13.9	13.9	14.0	14.0	14.1	14.2	0.4%
Large Pickup	16.1	16.1	16.3	16.3	16.3	16.6	16.6	16.6	16.6	16.5	16.5	16.5	16.5	16.4	16.4	16.4	16.5	16.5	16.5	16.6	16.6	16.7	0.2%
Small Van	18.7	18.9	19.1	19.1	19.2	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.6	19.6	19.7	19.7	19.8	19.9	0.3%
Large Van	16.5	16.5	16.7	16.7	16.8	17.1	17.0	17.0	17.0	17.0	16.9	16.9	16.9	16.9	16.8	16.8	16.8	16.8	16.9	16.9	17.0	17.0	0.2%
Small Utility	19.9	20.1	20.2	20.2	20.3	20.6	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.6	20.6	20.7	20.7	20.8	20.8	20.9	0.2%
Large Utility	18.7	18.8	18.9	19.0	19.0	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.1	19.1	19.1	19.2	19.2	19.2	19.3	19.3	19.4	0.2%
<b>Turbo Direct Injection Diesel</b>																							
Minicompact 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	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	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	16.6	16.8	17.0	17.0	17.8	18.1	18.1	18.1	18.2	18.2	18.3	18.3	18.3	18.4	18.4	18.5	18.6	18.6	18.7	18.7	18.8	18.8	0.6%
Midsized Cars	19.7	20.0	20.2	20.2	20.1	20.2	20.1	20.2	20.1	20.0	20.0	20.0	20.0	20.0	20.1	20.1	20.2	20.2	20.2	20.3	20.4	20.4	0.2%
Large Cars	23.1	23.4	23.5	23.6	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.1	24.1	24.2	24.2	0.2%
2-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	14.6	14.8	14.9	15.0	15.0	15.1	15.0	15.2	15.2	15.2	15.1	15.1	15.1	15.1	15.1	15.1	15.2	15.2	15.3	15.4	15.5	15.5	0.3%
Large Pickup	18.6	18.6	18.8	18.8	18.7	18.8	18.6	19.1	19.1	19.0	19.0	19.0	18.9	18.9	18.9	18.9	18.9	18.9	19.0	19.0	19.1	19.1	0.1%
Small Van	20.5	20.8	20.9	21.0	21.0	21.1	21.0	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.3	21.3	21.4	21.4	21.5	21.5	21.6	21.7	0.2%
Large Van	18.9	18.9	19.1	19.1	19.2	19.5	19.4	19.4	19.4	19.3	19.3	19.3	19.2	19.2	19.2	19.1	19.2	19.2	19.2	19.2	19.3	19.3	0.1%
Small Utility	22.1	22.3	22.4	22.3	22.2	22.3	22.1	22.3	22.2	22.1	22.0	22.0	22.0	22.0	22.1	22.1	22.2	22.2	22.2	22.3	22.4	22.4	0.1%
Large Utility	24.4	24.5	24.6	24.7	24.6	24.7	24.5	25.0	25.0	25.0	24.9	24.9	24.9	24.8	24.8	24.8	24.9	24.9	24.9	25.0	25.0	25.1	0.1%
<b>Methanol</b>																							
Minicompact 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	13.4	13.6	13.8	13.9	13.9	14.2	14.2	14.3	14.3	14.3	14.4	14.4	14.4	14.5	14.5	14.6	14.7	14.7	14.8	14.8	14.9	15.0	0.5%
Compact Cars	16.9	17.2	17.4	17.4	17.5	17.8	17.8	17.9	17.9	17.8	17.7	17.6	17.6	17.9	18.0	18.0	18.1	18.1	18.2	18.2	18.3	18.4	0.4%
Midsized Cars	19.6	19.9	20.1	20.1	20.2	20.5	20.5	20.5	20.5	20.5	20.4	20.3	20.2	20.2	20.1	20.1	20.1	20.2	20.2	20.3	20.4	20.4	0.2%
Large Cars	22.7	23.0	23.1	23.2	23.3	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.7	23.7	23.8	0.2%
2-Seater Cars	21.0	21.3	21.4	21.5	21.5	21.8	21.8	21.8	21.8	21.9	21.9	21.9	21.9	21.9	22.0	22.0	22.1	22.2	22.2	22.3	22.3	22.4	0.3%
Small Pickup	14.5	14.7	14.8	14.9	14.9	15.2	15.1	15.1	15.2	15.2	15.2	15.2	15.2	15.2	15.3	15.3	15.4	15.4	15.5	15.5	15.6	15.7	0.3%
Large Pickup	18.0	18.1	18.2	18.2	18.3	18.5	18.5	18.5	18.5	18.5	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.5	18.6	18.6	0.1%
Small Van	20.4	20.7	20.8	20.9	20.9	21.2	21.1	21.1	21.1	21.2	21.2	21.2	21.2	21.2	21.2	21.3	21.3	21.4	21.4	21.5	21.6	21.6	0.3%
Large Van	18.3	18.4	18.5	18.6	18.6	18.9	18.9	18.8	18.8	18.8	18.8	18.7	18.7	18.7	18.6	18.7	18.7	18.7	18.7	18.8	18.8	18.8	0.1%
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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Methanol Flex</b>																							
Minicompact 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	13.4	13.7	13.8	13.9	14.0	14.2	14.3	14.3	14.3	14.4	14.4	14.4	14.5	14.5	14.6	14.6	14.7	14.7	14.8	14.9	14.9	15.0	0.5%
Compact Cars	16.8	17.1	17.3	17.3	17.4	17.7	17.7	17.8	17.8	17.8	17.9	17.9	17.9	18.0	18.0	18.1	18.1	18.2	18.2	18.3	18.3	18.4	0.4%
Midsized Cars	19.1	19.4	19.5	19.6	19.7	19.9	20.0	20.0	20.0	20.0	20.0	20.0	20.1	20.1	20.1	20.1	20.2	19.8	19.9	20.0	20.0	20.1	0.2%
Large Cars	22.7	23.0	23.1	23.2	23.3	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.7	23.7	23.8	23.8	0.2%
2-Seater Cars	21.1	21.3	21.5	21.5	21.6	21.8	21.8	21.9	21.9	21.9	21.9	21.9	22.0	22.0	22.0	22.1	22.1	22.2	22.2	22.3	22.4	22.4	0.3%
Small Pickup	14.5	14.5	14.6	14.5	14.5	14.8	14.8	14.8	14.8	14.9	15.0	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.6	15.7	15.7	15.8	0.4%
Large Pickup	18.2	18.2	18.2	18.2	18.2	18.5	18.5	18.5	18.5	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.7	18.7	18.8	0.1%
Small Van	20.5	20.8	21.0	21.0	21.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.4	21.4	21.5	21.5	21.6	21.6	21.7	21.8	0.3%
Large Van	18.5	18.5	18.7	18.7	18.8	19.1	19.0	19.0	19.0	19.0	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.9	18.9	18.9	19.0	19.0	0.1%
Small Utility	21.3	21.3	21.4	21.3	21.3	21.6	21.6	21.5	21.5	21.6	21.6	21.6	21.6	21.6	21.6	21.7	21.7	21.8	21.9	22.0	22.1	22.2	0.2%
Large Utility	24.0	24.1	24.2	24.3	24.3	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.5	24.5	24.5	24.5	24.5	24.6	24.6	24.6	24.7	24.8	0.1%





**Table 58. New Light-Duty Vehicle Prices (3 of 4)  
(Thousands 1990 Dollars)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
<b>Liquefied Petroleum Gas (LPG)</b>																							
Minicompact 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	15.1	15.4	15.5	15.6	15.7	15.9	16.0	16.0	16.0	16.1	16.1	16.2	16.2	16.3	16.3	16.4	16.4	16.5	16.5	16.6	16.7	16.7	0.5%
Compact Cars	19.1	19.3	19.5	19.6	19.6	19.9	19.9	20.0	20.0	20.0	20.1	20.1	20.2	20.2	20.3	20.3	20.4	20.4	20.5	20.6	20.6	20.7	0.4%
Midsize Cars	22.5	22.8	23.0	23.0	23.0	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.6	23.6	23.7	23.7	23.8	23.9	0.3%
Large Cars	23.8	24.1	24.2	24.3	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.8	24.8	24.9	0.2%
2-Seater Cars	21.6	21.8	22.0	22.0	22.1	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.5	22.5	22.5	22.6	22.7	22.7	22.7	22.8	22.9	22.9	0.3%
Small Pickup	17.4	17.6	17.7	17.8	17.8	18.0	18.0	18.0	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.2	18.2	18.3	18.3	18.4	18.5	18.5	0.3%
Large Pickup	21.6	21.7	21.8	21.9	21.9	22.2	22.2	22.1	22.1	22.1	22.1	22.1	22.2	22.0	22.0	22.0	22.0	22.0	22.0	22.1	22.2	22.2	0.1%
Small Van	23.3	23.6	23.7	23.7	23.8	24.1	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.1	24.1	24.2	24.2	24.3	24.4	24.4	24.5	0.2%
Large Van	21.9	22.0	22.1	22.2	22.2	22.5	22.5	22.5	22.5	22.4	22.4	22.4	22.3	22.3	22.3	22.2	22.3	22.3	22.3	22.3	22.4	22.4	0.1%
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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>LPG Bi-Fuel</b>																							
Minicompact 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	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	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	20.1	20.3	20.5	20.6	20.6	20.9	20.9	21.0	21.0	21.0	21.1	21.1	21.2	21.2	21.3	21.3	21.4	21.4	21.5	21.6	21.6	21.7	0.4%
Midsize Cars	23.5	23.8	24.0	24.0	24.0	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.5	24.5	24.5	24.6	24.6	24.7	24.7	24.8	24.9	0.3%
Large Cars	24.8	25.1	25.2	25.3	25.4	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.8	25.8	25.9	0.2%
2-Seater Cars	22.6	22.8	23.0	23.0	23.1	23.3	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.6	23.7	23.7	23.8	23.8	23.9	23.9	0.3%
Small Pickup	18.4	18.6	18.7	18.8	18.8	19.0	19.0	19.0	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.2	19.2	19.3	19.3	19.4	19.5	19.5	0.3%
Large Pickup	22.6	22.7	22.8	22.9	22.9	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.2	23.2	0.1%
Small Van	24.3	24.6	24.7	24.7	24.8	25.1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.1	25.1	25.2	25.2	25.3	25.4	25.4	25.5	0.2%
Large Van	22.9	23.0	23.1	23.2	23.2	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.3	23.3	23.3	23.2	23.3	23.3	23.3	23.3	23.4	23.4	0.1%
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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Electric</b>																							
Minicompact 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	28.0	28.0	28.0	27.8	28.2	28.9	29.2	29.5	29.8	29.5	29.3	29.1	28.9	28.7	28.5	28.4	28.2	28.3	28.4	28.4	28.5	28.5	0.1%
Compact Cars	32.7	32.7	32.7	32.4	32.8	33.6	33.9	34.3	34.6	34.3	34.0	33.7	33.5	33.2	33.1	32.9	32.7	32.8	32.8	32.9	32.9	33.0	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
2-Seater Cars	33.7	33.7	33.6	33.4	33.8	34.6	35.0	35.4	35.7	35.4	35.1	34.8	34.6	34.3	34.1	34.0	33.8	33.8	33.9	33.9	34.0	34.0	-1.5%
Small Pickup	31.4	31.4	31.3	31.1	31.5	32.3	32.8	33.2	33.6	33.3	33.0	32.7	32.5	32.3	32.1	31.9	31.8	31.8	31.9	32.0	32.1	32.1	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	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	38.4	38.3	38.2	37.9	38.4	39.2	39.7	40.1	40.6	40.3	39.9	39.6	39.3	39.0	38.8	38.6	38.4	38.5	38.6	38.7	38.8	38.9	0.1%
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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Diesel-Electric Hybrid</b>																							
Minicompact 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	39.5	39.8	39.9	39.9	25.3	25.4	25.3	25.3	25.2	25.2	25.1	25.1	25.0	25.0	25.0	25.1	25.1	25.1	25.2	25.3	25.4	25.4	-2.0%
Compact Cars	46.4	46.7	46.8	46.8	29.7	29.9	29.8	29.7	29.6	29.5	29.5	29.4	29.3	29.3	29.3	29.3	29.4	29.5	29.5	29.6	29.7	29.7	-2.0%
Midsize Cars	52.1	52.4	52.5	52.4	32.9	33.0	32.9	32.7	32.6	32.5	32.4	32.3	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.4	-2.1%
Large Cars	56.5	56.7	56.8	56.7	34.8	34.9	34.7	34.6	34.4	34.2	34.1	33.9	33.8	33.7	33.7	33.6	33.6	33.6	33.7	33.8	33.8	33.9	-2.3%
2-Seater Cars	48.7	49.0	49.1	49.1	30.6	30.7	30.6	30.4	30.3	30.2	30.0	29.9	29.8	29.8	29.7	29.7	29.6	29.7	29.7	29.8	29.9	29.9	-2.2%
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	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	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	56.9	57.1	57.3	57.2	34.5	34.6	34.4	34.2	34.1	33.9	33.8	33.6	33.5	33.4	33.4	33.3	33.3	33.4	33.4	33.5	33.5	33.6	-2.4%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	59.5	59.7	59.8	59.7	36.2	36.3	36.1	35.9	35.8	35.6	35.5	35.3	35.2	35.1	35.0	34.9	34.9	34.9	35.0	35.1	35.1	35.2	-2.4%
Large Utility	67.8	67.8	67.9	67.9	39.2	39.3	39.0	38.8	38.5	38.3	38.1	37.9	37.7	37.6	37.5	37.4	37.3	37.4	37.4	37.5	37.5	37.6	-2.6%

**Table 58. New Light-Duty Vehicle Prices (4 of 4)  
(Thousands 1990 Dollars)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Fuel Cell Methanol																							
Minicompact 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	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	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	74.8	68.2	62.5	57.6	53.3	49.6	46.4	43.7	41.4	39.4	37.7	36.3	35.1	34.0	33.1	32.3	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	84.2	76.7	70.2	64.5	59.6	55.4	51.8	48.6	46.0	43.7	41.8	40.1	38.7	37.5	36.4	35.5	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	92.0	83.5	76.2	70.0	64.5	59.8	55.8	52.3	49.4	46.9	44.7	42.8	41.2	39.8	38.6	37.6	N/A
2-Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	78.9	71.9	65.8	60.5	55.9	52.0	48.6	45.6	43.1	41.0	39.2	37.6	36.3	35.1	34.1	33.2	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	79.7	72.4	65.9	60.4	55.6	51.3	47.7	44.6	42.0	39.7	37.7	36.0	34.5	33.2	32.1	31.2	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	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	93.6	85.0	77.6	71.3	65.7	60.9	56.7	53.1	50.1	47.5	45.2	43.2	41.5	40.1	38.8	37.7	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	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	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	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																							
Minicompact 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	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	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	65.4	60.8	56.9	53.5	50.5	47.9	45.7	43.9	42.3	40.9	39.7	38.7	37.9	37.2	36.5	36.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	72.8	67.5	63.0	59.1	55.7	52.7	50.2	48.0	46.2	44.7	43.3	42.2	41.2	40.4	39.7	39.0	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	78.6	72.7	67.6	63.3	59.5	56.2	53.5	51.0	49.0	47.3	45.7	44.5	43.4	42.4	41.6	40.9	N/A
2-Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	68.5	63.6	59.4	55.7	52.5	49.7	47.4	45.3	43.6	42.2	40.9	39.8	38.9	38.1	37.4	36.8	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	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	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	79.5	73.6	68.5	64.0	60.2	56.8	53.9	51.4	49.3	47.5	46.0	44.6	43.5	42.5	41.6	40.8	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	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	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	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																							
Minicompact 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	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	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	82.1	74.5	67.9	62.2	57.3	53.1	49.4	46.3	43.6	41.3	39.4	37.7	36.3	35.0	34.0	33.0	N/A
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	92.6	83.9	76.4	69.9	64.2	59.3	55.2	51.6	48.5	45.9	43.6	41.7	40.0	38.6	37.4	36.4	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	101.3	91.5	83.1	75.9	69.7	64.2	59.6	55.6	52.2	49.3	46.7	44.6	42.7	41.1	39.8	38.6	N/A
2-Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	86.8	78.7	71.6	65.6	60.3	55.7	51.8	48.4	45.5	43.1	40.9	39.1	37.6	36.2	35.1	34.1	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	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	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	103.2	93.4	84.8	77.5	71.1	65.5	60.7	56.6	53.1	50.0	47.4	45.1	43.2	41.5	40.0	38.8	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A

N/A = Not applicable.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 derived using: Energy and Environmental Analysis Inc., Updates to the Fuels Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projection: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 59. New Light-Duty Vehicle Range (1 of 4)  
(Miles)**

1998-

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Gasoline</b>																							
Minicompact Cars	468	478	480	486	500	500	505	511	517	522	527	529	531	533	534	534	535	536	536	537	537	537	0.6%
Subcompact Cars	463	472	473	476	485	485	486	488	491	493	496	498	500	500	500	498	497	496	495	495	494	492	0.3%
Compact Cars	460	470	471	474	487	487	488	491	494	498	500	503	507	507	507	506	505	504	504	503	502	501	0.4%
Midsized Cars	458	467	468	472	482	482	484	487	492	496	499	503	507	508	508	508	507	507	507	507	507	507	0.5%
Large Cars	501	508	509	515	529	529	532	537	542	548	553	559	567	569	571	572	572	572	573	574	575	575	0.6%
2-Seater Cars	463	471	473	477	489	489	492	497	501	505	509	511	514	514	515	515	515	515	515	515	515	514	0.5%
Small Pickup	411	418	417	418	421	419	418	418	419	417	417	419	421	423	425	426	427	428	430	431	434	432	0.2%
Large Pickup	398	401	401	401	404	402	403	407	409	409	411	415	419	423	426	429	432	435	438	441	445	444	0.5%
Small Van	468	478	479	481	486	486	487	489	492	489	489	491	494	496	498	500	501	504	506	510	513	512	0.4%
Large Van	436	445	448	454	462	462	466	472	478	479	482	488	493	498	502	506	509	513	517	522	527	527	0.9%
Small Utility	415	425	425	428	434	433	433	436	440	439	440	443	446	449	451	454	455	457	459	461	464	464	0.5%
Large Utility	402	410	412	416	422	422	425	431	437	437	441	447	452	456	459	461	464	467	471	474	478	478	0.8%
<b>Turbo Direct Injection Diesel</b>																							
Minicompact 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	598	612	612	615	632	631	632	635	639	643	646	648	652	652	651	649	648	647	646	645	643	641	0.3%
Midsized Cars	622	635	636	641	655	654	657	662	667	672	676	680	684	685	685	684	683	683	683	683	682	682	0.4%
Large Cars	691	700	701	709	729	729	732	739	745	753	760	769	779	782	784	785	785	786	787	789	789	790	0.6%
2-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	555	567	566	567	573	571	569	570	573	571	572	574	577	580	582	584	585	587	588	589	591	589	0.3%
Large Pickup	542	546	545	546	549	546	549	553	557	556	560	565	570	575	579	583	587	591	596	601	606	605	0.5%
Small Van	590	603	602	605	613	611	614	618	618	620	623	627	630	634	637	639	641	643	645	647	645	645	0.4%
Large Van	588	601	605	613	624	623	629	638	646	646	651	659	666	672	678	683	687	693	698	705	712	712	0.9%
Small Utility	548	561	561	565	572	571	571	575	580	580	582	586	590	594	597	600	603	605	607	609	612	611	0.5%
Large Utility	638	651	654	660	669	670	675	685	693	695	701	709	717	723	728	733	737	742	748	753	759	758	0.8%
<b>Methanol</b>																							
Minicompact 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	292	298	298	299	305	305	305	306	307	309	310	311	313	313	312	311	310	310	309	309	308	307	0.2%
Compact Cars	279	285	286	287	295	294	295	296	298	300	301	303	304	304	304	303	302	302	301	301	300	299	0.3%
Midsized Cars	290	297	297	299	306	305	306	309	311	314	316	317	319	320	320	319	319	319	319	319	318	318	0.4%
Large Cars	323	327	327	331	340	340	342	345	348	351	355	359	364	365	366	366	366	367	367	368	368	369	0.6%
2-Seater Cars	280	285	287	291	300	301	305	309	313	316	320	322	325	327	328	329	329	330	331	331	332	333	0.8%
Small Pickup	259	265	264	265	267	266	266	266	267	267	267	268	269	270	272	272	273	274	274	275	276	275	0.3%
Large Pickup	253	255	254	255	256	255	256	258	260	260	261	264	266	269	270	272	274	276	278	280	283	282	0.5%
Small Van	275	281	281	282	286	285	285	286	289	288	289	291	292	294	296	297	298	299	300	301	302	301	0.4%
Large Van	275	281	282	286	291	291	293	298	301	302	304	307	311	314	316	319	321	323	326	329	332	332	0.9%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
<b>Methanol Flex</b>																							
Minicompact 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	264	269	270	271	276	276	276	277	278	279	281	282	283	283	283	282	281	280	280	279	279	278	0.2%
Compact Cars	253	258	258	260	267	266	267	268	270	272	273	274	275	275	274	273	273	273	272	272	271	271	0.3%
Midsized Cars	263	268	269	271	276	276	277	279	282	284	285	287	289	289	289	288	288	288	288	288	288	288	0.4%
Large Cars	292	296	296	299	308	308	309	312	315	318	321	325	329	330	331	331	332	332	332	333	333	334	0.6%
2-Seater Cars	253	258	260	263	272	273	276	279	283	286	289	292	294	296	297	297	298	299	299	300	300	301	0.8%
Small Pickup	234	239	239	240	242	241	240	241	242	241	242	243	244	245	246	246	247	248	248	249	249	249	0.3%
Large Pickup	229	231	230	230	232	231	232	234	235	235	236	239	241	243	245	246	248	250	252	254	256	255	0.5%
Small Van	249	255	254	255	259	258	259	261	261	262	263	265	266	268	269	270	271	272	272	273	273	273	0.4%
Large Van	248	254	256	259	263	263	265	269	273	273	275	278	281	284	286	288	290	292	295	298	300	300	0.9%
Small Utility	231	237	237	238	242	241	241	243	245	245	246	247	249	251	252	254	255	255	256	257	258	258	0.5%
Large Utility	269	275	276	279	283	283	285	289	293	293	296	300	303	305	307	309	311	313	316	318	320	320	0.8%



**Table 59. New Light-Duty Vehicle Range (3 of 4)  
(Miles)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Liquefied Petroleum Gas (LPG)</b>																							
Minicompact 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	394	401	402	404	411	411	411	413	414	416	419	420	422	422	420	419	418	417	417	417	416	414	0.2%
Compact Cars	377	385	385	387	398	397	398	400	402	405	407	408	410	411	410	409	408	407	407	406	405	404	0.3%
Midsize Cars	392	400	401	403	412	412	413	417	420	423	426	428	431	431	431	431	430	430	430	430	430	429	0.4%
Large Cars	435	441	441	446	459	459	461	465	469	474	478	484	491	492	494	494	494	495	496	496	497	497	0.6%
2-Seater Cars	378	384	387	393	405	406	411	417	422	427	431	435	439	441	442	443	445	445	446	447	448	449	0.8%
Small Pickup	349	357	356	357	361	359	358	359	361	360	360	362	363	365	366	368	369	369	370	371	372	371	0.3%
Large Pickup	341	344	343	344	346	344	345	348	351	350	352	356	359	362	365	367	370	372	375	378	381	381	0.5%
Small Van	371	380	379	381	386	385	385	386	389	389	390	392	395	397	399	401	402	404	405	406	407	406	0.4%
Large Van	370	379	381	386	393	392	396	401	407	407	410	415	419	423	427	430	433	436	440	444	448	448	0.9%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
<b>LPG Bi-Fuel</b>																							
Minicompact 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	355	362	363	364	374	374	374	376	379	381	383	384	386	386	386	385	384	383	383	382	381	380	0.3%
Midsize Cars	369	377	377	380	388	388	389	392	395	398	401	403	405	406	406	405	405	405	405	404	404	404	0.4%
Large Cars	410	415	415	420	432	432	434	438	442	446	450	455	462	463	465	465	465	466	467	467	468	468	0.6%
2-Seater Cars	355	361	364	370	381	382	387	392	397	402	406	409	413	415	416	417	418	419	420	421	422	422	0.8%
Small Pickup	329	336	335	336	339	338	337	338	339	339	339	340	342	343	345	346	347	348	348	349	350	349	0.3%
Large Pickup	321	324	323	323	325	324	325	328	330	330	332	335	338	341	343	346	348	350	353	356	359	358	0.5%
Small Van	350	357	357	358	363	362	362	364	366	366	367	369	371	374	376	377	379	380	381	382	383	383	0.4%
Large Van	349	356	359	364	370	369	372	378	383	383	386	390	394	398	402	405	407	410	414	418	422	422	0.9%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
<b>Electric</b>																							
Minicompact 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	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	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
2-Seater Cars	80	80	80	80	80	80	80	80	80	80	80	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	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	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	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
<b>Diesel-Electric Hybrid</b>																							
Minicompact 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	603	614	615	618	629	629	629	631	634	637	640	642	645	646	645	642	640	639	638	637	636	634	0.2%
Compact Cars	576	589	589	592	608	608	608	612	615	619	622	624	628	628	627	625	624	623	622	621	619	618	0.3%
Midsize Cars	599	612	613	617	631	630	632	637	642	647	651	654	659	659	659	659	658	658	657	657	657	656	0.4%
Large Cars	666	674	675	683	702	702	705	711	718	725	732	740	750	753	755	756	756	757	758	759	760	761	0.6%
2-Seater Cars	578	587	592	601	620	622	629	637	645	653	660	665	672	674	676	678	680	681	683	684	685	686	0.8%
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	568	581	580	582	590	589	588	591	595	595	597	600	604	607	610	613	615	617	619	621	623	622	0.4%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	527	540	540	544	551	550	550	553	558	558	560	564	568	572	575	578	581	583	585	587	589	589	0.5%
Large Utility	614	627	629	636	645	645	650	659	668	669	675	683	691	697	701	706	710	715	720	725	731	730	0.8%

**Table 59. New Light-Duty Vehicle Range (4 of 4)  
(Miles)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
<b>Fuel Cell Methanol</b>																							
Minicompact 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	443	453	453	456	468	467	468	470	473	476	478	480	483	483	482	481	480	479	478	478	476	475	0.3%
Midsized Cars	461	471	471	475	485	485	486	490	494	498	501	503	507	507	507	507	506	506	506	506	505	505	0.4%
Large Cars	512	519	519	525	540	540	542	547	552	558	563	569	577	579	581	582	582	582	583	584	585	585	0.6%
2-Seater Cars	444	452	456	462	477	478	484	490	497	502	507	512	517	518	520	522	523	524	525	526	527	528	0.8%
Small Pickup	411	420	419	420	424	423	421	422	424	423	424	425	427	429	431	432	434	434	436	437	438	437	0.3%
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	437	447	446	448	454	453	452	455	458	457	459	461	464	467	470	472	473	475	476	478	479	478	0.4%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
<b>Fuel Cell Hydrogen</b>																							
Minicompact 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	443	453	453	456	468	467	468	470	473	476	478	480	483	483	482	481	480	479	478	478	476	475	0.3%
Midsized Cars	461	471	471	475	485	485	486	490	494	498	501	503	507	507	507	507	506	506	506	506	505	505	0.4%
Large Cars	512	519	519	525	540	540	542	547	552	558	563	569	577	579	581	582	582	582	583	584	585	585	0.6%
2-Seater Cars	444	452	456	462	477	478	484	490	497	502	507	512	517	518	520	522	523	524	525	526	527	528	0.8%
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	437	447	446	448	454	453	452	455	458	457	459	461	464	467	470	472	473	475	476	478	479	478	0.4%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
<b>Fuel Cell Gasoline</b>																							
Minicompact 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	443	453	453	456	468	467	468	470	473	476	478	480	483	483	482	481	480	479	478	478	476	475	0.3%
Midsized Cars	461	471	471	475	485	485	486	490	494	498	501	503	507	507	507	507	506	506	506	506	505	505	0.4%
Large Cars	512	519	519	525	540	540	542	547	552	558	563	569	577	579	581	582	582	582	583	584	585	585	0.6%
2-Seater Cars	444	452	456	462	477	478	484	490	497	502	507	512	517	518	520	522	523	524	525	526	527	528	0.8%
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	437	447	446	448	454	453	452	455	458	457	459	461	464	467	470	472	473	475	476	478	479	478	0.4%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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

N/A = Not applicable.

Note: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 derived using: Energy and Environmental Analysis Inc., Updates to the Fuels Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and and EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A. Projection: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 60. Electric Power Projections for EMM Region (1 of 3)**  
**01 - East Central Area Reliability Coordination Agreement**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	83.61	83.61	83.61	83.61	82.87	82.06	81.50	81.28	80.39	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	-0.2%
Other Fossil Steam 2/	3.56	3.56	3.70	3.70	3.70	3.70	3.70	3.70	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	0.0%
Combined Cycle	0.34	0.34	1.39	1.39	1.39	1.39	1.39	1.39	1.53	1.53	2.67	3.42	3.80	4.16	4.37	4.64	5.10	5.86	6.91	7.90	9.42	10.22	16.8%
Combustion Turbine/Diesel	9.05	9.63	10.11	11.87	14.09	14.44	17.63	18.24	20.89	23.04	25.09	25.83	27.75	27.96	28.63	29.05	29.56	30.80	32.38	34.33	35.04	36.36	6.5%
Nuclear Power	7.59	7.65	7.65	7.65	7.65	7.65	7.65	7.65	6.89	6.89	6.89	6.89	6.89	6.89	6.89	5.89	4.79	2.81	0.82	0.82	0.82	0.82	-9.6%
Pumped Storage/Other 3/	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	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	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 4/	1.56	1.57	1.60	1.60	1.65	1.65	1.66	1.66	1.67	1.67	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	0.4%
<b>Total Capability</b>	<b>108.99</b>	<b>109.64</b>	<b>111.34</b>	<b>113.10</b>	<b>114.63</b>	<b>114.18</b>	<b>116.80</b>	<b>117.20</b>	<b>118.18</b>	<b>119.82</b>	<b>123.00</b>	<b>124.51</b>	<b>126.81</b>	<b>127.38</b>	<b>128.26</b>	<b>127.95</b>	<b>127.82</b>	<b>127.85</b>	<b>128.49</b>	<b>131.43</b>	<b>133.67</b>	<b>135.79</b>	<b>1.0%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	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	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	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	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	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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.00</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
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	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	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	0.15	0.15	1.28	2.03	2.41	2.77	2.98	3.25	3.71	4.48	5.53	6.51	8.03	8.84	8.84	N/A
Combustion Turbine/Diesel	0.00	0.58	1.06	2.92	5.54	5.90	9.16	9.78	12.45	14.60	16.65	17.40	19.32	19.52	20.20	20.61	21.13	22.36	23.94	25.90	26.61	27.92	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	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	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	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 4/	0.00	0.00	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.58</b>	<b>1.09</b>	<b>2.95</b>	<b>5.57</b>	<b>5.93</b>	<b>9.21</b>	<b>9.83</b>	<b>12.65</b>	<b>14.81</b>	<b>17.99</b>	<b>19.50</b>	<b>21.80</b>	<b>22.37</b>	<b>23.25</b>	<b>23.94</b>	<b>24.91</b>	<b>26.92</b>	<b>29.55</b>	<b>32.49</b>	<b>34.73</b>	<b>36.85</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.58</b>	<b>2.14</b>	<b>4.00</b>	<b>6.62</b>	<b>6.98</b>	<b>10.26</b>	<b>10.87</b>	<b>13.70</b>	<b>15.86</b>	<b>19.04</b>	<b>20.55</b>	<b>22.85</b>	<b>23.42</b>	<b>24.30</b>	<b>24.99</b>	<b>25.96</b>	<b>27.97</b>	<b>30.60</b>	<b>33.54</b>	<b>35.78</b>	<b>37.90</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.10</b>	<b>1.73</b>	<b>3.04</b>	<b>3.68</b>	<b>3.91</b>	<b>5.76</b>	<b>6.27</b>	<b>6.27</b>	<b>6.27</b>	<b>6.27</b>	<b>6.27</b>	<b>6.27</b>	<b>7.27</b>	<b>8.37</b>	<b>10.35</b>	<b>12.34</b>	<b>12.34</b>	<b>12.34</b>	<b>12.34</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
Coal	1.61	1.81	1.81	1.81	1.82	1.82	1.82	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.5%
Petroleum	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.1%
Natural Gas	2.44	3.19	3.35	3.36	3.37	3.37	3.38	3.39	3.39	3.40	3.41	3.42	3.43	3.43	3.44	3.45	3.47	3.48	3.49	3.50	3.51	3.52	1.7%
Other Gaseous Fuels	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.7%
Renewables	0.42	0.42	0.43	0.43	0.44	0.44	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.50	0.50	0.51	0.51	0.52	0.52	1.0%
Other	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	3.0%
<b>Total</b>	<b>4.54</b>	<b>5.52</b>	<b>5.69</b>	<b>5.71</b>	<b>5.72</b>	<b>5.73</b>	<b>5.75</b>	<b>5.76</b>	<b>5.77</b>	<b>5.79</b>	<b>5.80</b>	<b>5.81</b>	<b>5.82</b>	<b>5.84</b>	<b>5.85</b>	<b>5.87</b>	<b>5.89</b>	<b>5.91</b>	<b>5.92</b>	<b>5.94</b>	<b>5.96</b>	<b>5.97</b>	<b>1.3%</b>



**Table 60. Electric Power Projections for EMM Region (2 of 3)**  
**01 - East Central Area Reliability Coordination Agreement**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	154.75	165.14	167.96	170.72	173.47	176.05	178.88	181.36	183.95	186.50	189.66	192.12	194.23	196.36	198.43	200.56	202.44	204.63	206.39	208.34	210.67	212.94	1.5%
Commercial/Other	136.20	143.99	146.28	148.52	150.68	152.80	155.36	157.41	159.56	161.82	164.49	166.32	168.65	170.61	172.08	173.34	173.91	174.97	175.47	175.96	176.62	177.01	1.2%
Industrial	202.80	206.61	206.71	210.37	215.44	219.39	223.70	226.35	229.34	231.86	233.48	235.83	237.72	240.72	244.32	248.07	251.50	253.54	256.12	258.84	262.16	265.62	1.2%
Transportation	2.69	2.83	2.89	2.95	3.27	3.57	3.84	4.09	4.30	4.51	4.73	4.94	5.14	5.34	5.53	5.72	5.80	5.75	5.68	5.60	5.51	5.40	3.2%
Total Sales	496.43	518.58	523.84	532.57	542.85	551.81	561.78	569.20	577.15	584.70	592.35	599.22	605.75	613.03	620.36	627.69	633.65	638.89	643.66	648.73	654.94	660.97	1.3%
<b>Net Energy for Load (billion kwh) 7/</b>																							
Gross International Imports	2.03	3.41	2.98	9.96	11.32	11.64	11.33	12.60	10.42	4.72	2.78	0.25	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	3.56	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-18.2%
Gross Interregional Elec. Imports	21.07	13.60	11.71	10.76	9.10	9.10	9.09	9.09	9.10	8.38	7.70	6.96	6.18	5.46	4.88	4.02	3.31	2.58	1.98	1.13	0.39	0.02	-27.4%
Gross Interregional Elec. Exports	42.49	40.90	42.92	49.01	51.75	47.79	49.06	47.29	48.51	47.20	47.33	45.85	48.36	47.18	46.93	48.50	49.05	50.05	47.54	45.28	47.28	47.73	0.5%
Purchases from cogenerators 6/	14.50	14.15	14.12	14.17	14.22	14.27	14.36	14.45	14.53	14.63	14.72	14.81	14.90	15.00	15.09	15.19	15.29	15.39	15.48	15.58	15.67	15.76	0.4%
Util. Generation for Customers	530.29	561.12	571.00	579.31	592.69	597.50	609.21	613.50	624.77	637.40	647.76	656.37	665.87	672.98	680.53	690.12	697.15	704.30	707.36	711.23	720.39	727.47	1.4%
Total Net Energy for Load	521.83	551.34	556.84	565.15	575.54	584.68	594.89	602.31	610.27	617.89	625.58	632.49	638.92	646.21	653.53	660.79	666.66	672.17	677.23	682.62	689.13	695.47	1.3%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	487.09	481.43	494.89	502.60	514.69	525.27	529.78	532.57	537.46	543.75	546.90	546.19	548.04	551.01	554.40	557.77	564.61	565.31	569.48	572.00	572.90	573.79	0.7%
Petroleum	2.55	0.85	0.58	0.60	0.41	0.51	0.52	0.41	0.36	0.36	0.35	0.35	0.35	0.35	0.36	0.37	0.52	0.53	0.63	0.64	0.63	0.64	-6.1%
Natural Gas	4.06	22.16	17.86	18.89	19.90	14.49	21.45	22.31	31.45	39.33	46.22	54.97	62.62	66.71	70.96	77.23	90.85	98.49	114.90	127.88	136.14	142.32	17.6%
Nuclear	33.46	51.91	52.15	52.36	52.57	52.78	52.99	53.16	49.93	48.33	48.60	48.74	48.93	49.15	49.22	49.29	36.43	35.24	17.74	6.09	6.09	6.09	-7.5%
Pumped Storage/Other 3/	-1.34	-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	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-19.8%
Renewable 4/	5.01	5.32	6.07	5.40	5.66	5.01	5.03	5.61	6.12	6.19	6.23	6.68	6.49	6.31	6.15	6.01	5.30	5.27	5.17	5.17	5.18	5.18	0.2%
Total Generation	530.83	561.66	571.55	579.85	593.23	598.05	609.75	614.05	625.31	637.95	648.30	656.92	666.41	673.52	681.07	690.66	697.69	704.84	707.90	711.78	720.93	728.01	1.4%
Sales to Customers	530.29	561.12	571.00	579.31	592.69	597.50	609.21	613.50	624.77	637.40	647.76	656.37	665.87	672.98	680.53	690.12	697.15	704.30	707.36	711.23	720.39	727.47	1.4%
Generation for Own Use	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.1%
<b>Cogenerators</b>																							
Coal	10.14	9.55	9.55	9.55	9.55	9.55	9.55	9.54	9.54	9.54	9.53	9.53	9.52	9.52	9.52	9.52	9.51	9.51	9.50	9.50	9.50	9.50	-0.3%
Petroleum	0.31	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.9%
Natural Gas	15.18	15.11	15.14	15.18	15.21	15.24	15.28	15.31	15.35	15.40	15.43	15.48	15.54	15.59	15.64	15.70	15.77	15.84	15.92	15.98	16.04	16.09	0.3%
Other Gaseous Fuels	0.27	0.50	0.50	0.50	0.51	0.51	0.52	0.52	0.52	0.54	0.54	0.55	0.56	0.56	0.57	0.59	0.59	0.60	0.62	0.63	0.63	0.64	4.0%
Renewable	1.45	2.21	2.24	2.27	2.30	2.33	2.36	2.38	2.41	2.43	2.45	2.47	2.48	2.50	2.52	2.54	2.57	2.58	2.60	2.62	2.63	2.65	2.8%
Other	0.92	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.98	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	0.4%
Total	28.28	28.69	28.76	28.82	28.89	28.95	29.03	29.09	29.14	29.23	29.28	29.36	29.44	29.51	29.59	29.71	29.81	29.90	30.01	30.10	30.19	30.27	0.3%
Sales to Utilities	14.50	14.15	14.12	14.17	14.22	14.27	14.36	14.45	14.53	14.63	14.72	14.81	14.90	15.00	15.09	15.19	15.29	15.39	15.48	15.58	15.67	15.76	0.4%
Generation for Own Use	13.79	14.55	14.64	14.65	14.67	14.68	14.67	14.64	14.61	14.61	14.57	14.55	14.54	14.52	14.50	14.51	14.52	14.51	14.53	14.52	14.52	14.51	0.2%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	7.4	7.2	7.1	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.5	6.5	6.4	6.3	6.3	6.3	6.5	6.4	6.4	6.4	6.3	6.2	-0.8%
Commercial	7.0	6.8	6.7	6.5	6.4	6.3	6.2	6.1	6.1	6.1	5.9	5.9	5.8	5.7	5.7	5.7	5.8	5.8	5.8	5.8	5.7	5.6	-1.0%
Industrial	4.1	4.2	4.1	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.7	3.7	3.8	3.9	3.8	3.8	3.8	3.8	3.7	-0.4%
Transportation	5.1	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.2	4.1	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.8	3.8	-1.3%
All Sectors Average	5.9	5.9	5.8	5.7	5.6	5.5	5.4	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.1	5.1	5.2	5.2	5.2	5.2	5.1	5.0	-0.7%

**Table 60. Electric Power Projections for EMM Region (3 of 3)  
01 - East Central Area Reliability Coordination Agreement**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	4.95	4.94	5.09	5.17	5.35	5.46	5.51	5.54	5.58	5.65	5.68	5.67	5.69	5.72	5.76	5.80	5.87	5.88	5.93	5.96	5.97	5.98	0.9%
Natural Gas	0.07	0.26	0.21	0.22	0.23	0.17	0.24	0.25	0.35	0.42	0.46	0.52	0.58	0.61	0.65	0.70	0.83	0.87	0.99	1.09	1.13	1.17	13.4%
Oil	0.03	0.01	0.01	0.01	0.00	0.01	0.01	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	0.01	0.01	-6.6%
Total	5.05	5.22	5.31	5.39	5.58	5.63	5.75	5.79	5.93	6.08	6.15	6.20	6.28	6.34	6.42	6.51	6.71	6.76	6.93	7.06	7.11	7.15	1.6%
Emissions(million short tons) 9/																							
Carbon Dioxide	493.95	522.92	534.46	542.80	560.29	568.02	577.64	580.95	591.39	602.87	608.68	611.24	616.89	622.13	628.13	635.14	650.35	653.60	665.84	675.46	678.96	682.26	1.5%
Sulfur Dioxide	3.92	3.49	3.14	3.01	2.50	2.49	2.49	2.50	2.45	2.48	2.61	2.37	2.37	2.39	2.41	2.42	2.47	2.48	2.44	2.37	2.36	2.38	-2.2%
Nitrogen Oxide	1.53	1.31	1.35	1.37	1.43	1.46	1.47	1.48	1.50	1.52	1.54	1.54	1.54	1.55	1.57	1.58	1.61	1.61	1.64	1.65	1.65	1.66	0.4%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 61. Electric Power Projections for EMM Region (1 of 3)  
02 - Electric Reliability Council of Texas**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	14.84	14.84	14.84	14.84	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.42	13.44	13.46	13.49	-0.4%
Other Fossil Steam 2/	29.52	29.32	29.27	29.20	28.28	27.05	26.89	26.21	24.88	24.78	24.72	24.72	24.62	24.62	24.52	24.43	24.13	23.29	22.52	21.12	20.43	19.38	-1.9%
Combined Cycle	1.53	3.61	3.63	3.91	4.07	4.07	5.40	5.40	6.44	6.44	8.00	8.00	9.40	10.00	10.87	11.18	11.50	12.77	13.77	14.94	15.91	16.66	11.5%
Combustion Turbine/Diesel	4.92	5.54	6.25	6.59	8.31	9.35	10.03	11.42	12.44	13.55	14.02	15.17	15.83	16.69	17.42	17.78	18.40	19.02	19.54	19.77	20.14	20.34	6.7%
Nuclear Power	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	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	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	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 4/	0.64	0.82	1.01	1.27	1.42	1.72	1.90	2.27	2.46	2.86	2.86	2.86	2.93	2.93	2.94	2.99	3.05	3.06	3.06	3.07	3.13	3.14	7.5%
<b>Total Capability</b>	<b>56.24</b>	<b>58.92</b>	<b>59.79</b>	<b>60.62</b>	<b>60.27</b>	<b>60.38</b>	<b>62.42</b>	<b>63.50</b>	<b>64.42</b>	<b>65.83</b>	<b>67.80</b>	<b>68.95</b>	<b>70.97</b>	<b>72.44</b>	<b>73.94</b>	<b>74.58</b>	<b>75.28</b>	<b>76.34</b>	<b>77.11</b>	<b>77.13</b>	<b>77.88</b>	<b>77.81</b>	<b>1.5%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	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	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	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	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	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 4/	0.00	0.15	0.28	0.55	0.69	0.99	1.17	1.54	1.73	2.13	2.13	2.13	2.19	2.19	2.19	2.24	2.30	2.30	2.30	2.30	2.37	2.37	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>2.19</b>	<b>2.32</b>	<b>2.59</b>	<b>2.73</b>	<b>3.03</b>	<b>3.21</b>	<b>3.58</b>	<b>3.77</b>	<b>4.17</b>	<b>4.17</b>	<b>4.17</b>	<b>4.24</b>	<b>4.24</b>	<b>4.24</b>	<b>4.28</b>	<b>4.34</b>	<b>4.34</b>	<b>4.34</b>	<b>4.34</b>	<b>4.41</b>	<b>4.41</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
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	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.09	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	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	0.04	0.06	0.39	0.54	0.54	1.88	1.88	2.91	2.91	4.47	4.47	5.87	6.48	7.34	7.66	7.97	9.24	10.24	11.41	12.39	13.13	N/A
Combustion Turbine/Diesel	0.00	0.61	1.33	1.67	3.39	4.42	5.11	6.50	7.52	8.62	9.10	10.25	10.91	11.76	12.50	12.86	13.48	14.10	14.62	14.85	15.22	15.42	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	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	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	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 4/	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.10	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.66</b>	<b>1.45</b>	<b>2.11</b>	<b>3.99</b>	<b>5.03</b>	<b>7.05</b>	<b>8.44</b>	<b>10.49</b>	<b>11.60</b>	<b>13.64</b>	<b>14.79</b>	<b>16.84</b>	<b>18.31</b>	<b>19.92</b>	<b>20.60</b>	<b>21.53</b>	<b>23.43</b>	<b>24.97</b>	<b>26.39</b>	<b>27.77</b>	<b>28.75</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>2.85</b>	<b>3.77</b>	<b>4.70</b>	<b>6.73</b>	<b>8.06</b>	<b>10.26</b>	<b>12.02</b>	<b>14.26</b>	<b>15.77</b>	<b>17.81</b>	<b>18.96</b>	<b>21.08</b>	<b>22.55</b>	<b>24.15</b>	<b>24.88</b>	<b>25.88</b>	<b>27.78</b>	<b>29.32</b>	<b>30.74</b>	<b>32.18</b>	<b>33.16</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.20</b>	<b>0.24</b>	<b>0.35</b>	<b>2.72</b>	<b>3.95</b>	<b>4.11</b>	<b>4.79</b>	<b>6.11</b>	<b>6.21</b>	<b>6.28</b>	<b>6.28</b>	<b>6.38</b>	<b>6.38</b>	<b>6.48</b>	<b>6.57</b>	<b>6.86</b>	<b>7.70</b>	<b>8.48</b>	<b>9.88</b>	<b>10.57</b>	<b>11.61</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
Coal	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.0%
Petroleum	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	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Natural Gas	7.39	7.89	7.94	8.00	8.04	8.08	8.13	8.17	8.22	8.28	8.33	8.39	8.45	8.51	8.57	8.65	8.74	8.82	8.92	9.00	9.07	9.15	1.0%
Other Gaseous Fuels	0.01	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3.7%
Renewables	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	1.6%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
<b>Total</b>	<b>8.02</b>	<b>8.54</b>	<b>8.58</b>	<b>8.64</b>	<b>8.69</b>	<b>8.73</b>	<b>8.78</b>	<b>8.83</b>	<b>8.88</b>	<b>8.94</b>	<b>8.99</b>	<b>9.05</b>	<b>9.12</b>	<b>9.18</b>	<b>9.24</b>	<b>9.32</b>	<b>9.41</b>	<b>9.50</b>	<b>9.60</b>	<b>9.68</b>	<b>9.75</b>	<b>9.83</b>	<b>0.9%</b>

**Table 61. Electric Power Projections for EMM Region (2 of 3)  
02 - Electric Reliability Council of Texas**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	88.76	93.27	95.31	97.15	98.75	100.45	102.41	104.11	105.77	107.83	110.20	112.18	114.13	116.09	118.13	119.95	121.73	123.46	125.15	126.83	128.69	130.40	1.8%
Commercial/Other	77.02	79.73	81.61	83.18	84.24	85.35	86.99	88.25	89.41	90.94	92.73	94.05	95.76	97.25	98.57	99.45	100.12	100.75	101.21	101.45	101.78	101.80	1.3%
Industrial	79.38	79.91	79.70	81.44	83.36	84.82	86.49	87.89	89.51	90.59	91.12	91.98	92.74	93.84	95.22	96.73	98.48	99.64	100.90	101.97	103.20	104.47	1.3%
Transportation	1.14	1.18	1.21	1.25	1.38	1.51	1.64	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.60	2.59	2.58	2.56	2.54	2.51	3.7%
Total Sales	246.30	254.09	257.84	263.02	267.73	272.12	277.52	281.99	286.55	291.31	296.09	300.37	304.88	309.53	314.38	318.67	322.92	326.45	329.83	332.81	336.21	339.19	1.5%
<b>Net Energy for Load (billion kwh) 7/</b>																							
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	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	0.30	0.33	0.36	0.39	0.42	0.45	0.49	0.53	0.57	0.62	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	25.4%
Gross Interregional Elec. Imports	1.10	0.41	1.91	2.21	2.68	2.77	2.66	2.81	2.66	3.02	2.97	2.86	2.74	2.60	2.28	2.32	2.07	2.10	1.84	1.77	1.57	1.47	1.3%
Gross Interregional Elec. Exports	3.68	3.55	2.82	1.09	0.65	0.40	0.64	0.68	0.94	0.69	0.62	0.57	0.57	0.53	0.46	0.35	0.40	0.44	0.21	0.09	0.14	0.20	-12.5%
Purchases from cogenerators 6/	18.31	19.30	19.34	19.57	19.77	19.98	20.21	20.44	20.67	20.93	21.18	21.44	21.72	22.02	22.32	22.64	22.94	23.25	23.56	23.82	24.08	24.26	1.3%
Util. Generation for Customers	239.52	253.12	254.66	257.78	261.53	265.47	271.13	275.37	280.17	284.21	288.80	292.96	297.38	301.83	306.65	310.47	314.72	318.08	321.32	324.12	327.66	330.76	1.5%
Total Net Energy for Load	255.24	268.99	272.75	278.10	282.95	287.40	292.90	297.45	302.04	306.90	311.71	316.01	320.59	325.25	330.12	334.40	338.66	342.32	345.85	348.96	352.50	355.62	1.5%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	100.50	105.11	106.43	107.80	98.02	99.30	99.30	98.80	98.85	98.90	98.94	98.99	99.03	99.08	99.12	99.15	99.18	99.25	99.37	99.53	99.73	99.96	0.0%
Petroleum	0.12	0.26	0.37	0.33	0.37	0.33	0.30	0.27	0.26	0.26	0.23	0.18	0.15	0.15	0.15	0.14	0.12	0.10	0.09	0.09	0.08	0.08	-1.9%
Natural Gas	99.64	112.95	112.21	113.41	126.59	128.72	134.05	137.52	141.92	145.24	149.78	153.92	158.21	162.67	167.49	171.31	175.40	178.74	181.88	184.55	187.77	190.65	3.0%
Nuclear	38.69	34.41	34.64	34.79	34.87	34.94	35.01	35.08	35.15	35.22	35.29	35.36	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	-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	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 4/	1.05	1.33	2.13	2.93	3.38	4.29	4.84	6.58	7.13	8.29	8.24	8.20	8.30	8.26	8.23	8.52	8.62	8.60	8.58	8.56	8.68	8.67	10.1%
Total Generation	240.00	254.06	255.78	259.27	263.22	267.58	273.49	278.24	283.31	287.90	292.49	296.65	301.07	305.53	310.35	314.49	318.69	322.05	325.29	328.09	331.63	334.73	1.5%
Sales to Customers	239.52	253.12	254.66	257.78	261.53	265.47	271.13	275.37	280.17	284.21	288.80	292.96	297.38	301.83	306.65	310.47	314.72	318.08	321.32	324.12	327.66	330.76	1.5%
Generation for Own Use	0.47	0.94	1.12	1.49	1.69	2.11	2.36	2.87	3.14	3.69	3.69	3.69	3.69	3.69	3.69	4.02	3.97	3.97	3.97	3.97	3.97	3.97	10.1%
<b>Cogenerators</b>																							
Coal	2.91	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.85	2.85	2.85	2.85	-0.1%
Petroleum	1.45	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.36	1.36	1.36	1.36	1.36	-0.3%
Natural Gas	50.50	50.72	51.07	51.44	51.80	52.14	52.55	52.91	53.26	53.80	54.18	54.69	55.28	55.83	56.38	57.08	57.80	58.52	59.35	60.01	60.65	61.18	0.9%
Other Gaseous Fuels	0.14	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.32	0.32	0.32	0.33	4.0%
Renewable	0.69	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.69	0.70	0.71	0.72	0.72	0.73	0.74	0.76	0.77	0.78	0.78	0.79	0.80	0.81	0.7%
Other	1.31	1.37	1.37	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.38	1.38	1.39	1.39	1.39	1.40	1.40	1.40	1.41	1.41	1.41	1.41	0.4%
Total	57.00	57.16	57.52	57.90	58.28	58.63	59.07	59.45	59.81	60.37	60.76	61.29	61.89	62.45	63.02	63.74	64.48	65.22	66.07	66.74	67.40	67.95	0.8%
Sales to Utilities	18.31	19.30	19.34	19.57	19.77	19.98	20.21	20.44	20.67	20.93	21.18	21.44	21.72	22.02	22.32	22.64	22.94	23.25	23.56	23.82	24.08	24.26	1.3%
Generation for Own Use	38.70	37.86	38.19	38.33	38.51	38.66	38.86	39.01	39.14	39.44	39.58	39.85	40.17	40.43	40.70	41.10	41.54	41.97	42.50	42.92	43.33	43.69	0.6%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	7.9	7.7	7.4	7.2	7.3	7.4	7.2	7.2	7.2	7.0	6.8	6.7	6.6	6.6	6.5	6.6	6.7	6.6	6.7	6.8	6.8	6.9	-0.6%
Commercial	6.5	6.4	6.1	6.0	6.0	6.1	5.9	5.9	6.0	5.8	5.6	5.6	5.5	5.4	5.4	5.5	5.5	5.5	5.5	5.6	5.6	5.7	-0.6%
Industrial	4.0	4.0	3.9	3.8	3.9	4.0	3.9	4.0	4.1	4.1	4.0	3.9	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9	4.0	0.0%
Transportation	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	-0.2%
All Sectors Average	6.2	6.1	5.9	5.8	5.8	5.9	5.7	5.8	5.8	5.7	5.5	5.5	5.4	5.4	5.3	5.4	5.4	5.4	5.5	5.5	5.5	5.7	-0.4%

**Table 61. Electric Power Projections for EMM Region (3 of 3)  
02 - Electric Reliability Council of Texas**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.09	1.14	1.15	1.16	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	-0.1%
Natural Gas	1.11	1.16	1.16	1.16	1.30	1.32	1.34	1.37	1.39	1.43	1.43	1.45	1.46	1.47	1.48	1.51	1.53	1.52	1.52	1.51	1.51	1.52	1.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.6%
Total	2.20	2.30	2.31	2.33	2.36	2.39	2.42	2.44	2.46	2.50	2.50	2.52	2.53	2.54	2.55	2.58	2.60	2.59	2.59	2.58	2.59	2.60	0.7%
Emissions(million short tons) 9/																							
Carbon Dioxide	181.87	187.52	188.37	190.05	186.83	189.38	190.55	191.64	192.91	194.86	194.93	196.43	196.51	197.30	198.01	199.49	200.82	200.18	200.11	199.84	200.06	200.65	0.4%
Sulfur Dioxide	0.38	0.35	0.38	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.0%
Nitrogen Oxide	0.49	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.34	0.34	0.34	-1.7%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 62. Electric Power Projections for EMM Region (1 of 3)  
03 - Mid-Atlantic Area Council**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	18.80	18.65	18.46	18.46	18.41	18.41	18.35	18.35	18.35	18.32	18.32	18.32	18.35	18.36	18.37	18.39	18.42	18.46	18.51	18.56	18.60	18.60	0.0%
Other Fossil Steam 2/	8.64	8.35	8.35	8.35	8.20	8.16	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	7.55	7.55	7.12	7.12	6.36	-1.4%
Combined Cycle	1.95	2.08	2.27	3.42	4.21	5.23	5.34	6.96	6.96	7.66	8.54	8.86	9.52	9.67	10.21	10.99	12.04	12.88	13.61	14.21	14.21	14.63	9.6%
Combustion Turbine/Diesel	8.76	8.93	9.79	9.88	10.13	10.25	10.77	10.94	11.87	12.54	12.57	12.66	12.74	13.03	13.30	13.47	14.08	14.12	15.09	15.09	15.10	15.10	2.5%
Nuclear Power	12.98	13.02	13.02	13.02	13.02	13.02	13.02	11.91	11.91	11.91	11.91	10.17	10.17	10.17	9.08	6.37	6.37	5.53	5.53	5.53	5.53	5.53	-3.8%
Pumped Storage/Other 3/	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	N/A
Renewable 4/	1.70	1.71	1.77	1.77	1.80	1.83	1.86	1.91	2.01	2.16	2.37	2.64	2.96	3.34	3.34	3.34	3.34	3.46	3.46	3.46	3.46	3.46	3.3%
<b>Total Capability</b>	<b>54.18</b>	<b>54.09</b>	<b>55.00</b>	<b>56.24</b>	<b>57.13</b>	<b>58.26</b>	<b>58.82</b>	<b>59.56</b>	<b>60.59</b>	<b>62.09</b>	<b>63.22</b>	<b>62.17</b>	<b>63.25</b>	<b>64.08</b>	<b>63.80</b>	<b>62.06</b>	<b>63.75</b>	<b>63.40</b>	<b>65.15</b>	<b>65.37</b>	<b>65.44</b>	<b>65.10</b>	<b>0.8%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	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	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	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	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	N/A
Renewable 4/	0.00	0.01	0.01	0.01	0.03	0.06	0.08	0.14	0.24	0.39	0.60	0.87	1.19	1.57	1.57	1.57	1.57	1.69	1.69	1.69	1.69	1.69	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.22</b>	<b>0.25</b>	<b>0.28</b>	<b>0.33</b>	<b>0.44</b>	<b>0.60</b>	<b>0.81</b>	<b>1.08</b>	<b>1.41</b>	<b>1.79</b>	<b>1.79</b>	<b>1.79</b>	<b>1.79</b>	<b>1.94</b>	<b>1.94</b>	<b>1.94</b>	<b>1.94</b>	<b>1.94</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.11	0.14	0.19	0.24	0.29	0.29	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	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	0.13	0.32	1.46	2.25	3.27	3.39	5.00	5.00	5.70	6.59	6.90	7.57	7.71	8.25	9.04	10.08	10.93	11.65	12.26	12.26	12.68	N/A
Combustion Turbine/Diesel	0.00	0.05	0.92	1.01	1.26	1.38	1.90	2.09	3.01	3.72	3.75	3.84	3.92	4.21	4.48	4.65	5.26	5.30	6.27	6.27	6.29	6.29	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	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	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	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 4/	0.00	0.00	0.05	0.06	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	0.07	0.07	0.07	0.07	0.07	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.18</b>	<b>1.29</b>	<b>2.53</b>	<b>3.58</b>	<b>4.72</b>	<b>5.36</b>	<b>7.17</b>	<b>8.09</b>	<b>9.50</b>	<b>10.41</b>	<b>10.84</b>	<b>11.59</b>	<b>12.03</b>	<b>12.85</b>	<b>13.82</b>	<b>15.51</b>	<b>16.44</b>	<b>18.18</b>	<b>18.83</b>	<b>18.90</b>	<b>19.32</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.37</b>	<b>1.47</b>	<b>2.72</b>	<b>3.80</b>	<b>4.96</b>	<b>5.64</b>	<b>7.50</b>	<b>8.53</b>	<b>10.10</b>	<b>11.23</b>	<b>11.92</b>	<b>13.00</b>	<b>13.82</b>	<b>14.65</b>	<b>15.62</b>	<b>17.31</b>	<b>18.38</b>	<b>20.12</b>	<b>20.77</b>	<b>20.84</b>	<b>21.26</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.46</b>	<b>0.70</b>	<b>0.70</b>	<b>0.90</b>	<b>0.93</b>	<b>1.04</b>	<b>2.16</b>	<b>2.16</b>	<b>2.22</b>	<b>2.22</b>	<b>3.97</b>	<b>3.97</b>	<b>3.97</b>	<b>5.06</b>	<b>7.77</b>	<b>7.77</b>	<b>9.19</b>	<b>9.19</b>	<b>9.62</b>	<b>9.62</b>	<b>10.38</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
Coal	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	0.0%
Petroleum	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.0%
Natural Gas	2.16	2.17	2.17	2.17	2.17	2.18	2.18	2.18	2.18	2.18	2.19	2.19	2.19	2.20	2.20	2.20	2.21	2.21	2.22	2.22	2.22	2.23	0.1%
Other Gaseous Fuels	0.07	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15	3.7%
Renewables	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.7%
Other	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
<b>Total</b>	<b>3.73</b>	<b>3.78</b>	<b>3.79</b>	<b>3.79</b>	<b>3.80</b>	<b>3.80</b>	<b>3.81</b>	<b>3.81</b>	<b>3.81</b>	<b>3.82</b>	<b>3.83</b>	<b>3.83</b>	<b>3.84</b>	<b>3.84</b>	<b>3.85</b>	<b>3.86</b>	<b>3.87</b>	<b>3.87</b>	<b>3.88</b>	<b>3.89</b>	<b>3.90</b>	<b>3.91</b>	<b>0.2%</b>

**Table 62. Electric Power Projections for EMM Region (2 of 3)  
03 - Mid-Atlantic Area Council**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	83.54	90.28	91.81	93.16	94.52	95.71	97.05	98.20	99.42	100.84	102.27	103.17	104.19	105.16	106.12	106.88	107.81	108.70	109.63	110.48	111.45	112.46	1.4%
Commercial/Other	80.43	86.33	87.58	88.77	89.84	90.76	91.87	92.60	93.75	94.91	96.12	96.65	97.73	98.53	99.14	99.35	99.57	99.77	99.93	99.89	99.84	99.62	1.0%
Industrial	66.58	69.85	69.99	71.10	72.54	73.71	74.92	75.66	76.49	77.24	77.72	78.29	78.69	79.61	80.59	81.58	82.65	83.15	83.86	84.52	85.29	86.05	1.2%
Transportation	1.60	1.72	1.75	1.79	1.97	2.15	2.31	2.46	2.58	2.71	2.84	2.96	3.08	3.20	3.31	3.42	3.47	3.44	3.40	3.36	3.30	3.24	3.3%
Total Sales	232.16	248.17	251.13	254.81	258.88	262.33	266.16	268.92	272.25	275.69	278.94	281.08	283.70	286.50	289.16	291.24	293.50	295.07	296.82	298.25	299.87	301.38	1.2%
<b>Net Energy for Load (billion kwh) 7/</b>																							
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	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	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 Elec. Imports	30.12	44.58	45.28	44.03	44.07	43.66	43.38	40.10	41.54	39.66	39.23	38.94	37.78	36.48	34.63	36.75	37.06	35.51	34.11	32.58	33.41	33.38	0.5%
Gross Interregional Elec. Exports	21.94	25.50	26.60	28.47	30.82	34.37	33.47	34.27	33.02	33.56	33.08	34.04	31.41	31.72	31.95	27.66	26.85	27.88	28.07	28.70	27.73	27.93	1.1%
Purchases from cogenerators 6/	12.81	12.25	12.26	12.27	12.30	12.32	12.38	12.40	12.43	12.48	12.50	12.53	12.56	12.59	12.62	12.66	12.69	12.72	12.76	12.79	12.81	12.84	0.0%
Util. Generation for Customers	230.04	233.75	237.10	243.83	250.14	257.42	260.68	267.45	268.19	274.07	277.17	280.47	281.65	285.95	290.50	286.19	287.16	291.33	294.68	298.25	298.17	299.96	1.2%
Total Net Energy for Load	251.03	265.08	268.04	271.66	275.68	279.03	282.97	285.68	289.15	292.64	295.82	297.90	300.58	303.29	305.81	307.94	310.06	311.68	313.48	314.92	316.66	318.26	1.1%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	111.70	112.00	114.73	117.50	121.54	125.62	126.89	127.90	128.73	129.43	129.42	129.57	129.01	129.45	129.76	130.91	131.90	132.13	132.91	133.30	134.02	133.96	0.8%
Petroleum	9.30	5.02	4.04	3.04	2.62	2.15	2.14	1.96	1.67	1.17	1.08	1.29	1.09	1.07	1.01	1.10	1.12	0.97	0.95	0.80	0.81	0.72	-11.0%
Natural Gas	6.26	13.66	14.53	18.99	21.34	24.36	26.35	34.50	39.25	44.50	46.24	55.47	61.08	62.74	67.97	76.87	89.33	93.94	101.21	104.54	103.73	105.67	13.7%
Nuclear	97.13	95.40	95.59	95.78	95.91	96.13	96.07	93.40	88.27	88.52	88.95	81.78	76.28	76.28	74.94	60.48	48.00	46.86	42.05	42.05	42.05	42.05	-3.7%
Pumped Storage/Other 3/	-0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.2%
Renewable 4/	7.22	8.67	9.21	9.52	9.74	10.13	10.20	10.66	11.24	11.42	12.45	13.32	15.17	17.37	17.79	17.79	17.79	18.39	18.53	18.53	18.52	18.52	4.4%
Total Generation	231.04	234.75	238.10	244.83	251.14	258.38	261.65	268.41	269.16	275.03	278.13	281.44	282.61	286.91	291.47	287.15	288.13	292.30	295.65	299.22	299.13	300.93	1.2%
Sales to Customers	230.04	233.75	237.10	243.83	250.14	257.42	260.68	267.45	268.19	274.07	277.17	280.47	281.65	285.95	290.50	286.19	287.16	291.33	294.68	298.25	298.17	299.96	1.2%
Generation for Own Use	1.00	1.00	1.00	1.00	1.00	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	0.97	0.97	0.97	0.97	-0.2%
<b>Cogenerators</b>																							
Coal	5.16	5.08	5.10	5.08	5.08	5.08	5.11	5.10	5.11	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.11	5.11	5.11	5.11	5.11	0.0%
Petroleum	0.97	1.47	1.47	1.47	1.47	1.47	1.48	1.48	1.48	1.49	1.50	1.50	1.51	1.52	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	2.2%
Natural Gas	10.95	10.29	10.31	10.32	10.34	10.35	10.37	10.38	10.40	10.42	10.43	10.45	10.48	10.50	10.52	10.55	10.58	10.61	10.64	10.67	10.69	10.72	-0.1%
Other Gaseous Fuels	0.85	1.57	1.57	1.57	1.58	1.59	1.62	1.63	1.63	1.67	1.68	1.70	1.74	1.76	1.78	1.83	1.85	1.88	1.92	1.95	1.97	1.99	4.0%
Renewable	0.70	0.66	0.66	0.67	0.67	0.68	0.69	0.69	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.73	0.73	0.74	0.74	0.74	0.75	0.75	0.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	18.64	19.07	19.11	19.11	19.15	19.18	19.26	19.29	19.31	19.41	19.43	19.48	19.56	19.61	19.66	19.76	19.82	19.88	19.98	20.04	20.10	20.16	0.4%
Sales to Utilities	12.81	12.25	12.26	12.27	12.30	12.32	12.38	12.40	12.43	12.48	12.50	12.53	12.56	12.59	12.62	12.66	12.69	12.72	12.76	12.79	12.81	12.84	0.0%
Generation for Own Use	5.83	6.82	6.84	6.84	6.85	6.86	6.88	6.88	6.88	6.93	6.93	6.95	6.99	7.01	7.04	7.10	7.13	7.16	7.22	7.26	7.29	7.31	1.0%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	9.4	9.1	8.9	8.7	8.5	8.3	8.2	8.2	8.2	8.1	8.0	8.2	8.2	8.1	8.1	8.5	8.4	8.4	8.3	8.3	8.4	8.4	-0.5%
Commercial	8.5	8.0	7.8	7.6	7.3	7.0	6.8	6.7	6.7	6.4	6.3	6.5	6.4	6.4	6.3	6.7	6.7	6.6	6.5	6.5	6.5	6.6	-1.1%
Industrial	6.5	6.3	6.1	5.8	5.5	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.8	4.7	4.7	5.0	5.0	4.9	4.8	4.8	4.9	4.9	-1.3%
Transportation	6.3	5.9	5.7	5.5	5.4	5.2	5.1	5.1	5.0	4.9	4.9	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.0	-1.1%
All Sectors Average	8.2	7.9	7.7	7.5	7.2	6.9	6.8	6.7	6.7	6.5	6.4	6.6	6.6	6.5	6.5	6.9	6.8	6.7	6.7	6.7	6.7	6.8	-0.9%

**Table 62. Electric Power Projections for EMM Region (3 of 3)  
03 - Mid-Atlantic Area Council**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.12	1.15	1.17	1.21	1.26	1.31	1.32	1.33	1.34	1.35	1.35	1.35	1.34	1.35	1.35	1.37	1.38	1.38	1.38	1.39	1.39	1.39	1.0%
Natural Gas	0.08	0.15	0.15	0.17	0.19	0.20	0.22	0.27	0.31	0.35	0.35	0.43	0.46	0.47	0.51	0.57	0.66	0.68	0.73	0.75	0.75	0.76	10.6%
Oil	0.11	0.06	0.05	0.04	0.03	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	0.01	0.01	0.01	0.01	-11.1%
Total	1.31	1.35	1.37	1.42	1.48	1.54	1.57	1.63	1.67	1.71	1.71	1.79	1.82	1.83	1.87	1.95	2.05	2.07	2.13	2.15	2.15	2.16	2.3%
Emissions(million short tons) 9/																							
Carbon Dioxide	125.55	130.46	132.34	136.66	142.33	147.39	149.77	153.83	156.74	159.22	159.40	163.91	165.02	166.19	168.57	173.77	179.93	181.47	185.05	186.36	186.67	187.16	1.8%
Sulfur Dioxide	1.48	1.27	1.05	0.79	0.64	0.63	0.60	0.58	0.57	0.57	0.61	0.53	0.51	0.51	0.52	0.51	0.52	0.53	0.52	0.55	0.54	0.56	-4.4%
Nitrogen Oxide	0.30	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.9%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 63. Electric Power Projections for EMM Region (1 of 3)  
04 - Mid-America Interconnected Network**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	27.69	27.66	27.66	27.66	27.66	27.66	27.66	27.66	27.66	27.70	27.70	28.44	28.89	29.26	29.66	30.07	30.31	30.44	30.79	30.65	31.38	31.65	0.6%
Other Fossil Steam 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	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Combined Cycle	0.31	0.31	0.31	0.31	0.31	0.31	0.42	0.42	0.42	0.42	1.78	2.48	2.97	3.18	3.67	3.91	4.06	4.16	4.47	4.84	5.03	5.12	13.5%
Combustion Turbine/Diesel	7.56	10.33	11.54	12.75	14.08	15.28	16.94	18.36	20.35	21.43	21.82	21.94	22.10	22.25	22.59	22.39	22.44	22.74	22.04	22.32	22.53	22.59	5.1%
Nuclear Power	12.72	12.77	12.77	12.77	12.77	12.77	12.77	12.00	12.00	12.00	12.00	12.00	11.22	11.22	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	-1.1%
Pumped Storage/Other 3/	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	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	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	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 4/	0.82	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.87	0.88	0.88	0.92	0.93	0.6%
<b>Total Capability</b>	<b>53.14</b>	<b>55.95</b>	<b>57.17</b>	<b>58.37</b>	<b>59.70</b>	<b>60.90</b>	<b>62.67</b>	<b>63.32</b>	<b>65.31</b>	<b>66.44</b>	<b>68.19</b>	<b>69.74</b>	<b>70.07</b>	<b>70.80</b>	<b>70.88</b>	<b>71.32</b>	<b>71.79</b>	<b>72.32</b>	<b>72.29</b>	<b>72.81</b>	<b>73.96</b>	<b>74.40</b>	<b>1.5%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	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	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	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	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	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	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 4/	0.00	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.78	1.23	1.60	2.00	2.42	2.66	2.79	3.15	3.70	4.43	4.70	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	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	0.10	0.10	0.10	0.10	1.47	2.17	2.66	2.87	3.36	3.59	3.75	3.85	4.15	4.53	4.72	4.81	N/A
Combustion Turbine/Diesel	0.00	2.35	3.56	4.78	6.10	7.30	9.10	10.59	12.59	13.67	14.06	14.18	14.33	14.48	14.83	14.89	14.94	15.24	15.66	15.94	16.14	16.20	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	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	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	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 4/	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	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.09	0.09	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>2.35</b>	<b>3.56</b>	<b>4.78</b>	<b>6.10</b>	<b>7.30</b>	<b>9.21</b>	<b>10.71</b>	<b>12.70</b>	<b>13.82</b>	<b>15.58</b>	<b>17.13</b>	<b>18.23</b>	<b>18.96</b>	<b>20.19</b>	<b>20.91</b>	<b>21.37</b>	<b>21.91</b>	<b>23.00</b>	<b>24.22</b>	<b>25.37</b>	<b>25.81</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>2.53</b>	<b>3.74</b>	<b>4.96</b>	<b>6.28</b>	<b>7.48</b>	<b>9.39</b>	<b>10.89</b>	<b>12.88</b>	<b>14.00</b>	<b>15.76</b>	<b>17.31</b>	<b>18.41</b>	<b>19.14</b>	<b>20.37</b>	<b>21.09</b>	<b>21.55</b>	<b>22.09</b>	<b>23.18</b>	<b>24.40</b>	<b>25.55</b>	<b>25.99</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.17</b>	<b>1.02</b>	<b>1.02</b>	<b>1.02</b>	<b>1.02</b>	<b>1.02</b>	<b>1.80</b>	<b>1.80</b>	<b>2.95</b>	<b>3.22</b>	<b>3.22</b>	<b>3.22</b>	<b>4.34</b>	<b>5.04</b>	<b>5.04</b>	<b>5.04</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
Coal	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Natural Gas	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	1.1%
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	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.7%
Renewables	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	1.5%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
<b>Total</b>	<b>1.39</b>	<b>1.41</b>	<b>1.42</b>	<b>1.42</b>	<b>1.43</b>	<b>1.44</b>	<b>1.45</b>	<b>1.46</b>	<b>1.47</b>	<b>1.48</b>	<b>1.48</b>	<b>1.49</b>	<b>1.50</b>	<b>1.51</b>	<b>1.51</b>	<b>1.53</b>	<b>1.54</b>	<b>1.54</b>	<b>1.55</b>	<b>1.56</b>	<b>1.57</b>	<b>1.58</b>	<b>0.6%</b>



**Table 63. Electric Power Projections for EMM Region (3 of 3)  
04 - Mid-America Interconnected Network**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.47	1.60	1.68	1.74	1.82	1.89	1.91	1.93	1.95	1.97	1.98	2.00	2.04	2.06	2.11	2.14	2.17	2.19	2.20	2.19	2.23	2.25	2.0%
Natural Gas	0.07	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.11	1.8%
Oil	0.01	0.01	0.01	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	0.01	0.01	0.01	0.01	0.01	0.01	-2.5%
Total	1.56	1.63	1.70	1.76	1.84	1.91	1.93	1.95	1.97	1.99	2.02	2.06	2.10	2.13	2.20	2.23	2.27	2.29	2.31	2.31	2.35	2.37	1.9%
Emissions(million short tons) 9/																							
Carbon Dioxide	150.59	167.85	175.06	181.30	189.73	196.68	198.88	201.10	203.04	204.76	207.64	210.29	214.25	217.31	223.67	227.06	230.50	232.36	234.07	233.48	237.58	239.92	2.1%
Sulfur Dioxide	1.02	0.97	1.06	1.08	1.13	1.17	1.17	1.18	1.06	0.84	1.21	0.80	0.80	0.81	0.82	0.83	0.83	0.84	0.84	0.83	0.84	0.87	-0.7%
Nitrogen Oxide	0.47	0.40	0.43	0.44	0.46	0.48	0.49	0.49	0.50	0.51	0.51	0.51	0.51	0.51	0.52	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.6%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 64. Electric Power Projections for EMM Region (1 of 3)  
05 - Mid-Continent Area Power Pool**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	20.86	21.35	21.35	21.35	20.73	20.73	20.73	20.70	20.70	20.70	20.71	20.72	20.73	20.74	20.76	20.78	20.80	20.83	20.85	20.88	20.90	20.90	0.0%
Other Fossil Steam 2/	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	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	N/A
Combined Cycle	0.43	0.43	0.43	0.43	0.43	0.88	0.92	1.35	1.35	1.68	2.10	2.47	2.87	3.16	3.39	3.70	4.01	4.43	4.59	4.77	4.86	4.95	11.8%
Combustion Turbine/Diesel	6.07	6.14	6.30	6.84	7.31	7.63	8.29	8.94	9.40	9.94	10.06	10.14	10.43	10.58	11.03	11.26	11.82	12.33	12.74	12.94	13.24	13.42	3.7%
Nuclear Power	3.75	3.79	3.79	3.79	3.32	2.54	2.54	2.54	2.54	2.54	2.54	1.96	1.96	1.96	1.58	1.04	1.04	1.04	1.04	1.04	1.04	1.04	-5.7%
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	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	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 4/	3.74	4.15	4.32	4.51	4.52	4.52	4.53	4.54	4.55	4.56	4.56	4.57	4.58	4.58	4.58	4.59	4.59	4.60	4.60	4.60	4.60	4.61	0.9%
<b>Total Capability</b>	<b>35.47</b>	<b>36.47</b>	<b>36.81</b>	<b>37.53</b>	<b>36.92</b>	<b>36.92</b>	<b>37.63</b>	<b>38.68</b>	<b>39.15</b>	<b>40.04</b>	<b>40.57</b>	<b>40.46</b>	<b>41.17</b>	<b>41.63</b>	<b>41.94</b>	<b>41.97</b>	<b>42.86</b>	<b>43.82</b>	<b>44.42</b>	<b>44.82</b>	<b>45.25</b>	<b>45.54</b>	<b>1.1%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	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	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	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	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	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 4/	0.00	0.40	0.48	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.41</b>	<b>0.48</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>0.66</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.06	0.08	0.10	0.13	0.15	0.18	0.20	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	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	0.45	0.49	0.92	0.92	1.25	1.67	2.04	2.44	2.73	2.96	3.27	3.58	4.00	4.16	4.34	4.43	4.52	N/A
Combustion Turbine/Diesel	0.00	0.03	0.20	0.73	1.21	1.53	2.19	2.88	3.34	3.88	3.99	4.07	4.37	4.52	4.97	5.20	5.76	6.27	6.68	6.88	7.18	7.36	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	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	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	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 4/	0.00	0.00	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.03</b>	<b>0.30</b>	<b>0.84</b>	<b>1.32</b>	<b>2.10</b>	<b>2.81</b>	<b>3.93</b>	<b>4.40</b>	<b>5.28</b>	<b>5.82</b>	<b>6.29</b>	<b>7.00</b>	<b>7.46</b>	<b>8.16</b>	<b>8.72</b>	<b>9.61</b>	<b>10.57</b>	<b>11.17</b>	<b>11.57</b>	<b>11.99</b>	<b>12.28</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.44</b>	<b>0.78</b>	<b>1.50</b>	<b>1.98</b>	<b>2.75</b>	<b>3.47</b>	<b>4.59</b>	<b>5.06</b>	<b>5.94</b>	<b>6.48</b>	<b>6.94</b>	<b>7.66</b>	<b>8.11</b>	<b>8.81</b>	<b>9.38</b>	<b>10.27</b>	<b>11.22</b>	<b>11.83</b>	<b>12.23</b>	<b>12.65</b>	<b>12.94</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.09</b>	<b>1.87</b>	<b>1.87</b>	<b>1.94</b>	<b>1.94</b>	<b>1.94</b>	<b>1.94</b>	<b>2.52</b>	<b>2.52</b>	<b>2.52</b>	<b>2.90</b>	<b>3.44</b>	<b>3.44</b>	<b>3.44</b>	<b>3.44</b>	<b>3.44</b>	<b>3.44</b>	<b>3.44</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
Coal	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	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.0%
Petroleum	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Natural Gas	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.0%
Other Gaseous Fuels	0.03	0.05	0.05	0.05	0.05	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	0.06	0.06	0.06	0.06	3.7%
Renewables	0.23	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.31	0.31	1.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0%
<b>Total</b>	<b>0.93</b>	<b>0.95</b>	<b>0.96</b>	<b>0.97</b>	<b>0.97</b>	<b>0.98</b>	<b>0.98</b>	<b>0.99</b>	<b>0.99</b>	<b>1.00</b>	<b>1.00</b>	<b>1.01</b>	<b>1.01</b>	<b>1.01</b>	<b>1.02</b>	<b>1.03</b>	<b>1.03</b>	<b>1.03</b>	<b>1.04</b>	<b>1.04</b>	<b>1.05</b>	<b>1.05</b>	<b>0.6%</b>

**Table 64. Electric Power Projections for EMM Region (2 of 3)  
05 - Mid-Continent Area Power Pool**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	50.47	54.85	55.57	56.21	56.85	57.47	58.37	59.00	59.65	60.26	60.98	61.64	62.38	63.18	63.88	64.59	65.21	65.85	66.49	67.16	67.92	68.71	1.4%
Commercial/Other	36.94	40.01	40.69	41.25	41.70	42.20	42.92	43.42	43.92	44.45	45.02	45.50	46.18	46.79	47.25	47.63	47.84	48.07	48.24	48.37	48.52	48.63	1.3%
Industrial	56.13	57.76	57.77	58.80	60.23	61.34	62.55	63.25	64.07	64.73	65.14	65.78	66.27	67.06	68.03	69.06	69.97	70.50	71.17	71.91	72.83	73.81	1.3%
Transportation	0.79	0.85	0.87	0.89	0.98	1.07	1.15	1.22	1.29	1.35	1.42	1.48	1.55	1.61	1.67	1.72	1.75	1.74	1.72	1.69	1.67	1.64	3.4%
Total Sales	144.32	153.47	154.89	157.15	159.77	162.08	164.99	166.88	168.92	170.79	172.56	174.41	176.37	178.63	180.83	183.00	184.77	186.15	187.61	189.14	190.94	192.78	1.3%
<b>Net Energy for Load (billion kwh) 7/</b>																							
Gross International Imports	12.59	7.76	7.18	6.38	6.38	6.38	2.00	2.00	2.00	1.84	1.68	1.52	1.36	1.20	1.04	0.88	0.72	0.56	0.40	0.24	0.08	0.00	N/A
Gross International Exports	1.53	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.83	1.67	1.51	1.35	1.19	1.03	0.87	0.72	0.56	0.40	0.24	0.08	0.00	N/A
Gross Interregional Elec. Imports	12.05	9.53	8.71	8.38	8.39	8.39	5.17	4.72	4.98	4.30	3.75	3.47	3.25	2.69	2.24	1.98	2.04	1.59	1.49	1.16	0.99	1.05	-10.5%
Gross Interregional Elec. Exports	27.42	26.49	26.45	26.47	25.19	24.49	19.71	20.00	19.59	19.31	19.13	18.45	17.22	17.67	16.90	16.01	12.13	13.12	13.09	12.93	11.44	10.90	-4.1%
Purchases from cogenerators 6/	0.30	0.19	0.20	0.23	0.25	0.28	0.31	0.33	0.36	0.39	0.41	0.44	0.46	0.49	0.52	0.55	0.57	0.60	0.63	0.66	0.68	0.71	4.0%
Util. Generation for Customers	162.77	171.85	175.01	178.11	179.05	181.43	184.01	186.65	188.02	190.19	192.76	194.90	195.40	197.52	198.56	199.38	205.58	208.15	209.57	211.17	211.54	212.62	1.2%
Total Net Energy for Load	158.76	160.86	162.66	164.64	166.90	170.00	169.79	171.71	173.78	175.57	177.80	180.37	181.90	183.03	184.43	185.90	196.08	197.23	198.60	200.06	201.77	203.49	1.1%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	121.14	126.87	129.75	133.53	135.16	141.62	144.76	145.45	146.00	146.45	147.01	147.42	148.47	148.60	149.03	149.45	150.52	150.62	150.91	151.21	151.51	151.80	1.0%
Petroleum	0.94	0.40	0.35	0.29	0.27	0.27	0.34	0.28	0.31	0.31	0.32	0.29	0.29	0.28	0.28	0.31	0.31	0.27	0.27	0.25	0.25	0.28	-5.3%
Natural Gas	1.79	2.30	1.44	1.05	0.96	2.64	3.43	5.43	6.12	7.83	9.73	12.20	15.33	17.31	19.66	22.72	29.19	31.67	32.79	34.10	34.16	34.92	14.5%
Nuclear	25.41	26.28	26.28	26.28	25.68	19.87	18.40	18.36	18.41	18.39	18.46	17.70	13.97	13.97	12.22	9.50	8.15	8.15	8.15	8.15	8.15	8.15	-5.0%
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	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 4/	14.48	17.97	19.15	19.83	19.86	19.90	19.95	20.00	20.04	20.09	20.13	20.16	20.20	20.22	20.25	20.27	20.29	20.31	20.33	20.33	20.34	20.35	1.6%
Total Generation	163.76	173.81	176.96	180.98	181.93	184.30	186.88	189.52	190.89	193.06	195.64	197.77	198.27	200.39	201.44	202.25	208.45	211.03	212.44	214.05	214.41	215.50	1.3%
Sales to Customers	162.77	171.85	175.01	178.11	179.05	181.43	184.01	186.65	188.02	190.19	192.76	194.90	195.40	197.52	198.56	199.38	205.58	208.15	209.57	211.17	211.54	212.62	1.2%
Generation for Own Use	0.99	1.95	1.95	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	5.0%
<b>Cogenerators</b>																							
Coal	2.88	2.83	2.83	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.82	2.82	2.82	2.82	-0.1%
Petroleum	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	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.9%
Natural Gas	0.05	0.05	0.05	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	0.06	0.06	0.06	0.06	0.06	0.06	1.1%
Other Gaseous Fuels	0.03	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	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	4.0%
Renewable	0.99	0.99	1.01	1.03	1.05	1.08	1.10	1.11	1.13	1.14	1.16	1.17	1.18	1.19	1.21	1.23	1.24	1.26	1.27	1.28	1.29	1.30	1.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	3.98	3.95	3.98	4.00	4.03	4.05	4.07	4.09	4.10	4.12	4.13	4.15	4.15	4.17	4.18	4.20	4.22	4.23	4.24	4.26	4.27	4.29	0.3%
Sales to Utilities	0.30	0.19	0.20	0.23	0.25	0.28	0.31	0.33	0.36	0.39	0.41	0.44	0.46	0.49	0.52	0.55	0.57	0.60	0.63	0.66	0.68	0.71	4.0%
Generation for Own Use	3.67	3.76	3.78	3.78	3.77	3.77	3.76	3.75	3.74	3.73	3.72	3.71	3.69	3.68	3.66	3.66	3.65	3.63	3.62	3.60	3.59	3.58	-0.1%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	7.3	6.9	6.9	6.8	6.8	6.8	6.5	6.5	6.5	6.5	6.5	6.6	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.1	-0.8%
Commercial	6.5	6.1	6.1	6.0	6.0	5.9	5.7	5.7	5.7	5.7	5.7	5.7	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.3	-0.9%
Industrial	4.3	4.1	4.1	4.0	4.0	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.4	3.4	-1.1%
Transportation	5.6	5.3	5.2	5.2	5.1	5.0	4.9	4.9	4.9	4.8	4.8	4.8	4.7	4.6	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.3	-1.3%
All Sectors Average	5.9	5.6	5.6	5.5	5.5	5.5	5.2	5.2	5.2	5.2	5.2	5.3	5.3	5.1	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	-0.9%

**Table 64. Electric Power Projections for EMM Region (3 of 3)  
05 - Mid-Continent Area Power Pool**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.33	1.39	1.42	1.47	1.49	1.56	1.60	1.61	1.61	1.62	1.63	1.63	1.64	1.64	1.65	1.65	1.67	1.67	1.67	1.67	1.67	1.68	1.1%
Natural Gas	0.02	0.03	0.02	0.01	0.01	0.02	0.03	0.05	0.05	0.06	0.08	0.09	0.12	0.13	0.15	0.17	0.22	0.24	0.24	0.25	0.25	0.26	11.4%
Oil	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.6%
Total	1.37	1.42	1.45	1.48	1.50	1.59	1.63	1.66	1.67	1.69	1.71	1.73	1.76	1.78	1.80	1.83	1.89	1.91	1.92	1.93	1.93	1.94	1.6%
Emissions(million short tons) 9/																							
Carbon Dioxide	137.09	148.84	151.49	155.72	157.54	166.07	170.49	172.29	173.42	174.66	176.09	177.40	179.86	180.77	182.22	184.02	188.35	189.20	189.87	190.66	190.90	191.54	1.5%
Sulfur Dioxide	0.48	0.47	0.43	0.43	0.44	0.46	0.47	0.48	0.47	0.47	0.49	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	-0.1%
Nitrogen Oxide	0.39	0.29	0.30	0.31	0.31	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.37	-0.3%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 65. Electric Power Projections for EMM Region (1 of 3)  
06 - Northeast Power Coordinating Council/New York**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	4.82	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	-0.2%
Other Fossil Steam 2/	12.33	12.33	12.33	12.33	10.74	9.67	9.20	8.45	8.45	8.45	8.45	8.45	8.45	8.34	8.34	7.18	7.18	7.18	7.18	7.08	7.08	6.70	-2.7%
Combined Cycle	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.62	1.62	2.42	2.42	3.13	3.81	4.12	5.04	5.55	6.45	6.58	6.58	6.58	6.62	9.0%
Combustion Turbine/Diesel	3.71	3.71	3.71	3.71	3.71	3.70	4.46	4.46	4.85	5.11	5.35	6.18	6.47	6.51	6.60	6.66	6.67	6.70	6.70	6.70	6.70	6.70	2.7%
Nuclear Power	4.96	4.96	4.96	4.96	4.03	4.03	4.03	4.03	4.03	4.03	2.93	2.93	2.93	2.93	2.93	2.11	1.14	1.14	1.14	1.14	1.14	1.14	-6.5%
Pumped Storage/Other 3/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	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	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 4/	4.60	4.59	4.67	4.81	4.88	4.95	5.02	5.17	5.17	5.17	5.17	5.18	5.18	5.18	5.19	5.19	5.20	5.20	5.20	5.20	5.20	5.21	0.6%
<b>Total Capability</b>	<b>32.69</b>	<b>32.52</b>	<b>32.59</b>	<b>32.73</b>	<b>30.28</b>	<b>29.29</b>	<b>29.63</b>	<b>29.03</b>	<b>30.06</b>	<b>30.32</b>	<b>30.26</b>	<b>31.09</b>	<b>32.09</b>	<b>32.71</b>	<b>33.10</b>	<b>32.13</b>	<b>31.67</b>	<b>32.60</b>	<b>32.73</b>	<b>32.64</b>	<b>32.64</b>	<b>32.30</b>	<b>-0.1%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	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	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	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	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	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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
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	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	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	0.63	0.63	1.43	1.43	2.14	2.82	3.12	4.05	4.56	5.46	5.59	5.59	5.59	5.63	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.99	1.39	1.65	1.89	2.72	3.01	3.05	3.14	3.20	3.21	3.23	3.23	3.23	3.24	3.24	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	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	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	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 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.99</b>	<b>0.99</b>	<b>2.02</b>	<b>2.28</b>	<b>3.33</b>	<b>4.16</b>	<b>5.16</b>	<b>5.89</b>	<b>6.28</b>	<b>7.28</b>	<b>7.80</b>	<b>8.72</b>	<b>8.86</b>	<b>8.86</b>	<b>8.87</b>	<b>8.91</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.99</b>	<b>0.99</b>	<b>2.02</b>	<b>2.28</b>	<b>3.33</b>	<b>4.16</b>	<b>5.16</b>	<b>5.89</b>	<b>6.28</b>	<b>7.28</b>	<b>7.80</b>	<b>8.72</b>	<b>8.86</b>	<b>8.86</b>	<b>8.87</b>	<b>8.91</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>	<b>2.69</b>	<b>3.76</b>	<b>4.48</b>	<b>5.22</b>	<b>5.22</b>	<b>5.22</b>	<b>6.33</b>	<b>6.33</b>	<b>6.33</b>	<b>6.44</b>	<b>6.44</b>	<b>8.41</b>	<b>9.38</b>	<b>9.38</b>	<b>9.38</b>	<b>9.48</b>	<b>9.48</b>	<b>9.87</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
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	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.0%
Petroleum	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Natural Gas	4.74	4.74	4.74	4.74	4.75	4.75	4.75	4.75	4.75	4.76	4.76	4.76	4.76	4.76	4.77	4.77	4.77	4.78	4.78	4.78	4.79	4.79	0.1%
Other Gaseous Fuels	0.03	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	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	3.7%
Renewables	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0%
<b>Total</b>	<b>5.35</b>	<b>5.37</b>	<b>5.37</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.39</b>	<b>5.39</b>	<b>5.40</b>	<b>5.40</b>	<b>5.41</b>	<b>5.41</b>	<b>5.41</b>	<b>5.42</b>	<b>5.42</b>	<b>5.43</b>	<b>5.43</b>	<b>5.44</b>	<b>5.45</b>	<b>5.45</b>	<b>5.46</b>	<b>5.46</b>	<b>0.1%</b>

**Table 65. Electric Power Projections for EMM Region (2 of 3)  
06 - Northeast Power Coordinating Council/New York**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	40.21	46.36	47.03	47.61	48.18	48.61	49.17	49.61	50.10	50.69	51.29	51.52	51.91	52.24	52.58	52.78	53.08	53.40	53.72	54.00	54.33	54.68	1.4%
Commercial/Other	64.72	69.50	70.30	71.08	71.76	72.27	72.96	73.27	74.06	74.78	75.54	75.64	76.24	76.60	76.83	76.70	76.61	76.55	76.44	76.19	75.89	75.49	0.7%
Industrial	25.10	29.73	29.80	30.25	30.80	31.24	31.69	31.92	32.20	32.45	32.59	32.74	32.79	33.11	33.42	33.74	34.11	34.24	34.44	34.62	34.84	35.04	1.5%
Transportation	1.03	1.11	1.13	1.15	1.27	1.38	1.48	1.57	1.64	1.72	1.79	1.87	1.94	2.01	2.07	2.14	2.16	2.13	2.10	2.07	2.03	1.99	3.0%
Total Sales	131.06	146.70	148.27	150.09	152.01	153.50	155.29	156.37	158.01	159.64	161.21	161.77	162.88	163.95	164.90	165.35	165.96	166.32	166.70	166.89	167.08	167.20	1.1%
<b>Net Energy for Load (billion kwh) 7/</b>																							
Gross International Imports	4.13	16.75	18.64	19.90	19.76	15.80	15.71	17.11	13.85	13.14	12.49	8.82	8.77	4.12	3.09	1.23	1.36	1.71	1.82	2.10	2.47	2.76	-1.8%
Gross International Exports	1.80	1.43	1.44	1.45	1.47	1.48	1.49	1.50	1.51	1.52	1.54	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	-0.7%
Gross Interregional Elec. Imports	8.39	20.22	21.27	24.08	26.40	31.06	30.19	30.99	29.77	30.50	30.25	31.41	29.03	29.54	29.95	25.98	25.41	26.61	27.00	27.82	27.07	27.38	5.5%
Gross Interregional Elec. Exports	22.37	15.90	15.52	15.11	14.72	13.72	13.69	14.60	13.98	12.88	12.54	9.50	7.92	7.08	8.56	7.90	6.04	6.61	6.82	7.13	6.98	7.63	-4.8%
Purchases from cogenerators 6/	28.11	26.98	26.99	26.99	27.00	27.01	27.02	27.03	27.04	27.05	27.06	27.07	27.13	27.15	27.17	27.19	27.21	27.23	27.25	27.27	27.29	27.31	-0.1%
Util. Generation for Customers	128.13	110.88	109.20	106.61	106.03	105.91	108.63	108.36	113.82	114.35	116.48	116.51	118.39	122.72	125.64	131.10	130.22	129.62	129.73	129.13	129.54	129.72	0.1%
Total Net Energy for Load	144.60	157.50	159.13	161.01	163.00	164.57	166.36	167.38	168.99	170.64	172.20	172.77	173.85	174.90	175.76	176.05	176.61	177.01	177.43	177.64	177.85	177.98	0.9%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	30.34	29.76	30.56	31.10	31.83	32.70	32.66	32.61	32.55	32.44	32.35	32.14	32.22	32.21	32.19	32.23	32.29	32.31	32.34	32.37	32.40	32.36	0.3%
Petroleum	15.33	17.54	15.86	12.75	12.22	15.24	14.17	13.89	12.97	12.24	10.02	10.84	7.13	6.39	6.30	5.32	5.73	5.25	4.81	4.44	4.72	4.84	-5.1%
Natural Gas	21.42	10.02	9.00	8.43	8.31	8.89	12.38	11.83	18.19	19.49	25.05	30.85	36.66	41.73	44.76	51.15	55.25	61.67	62.19	61.91	62.01	62.11	5.0%
Nuclear	31.31	34.48	34.55	34.54	33.44	28.47	28.47	28.43	28.35	28.27	27.00	20.48	20.48	20.48	20.48	20.48	15.00	8.42	8.42	8.42	8.42	8.42	-5.8%
Pumped Storage/Other 3/	-1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 4/	31.38	19.55	19.72	20.27	20.72	21.09	21.44	22.08	22.24	22.39	22.54	22.69	22.38	22.39	22.40	22.42	22.44	22.45	22.46	22.47	22.47	22.47	-1.5%
Total Generation	128.62	111.36	109.69	107.09	106.52	106.39	109.11	108.84	114.30	114.83	116.96	117.00	118.87	123.20	126.13	131.59	130.70	130.10	130.22	129.61	130.03	130.20	0.1%
Sales to Customers	128.13	110.88	109.20	106.61	106.03	105.91	108.63	108.36	113.82	114.35	116.48	116.51	118.39	122.72	125.64	131.10	130.22	129.62	129.73	129.13	129.54	129.72	0.1%
Generation for Own Use	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	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.0%
<b>Cogenerators</b>																							
Coal	2.40	2.39	2.40	2.38	2.38	2.37	2.36	2.36	2.35	2.34	2.34	2.33	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	-0.1%
Petroleum	0.50	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78	2.0%
Natural Gas	28.50	27.98	27.99	28.00	28.00	28.01	28.02	28.03	28.04	28.05	28.06	28.07	28.09	28.10	28.11	28.13	28.15	28.16	28.18	28.20	28.21	28.23	0.0%
Other Gaseous Fuels	0.43	0.80	0.80	0.80	0.81	0.82	0.83	0.83	0.83	0.86	0.86	0.87	0.89	0.90	0.91	0.94	0.95	0.96	0.99	1.00	1.01	1.02	4.0%
Renewable	1.12	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.18	1.19	1.20	1.20	1.21	1.22	1.22	0.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	32.96	32.96	32.99	32.99	33.01	33.03	33.06	33.07	33.09	33.13	33.14	33.17	33.25	33.28	33.32	33.37	33.41	33.45	33.51	33.55	33.58	33.62	0.1%
Sales to Utilities	28.11	26.98	26.99	26.99	27.00	27.01	27.02	27.03	27.04	27.05	27.06	27.07	27.13	27.15	27.17	27.19	27.21	27.23	27.25	27.27	27.29	27.31	-0.1%
Generation for Own Use	4.85	5.98	6.00	6.00	6.02	6.02	6.04	6.05	6.05	6.08	6.08	6.10	6.12	6.13	6.14	6.18	6.20	6.22	6.26	6.28	6.29	6.31	1.2%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	13.5	13.0	12.6	12.3	12.1	12.2	12.0	12.2	11.8	11.7	11.5	11.8	11.6	11.6	11.6	11.6	11.7	11.8	11.8	11.8	11.8	11.8	-0.6%
Commercial	11.7	10.9	10.3	9.9	9.6	9.6	9.3	9.5	9.0	8.9	8.6	8.7	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.5	-1.4%
Industrial	5.5	5.4	5.1	5.0	4.9	5.1	5.1	5.4	5.1	5.1	4.9	5.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	4.9	5.0	-0.4%
Transportation	8.9	8.3	8.0	7.8	7.6	7.5	7.4	7.3	7.2	7.2	7.0	7.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	-1.1%
All Sectors Average	10.9	10.4	10.0	9.6	9.4	9.5	9.3	9.5	9.1	9.0	8.8	8.9	8.7	8.6	8.6	8.6	8.7	8.7	8.7	8.7	8.7	8.8	-1.0%



**Table 65. Electric Power Projections for EMM Region (3 of 3)  
06 - Northeast Power Coordinating Council/New York**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.31	0.31	0.32	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.4%
Natural Gas	0.24	0.10	0.09	0.08	0.08	0.09	0.13	0.12	0.17	0.18	0.22	0.27	0.31	0.34	0.36	0.40	0.43	0.46	0.47	0.46	0.46	0.46	3.1%
Oil	0.16	0.18	0.16	0.13	0.13	0.16	0.14	0.14	0.13	0.13	0.10	0.11	0.07	0.06	0.06	0.05	0.06	0.05	0.05	0.04	0.05	0.05	-5.2%
Total	0.70	0.59	0.57	0.54	0.54	0.58	0.61	0.60	0.64	0.64	0.66	0.72	0.71	0.74	0.76	0.79	0.82	0.85	0.85	0.85	0.85	0.85	0.9%
Emissions(million short tons) 9/																							
Carbon Dioxide	66.00	52.86	51.51	48.88	49.18	53.29	54.58	53.95	56.04	55.84	55.87	59.47	58.20	59.41	60.49	61.89	63.95	65.86	65.60	65.17	65.53	65.55	0.0%
Sulfur Dioxide	0.47	0.35	0.29	0.27	0.28	0.29	0.28	0.28	0.27	0.25	0.26	0.23	0.21	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	-3.3%
Nitrogen Oxide	0.11	0.09	0.09	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.10	0.10	-0.1%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 66. Electric Power Projections for EMM Region (1 of 3)  
07 - Northeast Power Coordinating Council/New England**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.77	2.78	2.80	2.81	2.81	2.82	2.82	2.82	2.82	2.83	2.83	0.1%
Other Fossil Steam 2/	8.13	8.03	8.03	8.03	7.12	7.12	7.12	6.92	6.63	6.63	6.63	5.83	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	-1.7%
Combined Cycle	1.31	1.57	1.57	2.10	2.64	3.22	3.50	3.50	3.50	3.50	3.97	3.97	4.74	5.55	5.79	6.10	6.43	6.43	6.43	6.45	6.51	6.51	7.6%
Combustion Turbine/Diesel	1.98	2.18	2.16	2.17	2.21	2.21	2.66	3.47	4.30	4.95	5.24	6.06	6.19	6.20	6.45	6.58	6.58	6.58	6.58	6.58	6.58	6.58	5.6%
Nuclear Power	4.32	4.32	4.32	4.32	4.32	4.32	4.32	3.45	3.45	3.45	3.45	3.45	3.45	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	-2.9%
Pumped Storage/Other 3/	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	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	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 4/	2.98	3.01	3.13	3.20	3.25	3.30	3.36	3.43	3.51	3.59	3.66	3.72	3.73	3.74	3.74	3.77	3.82	3.83	3.83	3.84	3.84	3.85	1.2%
<b>Total Capability</b>	<b>23.13</b>	<b>23.52</b>	<b>23.62</b>	<b>24.23</b>	<b>23.96</b>	<b>24.59</b>	<b>25.37</b>	<b>25.19</b>	<b>25.81</b>	<b>26.54</b>	<b>27.38</b>	<b>27.45</b>	<b>28.13</b>	<b>27.81</b>	<b>28.31</b>	<b>28.79</b>	<b>29.17</b>	<b>29.19</b>	<b>29.19</b>	<b>29.22</b>	<b>29.29</b>	<b>29.29</b>	<b>1.1%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	N/A
Combustion Turbine/Diesel	0.00	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	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	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	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	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 4/	0.00	0.03	0.10	0.17	0.22	0.27	0.32	0.39	0.46	0.54	0.61	0.66	0.66	0.66	0.66	0.68	0.73	0.73	0.73	0.73	0.73	0.73	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.52</b>	<b>0.59</b>	<b>0.66</b>	<b>0.71</b>	<b>0.76</b>	<b>0.81</b>	<b>0.88</b>	<b>0.95</b>	<b>1.02</b>	<b>1.10</b>	<b>1.15</b>	<b>1.15</b>	<b>1.15</b>	<b>1.15</b>	<b>1.17</b>	<b>1.21</b>	<b>1.21</b>	<b>1.21</b>	<b>1.21</b>	<b>1.21</b>	<b>1.21</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	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	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	0.53	1.07	1.65	1.93	1.93	1.93	2.40	2.40	3.17	3.99	4.22	4.53	4.86	4.86	4.86	4.86	4.88	4.94	4.94	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.05	0.05	0.49	1.31	2.14	2.80	3.09	3.90	4.03	4.04	4.29	4.43	4.43	4.43	4.43	4.43	4.43	4.43	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	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	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	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 4/	0.00	0.00	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.14	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.59</b>	<b>1.17</b>	<b>1.75</b>	<b>2.49</b>	<b>3.31</b>	<b>4.15</b>	<b>4.80</b>	<b>5.57</b>	<b>6.40</b>	<b>7.32</b>	<b>8.16</b>	<b>8.67</b>	<b>9.13</b>	<b>9.46</b>	<b>9.48</b>	<b>9.48</b>	<b>9.51</b>	<b>9.58</b>	<b>9.59</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.52</b>	<b>0.64</b>	<b>1.25</b>	<b>1.88</b>	<b>2.51</b>	<b>3.29</b>	<b>4.19</b>	<b>5.10</b>	<b>5.83</b>	<b>6.67</b>	<b>7.55</b>	<b>8.47</b>	<b>9.31</b>	<b>9.82</b>	<b>10.30</b>	<b>10.68</b>	<b>10.69</b>	<b>10.70</b>	<b>10.73</b>	<b>10.79</b>	<b>10.80</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.14</b>	<b>0.15</b>	<b>0.15</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>2.13</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>3.23</b>	<b>3.47</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>4.64</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
Capacity																							
Coal	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	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.0%
Petroleum	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	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.1%
Natural Gas	1.18	1.64	1.64	1.64	1.64	1.64	1.64	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	1.65	1.65	1.6%
Other Gaseous Fuels	0.08	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17	3.7%
Renewables	0.95	0.96	0.97	0.99	1.01	1.02	1.04	1.05	1.07	1.08	1.09	1.11	1.11	1.12	1.14	1.15	1.17	1.18	1.19	1.20	1.21	1.22	1.2%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0%
<b>Total</b>	<b>2.77</b>	<b>3.30</b>	<b>3.32</b>	<b>3.34</b>	<b>3.36</b>	<b>3.37</b>	<b>3.39</b>	<b>3.41</b>	<b>3.42</b>	<b>3.44</b>	<b>3.46</b>	<b>3.47</b>	<b>3.48</b>	<b>3.50</b>	<b>3.51</b>	<b>3.53</b>	<b>3.55</b>	<b>3.56</b>	<b>3.58</b>	<b>3.59</b>	<b>3.60</b>	<b>3.62</b>	<b>1.2%</b>

**Table 66. Electric Power Projections for EMM Region (2 of 3)  
07 - Northeast Power Coordinating Council/New England**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Demand</b> (billion kilowatthours)																								
Residential	41.43	44.56	44.99	45.53	45.77	46.42	47.19	47.44	48.07	48.72	49.41	49.83	50.31	50.66	50.94	51.44	51.84	52.16	52.45	52.77	53.12	53.49	1.2%	
Commercial/Other	44.62	47.70	48.03	48.53	48.55	49.11	49.79	50.06	50.79	51.53	52.24	52.71	53.33	53.68	53.93	54.26	54.40	54.44	54.39	54.29	54.16	53.99	0.9%	
Industrial	24.94	25.91	25.93	26.33	26.84	27.23	27.63	27.85	28.10	28.32	28.44	28.58	28.68	28.92	29.21	29.50	29.81	29.93	30.11	30.26	30.45	30.61	0.9%	
Transportation	0.88	0.95	0.97	0.99	1.10	1.20	1.29	1.37	1.44	1.51	1.59	1.66	1.73	1.79	1.86	1.92	1.95	1.93	1.90	1.88	1.84	1.81	3.3%	
Total Sales	111.87	119.12	119.92	121.39	122.26	123.96	125.90	126.72	128.41	130.08	131.68	132.78	134.05	135.05	135.94	137.12	138.00	138.45	138.85	139.20	139.57	139.89	1.0%	
<b>Net Energy for Load (billion kwh) 7/</b>																								
Gross International Imports	15.44	13.48	10.05	9.93	9.92	10.01	9.93	9.93	9.93	9.79	9.64	9.49	9.32	9.19	9.02	8.80	8.53	8.46	8.38	8.25	8.10	8.04	-2.9%	
Gross International Exports	0.19	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.20	0.18	0.16	0.15	0.13	0.11	0.09	0.08	0.06	0.04	0.03	0.01	0.00	N/A	
Gross Interregional Elec. Imports	18.61	13.14	13.04	12.86	12.54	12.01	11.99	12.90	12.26	11.32	11.10	8.23	6.78	6.06	7.62	7.05	5.35	6.03	6.35	6.76	6.73	7.42	-4.1%	
Gross Interregional Elec. Exports	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.01	0.02	0.04	0.02	0.02	0.02	0.02	0.03	N/A	
Purchases from cogenerators 6/	9.71	8.71	8.72	8.76	8.80	8.84	8.89	8.93	8.97	9.02	9.06	9.11	9.15	9.20	9.25	9.31	9.36	9.41	9.47	9.52	9.57	9.63	0.0%	
Util. Generation for Customers	77.30	91.87	96.17	97.90	99.02	101.15	103.20	103.04	105.34	108.02	109.93	113.90	116.68	118.40	117.81	119.67	122.40	122.20	122.33	122.35	122.86	122.53	2.1%	
Total Net Energy for Load	120.88	126.99	127.76	129.24	130.07	131.78	133.77	134.56	136.26	137.92	139.52	140.54	141.76	142.71	143.58	144.72	145.52	146.02	146.45	146.83	147.23	147.59	0.9%	
<b>Generation by Fuel Type</b> (billion kilowatthours)																								
Coal	13.16	19.91	19.95	20.08	20.22	20.35	20.39	20.49	20.49	20.49	20.48	20.58	20.60	20.73	20.84	20.88	20.92	20.96	20.99	21.00	21.03	21.07	2.2%	
Petroleum	22.25	14.42	17.57	16.03	16.34	14.73	12.68	12.15	10.10	8.39	7.23	5.05	3.65	3.36	3.20	2.62	2.54	2.47	2.50	2.66	2.74	2.63	-9.3%	
Natural Gas	11.26	16.50	16.86	19.56	19.99	23.37	27.16	31.96	35.69	39.67	42.35	48.10	52.18	58.06	61.69	63.92	66.50	66.28	66.31	66.14	66.51	66.23	8.4%	
Nuclear	20.69	29.19	29.33	29.44	29.46	29.48	29.50	24.61	24.89	24.96	25.03	25.10	25.11	21.08	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	-0.9%	
Pumped Storage/Other 3/	-0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-26.7%	
Renewable 4/	11.81	13.29	13.89	14.23	14.45	14.66	14.91	15.26	15.60	15.94	16.27	16.50	16.56	16.60	16.65	16.81	17.01	17.05	17.08	17.11	17.14	17.16	1.7%	
Total Generation	78.74	93.31	97.61	99.34	100.46	102.59	104.64	104.47	106.77	109.45	111.36	115.32	118.10	119.83	119.24	121.09	123.82	123.62	123.75	123.77	124.28	123.96	2.1%	
Sales to Customers	77.30	91.87	96.17	97.90	99.02	101.15	103.20	103.04	105.34	108.02	109.93	113.90	116.68	118.40	117.81	119.67	122.40	122.20	122.33	122.35	122.86	122.53	2.1%	
Generation for Own Use	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42	1.42	-0.1%	
<b>Cogenerators</b>																								
Coal	2.85	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.18	2.18	2.18	2.18	-1.2%	
Petroleum	0.69	0.85	0.85	0.85	0.85	0.85	0.86	0.86	0.86	0.87	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.92	0.92	0.93	1.3%	
Natural Gas	7.23	7.01	7.01	7.01	7.02	7.02	7.02	7.02	7.03	7.03	7.03	7.04	7.04	7.04	7.05	7.05	7.06	7.06	7.07	7.07	7.08	7.08	-0.1%	
Other Gaseous Fuels	0.59	1.09	1.09	1.09	1.10	1.10	1.12	1.13	1.13	1.16	1.16	1.18	1.20	1.22	1.23	1.27	1.28	1.30	1.33	1.35	1.37	1.38	4.0%	
Renewable	5.14	5.72	5.82	5.91	6.02	6.12	6.22	6.29	6.37	6.44	6.50	6.57	6.62	6.68	6.75	6.83	6.92	6.97	7.02	7.08	7.14	7.21	1.6%	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	16.50	16.85	16.96	17.05	17.17	17.28	17.40	17.49	17.57	17.68	17.75	17.84	17.92	18.00	18.10	18.23	18.34	18.42	18.52	18.60	18.69	18.78	0.6%	
Sales to Utilities	9.71	8.71	8.72	8.76	8.80	8.84	8.89	8.93	8.97	9.02	9.06	9.11	9.15	9.20	9.25	9.31	9.36	9.41	9.47	9.52	9.57	9.63	0.0%	
Generation for Own Use	6.79	8.14	8.24	8.29	8.37	8.44	8.51	8.56	8.60	8.66	8.69	8.74	8.77	8.80	8.84	8.92	8.98	9.01	9.06	9.08	9.12	9.16	1.4%	
<b>End-Use Prices</b> (1998 cents per kilowatthour)																								
Residential	11.3	11.0	11.0	10.8	10.9	10.8	10.5	10.7	10.6	10.4	10.2	10.3	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	-0.5%	
Commercial	9.9	9.3	9.3	9.1	9.4	9.2	8.8	8.9	8.6	8.2	7.9	7.9	7.6	7.6	7.6	7.5	7.4	7.4	7.4	7.5	7.5	7.5	-1.3%	
Industrial	7.5	7.2	7.1	6.9	7.1	6.8	6.6	6.7	6.4	6.1	5.9	5.8	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.5	5.6	5.6	-1.3%	
Transportation	8.2	7.5	7.5	7.4	7.2	7.0	6.9	7.0	7.0	6.9	6.8	6.8	6.7	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	-0.8%	
All Sectors Average	9.9	9.5	9.5	9.3	9.4	9.2	9.0	9.1	8.8	8.6	8.3	8.3	8.1	8.1	8.1	8.0	8.0	8.0	8.1	8.1	8.1	8.1	-0.9%	

**Table 66. Electric Power Projections for EMM Region (3 of 3)  
07 - Northeast Power Coordinating Council/New England**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020	
Fuel Consumption (quadrillion Btu) 8/																								
Coal	0.13	0.20	0.20	0.20	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	0.21	0.21	0.21	0.21	0.21	2.2%	
Natural Gas	0.20	0.15	0.16	0.17	0.17	0.19	0.22	0.28	0.32	0.35	0.37	0.41	0.43	0.47	0.50	0.51	0.52	0.52	0.52	0.52	0.52	0.52	4.5%	
Oil	0.23	0.16	0.19	0.18	0.18	0.16	0.14	0.13	0.11	0.09	0.08	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-9.3%	
Total	0.56	0.51	0.55	0.55	0.55	0.56	0.57	0.62	0.64	0.65	0.65	0.68	0.68	0.71	0.74	0.75	0.76	0.76	0.76	0.76	0.76	0.76	1.4%	
Emissions(million short tons) 9/																								
Carbon Dioxide	47.93	43.12	46.39	46.01	46.09	45.89	46.04	48.67	49.10	49.34	49.20	49.96	49.77	51.73	53.22	53.34	54.30	54.15	54.25	54.29	54.52	54.31	0.6%	
Sulfur Dioxide	0.25	0.20	0.17	0.17	0.18	0.18	0.17	0.17	0.16	0.15	0.16	0.14	0.13	0.14	0.14	0.14	0.14	0.15	0.14	0.15	0.15	0.13	0.13	-3.0%
Nitrogen Oxide	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	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.9%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 67. Electric Power Projections for EMM Region (1 of 3)  
08 - Southeastern Electric Reliability Council/Florida**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Generating Capacity 1/</b> (gigawatts)																								
Coal Steam	9.46	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.75	9.76	9.78	9.82	9.90	9.97	10.07	0.3%	
Other Fossil Steam 2/	14.27	13.79	13.79	13.79	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	-0.8%	
Combined Cycle	4.42	4.47	4.47	5.03	5.48	6.47	7.99	9.27	10.01	10.88	11.44	12.13	12.83	14.02	15.26	16.47	17.07	17.91	18.88	19.44	19.85	20.24	7.2%	
Combustion Turbine/Diesel	5.52	5.70	5.71	5.71	6.30	6.18	6.11	6.14	6.46	6.55	6.69	6.57	6.92	7.13	7.32	7.78	7.88	7.95	8.17	8.21	8.38	8.51	2.0%	
Nuclear Power	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.06	3.06	3.06	3.06	3.06	3.06	2.37	1.68	1.68	1.68	0.84	0.84	0.84	0.84	0.84	-6.7%	
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	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	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 4/	0.54	0.54	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	1.4%	
<b>Total Capability</b>	<b>38.10</b>	<b>38.14</b>	<b>38.20</b>	<b>38.77</b>	<b>38.04</b>	<b>38.92</b>	<b>40.38</b>	<b>40.87</b>	<b>41.95</b>	<b>42.91</b>	<b>43.63</b>	<b>44.19</b>	<b>45.25</b>	<b>45.96</b>	<b>46.70</b>	<b>48.40</b>	<b>49.12</b>	<b>49.21</b>	<b>50.45</b>	<b>51.13</b>	<b>51.78</b>	<b>52.43</b>	<b>1.5%</b>	
<b>Cumulative Planned Additions 5/</b>																								
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	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	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	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	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	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	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	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	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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
<b>Total (planned)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>N/A</b>	
<b>Cumulative Unplanned Additions 5/</b>																								
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	0.00	0.01	0.02	0.03	0.04	0.08	0.16	0.23	0.33	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	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	0.10	0.55	1.50	3.03	4.31	5.05	5.92	6.48	7.17	7.87	9.05	10.29	11.51	12.11	12.95	13.92	14.48	14.89	15.28	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.01	0.60	0.63	0.65	0.67	0.99	1.11	1.25	1.39	1.85	2.06	2.25	2.71	2.81	2.88	3.10	3.14	3.31	3.45	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	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	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	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 4/	0.00	0.00	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.17	0.18	0.18	0.20	N/A	
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.06</b>	<b>0.19</b>	<b>1.22</b>	<b>2.22</b>	<b>3.76</b>	<b>5.08</b>	<b>6.15</b>	<b>7.14</b>	<b>7.86</b>	<b>8.69</b>	<b>9.85</b>	<b>11.26</b>	<b>12.69</b>	<b>14.39</b>	<b>15.11</b>	<b>16.04</b>	<b>17.28</b>	<b>17.96</b>	<b>18.61</b>	<b>19.25</b>	<b>N/A</b>	
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.06</b>	<b>0.64</b>	<b>1.68</b>	<b>2.67</b>	<b>4.22</b>	<b>5.53</b>	<b>6.61</b>	<b>7.60</b>	<b>8.31</b>	<b>9.15</b>	<b>10.31</b>	<b>11.71</b>	<b>13.15</b>	<b>14.85</b>	<b>15.56</b>	<b>16.49</b>	<b>17.73</b>	<b>18.41</b>	<b>19.07</b>	<b>19.71</b>	<b>N/A</b>	
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.32</b>	<b>1.48</b>	<b>1.49</b>	<b>3.26</b>	<b>3.40</b>	<b>3.48</b>	<b>4.31</b>	<b>4.31</b>	<b>4.34</b>	<b>4.34</b>	<b>4.60</b>	<b>4.71</b>	<b>5.40</b>	<b>6.09</b>	<b>6.09</b>	<b>6.09</b>	<b>6.93</b>	<b>6.93</b>	<b>6.93</b>	<b>6.93</b>	<b>6.93</b>	<b>N/A</b>	
<b>Cogenerators 6/</b>																								
<b>Capacity</b>																								
Coal	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	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	N/A	
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%	
Natural Gas	1.16	1.17	1.17	1.17	1.18	1.18	1.18	1.19	1.19	1.20	1.20	1.20	1.21	1.21	1.22	1.22	1.23	1.23	1.24	1.25	1.25	1.26	0.4%	
Other Gaseous Fuels	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.7%	
Renewables	0.50	0.50	0.51	0.52	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.67	0.68	0.68	1.5%	
Other	0.02	0.02	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3.0%	
<b>Total</b>	<b>2.38</b>	<b>2.40</b>	<b>2.42</b>	<b>2.43</b>	<b>2.45</b>	<b>2.46</b>	<b>2.48</b>	<b>2.49</b>	<b>2.51</b>	<b>2.52</b>	<b>2.53</b>	<b>2.55</b>	<b>2.56</b>	<b>2.57</b>	<b>2.58</b>	<b>2.60</b>	<b>2.62</b>	<b>2.63</b>	<b>2.65</b>	<b>2.66</b>	<b>2.67</b>	<b>2.69</b>	<b>0.5%</b>	

**Table 67. Electric Power Projections for EMM Region (2 of 3)  
08 - Southeastern Electric Reliability Council/Florida**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	84.49	85.67	87.57	89.32	91.17	93.03	94.82	96.49	98.22	100.12	102.05	103.82	105.37	106.93	108.50	110.00	111.61	113.02	114.52	115.96	117.58	119.22	1.6%
Commercial/Other	72.14	75.65	77.29	78.79	80.19	81.62	83.13	84.49	85.86	87.43	89.03	90.37	92.01	93.46	94.66	95.63	96.51	97.29	98.03	98.57	99.18	99.60	1.5%
Industrial	17.08	14.15	14.17	14.42	14.78	15.07	15.38	15.62	15.85	16.08	16.24	16.45	16.65	16.91	17.22	17.52	17.82	18.01	18.26	18.49	18.76	19.03	0.5%
Transportation	0.84	0.88	0.90	0.93	1.03	1.13	1.23	1.32	1.40	1.48	1.56	1.64	1.72	1.80	1.88	1.96	2.01	2.01	2.00	1.99	1.97	1.95	3.9%
Total Sales	174.54	176.34	179.93	183.46	187.16	190.85	194.56	197.92	201.32	205.10	208.88	212.29	215.76	219.11	222.26	225.12	227.94	230.32	232.81	235.00	237.49	239.80	1.5%
<b>Net Energy for Load (billion kwh) 7/</b>																							
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	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	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 Elec. Imports	22.40	28.51	32.42	35.18	37.40	36.68	31.99	29.14	27.95	27.36	29.15	28.00	27.56	26.00	25.59	20.86	18.40	19.36	17.60	16.06	14.45	13.60	-2.2%
Gross Interregional Elec. Exports	5.56	0.68	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-29.6%
Purchases from cogenerators 6/	8.86	10.02	10.04	10.10	10.16	10.23	10.27	10.32	10.37	10.42	10.47	10.52	10.58	10.63	10.69	10.75	10.80	10.86	10.92	10.97	11.03	11.08	1.0%
Util. Generation for Customers	168.47	149.73	148.90	149.75	151.31	155.73	164.09	170.25	174.82	179.23	181.30	185.87	189.80	194.67	198.21	205.65	210.86	212.39	216.68	220.36	224.53	227.77	1.4%
Total Net Energy for Load	194.17	187.58	191.35	195.02	198.88	202.63	206.35	209.71	213.15	217.01	220.92	224.39	227.93	231.30	234.48	237.25	240.06	242.60	245.20	247.39	250.00	252.45	1.2%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	60.33	66.51	66.77	67.81	69.27	70.31	70.24	70.14	70.04	70.34	70.36	69.49	69.36	69.34	69.67	69.98	70.40	70.78	71.12	71.71	72.41	73.46	0.9%
Petroleum	40.92	26.36	26.81	23.47	19.37	16.83	16.20	17.96	17.54	16.61	15.65	14.12	12.75	12.57	12.25	12.74	13.59	12.96	12.06	11.74	11.84	11.60	-5.6%
Natural Gas	32.61	24.61	22.47	25.35	29.68	35.55	44.58	53.09	59.58	64.95	67.29	74.20	79.58	87.91	95.98	105.25	109.22	115.18	122.09	125.34	128.58	131.28	6.5%
Nuclear	31.11	29.10	29.15	29.18	29.05	28.92	28.79	24.58	23.04	23.04	23.04	23.04	20.43	20.43	15.19	12.56	12.56	8.37	6.26	6.28	6.28	6.28	-7.0%
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	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 4/	4.00	3.65	4.20	4.43	4.41	4.59	4.76	4.94	5.09	4.76	5.43	5.49	5.54	4.90	5.59	5.59	5.56	5.58	5.62	5.75	5.88	5.61	1.6%
Total Generation	168.98	150.23	149.41	150.25	151.78	156.20	164.56	170.72	175.30	179.70	181.77	186.34	190.27	195.15	198.68	206.12	211.33	212.86	217.15	220.83	225.00	228.24	1.4%
Sales to Customers	168.47	149.73	148.90	149.75	151.31	155.73	164.09	170.25	174.82	179.23	181.30	185.87	189.80	194.67	198.21	205.65	210.86	212.39	216.68	220.36	224.53	227.77	1.4%
Generation for Own Use	0.50	0.50	0.50	0.50	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	0.47	0.47	0.47	0.47	0.47	-0.3%
<b>Cogenerators</b>																							
Coal	4.87	4.68	4.69	4.71	4.73	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	-0.1%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.9%
Natural Gas	5.26	6.62	6.64	6.65	6.67	6.69	6.71	6.73	6.74	6.77	6.79	6.81	6.84	6.87	6.90	6.93	6.97	7.00	7.04	7.08	7.11	7.13	1.4%
Other Gaseous Fuels	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	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	4.0%
Renewable	3.09	2.67	2.73	2.79	2.85	2.91	2.97	3.01	3.06	3.10	3.14	3.18	3.21	3.24	3.28	3.33	3.38	3.42	3.45	3.48	3.52	3.56	0.6%
Other	3.34	3.51	3.51	3.51	3.51	3.51	3.52	3.52	3.52	3.53	3.53	3.54	3.55	3.55	3.56	3.57	3.58	3.59	3.60	3.60	3.61	3.62	0.4%
Total	16.61	17.52	17.62	17.71	17.81	17.90	17.99	18.05	18.12	18.20	18.26	18.33	18.40	18.46	18.54	18.64	18.73	18.81	18.89	18.96	19.04	19.11	0.6%
Sales to Utilities	8.86	10.02	10.04	10.10	10.16	10.23	10.27	10.32	10.37	10.42	10.47	10.52	10.58	10.63	10.69	10.75	10.80	10.86	10.92	10.97	11.03	11.08	1.0%
Generation for Own Use	7.75	7.51	7.58	7.61	7.65	7.68	7.71	7.73	7.75	7.78	7.78	7.81	7.82	7.83	7.85	7.89	7.93	7.95	7.97	7.99	8.01	8.03	0.2%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	7.7	7.9	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.5	7.6	7.6	7.6	7.6	7.5	7.5	7.4	-0.1%
Commercial	6.0	6.3	6.2	6.1	6.0	6.0	5.9	5.9	5.9	5.9	5.8	5.7	5.7	5.6	5.6	5.6	5.5	5.6	5.5	5.4	5.3	5.3	-0.6%
Industrial	4.6	4.8	4.7	4.7	4.6	4.6	4.5	4.6	4.6	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.1	-0.5%
Transportation	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	-0.6%
All Sectors Average	6.7	6.9	6.8	6.7	6.7	6.7	6.6	6.6	6.7	6.6	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	-0.3%

**Table 67. Electric Power Projections for EMM Region (3 of 3)  
08 - Southeastern Electric Reliability Council/Florida**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.62	0.68	0.68	0.69	0.71	0.73	0.73	0.72	0.72	0.73	0.73	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.9%
Natural Gas	0.31	0.25	0.22	0.24	0.28	0.31	0.37	0.43	0.47	0.51	0.52	0.57	0.60	0.65	0.70	0.76	0.78	0.82	0.86	0.88	0.91	0.92	5.0%
Oil	0.42	0.27	0.28	0.24	0.20	0.17	0.16	0.18	0.18	0.17	0.16	0.14	0.13	0.13	0.12	0.13	0.14	0.13	0.12	0.12	0.12	0.12	-5.6%
Total	1.35	1.20	1.18	1.17	1.19	1.21	1.26	1.33	1.37	1.40	1.40	1.42	1.45	1.49	1.54	1.61	1.65	1.68	1.72	1.74	1.77	1.79	1.3%
Emissions(million short tons) 9/																							
Carbon Dioxide	110.91	107.28	106.81	106.04	106.53	107.78	110.49	115.27	117.44	118.87	118.55	119.06	119.82	122.58	125.50	129.60	132.25	134.34	136.30	137.67	139.66	141.35	1.1%
Sulfur Dioxide	0.56	0.47	0.46	0.44	0.37	0.33	0.32	0.33	0.32	0.32	0.34	0.31	0.27	0.30	0.29	0.29	0.29	0.30	0.28	0.30	0.29	0.30	-2.8%
Nitrogen Oxide	0.27	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.21	0.21	0.21	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.24	-0.6%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 68. Electric Power Projections for EMM Region (1 of 3)  
09 - Southeastern Electric Reliability Council/Excl. Florida**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Generating Capacity 1/</b> (gigawatts)																								
Coal Steam	64.52	65.24	65.44	65.44	65.44	64.77	64.86	64.88	64.60	64.64	64.68	64.77	64.88	64.97	65.09	64.74	65.15	65.48	66.38	66.82	67.46	68.84	0.3%	
Other Fossil Steam 2/	3.11	3.11	3.11	3.09	3.09	3.06	3.06	3.04	3.04	2.99	2.99	2.94	2.94	2.94	2.94	2.86	2.86	2.86	2.78	2.78	2.66	2.66	-0.7%	
Combined Cycle	1.82	2.17	2.17	2.32	2.32	4.59	5.96	7.87	9.74	11.99	14.06	15.57	16.62	17.61	18.49	19.63	20.35	21.57	22.56	23.47	23.86	24.20	12.5%	
Combustion Turbine/Diesel	12.41	12.86	14.03	14.42	16.08	16.34	17.67	19.01	20.39	21.98	22.82	23.13	24.72	26.23	27.88	28.73	30.88	31.96	33.21	34.21	35.54	35.77	4.9%	
Nuclear Power	26.92	26.97	26.97	26.97	25.91	25.10	25.10	24.28	24.28	24.28	24.28	23.59	23.59	23.59	23.59	21.67	21.67	20.56	19.73	18.91	18.91	17.79	-1.9%	
Pumped Storage/Other 3/	6.68	6.68	6.72	6.76	6.80	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	0.1%	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	11.57	11.58	11.69	11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.79	11.80	11.81	11.81	11.82	11.84	11.87	11.90	11.92	0.1%	
<b>Total Capability</b>	<b>127.02</b>	<b>128.61</b>	<b>130.14</b>	<b>130.70</b>	<b>131.34</b>	<b>132.42</b>	<b>135.22</b>	<b>137.66</b>	<b>140.64</b>	<b>144.48</b>	<b>147.44</b>	<b>148.62</b>	<b>151.38</b>	<b>153.98</b>	<b>156.64</b>	<b>156.28</b>	<b>159.57</b>	<b>161.08</b>	<b>163.34</b>	<b>164.89</b>	<b>167.17</b>	<b>168.02</b>	<b>1.3%</b>	
<b>Cumulative Planned Additions 5/</b>																								
Coal Steam	0.00	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	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	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	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	N/A	
Combustion Turbine/Diesel	0.00	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	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	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	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	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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
<b>Total (planned)</b>	<b>0.00</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>N/A</b>	
<b>Cumulative Unplanned Additions 5/</b>																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.16	0.20	0.24	0.33	0.44	0.53	0.65	0.82	1.23	1.56	2.47	3.43	4.07	5.45	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	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	0.15	0.15	2.50	3.87	5.77	7.64	9.90	11.97	13.48	14.53	15.51	16.39	17.53	18.26	19.48	20.46	21.37	21.76	22.10	N/A	
Combustion Turbine/Diesel	0.00	0.02	1.19	1.61	3.30	3.57	5.20	6.63	8.01	9.70	10.58	11.26	12.86	14.50	16.14	16.99	19.15	20.22	21.47	22.47	23.80	24.03	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	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	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	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 4/	0.00	0.00	0.12	0.13	0.13	0.14	0.15	0.17	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.24	0.27	0.30	0.32	0.35	N/A	
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.02</b>	<b>1.31</b>	<b>1.88</b>	<b>3.59</b>	<b>6.21</b>	<b>9.31</b>	<b>12.69</b>	<b>15.99</b>	<b>19.98</b>	<b>22.98</b>	<b>25.27</b>	<b>28.03</b>	<b>30.75</b>	<b>33.41</b>	<b>35.57</b>	<b>38.87</b>	<b>41.50</b>	<b>44.67</b>	<b>47.57</b>	<b>49.96</b>	<b>51.93</b>	<b>N/A</b>	
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>1.10</b>	<b>2.39</b>	<b>2.97</b>	<b>4.67</b>	<b>7.30</b>	<b>10.40</b>	<b>13.78</b>	<b>17.08</b>	<b>21.06</b>	<b>24.07</b>	<b>26.36</b>	<b>29.11</b>	<b>31.84</b>	<b>34.50</b>	<b>36.66</b>	<b>39.95</b>	<b>42.58</b>	<b>45.75</b>	<b>48.65</b>	<b>51.05</b>	<b>53.02</b>	<b>N/A</b>	
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.00</b>	<b>1.19</b>	<b>1.25</b>	<b>2.35</b>	<b>3.93</b>	<b>4.24</b>	<b>5.17</b>	<b>5.48</b>	<b>5.62</b>	<b>5.67</b>	<b>6.78</b>	<b>6.78</b>	<b>6.90</b>	<b>6.90</b>	<b>9.42</b>	<b>9.42</b>	<b>10.54</b>	<b>11.45</b>	<b>12.80</b>	<b>12.92</b>	<b>14.04</b>	<b>N/A</b>	
<b>Cogenerators 6/</b> Capacity																								
Coal	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	0.0%	
Petroleum	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.1%	
Natural Gas	1.52	1.53	1.54	1.54	1.55	1.55	1.56	1.56	1.57	1.57	1.58	1.59	1.59	1.60	1.61	1.62	1.62	1.63	1.64	1.65	1.66	1.67	0.4%	
Other Gaseous Fuels	0.15	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.33	3.7%	
Renewables	3.06	3.09	3.16	3.22	3.29	3.36	3.43	3.48	3.54	3.60	3.64	3.70	3.73	3.77	3.81	3.87	3.93	3.97	4.01	4.05	4.10	4.15	1.4%	
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	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.0%	
<b>Total</b>	<b>6.78</b>	<b>6.93</b>	<b>7.00</b>	<b>7.07</b>	<b>7.15</b>	<b>7.22</b>	<b>7.30</b>	<b>7.36</b>	<b>7.43</b>	<b>7.49</b>	<b>7.55</b>	<b>7.61</b>	<b>7.66</b>	<b>7.71</b>	<b>7.76</b>	<b>7.84</b>	<b>7.92</b>	<b>7.97</b>	<b>8.03</b>	<b>8.08</b>	<b>8.14</b>	<b>8.21</b>	<b>0.9%</b>	



**Table 68. Electric Power Projections for EMM Region (2 of 3)  
09 - Southeastern Electric Reliability Council/Excl. Florida**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Demand</b> (billion kilowatthours)																								
Residential	213.08	216.38	220.49	224.25	228.26	232.22	236.03	239.57	243.23	247.25	251.39	255.14	258.51	261.89	265.29	268.61	272.01	275.05	278.16	281.16	284.71	288.24	1.4%	
Commercial/Other	153.58	156.61	160.20	163.47	166.55	169.71	173.08	176.15	179.17	182.59	186.13	189.10	192.72	195.91	198.57	200.77	202.61	204.32	205.86	206.98	208.29	209.19	1.4%	
Industrial	203.86	199.36	199.59	203.22	208.22	212.28	216.72	220.02	223.40	226.54	228.79	231.74	234.46	238.13	242.37	246.66	250.82	253.57	257.00	260.21	263.99	267.83	1.2%	
Transportation	2.72	2.76	2.84	2.91	3.24	3.55	3.85	4.11	4.35	4.59	4.84	5.09	5.33	5.57	5.81	6.04	6.17	6.15	6.12	6.07	6.00	5.93	3.6%	
Total Sales	573.25	575.12	583.12	593.85	606.27	617.76	629.68	639.85	650.15	660.98	671.15	681.07	691.02	701.50	712.05	722.07	731.62	739.09	747.14	754.43	762.99	771.18	1.4%	
<b>Net Energy for Load (billion kwh) 7/</b>																								
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	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	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 Elec. Imports	42.71	34.92	32.72	33.81	31.65	27.59	26.84	24.41	23.89	21.89	21.69	21.89	22.51	22.49	21.32	22.09	22.24	22.58	21.54	20.08	22.11	21.58	-3.1%	
Gross Interregional Elec. Exports	60.68	77.63	80.53	78.62	79.08	79.39	74.05	69.88	69.50	67.76	69.69	65.28	62.69	60.14	57.31	53.45	49.09	47.97	43.85	40.62	38.56	38.09	-2.1%	
Purchases from cogenerators 6/	6.22	7.05	7.12	7.35	7.58	7.81	8.00	8.19	8.37	8.54	8.75	8.93	9.15	9.35	9.57	9.80	10.03	10.25	10.47	10.69	10.92	11.15	2.7%	
Util. Generation for Customers	630.28	645.31	658.40	666.31	681.44	697.27	704.81	713.25	723.66	734.62	746.80	752.13	758.84	766.81	775.58	780.88	785.81	792.02	797.22	802.91	807.67	816.18	1.2%	
Total Net Energy for Load	618.52	609.65	617.70	628.85	641.59	653.27	665.60	675.97	686.42	697.29	707.56	717.68	727.81	738.51	749.16	759.31	769.00	776.88	785.38	793.06	802.14	810.82	1.2%	
<b>Generation by Fuel Type</b> (billion kilowatthours)																								
Coal	372.53	397.19	411.52	421.04	436.19	441.78	445.52	449.49	451.62	452.56	456.96	452.00	453.50	455.53	458.44	458.72	465.22	468.45	476.67	482.46	488.25	498.71	1.3%	
Petroleum	6.05	3.16	2.31	1.81	1.77	1.26	1.42	1.44	1.51	1.17	1.08	0.98	1.02	0.95	0.86	1.22	1.56	1.18	1.09	1.43	1.31	1.30	-6.8%	
Natural Gas	12.04	19.54	17.19	15.89	16.13	25.05	33.10	42.09	52.26	63.09	71.02	82.73	92.12	97.92	104.99	114.53	123.73	128.91	133.69	140.57	143.76	143.38	11.9%	
Nuclear	204.12	190.37	190.84	191.19	191.32	191.37	185.96	181.83	179.62	179.36	179.16	177.14	173.52	173.22	172.82	168.52	157.68	155.04	147.14	140.58	136.27	134.57	-1.9%	
Pumped Storage/Other 3/	-1.99	-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	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-10.8%	
Renewable 4/	37.95	35.65	37.13	36.96	36.61	38.39	39.40	38.98	39.21	39.01	39.16	39.85	39.26	39.77	39.05	38.46	38.19	39.01	39.21	38.44	38.66	38.80	0.1%	
Total Generation	630.70	645.74	658.82	666.73	681.87	697.69	705.23	713.67	724.07	735.03	747.21	752.54	759.25	767.22	775.99	781.28	786.22	792.43	797.63	803.32	808.08	816.59	1.2%	
Sales to Customers	630.28	645.31	658.40	666.31	681.44	697.27	704.81	713.25	723.66	734.62	746.80	752.13	758.84	766.81	775.58	780.88	785.81	792.02	797.22	802.91	807.67	816.18	1.2%	
Generation for Own Use	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	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	0.41	-0.2%	
<b>Cogenerators</b>																								
Coal	7.92	8.11	8.14	8.21	8.25	8.30	8.30	8.29	8.29	8.27	8.29	8.27	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.27	8.27	8.27	0.2%	
Petroleum	0.77	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.93	0.94	0.94	0.95	0.96	0.96	0.97	0.98	0.98	0.99	1.00	1.2%	
Natural Gas	2.27	2.77	2.79	2.81	2.83	2.85	2.87	2.89	2.91	2.94	2.96	2.99	3.02	3.05	3.08	3.12	3.16	3.20	3.25	3.28	3.32	3.35	1.8%	
Other Gaseous Fuels	0.67	1.25	1.25	1.25	1.26	1.27	1.28	1.29	1.29	1.33	1.33	1.35	1.38	1.40	1.41	1.45	1.47	1.49	1.53	1.55	1.57	1.58	4.0%	
Renewable	20.04	18.66	19.08	19.45	19.88	20.27	20.67	20.98	21.28	21.58	21.82	22.11	22.28	22.51	22.80	23.14	23.48	23.70	23.91	24.13	24.38	24.66	0.9%	
Other	0.86	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.4%	
Total	32.53	32.59	33.06	33.52	34.02	34.48	34.93	35.27	35.59	35.94	36.23	36.55	36.81	37.10	37.43	37.87	38.27	38.56	38.87	39.14	39.46	39.79	0.9%	
Sales to Utilities	6.22	7.05	7.12	7.35	7.58	7.81	8.00	8.19	8.37	8.54	8.75	8.93	9.15	9.35	9.57	9.80	10.03	10.25	10.47	10.69	10.92	11.15	2.7%	
Generation for Own Use	26.32	25.53	25.94	26.17	26.44	26.68	26.93	27.08	27.22	27.40	27.48	27.62	27.67	27.75	27.87	28.06	28.24	28.31	28.40	28.45	28.54	28.64	0.4%	
<b>End-Use Prices</b> (1998 cents per kilowatthour)																								
Residential	7.1	7.0	6.9	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.7	-0.2%	
Commercial	6.2	6.1	6.0	5.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	-0.3%	
Industrial	4.0	4.0	3.9	3.9	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.6	3.5	3.6	-0.5%	
Transportation	4.6	4.8	4.7	4.7	4.6	4.6	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	-0.6%	
All Sectors Average	5.7	5.7	5.6	5.5	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.4	5.4	5.4	-0.3%	

**Table 68. Electric Power Projections for EMM Region (3 of 3)  
09 - Southeastern Electric Reliability Council/Excl. Florida**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	3.73	4.00	4.15	4.25	4.40	4.46	4.50	4.54	4.56	4.57	4.62	4.56	4.57	4.60	4.62	4.62	4.68	4.71	4.78	4.82	4.87	4.95	1.3%
Natural Gas	0.15	0.20	0.18	0.16	0.16	0.22	0.29	0.35	0.42	0.49	0.54	0.62	0.69	0.73	0.78	0.85	0.91	0.94	0.97	1.02	1.04	1.03	9.1%
Oil	0.06	0.03	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	-6.6%
Total	3.94	4.24	4.35	4.43	4.59	4.70	4.80	4.91	5.00	5.08	5.17	5.20	5.28	5.33	5.41	5.48	5.61	5.67	5.76	5.85	5.92	5.99	1.9%
Emissions(million short tons) 9/																							
Carbon Dioxide	397.00	424.82	438.15	447.06	463.06	472.34	480.29	488.64	494.87	499.65	507.53	506.17	511.59	515.84	521.54	525.75	536.13	540.60	549.22	556.50	562.90	570.20	1.7%
Sulfur Dioxide	3.28	2.89	3.19	3.28	3.69	3.48	3.25	2.98	2.86	2.86	3.00	2.73	2.62	2.57	2.53	2.53	2.43	2.41	2.48	2.49	2.54	2.44	-1.3%
Nitrogen Oxide	0.98	0.98	1.01	1.03	1.07	1.06	1.08	1.08	1.09	1.10	1.11	1.10	1.11	1.11	1.12	1.12	1.14	1.14	1.15	1.15	1.15	1.16	0.7%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 69. Electric Power Projections for EMM Region (1 of 3)  
10 - Southwest Power Pool**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/ (gigawatts)</b>																							
Coal Steam	27.53	27.53	27.53	27.53	27.53	27.04	27.04	27.04	26.51	26.03	26.03	26.03	26.00	25.98	25.99	26.00	26.03	26.06	26.04	26.11	26.19	26.19	-0.2%
Other Fossil Steam 2/	30.58	30.58	30.50	30.42	29.36	28.49	27.53	26.92	26.61	26.58	26.58	26.58	26.58	26.58	26.34	26.34	26.34	26.34	26.34	26.34	26.34	26.34	-0.7%
Combined Cycle	1.30	1.74	2.16	3.50	3.50	4.58	5.48	6.29	7.26	8.19	9.20	9.68	10.09	10.40	11.20	12.08	13.10	14.19	14.91	15.50	16.35	16.72	12.3%
Combustion Turbine/Diesel	5.19	5.40	6.07	6.07	7.39	7.87	9.01	9.19	10.16	11.25	11.67	12.21	12.99	13.90	14.58	15.22	16.28	16.80	17.63	18.05	18.63	18.86	6.0%
Nuclear Power	5.95	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	5.20	4.26	4.26	4.26	3.40	3.40	3.40	-2.5%
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	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	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	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 4/	2.84	2.84	2.92	2.92	2.93	2.93	2.95	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07	0.3%
<b>Total Capability</b>	<b>73.90</b>	<b>74.63</b>	<b>75.72</b>	<b>76.98</b>	<b>77.24</b>	<b>77.46</b>	<b>78.54</b>	<b>78.94</b>	<b>80.04</b>	<b>81.58</b>	<b>83.02</b>	<b>84.04</b>	<b>85.19</b>	<b>86.44</b>	<b>87.90</b>	<b>88.36</b>	<b>89.52</b>	<b>91.17</b>	<b>92.76</b>	<b>92.90</b>	<b>94.40</b>	<b>95.09</b>	<b>1.2%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	N/A
Combustion Turbine/Diesel	0.00	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	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	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	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	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	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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
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	0.01	0.01	0.02	0.04	0.07	0.10	0.14	0.21	0.29	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	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	0.42	1.76	1.76	2.84	3.74	4.56	5.52	6.46	7.46	7.94	8.35	8.66	9.46	10.34	11.36	12.45	13.17	13.76	14.61	14.98	N/A
Combustion Turbine/Diesel	0.00	0.04	0.71	0.71	2.18	2.66	3.85	4.14	5.11	6.25	6.67	7.21	7.98	8.90	9.57	10.22	11.27	11.80	12.63	13.05	13.62	13.85	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	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	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	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 4/	0.00	0.00	0.07	0.08	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.04</b>	<b>1.20</b>	<b>2.54</b>	<b>4.02</b>	<b>5.60</b>	<b>7.69</b>	<b>8.81</b>	<b>10.75</b>	<b>12.83</b>	<b>14.27</b>	<b>15.30</b>	<b>16.49</b>	<b>17.73</b>	<b>19.23</b>	<b>20.77</b>	<b>22.87</b>	<b>24.51</b>	<b>26.10</b>	<b>27.16</b>	<b>28.66</b>	<b>29.35</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.64</b>	<b>1.81</b>	<b>3.15</b>	<b>4.63</b>	<b>6.20</b>	<b>8.30</b>	<b>9.42</b>	<b>11.36</b>	<b>13.44</b>	<b>14.88</b>	<b>15.90</b>	<b>17.10</b>	<b>18.34</b>	<b>19.84</b>	<b>21.38</b>	<b>23.48</b>	<b>25.12</b>	<b>26.71</b>	<b>27.77</b>	<b>29.27</b>	<b>29.96</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.00</b>	<b>0.08</b>	<b>0.16</b>	<b>1.37</b>	<b>2.79</b>	<b>3.88</b>	<b>4.60</b>	<b>5.44</b>	<b>5.99</b>	<b>5.99</b>	<b>5.99</b>	<b>6.02</b>	<b>6.02</b>	<b>6.06</b>	<b>7.14</b>	<b>8.08</b>	<b>8.08</b>	<b>8.08</b>	<b>8.99</b>	<b>8.99</b>	<b>8.99</b>	<b>N/A</b>
<b>Cogenerators 6/ Capacity</b>																							
Coal	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	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.0%
Petroleum	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Natural Gas	3.64	3.77	4.59	4.63	4.65	4.68	4.72	4.75	4.78	4.82	4.85	4.89	4.93	4.97	5.01	5.06	5.12	5.18	5.24	5.30	5.35	5.40	1.8%
Other Gaseous Fuels	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.7%
Renewables	1.14	1.16	1.19	1.21	1.25	1.28	1.31	1.33	1.36	1.38	1.40	1.43	1.44	1.46	1.48	1.50	1.53	1.55	1.57	1.58	1.60	1.63	1.6%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
<b>Total</b>	<b>5.45</b>	<b>5.60</b>	<b>6.45</b>	<b>6.51</b>	<b>6.57</b>	<b>6.63</b>	<b>6.70</b>	<b>6.75</b>	<b>6.81</b>	<b>6.87</b>	<b>6.93</b>	<b>6.99</b>	<b>7.04</b>	<b>7.10</b>	<b>7.16</b>	<b>7.24</b>	<b>7.33</b>	<b>7.40</b>	<b>7.49</b>	<b>7.56</b>	<b>7.63</b>	<b>7.70</b>	<b>1.6%</b>

**Table 69. Electric Power Projections for EMM Region (2 of 3)  
10 - Southwest Power Pool**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	102.20	105.29	107.32	109.14	110.77	112.47	114.51	116.20	117.88	119.85	122.12	124.06	126.00	127.99	130.00	131.84	133.60	135.31	137.01	138.70	140.60	142.39	1.5%
Commercial/Other	86.01	87.68	89.63	91.26	92.45	93.70	95.50	96.87	98.17	99.75	101.56	102.95	104.77	106.36	107.73	108.70	109.40	110.08	110.59	110.90	111.29	111.43	1.2%
Industrial	103.23	101.80	101.60	103.74	106.21	108.09	110.23	111.92	113.88	115.23	115.93	117.05	118.02	119.44	121.21	123.13	125.25	126.64	128.18	129.55	131.15	132.79	1.2%
Transportation	1.40	1.43	1.47	1.51	1.67	1.83	1.97	2.10	2.22	2.34	2.46	2.58	2.70	2.81	2.93	3.04	3.10	3.09	3.07	3.04	3.01	2.97	3.5%
Total Sales	292.84	296.20	300.02	305.65	311.10	316.09	322.21	327.10	332.14	337.17	342.06	346.64	351.49	356.61	361.87	366.71	371.35	375.12	378.84	382.19	386.04	389.59	1.3%
<b>Net Energy for Load (billion kwh) 7/</b>																							
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	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	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 Elec. Imports	34.43	31.02	35.00	33.07	34.82	34.93	32.90	33.01	31.87	31.90	32.74	30.15	28.96	28.80	27.34	27.42	24.07	24.51	22.90	21.51	21.67	21.96	-2.0%
Gross Interregional Elec. Exports	33.44	32.45	30.83	27.34	23.69	22.08	21.01	21.90	22.19	21.49	19.50	18.09	17.22	15.79	15.06	13.90	12.68	11.07	9.59	7.33	5.46	4.53	-8.7%
Purchases from cogenerators 6/	8.50	8.87	8.90	9.10	9.28	9.46	9.66	9.86	10.06	10.28	10.49	10.72	10.95	11.20	11.45	11.72	11.99	12.25	12.51	12.74	12.97	13.16	2.0%
Util. Generation for Customers	311.32	310.88	309.24	313.26	313.33	316.54	323.58	329.10	335.43	339.58	341.51	347.08	352.03	355.69	361.44	364.79	371.25	372.97	376.75	379.22	381.06	383.46	1.0%
Total Net Energy for Load	320.81	318.32	322.32	328.09	333.74	338.85	345.14	350.07	355.17	360.26	365.25	369.85	374.71	379.89	385.17	390.03	394.63	398.65	402.58	406.14	410.25	414.05	1.2%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	168.71	181.46	186.38	191.19	196.08	197.51	197.79	198.01	194.27	191.41	191.40	191.37	191.15	191.19	190.99	191.08	191.21	191.38	191.61	191.50	192.04	192.63	0.6%
Petroleum	6.52	7.61	8.30	7.19	6.53	5.30	6.27	7.42	7.74	7.97	7.07	6.70	6.64	6.51	6.40	6.48	6.46	6.18	5.90	5.83	5.42	5.64	-0.7%
Natural Gas	78.44	69.61	61.81	62.06	57.84	60.82	66.63	70.80	80.56	87.37	89.87	95.80	100.98	104.70	110.71	117.09	128.93	135.29	139.11	143.95	150.02	151.61	3.0%
Nuclear	48.21	45.69	45.75	45.78	45.78	45.78	45.78	45.63	45.56	45.48	45.78	45.78	45.78	45.78	45.78	42.55	37.03	32.47	32.47	30.25	25.87	25.87	-2.8%
Pumped Storage/Other 3/	-0.09	-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	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-2.9%
Renewable 4/	9.58	6.63	7.12	7.15	7.19	7.22	7.28	7.33	7.38	7.43	7.48	7.52	7.57	7.60	7.64	7.67	7.70	7.73	7.75	7.77	7.79	7.81	-0.9%
Total Generation	311.37	310.94	309.30	313.32	313.37	316.58	323.62	329.14	335.46	339.62	341.55	347.12	352.07	355.73	361.48	364.83	371.29	373.01	376.79	379.26	381.10	383.50	1.0%
Sales to Customers	311.32	310.88	309.24	313.26	313.33	316.54	323.58	329.10	335.43	339.58	341.51	347.08	352.03	355.69	361.44	364.79	371.25	372.97	376.75	379.22	381.06	383.46	1.0%
Generation for Own Use	0.06	0.06	0.06	0.06	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	0.04	0.04	0.04	0.04	0.04	-1.8%
<b>Cogenerators</b>																							
Coal	3.16	4.97	4.97	4.97	4.97	4.97	4.97	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	2.1%
Petroleum	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-24.2%
Natural Gas	23.15	23.68	23.91	24.14	24.36	24.58	24.84	25.07	25.29	25.63	25.87	26.19	26.56	26.91	27.26	27.70	28.15	28.61	29.13	29.55	29.96	30.29	1.2%
Other Gaseous Fuels	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.0%
Renewable	8.88	7.58	7.77	7.95	8.15	8.33	8.52	8.67	8.81	8.95	9.06	9.20	9.28	9.39	9.52	9.68	9.84	9.95	10.05	10.15	10.26	10.40	0.7%
Other	0.53	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.58	0.4%
Total	37.48	36.79	37.21	37.62	38.04	38.44	38.89	39.27	39.63	40.11	40.47	40.93	41.38	41.83	42.32	42.92	43.54	44.10	44.72	45.24	45.77	46.24	1.0%
Sales to Utilities	8.50	8.87	8.90	9.10	9.28	9.46	9.66	9.86	10.06	10.28	10.49	10.72	10.95	11.20	11.45	11.72	11.99	12.25	12.51	12.74	12.97	13.16	2.0%
Generation for Own Use	28.98	27.93	28.31	28.52	28.77	28.98	29.23	29.41	29.57	29.83	29.97	30.21	30.44	30.64	30.87	31.20	31.55	31.86	32.21	32.50	32.80	33.08	0.6%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	6.3	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.3	6.2	6.2	6.2	6.3	6.3	6.3	6.3	6.2	-0.1%
Commercial	6.6	6.7	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.7	6.7	6.7	6.6	6.5	6.3	6.4	6.4	6.5	6.5	6.5	6.5	6.4	-0.1%
Industrial	3.7	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.7	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	-0.2%
Transportation	4.4	4.5	4.4	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.2	4.1	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.7	3.7	3.6	-0.9%
All Sectors Average	5.5	5.5	5.5	5.5	5.4	5.4	5.5	5.5	5.5	5.5	5.6	5.6	5.5	5.4	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.3	-0.1%

**Table 69. Electric Power Projections for EMM Region (3 of 3)  
10 - Southwest Power Pool**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020	
Fuel Consumption (quadrillion Btu) 8/																								
Coal	1.79	1.98	2.03	2.09	2.14	2.16	2.16	2.17	2.13	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	0.7%
Natural Gas	0.87	0.73	0.64	0.61	0.57	0.57	0.61	0.64	0.72	0.76	0.76	0.80	0.84	0.86	0.90	0.94	1.02	1.05	1.07	1.10	1.13	1.14	1.14	1.2%
Oil	0.07	0.08	0.09	0.08	0.07	0.06	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	-0.7%
Total	2.73	2.79	2.76	2.78	2.78	2.79	2.84	2.88	2.92	2.93	2.92	2.95	2.99	3.01	3.04	3.08	3.17	3.19	3.21	3.23	3.27	3.28	3.28	0.8%
Emissions(million short tons) 9/																								
Carbon Dioxide	251.84	257.72	257.48	260.20	262.50	263.21	266.59	269.34	269.90	268.03	267.05	268.79	270.38	271.52	273.20	275.49	280.35	281.85	282.63	283.99	286.14	287.15	287.15	0.6%
Sulfur Dioxide	0.72	0.71	0.69	0.70	0.73	0.73	0.73	0.74	0.72	0.71	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	-0.1%
Nitrogen Oxide	0.70	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	-1.3%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 70. Electric Power Projections for EMM Region (1 of 3)  
11 - Western Systems Coordinating Council/NWP**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Generating Capacity 1/</b> (gigawatts)																								
Coal Steam	11.61	11.61	11.61	11.61	11.61	11.61	11.62	11.65	11.68	11.68	11.70	11.73	11.79	11.80	11.84	11.88	11.94	12.01	12.09	12.16	12.27	12.37	0.3%	
Other Fossil Steam 2/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	N/A	
Combined Cycle	1.78	2.13	2.48	3.68	4.80	6.71	8.34	9.63	9.63	9.68	9.81	10.02	10.05	10.13	10.23	10.60	10.78	11.15	11.32	11.95	12.60	12.95	9.4%	
Combustion Turbine/Diesel	1.53	1.88	2.40	2.47	2.95	3.29	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.73	3.74	3.74	3.74	4.2%	
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	N/A	
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	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	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	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 4/	35.51	35.50	35.63	35.69	35.72	35.74	35.76	35.78	35.80	35.92	35.98	36.00	36.04	36.08	36.15	36.31	36.35	36.40	36.52	36.61	36.64	36.85	0.2%	
<b>Total Capability</b>	<b>52.63</b>	<b>53.34</b>	<b>54.32</b>	<b>55.66</b>	<b>57.29</b>	<b>59.56</b>	<b>61.53</b>	<b>62.86</b>	<b>62.92</b>	<b>63.08</b>	<b>63.29</b>	<b>63.56</b>	<b>63.68</b>	<b>63.82</b>	<b>64.03</b>	<b>64.60</b>	<b>64.88</b>	<b>65.36</b>	<b>65.87</b>	<b>66.67</b>	<b>67.46</b>	<b>68.11</b>	<b>1.2%</b>	
<b>Cumulative Planned Additions 5/</b>																								
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	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	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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	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	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	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	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	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 4/	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	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	N/A	
<b>Total (planned)</b>	<b>0.00</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.12</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>	<b>0.14</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>	<b>N/A</b>	
<b>Cumulative Unplanned Additions 5/</b>																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.07	0.09	0.12	0.17	0.19	0.23	0.26	0.33	0.40	0.48	0.55	0.65	0.76	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	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	0.26	0.61	1.81	2.93	4.84	6.47	7.75	7.75	7.80	7.94	8.15	8.18	8.26	8.36	8.73	8.91	9.28	9.45	10.08	10.73	11.07	N/A	
Combustion Turbine/Diesel	0.00	0.36	0.87	0.95	1.42	1.77	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.21	2.22	2.22	2.22	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	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	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	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 4/	0.00	0.00	0.12	0.18	0.21	0.22	0.23	0.25	0.26	0.37	0.42	0.46	0.50	0.55	0.62	0.77	0.81	0.86	0.98	1.07	1.10	1.31	N/A	
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.62</b>	<b>1.60</b>	<b>2.93</b>	<b>4.56</b>	<b>6.83</b>	<b>8.79</b>	<b>10.11</b>	<b>10.17</b>	<b>10.33</b>	<b>10.53</b>	<b>10.81</b>	<b>10.94</b>	<b>11.08</b>	<b>11.29</b>	<b>11.85</b>	<b>12.13</b>	<b>12.61</b>	<b>13.12</b>	<b>13.92</b>	<b>14.71</b>	<b>15.36</b>	<b>N/A</b>	
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.72</b>	<b>1.70</b>	<b>3.04</b>	<b>4.66</b>	<b>6.94</b>	<b>8.91</b>	<b>10.24</b>	<b>10.30</b>	<b>10.47</b>	<b>10.68</b>	<b>10.96</b>	<b>11.09</b>	<b>11.23</b>	<b>11.44</b>	<b>12.01</b>	<b>12.29</b>	<b>12.77</b>	<b>13.28</b>	<b>14.07</b>	<b>14.86</b>	<b>15.52</b>	<b>N/A</b>	
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>N/A</b>	
<b>Cogenerators 6/</b>																								
<b>Capacity</b>																								
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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%	
Natural Gas	0.63	0.63	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	2.7%	
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	3.7%	
Renewables	0.51	0.51	0.52	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.69	1.4%	
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%	
<b>Total</b>	<b>1.28</b>	<b>1.29</b>	<b>1.77</b>	<b>1.78</b>	<b>1.80</b>	<b>1.81</b>	<b>1.82</b>	<b>1.83</b>	<b>1.84</b>	<b>1.85</b>	<b>1.86</b>	<b>1.87</b>	<b>1.88</b>	<b>1.89</b>	<b>1.90</b>	<b>1.91</b>	<b>1.92</b>	<b>1.93</b>	<b>1.94</b>	<b>1.95</b>	<b>1.96</b>	<b>1.97</b>	<b>2.0%</b>	

**Table 70. Electric Power Projections for EMM Region (2 of 3)  
11 - Western Systems Coordinating Council/NWP**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	69.26	77.78	79.23	80.40	81.38	82.67	84.13	85.44	86.48	87.65	89.03	90.40	91.39	92.37	93.46	94.74	95.98	97.08	98.28	99.47	100.77	102.05	1.8%
Commercial/Other	58.34	66.91	68.34	69.95	70.98	72.19	73.58	74.89	76.09	77.44	78.66	79.78	80.89	81.85	82.71	83.55	84.29	84.95	85.57	86.13	86.67	87.15	1.8%
Industrial	83.38	91.16	91.90	94.07	96.34	98.28	100.29	101.90	103.52	104.95	105.87	107.19	108.23	109.78	111.58	113.48	115.37	116.44	117.91	119.38	120.94	122.46	1.8%
Transportation	1.47	1.66	1.71	1.76	1.95	2.14	2.32	2.48	2.62	2.76	2.91	3.06	3.20	3.34	3.48	3.62	3.71	3.71	3.70	3.68	3.66	3.63	4.2%
Total Sales	212.45	237.51	241.17	246.19	250.65	255.28	260.32	264.71	268.72	272.80	276.46	280.43	283.72	287.35	291.24	295.39	299.34	302.18	305.46	308.66	312.04	315.29	1.8%
<b>Net Energy for Load (billion kwh) 7/</b>																							
Gross International Imports	11.24	14.25	16.56	19.99	22.58	22.69	24.54	24.79	24.19	24.48	24.01	23.74	23.40	22.48	21.78	21.46	20.98	21.41	20.79	20.76	20.35	17.14	1.9%
Gross International Exports	7.27	9.82	9.82	9.84	15.08	15.10	15.13	15.16	15.18	14.29	13.39	12.50	11.57	10.65	9.73	8.81	7.88	6.96	6.04	5.11	4.19	3.73	-3.0%
Gross Interregional Elec. Imports	21.32	21.92	21.35	21.34	20.45	20.44	18.46	18.21	18.21	16.81	15.55	14.14	12.79	11.43	10.04	8.63	7.15	5.86	4.45	2.96	1.57	0.93	-13.3%
Gross Interregional Elec. Exports	50.94	33.52	39.89	48.35	52.70	62.99	69.04	70.81	68.04	64.02	61.42	59.31	56.63	53.91	50.51	49.15	45.07	43.79	40.86	39.73	39.10	35.06	-1.7%
Purchases from cogenerators 6/	3.33	3.24	3.25	3.27	3.30	3.32	3.35	3.37	3.40	3.42	3.45	3.48	3.50	3.53	3.56	3.59	3.62	3.65	3.68	3.71	3.74	3.77	0.6%
Util. Generation for Customers	245.60	261.56	269.86	279.94	292.32	307.04	318.31	324.55	326.53	326.90	328.81	331.51	332.87	335.15	336.82	340.43	341.38	343.03	344.72	347.57	351.39	354.25	1.7%
Total Net Energy for Load	223.28	257.64	261.31	266.36	270.87	275.41	280.50	284.97	289.11	293.30	297.01	301.07	304.36	308.02	311.96	316.14	320.18	323.20	326.74	330.16	333.76	337.30	1.9%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	84.31	80.55	82.37	84.17	86.10	88.14	88.26	88.43	88.71	88.71	88.83	89.08	89.50	89.62	89.89	90.10	90.48	90.91	91.46	91.99	92.80	93.60	0.5%
Petroleum	0.17	0.25	0.25	0.19	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	0.09	0.09	0.08	0.08	0.08	-3.1%
Natural Gas	11.22	20.26	25.83	33.72	44.04	56.63	67.72	73.72	75.29	74.81	76.25	78.56	79.28	81.10	82.04	84.25	84.68	85.64	85.94	87.68	90.57	91.16	10.0%
Nuclear	6.92	6.75	6.81	6.89	6.96	7.03	7.10	7.18	7.25	7.32	7.39	7.46	7.53	7.61	7.68	7.76	7.76	7.75	7.75	7.75	7.75	7.75	0.5%
Pumped Storage/Other 3/	0.00	-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	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	N/A
Renewable 4/	144.10	155.09	155.95	156.34	156.49	156.54	156.53	156.54	156.60	157.40	157.69	157.75	157.91	158.16	158.56	159.67	159.82	160.08	160.93	161.49	161.62	163.09	0.6%
Total Generation	246.71	262.68	270.99	281.09	293.46	308.21	319.48	325.74	327.72	328.11	330.02	332.72	334.08	336.36	338.03	341.65	342.61	344.25	345.94	348.79	352.61	355.47	1.7%
Sales to Customers	245.60	261.56	269.86	279.94	292.32	307.04	318.31	324.55	326.53	326.90	328.81	331.51	332.87	335.15	336.82	340.43	341.38	343.03	344.72	347.57	351.39	354.25	1.7%
Generation for Own Use	1.11	1.11	1.13	1.15	1.15	1.17	1.17	1.19	1.19	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	0.4%
<b>Cogenerators</b>																							
Coal	0.32	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	4.0%
Petroleum	0.48	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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-14.4%
Natural Gas	3.05	2.93	2.93	2.94	2.95	2.95	2.96	2.97	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.06	3.07	3.08	3.09	3.11	3.12	0.1%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	4.0%
Renewable	2.44	2.54	2.59	2.63	2.68	2.73	2.78	2.81	2.85	2.89	2.91	2.95	2.97	3.00	3.03	3.07	3.11	3.14	3.16	3.19	3.22	3.25	1.3%
Other	0.54	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	-1.0%
Total	6.83	6.67	6.73	6.78	6.84	6.89	6.95	6.99	7.03	7.08	7.11	7.16	7.19	7.23	7.27	7.33	7.38	7.42	7.47	7.50	7.55	7.59	0.5%
Sales to Utilities	3.33	3.24	3.25	3.27	3.30	3.32	3.35	3.37	3.40	3.42	3.45	3.48	3.50	3.53	3.56	3.59	3.62	3.65	3.68	3.71	3.74	3.77	0.6%
Generation for Own Use	3.51	3.42	3.48	3.50	3.54	3.57	3.60	3.62	3.63	3.65	3.67	3.68	3.69	3.70	3.72	3.74	3.76	3.78	3.79	3.80	3.81	3.82	0.4%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	5.9	6.1	6.0	6.0	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.4	5.2	5.2	5.2	5.2	-0.6%
Commercial	5.0	5.1	5.1	5.0	5.2	5.3	5.5	5.6	5.6	5.5	5.4	5.4	5.3	5.2	5.2	5.2	5.1	5.2	5.2	5.2	5.2	5.2	0.2%
Industrial	3.3	3.4	3.3	3.3	3.5	3.5	3.6	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3	0.1%
Transportation	4.8	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	-0.8%
All Sectors Average	4.6	4.8	4.7	4.7	4.9	4.9	5.0	5.0	5.0	4.9	4.9	4.8	4.7	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.4	4.4	-0.2%

**Table 70. Electric Power Projections for EMM Region (3 of 3)  
11 - Western Systems Coordinating Council/NWP**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.90	0.88	0.90	0.92	0.94	0.96	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.99	0.99	1.00	1.00	0.5%
Natural Gas	0.17	0.19	0.23	0.29	0.36	0.44	0.52	0.55	0.57	0.56	0.57	0.59	0.60	0.61	0.62	0.63	0.63	0.63	0.63	0.64	0.65	0.65	6.2%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.3%
Total	1.07	1.07	1.14	1.21	1.30	1.41	1.48	1.52	1.54	1.53	1.54	1.56	1.57	1.59	1.60	1.61	1.61	1.62	1.62	1.63	1.65	1.66	2.0%
Emissions(million short tons) 9/																							
Carbon Dioxide	93.47	103.26	107.96	113.09	119.59	126.58	131.17	133.51	134.58	134.41	135.09	136.29	137.01	137.94	138.55	139.47	139.76	140.21	140.58	141.36	142.88	143.56	2.0%
Sulfur Dioxide	0.17	0.17	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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.2%
Nitrogen Oxide	0.21	0.17	0.18	0.19	0.19	0.20	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	0.21	0.21	0.21	0.2%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 71. Electric Power Projections for EMM Region (1 of 3)  
12 - Western Systems Coordinating Council/RA**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/</b> (gigawatts)																							
Coal Steam	13.26	13.26	13.27	13.28	13.28	13.30	13.38	13.48	13.51	13.73	13.87	13.93	13.98	13.98	13.98	14.03	14.03	14.21	14.37	14.54	14.82	0.5%	
Other Fossil Steam 2/	2.60	2.60	2.60	2.60	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	-0.4%
Combined Cycle	0.99	1.19	1.70	2.23	2.73	3.65	4.59	4.59	4.59	4.94	5.02	5.08	5.08	5.08	5.08	5.08	5.08	5.12	5.13	5.18	5.21	5.26	7.9%
Combustion Turbine/Diesel	3.44	3.54	3.55	3.55	3.77	3.75	3.75	4.40	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.04	5.04	5.15	5.17	5.35	5.36	2.0%
Nuclear Power	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	N/A
Pumped Storage/Other 3/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	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	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 4/	4.36	4.45	4.50	4.50	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.58	4.59	4.60	4.61	4.62	4.63	4.66	4.67	4.68	4.68	4.69	0.3%
<b>Total Capability</b>	<b>28.34</b>	<b>28.72</b>	<b>29.29</b>	<b>29.83</b>	<b>30.33</b>	<b>31.26</b>	<b>32.28</b>	<b>33.04</b>	<b>33.72</b>	<b>34.30</b>	<b>34.53</b>	<b>34.66</b>	<b>34.72</b>	<b>34.73</b>	<b>34.74</b>	<b>34.75</b>	<b>34.81</b>	<b>34.90</b>	<b>35.21</b>	<b>35.44</b>	<b>35.84</b>	<b>36.18</b>	<b>1.1%</b>
<b>Cumulative Planned Additions 5/</b>																							
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	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	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	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	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	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	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	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 4/	0.00	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	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>0.17</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	0.00	0.00	0.00	0.02	0.02	0.04	0.11	0.21	0.25	0.47	0.61	0.67	0.72	0.72	0.72	0.72	0.77	0.77	0.95	1.11	1.28	1.56	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	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	0.20	0.70	1.23	1.74	2.66	3.60	3.60	3.95	4.02	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.13	4.14	4.19	4.22	4.27	N/A
Combustion Turbine/Diesel	0.00	0.02	0.02	0.02	0.25	0.35	0.35	1.00	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.76	1.77	1.95	1.96	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	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	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	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 4/	0.00	0.00	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.13	0.14	0.15	0.16	0.16	0.17	0.21	0.22	0.22	0.23	0.24	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.21</b>	<b>0.77</b>	<b>1.32</b>	<b>2.06</b>	<b>3.11</b>	<b>4.13</b>	<b>4.89</b>	<b>5.57</b>	<b>6.15</b>	<b>6.37</b>	<b>6.51</b>	<b>6.57</b>	<b>6.58</b>	<b>6.59</b>	<b>6.60</b>	<b>6.66</b>	<b>6.75</b>	<b>7.06</b>	<b>7.29</b>	<b>7.68</b>	<b>8.03</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.38</b>	<b>0.95</b>	<b>1.49</b>	<b>2.23</b>	<b>3.28</b>	<b>4.31</b>	<b>5.06</b>	<b>5.74</b>	<b>6.32</b>	<b>6.55</b>	<b>6.69</b>	<b>6.75</b>	<b>6.76</b>	<b>6.76</b>	<b>6.77</b>	<b>6.84</b>	<b>6.93</b>	<b>7.24</b>	<b>7.46</b>	<b>7.86</b>	<b>8.21</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.24</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.1%
Natural Gas	1.09	1.10	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.18	1.19	1.19	1.20	0.4%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.7%
Renewables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6%
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	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	3.0%
<b>Total</b>	<b>1.21</b>	<b>1.22</b>	<b>1.22</b>	<b>1.23</b>	<b>1.23</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.25</b>	<b>1.25</b>	<b>1.26</b>	<b>1.26</b>	<b>1.27</b>	<b>1.27</b>	<b>1.28</b>	<b>1.29</b>	<b>1.29</b>	<b>1.30</b>	<b>1.31</b>	<b>1.32</b>	<b>1.32</b>	<b>1.33</b>	<b>0.5%</b>

**Table 71. Electric Power Projections for EMM Region (2 of 3)  
12 - Western Systems Coordinating Council/RA**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Demand</b> (billion kilowatthours)																								
Residential	39.25	40.05	41.24	42.27	43.19	44.23	45.27	46.17	46.97	47.86	48.73	49.58	50.28	50.96	51.68	52.48	53.30	54.05	54.87	55.69	56.58	57.46	1.7%	
Commercial/Other	50.11	51.11	52.66	53.98	54.99	56.19	57.50	58.63	59.77	61.13	62.35	63.45	64.61	65.56	66.38	67.12	67.85	68.55	69.26	69.90	70.63	71.29	1.6%	
Industrial	27.03	25.80	25.94	26.58	27.26	27.83	28.42	28.89	29.38	29.80	30.07	30.47	30.79	31.23	31.78	32.36	32.93	33.26	33.69	34.13	34.59	35.05	1.2%	
Transportation	0.66	0.68	0.71	0.73	0.82	0.90	0.98	1.05	1.12	1.19	1.26	1.33	1.39	1.46	1.53	1.59	1.64	1.64	1.65	1.65	1.65	1.65	4.2%	
Total Sales	117.05	117.64	120.54	123.56	126.25	129.15	132.18	134.75	137.24	139.97	142.42	144.82	147.08	149.21	151.36	153.56	155.71	157.50	159.46	161.37	163.46	165.45	1.6%	
<b>Net Energy for Load (billion kwh) 7/</b>																								
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	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	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 Elec. Imports	24.02	21.79	20.67	20.37	20.21	19.85	18.53	18.89	18.93	17.32	16.52	16.09	15.22	14.06	13.28	12.39	11.04	9.67	7.88	5.77	4.10	3.30	-8.6%	
Gross Interregional Elec. Exports	43.81	44.68	44.02	44.30	44.81	45.52	45.47	44.40	44.12	40.69	37.36	33.94	31.44	28.56	25.96	22.28	18.61	15.48	12.27	9.04	5.88	5.41	-9.1%	
Purchases from cogenerators 6/	3.56	3.45	3.46	3.46	3.47	3.48	3.49	3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.61	3.62	3.63	3.64	0.1%	
Util. Generation for Customers	144.24	147.25	150.75	154.48	157.92	161.97	166.38	167.63	169.87	170.85	170.81	170.30	170.93	171.33	171.67	171.09	170.94	171.07	171.72	172.61	173.34	175.76	0.9%	
Total Net Energy for Load	128.02	127.81	130.86	134.01	136.80	139.79	142.93	145.62	148.19	150.99	153.50	155.98	158.26	160.40	162.56	164.78	166.96	168.86	170.95	172.96	175.18	177.29	1.5%	
<b>Generation by Fuel Type</b> (billion kilowatthours)																								
Coal	93.31	91.31	92.93	94.63	96.25	97.92	98.49	99.22	99.52	101.14	102.16	102.60	102.96	102.96	102.96	102.96	103.32	103.37	104.67	105.84	107.10	109.20	0.7%	
Petroleum	0.13	0.05	0.05	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	0.04	0.04	0.04	0.04	0.04	0.04	-5.5%	
Natural Gas	8.35	20.46	21.83	23.74	25.50	27.74	31.48	31.90	33.75	33.00	31.84	30.73	30.95	31.33	31.63	31.02	30.47	30.33	29.66	29.36	28.80	29.11	5.8%	
Nuclear	23.79	21.11	21.29	21.42	21.48	21.54	21.60	21.67	21.73	21.79	21.85	21.91	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	-0.4%	
Pumped Storage/Other 3/	0.41	-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	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A	
Renewable 4/	18.65	15.46	15.79	15.79	15.79	15.88	15.92	15.95	15.99	16.03	16.07	16.17	16.21	16.24	16.28	16.31	16.34	16.56	16.58	16.60	16.63	16.65	-0.5%	
Total Generation	144.63	148.35	151.86	155.59	159.03	163.08	167.49	168.74	170.98	171.96	171.92	171.40	172.04	172.44	172.78	172.20	172.05	172.18	172.83	173.72	174.45	176.87	0.9%	
Sales to Customers	144.24	147.25	150.75	154.48	157.92	161.97	166.38	167.63	169.87	170.85	170.81	170.30	170.93	171.33	171.67	171.09	170.94	171.07	171.72	172.61	173.34	175.76	0.9%	
Generation for Own Use	0.39	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	4.9%	
<b>Cogenerators</b>																								
Coal	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	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.0%	
Petroleum	0.01	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	14.2%	
Natural Gas	4.71	4.51	4.52	4.53	4.54	4.55	4.57	4.58	4.59	4.61	4.62	4.63	4.65	4.67	4.68	4.71	4.73	4.75	4.78	4.80	4.82	4.83	0.1%	
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.0%	
Renewable	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.7%	
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	5.43	5.34	5.36	5.37	5.38	5.39	5.40	5.41	5.42	5.44	5.45	5.47	5.49	5.50	5.52	5.54	5.57	5.59	5.61	5.64	5.66	5.67	0.2%	
Sales to Utilities	3.56	3.45	3.46	3.46	3.47	3.48	3.49	3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.61	3.62	3.63	3.64	0.1%	
Generation for Own Use	1.87	1.89	1.90	1.90	1.91	1.91	1.91	1.92	1.92	1.93	1.93	1.93	1.94	1.95	1.95	1.96	1.98	1.99	2.00	2.01	2.02	2.03	0.4%	
<b>End-Use Prices</b> (1998 cents per kilowatthour)																								
Residential	8.5	8.7	8.6	8.5	8.5	8.4	8.4	8.4	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.6	8.5	8.5	8.4	8.4	8.3	8.3	-0.1%	
Commercial	6.9	7.0	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.5	6.5	6.4	-0.3%	
Industrial	4.8	4.9	4.8	4.8	4.8	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.3	-0.6%	
Transportation	6.0	6.1	6.0	6.0	6.0	5.9	5.8	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4	5.4	5.4	5.4	-0.5%	
All Sectors Average	7.0	7.1	7.0	7.0	7.0	6.9	6.8	6.8	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6	6.6	-0.2%	

**Table 71. Electric Power Projections for EMM Region (3 of 3)  
12 - Western Systems Coordinating Council/RA**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.98	0.99	1.00	1.02	1.04	1.06	1.06	1.07	1.07	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.12	1.13	1.14	1.16	0.7%
Natural Gas	0.09	0.22	0.22	0.23	0.23	0.23	0.24	0.25	0.26	0.25	0.24	0.23	0.23	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.22	3.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.9%
Total	1.08	1.21	1.22	1.25	1.27	1.28	1.31	1.32	1.34	1.34	1.34	1.33	1.34	1.34	1.34	1.34	1.34	1.33	1.34	1.35	1.35	1.37	1.1%
Emissions(million short tons) 9/																							
Carbon Dioxide	111.26	114.85	116.84	119.11	121.02	122.93	124.52	125.58	126.85	127.67	128.02	127.92	128.38	128.57	128.73	128.49	128.62	128.58	129.44	130.26	131.14	133.19	0.8%
Sulfur Dioxide	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	-0.1%
Nitrogen Oxide	0.28	0.21	0.21	0.21	0.21	0.22	0.21	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	0.22	0.22	-1.1%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 72. Electric Power Projections for EMM Region (1 of 3)  
13 - Western Systems Coordinating Council/CNV**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Generating Capacity 1/</b> (gigawatts)																								
Coal Steam	5.43	5.43	5.43	5.43	5.43	5.52	5.93	6.18	6.59	6.89	7.04	7.29	7.59	7.93	8.40	8.98	9.67	10.15	10.59	11.37	12.01	12.65	3.9%	
Other Fossil Steam 2/	20.40	20.32	20.32	20.32	20.24	20.24	20.24	20.22	20.14	20.14	19.98	19.92	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	-0.1%	
Combined Cycle	2.29	2.29	2.29	2.29	2.60	4.34	5.44	6.49	6.82	7.65	8.28	8.95	8.98	9.03	9.17	9.32	9.64	9.83	10.08	10.32	10.45	10.55	7.2%	
Combustion Turbine/Diesel	3.01	3.01	3.00	3.00	3.85	3.86	4.11	4.13	4.24	4.42	4.63	4.96	5.43	6.04	6.43	7.00	7.19	7.66	8.23	8.54	8.80	8.96	5.1%	
Nuclear Power	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	N/A	
Pumped Storage/Other 3/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	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	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 4/	16.34	16.52	16.62	16.54	16.44	16.35	16.36	16.27	16.27	16.29	16.42	16.33	16.25	16.26	16.17	16.12	16.25	16.27	16.30	16.39	16.48	16.51	0.0%	
<b>Total Capability</b>	<b>56.33</b>	<b>56.42</b>	<b>56.52</b>	<b>56.43</b>	<b>57.42</b>	<b>59.16</b>	<b>60.93</b>	<b>62.14</b>	<b>62.91</b>	<b>64.24</b>	<b>65.20</b>	<b>66.31</b>	<b>66.99</b>	<b>68.00</b>	<b>68.92</b>	<b>70.17</b>	<b>71.50</b>	<b>72.66</b>	<b>73.95</b>	<b>75.37</b>	<b>76.50</b>	<b>77.42</b>	<b>1.5%</b>	
<b>Cumulative Planned Additions 5/</b>																								
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	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	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	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	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	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	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	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 4/	0.00	0.19	0.28	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	0.30	0.30	0.30	0.30	0.30	0.30	N/A	
<b>Total (planned)</b>	<b>0.00</b>	<b>0.19</b>	<b>0.28</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>N/A</b>	
<b>Cumulative Unplanned Additions 5/</b>																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.09	0.50	0.74	1.15	1.46	1.61	1.85	2.15	2.49	2.97	3.55	4.23	4.71	5.15	5.93	6.58	7.22	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	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	0.31	2.05	3.15	4.21	4.53	5.36	5.99	6.67	6.70	6.75	6.88	7.03	7.36	7.54	7.79	8.04	8.16	8.26	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.85	0.87	1.11	1.14	1.24	1.42	1.63	1.97	2.43	3.04	3.43	4.00	4.20	4.67	5.23	5.54	5.81	5.97	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	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	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	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 4/	0.00	0.00	0.01	0.01	0.02	0.03	0.05	0.06	0.07	0.09	0.21	0.23	0.25	0.26	0.29	0.32	0.44	0.46	0.49	0.58	0.67	0.70	N/A	
<b>Total (unplanned)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>1.19</b>	<b>3.04</b>	<b>4.81</b>	<b>6.14</b>	<b>6.99</b>	<b>8.33</b>	<b>9.45</b>	<b>10.71</b>	<b>11.53</b>	<b>12.55</b>	<b>13.57</b>	<b>14.90</b>	<b>16.23</b>	<b>17.38</b>	<b>18.67</b>	<b>20.10</b>	<b>21.22</b>	<b>22.15</b>	<b>N/A</b>	
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.19</b>	<b>0.29</b>	<b>0.31</b>	<b>1.48</b>	<b>3.33</b>	<b>5.10</b>	<b>6.44</b>	<b>7.29</b>	<b>8.62</b>	<b>9.74</b>	<b>11.01</b>	<b>11.83</b>	<b>12.84</b>	<b>13.87</b>	<b>15.19</b>	<b>16.52</b>	<b>17.68</b>	<b>18.97</b>	<b>20.39</b>	<b>21.52</b>	<b>22.45</b>	<b>N/A</b>	
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>0.09</b>	<b>0.10</b>	<b>0.21</b>	<b>0.40</b>	<b>0.50</b>	<b>0.50</b>	<b>0.63</b>	<b>0.71</b>	<b>0.71</b>	<b>0.87</b>	<b>1.03</b>	<b>1.17</b>	<b>1.17</b>	<b>1.28</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>N/A</b>	
<b>Cogenerators 6/</b>																								
<b>Capacity</b>																								
Coal	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.0%	
Natural Gas	5.55	5.58	5.60	5.62	5.63	5.65	5.67	5.68	5.70	5.72	5.74	5.76	5.79	5.81	5.83	5.86	5.89	5.92	5.96	5.99	6.02	6.05	0.4%	
Other Gaseous Fuels	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	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.7%	
Renewables	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	1.3%	
Other	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%	
<b>Total</b>	<b>6.24</b>	<b>6.28</b>	<b>6.30</b>	<b>6.33</b>	<b>6.35</b>	<b>6.37</b>	<b>6.39</b>	<b>6.41</b>	<b>6.43</b>	<b>6.46</b>	<b>6.48</b>	<b>6.50</b>	<b>6.53</b>	<b>6.56</b>	<b>6.58</b>	<b>6.62</b>	<b>6.65</b>	<b>6.69</b>	<b>6.73</b>	<b>6.76</b>	<b>6.79</b>	<b>6.82</b>	<b>0.4%</b>	

**Table 72. Electric Power Projections for EMM Region (2 of 3)  
13 - Western Systems Coordinating Council/CNV**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electricity Demand</b> (billion kilowatthours)																								
Residential	81.04	83.02	84.27	85.27	86.04	87.20	88.57	89.82	90.78	91.84	93.21	94.60	95.53	96.48	97.55	98.82	100.03	101.10	102.26	103.39	104.65	105.87	1.2%	
Commercial/Other	99.59	104.79	106.52	108.91	110.27	111.83	113.73	115.61	117.23	118.96	120.53	122.02	123.41	124.68	125.86	127.05	128.01	128.81	129.50	130.10	130.58	130.97	1.3%	
Industrial	63.10	63.98	64.57	66.06	67.60	68.92	70.30	71.40	72.50	73.47	74.09	74.98	75.67	76.74	77.95	79.21	80.50	81.21	82.21	83.21	84.26	85.30	1.4%	
Transportation	1.83	1.89	1.94	1.99	2.20	2.41	2.59	2.77	2.92	3.08	3.23	3.39	3.55	3.70	3.85	4.00	4.08	4.07	4.06	4.03	3.99	3.95	3.6%	
Total Sales	245.56	253.68	257.30	262.23	266.12	270.35	275.19	279.60	283.43	287.34	291.07	294.99	298.17	301.60	305.20	309.08	312.61	315.19	318.02	320.73	323.48	326.08	1.3%	
<b>Net Energy for Load (billion kwh) 7/</b>																								
Gross International Imports	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.04	1.19	1.23	1.27	1.32	1.36	1.41	1.46	1.51	1.56	1.61	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	2.2%	
Gross Interregional Elec. Imports	70.66	57.09	62.01	70.47	75.37	86.41	92.37	92.82	89.86	84.52	80.30	76.07	72.63	69.07	64.74	61.09	54.85	51.91	47.70	44.60	42.54	38.82	-2.7%	
Gross Interregional Elec. Exports	13.28	14.57	11.72	11.19	10.24	10.23	8.00	8.01	8.00	7.36	6.72	6.08	5.44	4.80	4.17	3.53	2.89	2.25	1.62	0.98	0.34	0.02	-25.1%	
Purchases from cogenerators 6/	29.54	29.50	29.51	29.61	29.70	29.79	29.89	29.99	30.09	30.20	30.31	30.42	30.54	30.66	30.79	30.93	31.06	31.19	31.33	31.44	31.55	31.63	0.3%	
Util. Generation for Customers	177.49	204.39	200.53	196.81	195.01	188.52	185.43	189.47	196.20	204.96	212.22	219.73	225.58	231.79	238.92	245.65	254.62	259.56	266.03	271.30	275.58	281.67	2.1%	
Total Net Energy for Load	263.38	275.21	279.10	284.42	288.52	293.13	298.29	302.81	306.64	310.76	314.50	318.47	321.63	325.05	328.62	332.48	335.97	338.74	341.78	344.69	347.67	350.44	1.3%	
<b>Generation by Fuel Type</b> (billion kilowatthours)																								
Coal	37.06	38.36	38.88	39.52	40.15	41.44	44.46	46.30	49.33	51.59	52.74	54.54	56.77	59.30	62.85	67.14	72.24	75.82	79.10	84.90	89.69	94.43	4.3%	
Petroleum	0.90	1.08	1.09	1.08	1.04	0.97	0.92	0.75	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	-5.8%	
Natural Gas	29.40	69.36	64.19	60.01	57.86	50.36	44.22	46.85	50.96	57.35	62.51	68.40	72.20	75.87	79.65	82.45	85.51	86.83	89.67	88.52	87.39	88.60	5.1%	
Nuclear	41.11	38.37	38.42	38.45	38.47	38.48	38.50	38.52	38.53	38.55	38.57	38.59	38.59	38.59	38.59	38.52	38.45	38.38	38.59	38.59	38.59	38.59	-0.3%	
Pumped Storage/Other 3/	3.07	-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	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A	
Renewable 4/	68.61	60.50	61.25	61.03	60.71	60.48	60.56	60.26	60.27	60.36	61.30	61.06	60.87	60.87	60.68	60.39	61.27	61.38	61.52	62.14	62.76	62.89	-0.4%	
Total Generation	180.15	207.23	203.37	199.65	197.79	191.29	188.21	192.23	198.89	207.64	214.91	222.36	228.21	234.42	241.55	248.29	257.26	262.19	268.66	273.93	278.21	284.31	2.1%	
Sales to Customers	177.49	204.39	200.53	196.81	195.01	188.52	185.43	189.47	196.20	204.96	212.22	219.73	225.58	231.79	238.92	245.65	254.62	259.56	266.03	271.30	275.58	281.67	2.1%	
Generation for Own Use	2.66	2.84	2.84	2.84	2.78	2.78	2.78	2.76	2.69	2.69	2.69	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	0.0%	
<b>Cogenerators</b>																								
Coal	3.16	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	-0.1%	
Petroleum	0.03	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.22	10.1%	
Natural Gas	42.76	42.06	42.20	42.36	42.51	42.65	42.83	42.98	43.12	43.34	43.50	43.71	43.96	44.19	44.43	44.73	45.04	45.35	45.69	45.97	46.24	46.42	0.4%	
Other Gaseous Fuels	0.02	0.04	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	4.0%	
Renewable	1.25	1.08	1.11	1.13	1.15	1.18	1.20	1.22	1.24	1.25	1.27	1.29	1.30	1.31	1.33	1.35	1.37	1.38	1.39	1.40	1.42	1.44	0.6%	
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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%	
Total	47.26	46.49	46.66	46.84	47.02	47.19	47.39	47.56	47.72	47.97	48.14	48.38	48.64	48.88	49.13	49.45	49.77	50.09	50.45	50.74	51.03	51.27	0.4%	
Sales to Utilities	29.54	29.50	29.51	29.61	29.70	29.79	29.89	29.99	30.09	30.20	30.31	30.42	30.54	30.66	30.79	30.93	31.06	31.19	31.33	31.44	31.55	31.63	0.3%	
Generation for Own Use	17.72	17.00	17.15	17.23	17.32	17.40	17.50	17.57	17.63	17.77	17.84	17.96	18.10	18.21	18.33	18.51	18.71	18.90	19.12	19.30	19.48	19.64	0.5%	
<b>End-Use Prices</b> (1998 cents per kilowatthour)																								
Residential	9.9	9.6	9.5	9.4	9.5	9.4	9.3	9.3	9.5	9.7	9.7	9.8	9.9	9.9	10.0	10.0	9.9	10.0	10.0	9.9	9.9	9.8	0.0%	
Commercial	9.6	9.3	9.2	8.5	8.4	8.2	7.9	7.7	7.6	7.6	7.7	7.8	7.9	8.0	8.1	8.0	8.0	8.0	7.9	7.8	7.8	7.7	-1.0%	
Industrial	6.8	6.6	6.5	5.8	5.7	5.4	5.1	4.8	4.7	4.6	4.7	4.7	4.8	4.9	4.9	4.8	4.8	4.8	4.7	4.6	4.6	4.5	-1.8%	
Transportation	7.0	6.8	6.7	6.6	6.5	6.3	6.2	6.1	6.2	5.9	5.9	6.0	5.9	6.0	6.0	6.0	6.0	6.1	6.1	6.0	6.0	6.0	-0.7%	
All Sectors Average	9.0	8.7	8.6	8.1	8.1	7.9	7.6	7.4	7.5	7.5	7.6	7.6	7.7	7.8	7.8	7.8	7.8	7.7	7.7	7.6	7.6	7.5	-0.8%	

**Table 72. Electric Power Projections for EMM Region (3 of 3)  
13 - Western Systems Coordinating Council/CNV**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Fuel Consumption (quadrillion Btu) 8/																								
Coal	0.37	0.41	0.41	0.42	0.43	0.44	0.46	0.48	0.50	0.52	0.53	0.55	0.56	0.58	0.61	0.64	0.68	0.71	0.73	0.78	0.81	0.85	3.8%	
Natural Gas	0.32	0.71	0.66	0.61	0.58	0.45	0.37	0.37	0.40	0.45	0.48	0.52	0.56	0.59	0.63	0.65	0.67	0.67	0.69	0.67	0.66	0.66	3.4%	
Oil	0.01	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	-5.1%	
Total	0.70	1.13	1.08	1.04	1.02	0.90	0.84	0.86	0.91	0.97	1.02	1.07	1.12	1.18	1.24	1.29	1.35	1.39	1.43	1.45	1.47	1.51	3.6%	
Emissions(million short tons) 9/																								
Carbon Dioxide	67.92	84.39	81.92	80.12	78.87	72.96	70.58	72.13	76.22	80.70	83.84	87.76	91.64	95.72	100.50	105.23	110.47	113.77	117.33	120.79	123.53	127.60	2.9%	
Sulfur Dioxide	0.08	0.08	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	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.3%
Nitrogen Oxide	0.17	0.12	0.12	0.12	0.12	0.11	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	-1.1%	

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 73. Electric Power Projections for EMM Region (1 of 3)  
United States Total**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Generating Capacity 1/ (gigawatts)</b>																							
Coal Steam	305.20	306.34	306.34	306.36	303.52	301.66	301.62	301.76	300.55	300.13	300.47	301.66	302.62	303.49	304.53	305.26	306.80	307.92	310.05	311.50	314.04	316.95	0.2%
Other Fossil Steam 2/	138.17	137.03	137.04	136.87	130.15	126.93	125.29	123.01	120.83	120.65	120.43	119.52	119.15	119.04	118.94	117.37	117.07	115.65	114.79	112.87	112.06	109.87	-1.0%
Combined Cycle	19.46	23.33	25.86	31.60	35.47	46.42	55.75	64.14	69.86	76.18	87.30	93.05	100.07	105.80	111.84	118.74	124.71	132.76	139.24	145.54	150.85	154.64	9.9%
Combustion Turbine/Diesel	73.15	78.84	84.62	89.01	100.17	104.16	115.01	122.29	133.97	143.39	148.59	153.48	160.19	165.14	170.86	174.57	180.44	185.30	191.19	195.64	199.79	202.29	4.7%
Nuclear Power	97.13	97.46	97.46	97.46	94.99	93.40	93.40	89.01	88.25	88.25	87.14	84.14	83.36	81.51	78.18	70.36	67.35	62.58	59.76	58.09	58.09	56.97	-2.4%
Pumped Storage/Other 3/	19.85	19.85	19.89	19.93	19.98	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	20.02	0.0%
Fuel Cells	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	26.6%
Renewable 4/	87.19	88.13	89.29	89.96	90.27	90.70	91.13	91.74	92.20	93.02	93.54	93.84	94.25	94.73	94.76	95.00	95.33	95.61	95.84	96.08	96.37	96.67	0.5%
<b>Total Capability</b>	<b>740.15</b>	<b>750.98</b>	<b>760.51</b>	<b>771.19</b>	<b>774.54</b>	<b>783.29</b>	<b>802.24</b>	<b>811.99</b>	<b>825.69</b>	<b>841.66</b>	<b>857.52</b>	<b>865.75</b>	<b>879.70</b>	<b>889.77</b>	<b>899.17</b>	<b>901.36</b>	<b>911.76</b>	<b>919.90</b>	<b>930.96</b>	<b>939.82</b>	<b>951.28</b>	<b>957.47</b>	<b>1.2%</b>
<b>Cumulative Planned Additions 5/</b>																							
Coal Steam	0.00	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	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	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	3.19	4.23	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	N/A
Combustion Turbine/Diesel	0.00	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	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	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	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	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	N/A
Renewable 4/	0.00	0.90	1.28	1.80	2.02	2.41	2.67	3.16	3.54	4.17	4.46	4.78	5.17	5.55	5.55	5.62	5.73	5.85	5.85	5.85	5.92	5.92	N/A
<b>Total (planned)</b>	<b>0.00</b>	<b>5.64</b>	<b>7.06</b>	<b>8.04</b>	<b>8.27</b>	<b>8.66</b>	<b>8.93</b>	<b>9.43</b>	<b>9.81</b>	<b>10.44</b>	<b>10.74</b>	<b>11.06</b>	<b>11.45</b>	<b>11.84</b>	<b>11.84</b>	<b>11.91</b>	<b>12.02</b>	<b>12.17</b>	<b>12.17</b>	<b>12.17</b>	<b>12.23</b>	<b>12.23</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	0.00	0.00	0.00	0.02	0.02	0.13	0.72	1.12	1.65	2.25	2.60	3.78	4.78	5.65	6.73	7.99	9.53	10.65	12.78	15.52	18.05	20.97	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	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	0.63	2.11	7.44	11.30	22.30	31.63	40.02	45.74	52.06	63.18	68.93	75.95	81.68	87.72	94.62	100.59	108.64	115.12	121.42	126.73	130.52	N/A
Combustion Turbine/Diesel	0.00	4.05	9.86	14.40	26.16	30.42	42.19	49.80	61.50	71.13	76.37	81.90	88.72	93.80	99.51	103.48	109.35	114.21	121.24	125.69	129.83	132.33	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	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	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	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 4/	0.00	0.00	0.72	0.82	0.90	0.97	1.07	1.15	1.23	1.42	1.65	1.77	1.90	2.00	2.14	2.38	2.60	2.76	2.98	3.23	3.46	3.75	N/A
<b>Total (unplanned)</b>	<b>0.00</b>	<b>4.68</b>	<b>12.69</b>	<b>22.68</b>	<b>38.38</b>	<b>53.83</b>	<b>75.61</b>	<b>92.10</b>	<b>110.12</b>	<b>126.86</b>	<b>143.80</b>	<b>156.39</b>	<b>171.35</b>	<b>183.13</b>	<b>196.10</b>	<b>208.48</b>	<b>222.07</b>	<b>236.26</b>	<b>252.12</b>	<b>265.86</b>	<b>278.07</b>	<b>287.57</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>10.32</b>	<b>19.75</b>	<b>30.72</b>	<b>46.65</b>	<b>62.49</b>	<b>84.54</b>	<b>101.52</b>	<b>119.93</b>	<b>137.30</b>	<b>154.54</b>	<b>167.45</b>	<b>182.80</b>	<b>194.97</b>	<b>207.94</b>	<b>220.39</b>	<b>234.09</b>	<b>248.42</b>	<b>264.28</b>	<b>278.03</b>	<b>290.30</b>	<b>299.80</b>	<b>N/A</b>
<b>Cumulative Retirements</b>	<b>0.00</b>	<b>1.40</b>	<b>4.14</b>	<b>4.62</b>	<b>17.84</b>	<b>25.63</b>	<b>28.88</b>	<b>36.25</b>	<b>40.94</b>	<b>42.35</b>	<b>43.72</b>	<b>48.41</b>	<b>49.80</b>	<b>51.90</b>	<b>55.47</b>	<b>65.73</b>	<b>69.03</b>	<b>75.23</b>	<b>80.03</b>	<b>84.92</b>	<b>85.72</b>	<b>89.03</b>	<b>N/A</b>
<b>Cogenerators 6/</b>																							
<b>Capacity</b>																							
Coal	8.78	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	0.1%
Petroleum	1.31	1.31	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	0.0%
Natural Gas	31.80	33.71	35.25	35.39	35.51	35.62	35.75	35.86	35.98	36.14	36.27	36.42	36.59	36.75	36.91	37.12	37.34	37.56	37.82	38.03	38.22	38.42	0.9%
Other Gaseous Fuels	0.44	0.73	0.73	0.74	0.74	0.75	0.76	0.76	0.77	0.79	0.80	0.81	0.82	0.83	0.84	0.86	0.88	0.89	0.91	0.93	0.94	0.96	3.7%
Renewables	7.65	7.73	7.89	8.04	8.21	8.38	8.55	8.69	8.82	8.96	9.08	9.21	9.28	9.37	9.49	9.64	9.78	9.88	9.98	10.08	10.19	10.31	1.4%
Other	0.08	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	3.0%
<b>Total</b>	<b>50.06</b>	<b>52.58</b>	<b>54.28</b>	<b>54.59</b>	<b>54.88</b>	<b>55.16</b>	<b>55.47</b>	<b>55.73</b>	<b>55.99</b>	<b>56.31</b>	<b>56.57</b>	<b>56.86</b>	<b>57.12</b>	<b>57.38</b>	<b>57.67</b>	<b>58.05</b>	<b>58.44</b>	<b>58.77</b>	<b>59.15</b>	<b>59.47</b>	<b>59.79</b>	<b>60.14</b>	<b>0.8%</b>

**Table 73. Electric Power Projections for EMM Region (2 of 3)  
United States Total**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Electricity Demand</b> (billion kilowatthours)																							
Residential	1119.9	1180.3	1201.6	1221.1	1239.6	1259.0	1280.2	1298.3	1316.6	1336.6	1358.9	1377.9	1395.0	1412.1	1429.3	1446.5	1463.3	1479.5	1495.5	1511.4	1529.6	1547.6	1.5%
Commercial/Other	1039.1	1095.5	1115.9	1135.7	1151.3	1167.9	1188.0	1204.4	1221.7	1240.8	1260.9	1276.0	1295.0	1311.0	1324.2	1334.8	1342.6	1350.6	1356.8	1361.3	1366.4	1369.3	1.3%
Industrial	1041.2	1057.8	1059.5	1079.9	1105.4	1125.8	1147.8	1163.4	1180.3	1194.4	1203.4	1216.0	1226.5	1242.6	1261.7	1281.5	1301.2	1313.0	1327.8	1342.3	1359.2	1376.4	1.3%
Transportation	18.4	19.4	19.8	20.3	22.5	24.6	26.6	28.3	29.9	31.5	33.0	34.6	36.2	37.7	39.1	40.6	41.3	41.1	40.8	40.4	40.0	39.4	3.5%
Total Sales	3218.5	3353.0	3396.9	3457.0	3518.9	3577.3	3642.6	3694.4	3748.5	3803.3	3856.3	3904.6	3952.7	4003.5	4054.4	4103.3	4148.4	4184.3	4220.9	4255.5	4295.2	4332.7	1.4%
<b>Net Energy for Load (billion kwh) 7/</b>																							
Gross International Imports	45.4	55.6	55.4	66.2	70.0	66.5	63.5	66.4	60.4	54.0	50.6	43.8	43.2	37.0	34.9	32.4	31.6	32.1	31.4	31.3	31.0	27.9	-2.2%
Gross International Exports	15.4	15.0	15.1	15.2	20.5	20.6	20.7	20.8	21.0	20.0	19.1	18.1	17.0	15.9	14.8	13.7	12.6	11.5	10.4	9.3	8.2	7.7	-3.1%
Gross Interregional Elec. Imports	343.5	331.2	336.7	344.1	349.2	354.9	345.2	339.9	335.5	322.1	314.4	298.0	285.6	273.1	263.0	247.9	227.3	223.1	208.1	195.6	187.7	182.4	-2.8%
Gross Interregional Elec. Exports	346.4	334.4	340.4	348.0	353.4	359.3	349.6	344.3	339.9	326.3	318.7	302.1	289.5	277.1	267.0	251.8	230.9	226.9	211.8	199.3	191.4	186.1	-2.8%
Purchases from cogenerators 6/	146.5	144.5	144.7	145.7	146.7	147.7	148.8	149.8	150.9	152.0	153.1	154.2	155.5	156.7	158.0	159.4	160.7	162.0	163.3	164.5	165.7	166.7	0.6%
Util. Generation for Customers	3277.4	3392.8	3438.7	3488.1	3551.7	3614.5	3680.4	3729.0	3788.7	3848.4	3903.6	3957.5	4003.5	4057.1	4106.8	4154.8	4206.1	4240.9	4277.6	4311.6	4351.4	4392.5	1.3%
Total Net Energy for Load	3451.1	3574.7	3620.1	3680.9	3743.6	3803.8	3867.7	3920.0	3974.7	4030.2	4084.0	4133.3	4181.2	4230.9	4280.9	4328.9	4382.1	4419.7	4458.2	4494.5	4536.1	4575.7	1.3%
<b>Generation by Fuel Type</b> (billion kilowatthours)																							
Coal	1817.3	1879.4	1931.6	1973.3	2015.3	2058.0	2076.2	2088.9	2098.6	2109.9	2121.5	2121.5	2132.4	2143.9	2160.9	2175.0	2200.2	2210.9	2232.5	2250.4	2271.9	2295.7	1.1%
Petroleum	113.8	83.9	84.5	73.8	68.1	64.8	62.3	64.0	60.2	56.4	51.1	48.0	41.4	40.2	39.6	39.3	41.0	39.1	37.6	37.3	37.3	37.2	-5.0%
Natural Gas	325.0	406.2	389.5	405.3	432.3	462.8	517.0	566.6	629.8	681.5	726.4	796.2	852.2	900.3	951.7	1012.8	1085.1	1129.7	1176.7	1213.2	1238.5	1256.2	6.3%
Nuclear	673.7	688.4	689.9	691.5	690.7	680.8	674.4	656.1	644.1	642.9	643.1	627.3	611.8	604.6	586.5	559.2	510.6	490.2	458.1	437.6	428.9	427.1	-2.1%
Pumped Storage/Other 3/	-2.2	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-3.8%
Renewable 4/	360.0	348.2	356.8	359.1	360.2	363.4	366.1	369.5	372.3	374.7	378.4	381.3	382.4	384.8	384.8	385.6	386.3	388.1	389.8	390.2	391.8	393.3	0.4%
Total Generation	3287.5	3405.2	3451.3	3502.0	3565.7	3629.0	3695.1	3744.2	3804.1	3864.4	3919.6	3973.4	4019.4	4072.9	4122.6	4171.0	4222.2	4257.0	4293.8	4327.8	4367.5	4408.6	1.3%
Sales to Customers	3277.4	3392.8	3438.7	3488.1	3551.7	3614.5	3680.4	3729.0	3788.7	3848.4	3903.6	3957.5	4003.5	4057.1	4106.8	4154.8	4206.1	4240.9	4277.6	4311.6	4351.4	4392.5	1.3%
Generation for Own Use	10.1	12.4	12.6	13.9	14.0	14.4	14.7	15.2	15.4	15.9	15.9	15.9	15.9	15.9	15.9	16.2	16.1	16.1	16.1	16.1	16.1	16.1	2.2%
<b>Cogenerators</b>																							
Coal	52.11	51.17	51.24	51.29	51.35	51.40	51.43	51.40	51.39	51.37	51.36	51.33	51.36	51.35	51.35	51.34	51.33	51.31	51.30	51.29	51.29	51.29	-0.1%
Petroleum	7.65	6.11	6.11	6.12	6.13	6.13	6.16	6.17	6.18	6.23	6.23	6.25	6.29	6.31	6.32	6.37	6.39	6.42	6.47	6.49	6.52	6.59	-0.7%
Natural Gas	195.02	195.17	196.01	196.89	197.76	198.58	199.58	200.45	201.29	202.58	203.50	204.73	206.15	207.47	208.80	210.49	212.24	213.99	215.97	217.57	219.12	220.35	0.6%
Other Gaseous Fuels	3.12	5.76	5.76	5.76	5.82	5.84	5.93	5.97	5.98	6.14	6.17	6.24	6.38	6.46	6.53	6.71	6.80	6.89	7.07	7.15	7.24	7.32	3.9%
Renewable	47.65	45.48	46.46	47.34	48.33	49.25	50.18	50.91	51.63	52.32	52.89	53.57	53.97	54.52	55.19	55.98	56.79	57.31	57.80	58.30	58.89	59.55	1.0%
Other	7.68	7.92	7.92	7.92	7.93	7.93	7.95	7.95	7.95	7.98	7.98	8.00	8.02	8.03	8.04	8.07	8.08	8.10	8.13	8.14	8.16	8.17	0.3%
Total	313.24	311.61	313.51	315.31	317.31	319.14	321.22	322.84	324.42	326.62	328.13	330.11	332.17	334.13	336.23	338.97	341.63	344.02	346.73	348.96	351.22	353.27	0.5%
Sales to Utilities	146.54	144.51	144.69	145.72	146.71	147.73	148.82	149.85	150.90	152.02	153.13	154.24	155.48	156.73	158.00	159.36	160.68	161.97	163.29	164.48	165.67	166.71	0.6%
Generation for Own Use	166.70	167.10	168.82	169.59	170.60	171.41	172.40	173.00	173.51	174.60	175.00	175.87	176.70	177.40	178.23	179.60	180.95	182.05	183.44	184.48	185.55	186.56	0.5%
<b>End-Use Prices</b> (1998 cents per kilowatthour)																							
Residential	8.0	7.9	7.7	7.6	7.6	7.6	7.5	7.5	7.5	7.5	7.4	7.4	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	-0.5%
Commercial	7.4	7.2	7.1	6.9	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.4	6.3	6.2	6.2	6.3	6.3	6.2	6.2	6.2	6.2	6.2	-0.8%
Industrial	4.5	4.5	4.4	4.3	4.2	4.1	4.1	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	-0.7%
Transportation	5.6	5.4	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.9	4.8	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.6	-0.9%
All Sectors Average	6.7	6.6	6.5	6.3	6.2	6.2	6.1	6.1	6.1	6.0	5.9	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.8	5.8	-0.6%



**Table 73. Electric Power Projections for EMM Region (3 of 3)  
United States Total**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	18.79	19.66	20.22	20.67	21.19	21.65	21.84	21.97	22.07	22.16	22.28	22.25	22.34	22.44	22.60	22.73	22.97	23.05	23.24	23.36	23.54	23.72	1.1%
Natural Gas	3.75	4.21	3.97	4.00	4.19	4.26	4.62	4.97	5.48	5.86	6.09	6.60	6.96	7.27	7.61	8.02	8.55	8.77	9.05	9.26	9.37	9.46	4.3%
Oil	1.23	0.92	0.92	0.81	0.75	0.71	0.68	0.70	0.66	0.62	0.56	0.53	0.46	0.45	0.44	0.44	0.46	0.44	0.42	0.42	0.42	0.42	-4.8%
Total	23.77	24.79	25.11	25.48	26.12	26.62	27.15	27.64	28.21	28.64	28.93	29.37	29.76	30.16	30.65	31.18	31.97	32.26	32.71	33.04	33.33	33.60	1.6%
Emissions(million short tons) 9/																							
Carbon Dioxide	2235.4	2345.9	2388.8	2427.0	2483.5	2532.5	2571.6	2606.9	2642.5	2670.9	2691.9	2714.7	2739.3	2767.0	2802.3	2838.7	2895.8	2916.2	2950.3	2975.8	3000.5	3024.4	1.4%
Sulfur Dioxide	13.04	11.65	11.35	11.05	10.85	10.65	10.38	10.12	9.76	9.54	10.26	9.15	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	-1.7%
Nitrogen Oxide	5.98	5.03	5.15	5.23	5.37	5.45	5.50	5.54	5.59	5.63	5.66	5.66	5.68	5.71	5.75	5.79	5.87	5.88	5.91	5.91	5.92	5.93	0.0%

1/ Net summer capability 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. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.  
 3/ Other includes methane, propane gas, and blast furnace gas, 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/ Cumulative additions after December 31, 1999.  
 6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.  
 8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).  
 O&M = Operation and maintenance.  
 EMM = Electricity market module.  
 Kwh = Kilowatthour.  
 N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most current available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998 (except for prices and nonutility data) Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Other 1998 and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 74. Electric Generation by Electricity Market Module Region and Source (1 of 3)  
(Billion Kwh)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>East Central Area Reliability</b>																							
Coordination Agreement																							
Coal	487.09	481.43	494.89	502.60	514.69	525.27	529.78	532.57	537.46	543.75	546.90	546.19	548.04	551.01	554.40	557.77	564.61	565.31	569.48	572.00	572.90	573.79	0.7%
Petroleum	2.55	0.85	0.58	0.60	0.41	0.51	0.52	0.41	0.36	0.36	0.35	0.35	0.35	0.35	0.36	0.37	0.52	0.53	0.63	0.64	0.63	0.64	-6.1%
Natural Gas	4.06	22.16	17.86	18.89	19.90	14.49	21.45	22.31	31.45	39.33	46.22	54.97	62.62	66.71	70.96	77.23	90.85	98.49	114.90	127.88	136.14	142.32	17.6%
Nuclear	33.46	51.91	52.15	52.36	52.57	52.78	52.99	53.16	49.93	48.33	48.60	48.74	48.93	49.15	49.22	49.29	36.43	35.24	17.74	6.09	6.09	6.09	-7.5%
Pumped Storage/ Other 1/	-1.34	-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	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-19.8%
Renewables 2/	5.01	5.32	6.07	5.40	5.66	5.01	5.03	5.61	6.12	6.19	6.23	6.68	6.49	6.31	6.15	6.01	5.30	5.27	5.17	5.17	5.18	5.18	0.2%
Total	530.83	561.66	571.55	579.85	593.23	598.05	609.75	614.05	625.31	637.95	648.30	656.92	666.41	673.52	681.07	690.66	697.69	704.84	707.90	711.78	720.93	728.01	1.4%
<b>Electric Reliability Council of Texas</b>																							
Coal	100.50	105.11	106.43	107.80	98.02	99.30	99.30	98.80	98.85	98.90	98.94	98.99	99.03	99.08	99.12	99.15	99.18	99.25	99.37	99.53	99.73	99.96	0.0%
Petroleum	0.12	0.26	0.37	0.33	0.37	0.33	0.30	0.27	0.26	0.26	0.23	0.18	0.15	0.15	0.15	0.14	0.12	0.10	0.09	0.09	0.08	0.08	-1.9%
Natural Gas	99.64	112.95	112.21	113.41	126.59	128.72	134.05	137.52	141.92	145.24	149.78	153.92	158.21	162.67	167.49	171.31	175.40	178.74	181.88	184.55	187.77	190.65	3.0%
Nuclear	38.69	34.41	34.64	34.79	34.87	34.94	35.01	35.08	35.15	35.22	35.29	35.36	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	-0.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	1.05	1.33	2.13	2.93	3.38	4.29	4.84	6.58	7.13	8.29	8.24	8.20	8.30	8.26	8.23	8.52	8.62	8.60	8.58	8.56	8.68	8.67	10.1%
Total	240.00	254.06	255.78	259.27	263.22	267.58	273.49	278.24	283.31	287.90	292.49	296.65	301.07	305.53	310.35	314.49	318.69	322.05	325.29	328.09	331.63	334.73	1.5%
<b>Mid-Atlantic Area Council</b>																							
Coal	111.70	112.00	114.73	117.50	121.54	125.62	126.89	127.90	128.73	129.43	129.42	129.57	129.01	129.45	129.76	130.91	131.90	132.13	132.91	133.30	134.02	133.96	0.8%
Petroleum	9.30	5.02	4.04	3.04	2.62	2.15	2.14	1.96	1.67	1.17	1.08	1.29	1.09	1.07	1.01	1.10	1.12	0.97	0.95	0.80	0.81	0.72	-11.0%
Natural Gas	6.26	13.66	14.53	18.99	21.34	24.36	26.35	34.50	39.25	44.50	46.24	55.47	61.08	62.74	67.97	76.87	89.33	93.94	101.21	104.54	103.73	105.67	13.7%
Nuclear	97.13	95.40	95.59	95.78	95.91	96.13	96.07	93.40	88.27	88.52	88.95	81.78	76.28	76.28	74.94	60.48	48.00	46.86	42.05	42.05	42.05	42.05	-3.7%
Pumped Storage/ Other 1/	-0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.2%
Renewables 2/	7.22	8.67	9.21	9.52	9.74	10.13	10.20	10.66	11.24	11.42	12.45	13.32	15.17	17.37	17.79	17.79	17.79	18.39	18.53	18.53	18.52	18.52	4.4%
Total	231.04	234.75	238.10	244.83	251.14	258.38	261.65	268.41	269.16	275.03	278.13	281.44	282.61	286.91	291.47	287.15	288.13	292.30	295.65	299.22	299.13	300.93	1.2%
<b>Mid-America Interconnected Network</b>																							
Coal	136.93	148.80	156.28	162.12	169.64	175.89	177.52	179.28	180.82	182.44	183.74	187.32	191.62	194.72	200.58	204.40	207.69	209.34	211.65	212.36	217.84	220.52	2.2%
Petroleum	1.07	0.48	0.45	0.37	0.36	0.35	0.34	0.35	0.35	0.34	0.46	0.47	0.52	0.68	0.84	0.93	0.88	0.94	1.00	1.03	1.00	0.94	-0.6%
Natural Gas	5.62	1.98	1.41	1.29	1.20	1.19	1.35	1.48	1.60	1.67	5.02	6.98	7.71	8.89	10.83	11.57	12.58	13.18	13.70	15.06	15.49	15.56	4.7%
Nuclear	71.77	85.35	85.07	85.37	85.68	85.98	86.28	83.63	83.36	83.66	83.96	84.26	81.33	80.73	75.44	75.42	75.40	75.37	75.35	75.33	75.31	75.14	0.2%
Pumped Storage/ Other 1/	-0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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/	4.35	3.47	3.47	3.47	3.47	3.47	3.50	3.50	3.50	3.50	3.50	3.99	4.03	4.12	3.49	3.66	3.89	3.62	4.00	3.70	3.97	3.97	-0.4%
Total	219.67	240.08	246.68	252.62	260.35	266.87	269.00	268.24	269.61	271.60	276.67	283.02	285.20	289.15	291.19	295.96	300.43	302.45	305.70	307.48	313.61	316.14	1.7%
<b>Mid-Continent Area Power Pool</b>																							
Coal	121.14	126.87	129.75	133.53	135.16	141.62	144.76	145.45	146.00	146.45	147.01	147.42	148.47	148.60	149.03	149.45	150.52	150.62	150.91	151.21	151.51	151.80	1.0%
Petroleum	0.94	0.40	0.35	0.29	0.27	0.27	0.34	0.28	0.31	0.31	0.32	0.29	0.29	0.28	0.28	0.31	0.31	0.27	0.27	0.25	0.25	0.28	-5.3%
Natural Gas	1.79	2.30	1.44	1.05	0.96	2.64	3.43	5.43	6.12	7.83	9.73	12.20	15.33	17.31	19.66	22.72	29.19	31.67	32.79	34.10	34.16	34.92	14.5%
Nuclear	25.41	26.28	26.28	26.28	25.68	19.87	18.40	18.36	18.41	18.39	18.46	17.70	13.97	13.97	12.22	9.50	8.15	8.15	8.15	8.15	8.15	8.15	-5.0%
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	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/	14.48	17.97	19.15	19.83	19.86	19.90	19.95	20.00	20.04	20.09	20.13	20.16	20.20	20.22	20.25	20.27	20.29	20.31	20.33	20.33	20.34	20.35	1.6%
Total	163.76	173.81	176.96	180.98	181.93	184.30	186.88	189.52	190.89	193.06	195.64	197.77	198.27	200.39	201.44	202.25	208.45	211.03	212.44	214.05	214.41	215.50	1.3%

**Table 74. Electric Generation by Electricity Market Module Region and Source (2 of 3)  
(Billion Kwh)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Northeast Power Coordinating Council/ New York																							
Coal	30.34	29.76	30.56	31.10	31.83	32.70	32.66	32.61	32.55	32.44	32.35	32.14	32.22	32.21	32.19	32.23	32.29	32.31	32.34	32.37	32.40	32.36	0.3%
Petroleum	15.33	17.54	15.86	12.75	12.22	15.24	14.17	13.89	12.97	12.24	10.02	10.84	7.13	6.39	6.30	5.32	5.73	5.25	4.81	4.44	4.72	4.84	-5.1%
Natural Gas	21.42	10.02	9.00	8.43	8.31	8.89	12.38	11.83	18.19	19.49	25.05	30.85	36.66	41.73	44.76	51.15	55.25	61.67	62.19	61.91	62.01	62.11	5.0%
Nuclear	31.31	34.48	34.55	34.54	33.44	28.47	28.47	28.43	28.35	28.27	27.00	20.48	20.48	20.48	20.48	20.48	15.00	8.42	8.42	8.42	8.42	8.42	-5.8%
Pumped Storage/ Other 1/	-1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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/	31.38	19.55	19.72	20.27	20.72	21.09	21.44	22.08	22.24	22.39	22.54	22.69	22.38	22.39	22.40	22.42	22.44	22.45	22.46	22.47	22.47	22.47	-1.5%
Total	128.62	111.36	109.69	107.09	106.52	106.39	109.11	108.84	114.30	114.83	116.96	117.00	118.87	123.20	126.13	131.59	130.70	130.10	130.22	129.61	130.03	130.20	0.1%
Northeast Power Coordinating Council/ New England																							
Coal	13.16	19.91	19.95	20.08	20.22	20.35	20.39	20.49	20.49	20.49	20.48	20.58	20.60	20.73	20.84	20.88	20.92	20.96	20.99	21.00	21.03	21.07	2.2%
Petroleum	22.25	14.42	17.57	16.03	16.34	14.73	12.68	12.15	10.10	8.39	7.23	5.05	3.65	3.36	3.20	2.62	2.54	2.47	2.50	2.66	2.74	2.63	-9.3%
Natural Gas	11.26	16.50	16.86	19.56	19.99	23.37	27.16	31.96	35.69	39.67	42.35	48.10	52.18	58.06	61.69	63.92	66.50	66.28	66.31	66.14	66.51	66.23	8.4%
Nuclear	20.69	29.19	29.33	29.44	29.46	29.48	29.50	24.61	24.89	24.96	25.03	25.10	25.11	21.08	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	-0.9%
Pumped Storage/ Other 1/	-0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-26.7%
Renewables 2/	11.81	13.29	13.89	14.23	14.45	14.66	14.91	15.26	15.60	15.94	16.27	16.50	16.56	16.60	16.65	16.81	17.01	17.05	17.08	17.11	17.14	17.16	1.7%
Total	78.74	93.31	97.61	99.34	100.46	102.59	104.64	104.47	106.77	109.45	111.36	115.32	118.10	119.83	119.24	121.09	123.82	123.62	123.75	123.77	124.28	123.96	2.1%
Southeastern Electric Reliability Council/ Florida																							
Coal	60.33	66.51	66.77	67.81	69.27	70.31	70.24	70.14	70.04	70.34	70.36	69.49	69.36	69.34	69.67	69.98	70.40	70.78	71.12	71.71	72.41	73.46	0.9%
Petroleum	40.92	26.36	26.81	23.47	19.37	16.83	16.20	17.96	17.54	16.61	15.65	14.12	12.75	12.57	12.25	12.74	13.59	12.96	12.06	11.74	11.84	11.60	-5.6%
Natural Gas	32.61	24.61	22.47	25.35	29.68	35.55	44.58	53.09	59.58	64.95	67.29	74.20	79.58	87.91	95.98	105.25	109.22	115.18	122.09	125.34	128.58	131.28	6.5%
Nuclear	31.11	29.10	29.15	29.18	29.05	28.92	28.79	24.58	23.04	23.04	23.04	23.04	20.43	15.19	12.56	12.56	8.37	6.26	6.28	6.28	6.28	6.28	-7.0%
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	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/	4.00	3.65	4.20	4.43	4.41	4.59	4.76	4.94	5.09	4.76	5.43	5.49	5.54	4.90	5.59	5.59	5.56	5.58	5.62	5.75	5.88	5.61	1.6%
Total	168.98	150.23	149.41	150.25	151.78	156.20	164.56	170.72	175.30	179.70	181.77	186.34	190.27	195.15	198.68	206.12	211.33	212.86	217.15	220.83	225.00	228.24	1.4%
Southeastern Electric Reliability Council/ excluding Florida																							
Coal	372.53	397.19	411.52	421.04	436.19	441.78	445.52	449.49	451.62	452.56	456.96	452.00	453.50	455.53	458.44	458.72	465.22	468.45	476.67	482.46	488.25	498.71	1.3%
Petroleum	6.05	3.16	2.31	1.81	1.77	1.26	1.42	1.44	1.51	1.17	1.08	0.98	1.02	0.95	0.86	1.22	1.56	1.18	1.09	1.43	1.31	1.30	-6.8%
Natural Gas	12.04	19.54	17.19	15.89	16.13	25.05	33.10	42.09	52.26	63.09	71.02	82.73	92.12	97.92	104.99	114.53	123.73	128.91	133.69	140.57	143.76	143.38	11.9%
Nuclear	204.12	190.37	190.84	191.19	191.32	191.37	185.96	181.83	179.62	179.36	179.16	177.14	173.52	173.22	172.82	168.52	157.68	155.04	147.14	140.58	136.27	134.57	-1.9%
Pumped Storage/ Other 1/	-1.99	-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	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-10.8%
Renewables 2/	37.95	35.65	37.13	36.96	36.61	38.39	39.40	38.98	39.21	39.01	39.16	39.85	39.26	39.77	39.05	38.46	38.19	39.01	39.21	38.44	38.66	38.80	0.1%
Total	630.70	645.74	658.82	666.73	681.87	697.69	705.23	713.67	724.07	735.03	747.21	752.54	759.25	767.22	775.99	781.28	786.22	792.43	797.63	803.32	808.08	816.59	1.2%
Southwest Power Pool																							
Coal	168.71	181.46	186.38	191.19	196.08	197.51	197.79	198.01	194.27	191.41	191.40	191.37	191.15	191.19	190.99	191.08	191.21	191.38	191.61	191.50	192.04	192.63	0.6%
Petroleum	6.52	7.61	8.30	7.19	6.53	5.30	6.27	7.42	7.74	7.97	7.07	6.70	6.64	6.51	6.40	6.48	6.46	6.18	5.90	5.83	5.42	5.64	-0.7%
Natural Gas	78.44	69.61	61.81	62.06	57.84	60.82	66.63	70.80	80.56	87.37	89.87	95.80	100.98	104.70	110.71	117.09	128.93	135.29	139.11	143.95	150.02	151.61	3.0%
Nuclear	48.21	45.69	45.75	45.78	45.78	45.78	45.70	45.63	45.56	45.48	45.78	45.78	45.78	45.78	45.78	42.55	37.03	32.47	32.47	30.25	25.87	25.87	-2.8%
Pumped Storage/ Other 1/	-0.09	-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	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-2.9%
Renewables 2/	9.58	6.63	7.12	7.15	7.19	7.22	7.28	7.33	7.38	7.43	7.48	7.52	7.57	7.60	7.64	7.67	7.70	7.73	7.75	7.77	7.79	7.81	-0.9%
Total	311.37	310.94	309.30	313.32	313.37	316.58	323.62	329.14	335.46	339.62	341.55	347.12	352.07	355.73	361.48	364.83	371.29	373.01	376.79	379.26	381.10	383.50	1.0%

**Table 74. Electric Generation by Electricity Market Module Region and Source (3 of 3)  
(Billion Kwh)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Western Systems Coordinating Council/ N.W. Power Pool Area																								
Coal	84.31	80.55	82.37	84.17	86.10	88.14	88.26	88.43	88.71	88.71	88.83	89.08	89.50	89.62	89.89	90.10	90.48	90.91	91.46	91.99	92.80	93.60	0.5%	
Petroleum	0.17	0.25	0.25	0.19	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	0.09	0.09	0.08	0.08	0.08	0.08	-3.1%
Natural Gas	11.22	20.26	25.83	33.72	44.04	56.63	67.72	73.72	75.29	74.81	76.25	78.56	79.28	81.10	82.04	84.25	84.68	85.64	85.94	87.68	90.57	91.16	10.0%	
Nuclear	6.92	6.75	6.81	6.89	6.96	7.03	7.10	7.18	7.25	7.32	7.39	7.46	7.53	7.61	7.68	7.76	7.76	7.75	7.75	7.75	7.75	7.75	7.75	0.5%
Pumped Storage/ Other 1/	0.00	-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	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	N/A
Renewables 2/	144.10	155.09	155.95	156.34	156.49	156.54	156.53	156.54	156.60	157.40	157.69	157.75	157.91	158.16	158.56	159.67	159.82	160.08	160.93	161.49	161.62	163.09	0.6%	
Total	246.71	262.68	270.99	281.09	293.46	308.21	319.48	325.74	327.72	328.11	330.02	332.72	334.08	336.36	338.03	341.65	342.61	344.25	345.94	348.79	352.61	355.47	1.7%	
West. Sys. Coordinating Council/ Rocky Mountain Power Area & Arizona																								
Coal	93.31	91.31	92.93	94.63	96.25	97.92	98.49	99.22	99.52	101.14	102.16	102.60	102.96	102.96	102.96	102.96	103.32	103.37	104.67	105.84	107.10	109.20	0.7%	
Petroleum	0.13	0.05	0.05	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-5.5%
Natural Gas	8.35	20.46	21.83	23.74	25.50	27.74	31.48	31.90	33.75	33.00	31.84	30.73	30.95	31.33	31.63	31.02	30.47	30.33	29.66	29.36	28.80	29.11	5.8%	
Nuclear	23.79	21.11	21.29	21.42	21.48	21.54	21.60	21.67	21.73	21.79	21.85	21.91	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	-0.4%
Pumped Storage/ Other 1/	0.41	-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	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A
Renewables 2/	18.65	15.46	15.79	15.79	15.79	15.88	15.92	15.95	15.99	16.03	16.07	16.17	16.21	16.24	16.28	16.31	16.34	16.56	16.58	16.60	16.63	16.65	16.65	-0.5%
Total	144.63	148.35	151.86	155.59	159.03	163.08	167.49	168.74	170.98	171.96	171.92	171.40	172.04	172.44	172.78	172.20	172.05	172.18	172.83	173.72	174.45	176.87	0.9%	
Western System Coordinating Council/ California-Southern Nevada Power																								
Coal	37.06	38.36	38.88	39.52	40.15	41.44	44.46	46.30	49.33	51.59	52.74	54.54	56.77	59.30	62.85	67.14	72.24	75.82	79.10	84.90	89.69	94.43	4.3%	
Petroleum	0.90	1.08	1.09	1.08	1.04	0.97	0.92	0.75	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	-5.8%
Natural Gas	29.40	69.36	64.19	60.01	57.86	50.36	44.22	46.85	50.96	57.35	62.51	68.40	72.20	75.87	79.65	82.45	85.51	86.83	89.67	88.52	87.39	88.60	5.1%	
Nuclear	41.11	38.37	38.42	38.45	38.47	38.48	38.50	38.52	38.53	38.55	38.57	38.59	38.59	38.59	38.59	38.52	38.45	38.38	38.59	38.59	38.59	38.59	38.59	-0.3%
Pumped Storage/ Other 1/	3.07	-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	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A
Renewables 2/	68.61	60.50	61.25	61.03	60.71	60.48	60.56	60.26	60.27	60.36	61.30	61.06	60.87	60.87	60.68	60.39	61.27	61.38	61.52	62.14	62.76	62.89	62.89	-0.4%
Total	180.15	207.23	203.37	199.65	197.79	191.29	188.21	192.23	198.89	207.64	214.91	222.36	228.21	234.42	241.55	248.29	257.26	262.19	268.66	273.93	278.21	284.31	2.1%	

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.

Notes: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding cogenerators). Net summer capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 utility generation: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Other 1998 and Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (1 of 3)  
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>East Central Area Reliability</b>																							
Coordination Agreement																							
Coal Steam	83.61	83.61	83.61	83.61	82.87	82.06	81.50	81.28	80.39	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	79.87	-0.2%
Other Fossil Steam 1/	3.56	3.56	3.70	3.70	3.70	3.70	3.70	3.70	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	0.0%
Combined Cycle	0.34	0.34	1.39	1.39	1.39	1.39	1.39	1.39	1.53	1.53	2.67	3.42	3.80	4.16	4.37	4.64	5.10	5.86	6.91	7.90	9.42	10.22	16.8%
Combustion Turbine/ Diesel	9.05	9.63	10.11	11.87	14.09	14.44	17.63	18.24	20.89	23.04	25.09	25.83	27.75	27.96	28.63	29.05	29.56	30.80	32.38	34.33	35.04	36.36	6.5%
Nuclear Power	7.59	7.65	7.65	7.65	7.65	7.65	7.65	7.65	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	5.89	4.79	2.81	0.82	0.82	0.82	-9.6%
Pumped Storage/ Other 2/	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	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	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/	1.56	1.57	1.60	1.60	1.65	1.65	1.66	1.66	1.67	1.67	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	0.4%
<b>Total</b>	<b>108.99</b>	<b>109.64</b>	<b>111.34</b>	<b>113.10</b>	<b>114.63</b>	<b>114.18</b>	<b>116.80</b>	<b>117.20</b>	<b>118.18</b>	<b>119.82</b>	<b>123.00</b>	<b>124.51</b>	<b>126.81</b>	<b>127.38</b>	<b>128.26</b>	<b>127.95</b>	<b>127.82</b>	<b>127.85</b>	<b>128.49</b>	<b>131.43</b>	<b>133.67</b>	<b>135.79</b>	<b>1.0%</b>
<b>Electric Reliability Council of Texas</b>																							
Coal Steam	14.84	14.84	14.84	14.84	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.42	13.44	13.46	13.49	-0.4%
Other Fossil Steam 1/	29.52	29.32	29.27	29.20	28.28	27.05	26.89	26.21	24.88	24.78	24.72	24.62	24.62	24.52	24.43	24.13	23.29	22.52	21.12	20.43	19.38		-1.9%
Combined Cycle	1.53	3.61	3.63	3.91	4.07	4.07	5.40	5.40	6.44	6.44	8.00	8.00	9.40	10.00	10.87	11.18	11.50	12.77	13.77	14.94	15.91	16.66	11.5%
Combustion Turbine/ Diesel	4.92	5.54	6.25	6.59	8.31	9.35	10.03	11.42	12.44	13.55	14.02	15.17	15.83	16.69	17.42	17.78	18.40	19.02	19.54	19.77	20.14	20.34	6.7%
Nuclear Power	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	N/A
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	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	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/	0.64	0.82	1.01	1.27	1.42	1.72	1.90	2.27	2.46	2.86	2.86	2.86	2.93	2.93	2.94	2.99	3.05	3.06	3.06	3.07	3.13	3.14	7.5%
<b>Total</b>	<b>56.24</b>	<b>58.92</b>	<b>59.79</b>	<b>60.62</b>	<b>60.27</b>	<b>60.38</b>	<b>62.42</b>	<b>63.50</b>	<b>64.42</b>	<b>65.83</b>	<b>67.80</b>	<b>68.95</b>	<b>70.97</b>	<b>72.44</b>	<b>73.94</b>	<b>74.58</b>	<b>75.28</b>	<b>76.34</b>	<b>77.11</b>	<b>77.13</b>	<b>77.88</b>	<b>77.81</b>	<b>1.5%</b>
<b>Mid-Atlantic Area Council</b>																							
Coal Steam	18.80	18.65	18.46	18.46	18.41	18.41	18.35	18.35	18.35	18.32	18.32	18.34	18.35	18.36	18.37	18.39	18.42	18.46	18.51	18.56	18.60	18.60	0.0%
Other Fossil Steam 1/	8.64	8.35	8.35	8.35	8.20	8.16	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	7.55	7.55	7.12	7.12	6.36		-1.4%
Combined Cycle	1.95	2.08	2.27	3.42	4.21	5.23	5.34	6.96	6.96	7.66	8.54	8.86	9.52	9.67	10.21	10.99	12.04	12.88	13.61	14.21	14.21	14.63	9.6%
Combustion Turbine/ Diesel	8.76	8.93	9.79	9.88	10.13	10.25	10.77	10.94	11.87	12.54	12.57	12.66	12.74	13.03	13.30	13.47	14.08	14.12	15.09	15.09	15.10	15.10	2.5%
Nuclear Power	12.98	13.02	13.02	13.02	13.02	13.02	13.02	11.91	11.91	11.91	11.91	10.17	10.17	10.17	9.08	6.37	6.37	5.53	5.53	5.53	5.53	5.53	-3.8%
Pumped Storage/ Other 2/	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	N/A
Renewable Sources 3/	1.70	1.71	1.77	1.77	1.80	1.83	1.86	1.91	2.01	2.16	2.37	2.64	2.96	3.34	3.34	3.34	3.34	3.46	3.46	3.46	3.46	3.46	3.3%
<b>Total</b>	<b>54.18</b>	<b>54.09</b>	<b>55.00</b>	<b>56.24</b>	<b>57.13</b>	<b>58.26</b>	<b>58.82</b>	<b>59.56</b>	<b>60.59</b>	<b>62.09</b>	<b>63.22</b>	<b>62.17</b>	<b>63.25</b>	<b>64.08</b>	<b>63.80</b>	<b>62.06</b>	<b>63.75</b>	<b>63.40</b>	<b>65.15</b>	<b>65.37</b>	<b>65.44</b>	<b>65.10</b>	<b>0.8%</b>
<b>Mid-America Interconnected Network</b>																							
Coal Steam	27.69	27.66	27.66	27.66	27.66	27.66	27.66	27.66	27.66	27.70	27.70	28.44	28.89	29.26	29.66	30.07	30.31	30.44	30.79	30.65	31.38	31.65	0.6%
Other Fossil Steam 1/	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	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Combined Cycle	0.31	0.31	0.31	0.31	0.31	0.31	0.42	0.42	0.42	0.42	1.78	2.48	2.97	3.18	3.67	3.91	4.06	4.16	4.47	4.84	5.03	5.12	13.5%
Combustion Turbine/ Diesel	7.56	10.33	11.54	12.75	14.08	15.28	16.94	18.36	20.35	21.43	21.82	21.94	22.10	22.25	22.59	22.39	22.44	22.74	22.04	22.32	22.53	22.59	5.1%
Nuclear Power	12.72	12.77	12.77	12.77	12.77	12.77	12.77	12.00	12.00	12.00	12.00	12.00	11.22	11.22	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	-1.1%
Pumped Storage/ Other 2/	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	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	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	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/	0.82	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.87	0.88	0.88	0.92	0.93	0.6%
<b>Total</b>	<b>53.14</b>	<b>55.95</b>	<b>57.17</b>	<b>58.37</b>	<b>59.70</b>	<b>60.90</b>	<b>62.67</b>	<b>63.32</b>	<b>65.31</b>	<b>66.44</b>	<b>68.19</b>	<b>69.74</b>	<b>70.07</b>	<b>70.80</b>	<b>70.88</b>	<b>71.32</b>	<b>71.79</b>	<b>72.32</b>	<b>72.29</b>	<b>72.81</b>	<b>73.96</b>	<b>74.40</b>	<b>1.5%</b>
<b>Mid-Continent Area Power Pool</b>																							
Coal Steam	20.86	21.35	21.35	21.35	20.73	20.73	20.73	20.70	20.70	20.70	20.70	20.71	20.72	20.73	20.74	20.76	20.78	20.80	20.83	20.85	20.88	20.90	0.0%
Other Fossil Steam 1/	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	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	N/A
Combined Cycle	0.43	0.43	0.43	0.43	0.43	0.88	0.92	1.35	1.35	1.68	2.10	2.47	2.87	3.16	3.39	3.70	4.01	4.43	4.59	4.77	4.86	4.95	11.8%
Combustion Turbine/ Diesel	6.07	6.14	6.30	6.84	7.31	7.63	8.29	8.94	9.40	9.94	10.06	10.14	10.43	10.58	11.03	11.26	11.82	12.33	12.74	12.94	13.24	13.42	3.7%
Nuclear Power	3.75	3.79	3.79	3.79	3.32	2.54	2.54	2.54	2.54	2.54	2.54	1.96	1.96	1.96	1.58	1.04	1.04	1.04	1.04	1.04	1.04	1.04	-5.7%
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	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	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/	3.74	4.15	4.32	4.51	4.52	4.52	4.53	4.54	4.55	4.56	4.56	4.57	4.58	4.58	4.58	4.59	4.59	4.60	4.60	4.60	4.60	4.61	0.9%
<b>Total</b>	<b>35.47</b>	<b>36.47</b>	<b>36.81</b>	<b>37.53</b>	<b>36.92</b>	<b>36.92</b>	<b>37.63</b>	<b>38.68</b>	<b>39.15</b>	<b>40.04</b>	<b>40.57</b>	<b>40.46</b>	<b>41.17</b>	<b>41.63</b>	<b>41.94</b>	<b>41.97</b>	<b>42.86</b>	<b>43.82</b>	<b>44.42</b>	<b>44.82</b>	<b>45.25</b>	<b>45.54</b>	<b>1.1%</b>

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (2 of 3)  
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Northeast Power Coordinating Council/ New York																								
Coal Steam	4.82	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	-0.2%
Other Fossil Steam 1/	12.33	12.33	12.33	12.33	10.74	9.67	9.20	8.45	8.45	8.45	8.45	8.45	8.45	8.34	8.34	7.18	7.18	7.18	7.18	7.08	7.08	6.70	6.70	-2.7%
Combined Cycle	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.62	1.62	2.42	2.42	3.13	3.81	4.12	5.04	5.55	6.45	6.58	6.58	6.58	6.62	6.62	9.0%
Combustion Turbine/ Diesel	3.71	3.71	3.71	3.71	3.71	3.70	4.46	4.46	4.85	5.11	5.35	6.18	6.47	6.51	6.60	6.66	6.67	6.70	6.70	6.70	6.70	6.70	6.70	2.7%
Nuclear Power	4.96	4.96	4.96	4.96	4.03	4.03	4.03	4.03	4.03	4.03	2.93	2.93	2.93	2.93	2.93	2.11	1.14	1.14	1.14	1.14	1.14	1.14	1.14	-6.5%
Pumped Storage/ Other 2/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	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	0.00	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/	4.60	4.59	4.67	4.81	4.88	4.95	5.02	5.17	5.17	5.17	5.17	5.18	5.18	5.18	5.19	5.19	5.20	5.20	5.20	5.20	5.20	5.21	5.21	0.6%
Total	32.69	32.52	32.59	32.73	30.28	29.29	29.63	29.03	30.06	30.32	30.26	31.09	32.09	32.71	33.10	32.13	31.67	32.60	32.73	32.64	32.64	32.30	32.30	-0.1%
Northeast Power Coordinating Council/ New England																								
Coal Steam	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.77	2.78	2.80	2.81	2.81	2.82	2.82	2.82	2.82	2.83	2.83	2.83	0.1%
Other Fossil Steam 1/	8.13	8.03	8.03	8.03	7.12	7.12	7.12	6.92	6.63	6.63	6.63	5.83	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	-1.7%
Combined Cycle	1.31	1.57	1.57	2.10	2.64	3.22	3.50	3.50	3.50	3.50	3.97	3.97	4.74	5.55	5.79	6.10	6.43	6.43	6.43	6.45	6.51	6.51	6.51	7.6%
Combustion Turbine/ Diesel	1.98	2.18	2.16	2.17	2.21	2.21	2.66	3.47	4.30	4.95	5.24	6.06	6.19	6.20	6.45	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	5.6%
Nuclear Power	4.32	4.32	4.32	4.32	4.32	4.32	4.32	3.45	3.45	3.45	3.45	3.45	3.45	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	-2.9%
Pumped Storage/ Other 2/	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	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	0.00	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/	2.98	3.01	3.13	3.20	3.25	3.30	3.36	3.43	3.51	3.59	3.66	3.72	3.73	3.74	3.74	3.77	3.82	3.83	3.83	3.84	3.84	3.85	3.85	1.2%
Total	23.13	23.52	23.62	24.23	23.96	24.59	25.37	25.19	25.81	26.54	27.38	27.45	28.13	27.81	28.31	28.79	29.17	29.19	29.19	29.22	29.29	29.29	29.29	1.1%
Southeastern Electric Reliability Council/ Florida																								
Coal Steam	9.46	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.75	9.76	9.78	9.82	9.90	9.97	10.07	10.07	0.3%
Other Fossil Steam 1/	14.27	13.79	13.79	13.79	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	-0.8%
Combined Cycle	4.42	4.47	4.47	5.03	5.48	6.47	7.99	9.27	10.01	10.88	11.44	12.13	12.83	14.02	15.26	16.47	17.07	17.91	18.88	19.44	19.85	20.24	20.24	7.2%
Combustion Turbine/ Diesel	5.52	5.70	5.71	5.71	6.30	6.18	6.11	6.14	6.46	6.55	6.69	6.57	6.92	7.13	7.32	7.78	7.88	7.95	8.17	8.21	8.38	8.51	8.51	2.0%
Nuclear Power	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.06	3.06	3.06	3.06	3.06	3.06	2.37	1.68	1.68	1.68	0.84	0.84	0.84	0.84	0.84	0.84	-6.7%
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	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	0.00	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/	0.54	0.54	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.74	1.4%
Total	38.10	38.14	38.20	38.77	38.04	38.92	40.38	40.87	41.95	42.91	43.63	44.19	45.25	45.96	46.70	48.40	49.12	49.21	50.45	51.13	51.78	52.43	52.43	1.5%
Southeastern Electric Reliability Council/ excluding Florida																								
Coal Steam	64.52	65.24	65.44	65.44	65.44	64.77	64.86	64.88	64.60	64.64	64.68	64.77	64.88	64.97	65.09	64.74	65.15	65.48	66.38	66.82	67.46	68.84	68.84	0.3%
Other Fossil Steam 1/	3.11	3.11	3.11	3.09	3.09	3.06	3.06	3.04	3.04	2.99	2.99	2.94	2.94	2.94	2.94	2.86	2.86	2.86	2.78	2.78	2.66	2.66	2.66	-0.7%
Combined Cycle	1.82	2.17	2.17	2.32	2.32	4.59	5.96	7.87	9.74	11.99	14.06	15.57	16.62	17.61	18.49	19.63	20.35	21.57	22.56	23.47	23.86	24.20	24.20	12.5%
Combustion Turbine/ Diesel	12.41	12.86	14.03	14.42	16.08	16.34	17.67	19.01	20.39	21.98	22.82	23.13	24.72	26.23	27.88	28.73	30.88	31.96	33.21	34.21	35.54	35.77	35.77	4.9%
Nuclear Power	26.92	26.97	26.97	26.97	25.91	25.10	25.10	24.28	24.28	24.28	24.28	23.59	23.59	23.59	23.59	21.67	21.67	20.56	19.73	18.91	18.91	17.79	17.79	-1.9%
Pumped Storage/ Other 2/	6.68	6.68	6.72	6.76	6.80	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	0.1%
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	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/	11.57	11.58	11.69	11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.79	11.80	11.81	11.81	11.82	11.84	11.87	11.90	11.92	11.92	0.1%
Total	127.02	128.61	130.14	130.70	131.34	132.42	135.22	137.66	140.64	144.48	147.44	148.62	151.38	153.98	156.64	156.28	159.57	161.08	163.34	164.89	167.17	168.02	168.02	1.3%

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source (3 of 3)  
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Southwest Power Pool</b>																								
Coal Steam	27.53	27.53	27.53	27.53	27.53	27.04	27.04	27.04	26.51	26.03	26.03	26.03	26.00	26.00	25.98	25.99	26.00	26.03	26.06	26.04	26.11	26.19	-0.2%	
Other Fossil Steam 1/	30.58	30.58	30.50	30.42	29.36	28.49	27.53	26.92	26.61	26.58	26.58	26.58	26.58	26.58	26.58	26.34	26.34	26.34	26.34	26.34	26.34	26.34	26.34	-0.7%
Combined Cycle	1.30	1.74	2.16	3.50	3.50	4.58	5.48	6.29	7.26	8.19	9.20	9.68	10.09	10.40	11.20	12.08	13.10	14.19	14.91	15.50	16.35	16.72	12.3%	
Combustion Turbine/ Diesel	5.19	5.40	6.07	6.07	7.39	7.87	9.01	9.19	10.16	11.25	11.67	12.21	12.99	13.90	14.58	15.22	16.28	16.80	17.63	18.05	18.63	18.86	6.0%	
Nuclear Power	5.95	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	5.20	4.26	4.26	4.26	3.40	3.40	3.40	-2.5%	
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	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	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	0.00	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/	2.84	2.84	2.92	2.92	2.93	2.93	2.95	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07	3.07	0.3%
<b>Total</b>	<b>73.90</b>	<b>74.63</b>	<b>75.72</b>	<b>76.98</b>	<b>77.24</b>	<b>77.46</b>	<b>78.54</b>	<b>78.94</b>	<b>80.04</b>	<b>81.58</b>	<b>83.02</b>	<b>84.04</b>	<b>85.19</b>	<b>86.44</b>	<b>87.90</b>	<b>88.36</b>	<b>89.52</b>	<b>91.17</b>	<b>92.76</b>	<b>92.90</b>	<b>94.40</b>	<b>95.09</b>	<b>1.2%</b>	
<b>Western Systems Coordinating Council/ N.W. Power Pool Area</b>																								
Coal Steam	11.61	11.61	11.61	11.61	11.61	11.61	11.62	11.65	11.68	11.68	11.70	11.73	11.79	11.80	11.84	11.88	11.94	12.01	12.09	12.16	12.27	12.37	0.3%	
Other Fossil Steam 1/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	N/A
Combined Cycle	1.78	2.13	2.48	3.68	4.80	6.71	8.34	9.63	9.63	9.68	9.81	10.02	10.05	10.13	10.23	10.60	10.78	11.15	11.32	11.95	12.60	12.95	9.4%	
Combustion Turbine/ Diesel	1.53	1.88	2.40	2.47	2.95	3.29	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.73	3.74	3.74	3.74	4.2%	
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	N/A	
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	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	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	0.00	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/	35.51	35.50	35.63	35.69	35.72	35.74	35.76	35.78	35.80	35.92	35.98	36.00	36.04	36.08	36.15	36.31	36.35	36.40	36.52	36.61	36.64	36.85	0.2%	
<b>Total</b>	<b>52.63</b>	<b>53.34</b>	<b>54.32</b>	<b>55.66</b>	<b>57.29</b>	<b>59.56</b>	<b>61.53</b>	<b>62.86</b>	<b>62.92</b>	<b>63.08</b>	<b>63.29</b>	<b>63.56</b>	<b>63.68</b>	<b>63.82</b>	<b>64.03</b>	<b>64.60</b>	<b>64.88</b>	<b>65.36</b>	<b>65.87</b>	<b>66.67</b>	<b>67.46</b>	<b>68.11</b>	<b>1.2%</b>	
<b>Western Systems Coordinating Council/ Rocky Mountain Power Area &amp; Arizona</b>																								
Coal Steam	13.26	13.26	13.27	13.28	13.28	13.30	13.38	13.48	13.51	13.73	13.87	13.93	13.98	13.98	13.98	14.03	14.03	14.21	14.37	14.54	14.82	0.5%		
Other Fossil Steam 1/	2.60	2.60	2.60	2.60	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	-0.4%	
Combined Cycle	0.99	1.19	1.70	2.23	2.73	3.65	4.59	4.59	4.59	4.94	5.02	5.08	5.08	5.08	5.08	5.08	5.08	5.12	5.13	5.18	5.21	5.26	7.9%	
Combustion Turbine/ Diesel	3.44	3.54	3.55	3.55	3.77	3.75	3.75	4.40	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.04	5.04	5.15	5.17	5.35	5.36	2.0%	
Nuclear Power	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	N/A	
Pumped Storage/ Other 2/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	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	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/	4.36	4.45	4.50	4.50	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.58	4.59	4.60	4.61	4.62	4.63	4.66	4.67	4.68	4.68	4.69	0.3%	
<b>Total</b>	<b>28.34</b>	<b>28.72</b>	<b>29.29</b>	<b>29.83</b>	<b>30.33</b>	<b>31.26</b>	<b>32.28</b>	<b>33.04</b>	<b>33.72</b>	<b>34.30</b>	<b>34.53</b>	<b>34.66</b>	<b>34.72</b>	<b>34.73</b>	<b>34.74</b>	<b>34.75</b>	<b>34.81</b>	<b>34.90</b>	<b>35.21</b>	<b>35.44</b>	<b>35.84</b>	<b>36.18</b>	<b>1.1%</b>	
<b>Western Systems Coordinating Council/ California-Southern Nevada Power</b>																								
Coal Steam	5.43	5.43	5.43	5.43	5.43	5.52	5.93	6.18	6.59	6.89	7.04	7.29	7.59	7.93	8.40	8.98	9.67	10.15	10.59	11.37	12.01	12.65	3.9%	
Other Fossil Steam 1/	20.40	20.32	20.32	20.32	20.24	20.24	20.24	20.22	20.14	20.14	19.98	19.92	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	-0.1%
Combined Cycle	2.29	2.29	2.29	2.29	2.60	4.34	5.44	6.49	6.82	7.65	8.28	8.95	8.98	9.03	9.17	9.32	9.64	9.83	10.08	10.32	10.45	10.55	7.2%	
Combustion Turbine/ Diesel	3.01	3.01	3.00	3.00	3.85	3.86	4.11	4.13	4.24	4.42	4.63	4.96	5.43	6.04	6.43	7.00	7.19	7.66	8.23	8.54	8.80	8.96	5.1%	
Nuclear Power	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	N/A	
Pumped Storage/ Other 2/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	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	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/	16.34	16.52	16.62	16.54	16.44	16.35	16.36	16.27	16.27	16.29	16.42	16.33	16.25	16.26	16.17	16.12	16.25	16.27	16.30	16.39	16.48	16.51	0.0%	
<b>Total</b>	<b>56.33</b>	<b>56.42</b>	<b>56.52</b>	<b>56.43</b>	<b>57.42</b>	<b>59.16</b>	<b>60.93</b>	<b>62.14</b>	<b>62.91</b>	<b>64.24</b>	<b>65.20</b>	<b>66.31</b>	<b>66.99</b>	<b>68.00</b>	<b>68.92</b>	<b>70.17</b>	<b>71.50</b>	<b>72.66</b>	<b>73.95</b>	<b>75.37</b>	<b>76.50</b>	<b>77.42</b>	<b>1.5%</b>	

1/ Includes oil-, gas-, and dual-fired capacity.

2/ Other includes methane, propane, blast furnace gas, 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.

Notes: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding cogenerators). Net summer capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 utility: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report, 1997." Other 1998 and Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.







**Table 76. Renewable Resources Consumption/Displacement by Region and Source for Electricity (3 of 3)  
(Trillion Btu)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
WSSCC/ CNV																							
Conventional Hydropower	515.19	432.82	432.68	432.49	432.25	432.12	431.91	431.73	431.59	431.40	431.18	431.05	430.86	430.64	430.52	430.30	430.12	429.97	429.75	429.59	429.46	429.23	-0.8%
Geothermal 1/	269.34	275.29	297.27	290.16	283.51	279.06	282.06	274.28	274.96	279.39	307.79	301.46	297.09	311.32	292.24	284.08	310.11	313.12	317.29	335.36	352.96	356.69	1.3%
MSW	34.75	39.74	39.95	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	0.7%
Biomass 2/	21.66	13.50	13.50	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	-2.0%
Solar Thermal 3/	9.18	9.16	9.16	9.20	9.24	9.28	9.32	9.47	9.58	9.69	9.77	9.84	9.92	9.99	10.11	10.22	10.33	10.41	10.52	10.64	10.75	10.86	0.8%
Solar Photovoltaic 3/	0.02	0.28	0.40	0.53	0.66	0.76	0.86	1.02	1.17	1.33	1.49	1.65	1.87	2.09	2.30	2.63	2.95	3.27	3.60	3.92	4.24	4.57	27.8%
Wind	33.41	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	0.5%
United States																							
Conventional Hydropower	3256.6	3081.3	3081.8	3084.4	3087.7	3089.0	3090.3	3094.3	3093.9	3092.6	3091.4	3089.1	3087.4	3086.3	3085.3	3084.1	3083.0	3082.3	3080.6	3079.4	3078.6	3077.3	-0.3%
Geothermal 1/	394.81	404.88	439.20	444.67	443.78	442.88	446.43	440.04	441.22	470.76	507.28	508.83	511.73	543.94	527.53	553.10	584.46	601.69	633.46	669.64	691.18	740.15	2.9%
MSW	284.45	283.73	360.08	373.87	382.94	395.29	407.64	424.37	438.70	459.84	474.45	490.13	508.85	528.68	538.47	548.59	552.74	560.16	564.66	567.19	569.41	571.41	3.2%
Biomass 2/	61.10	86.59	106.20	108.20	108.36	124.08	135.24	147.68	159.11	153.29	165.23	181.31	178.15	184.08	175.64	170.06	162.48	169.07	173.06	164.16	169.18	167.54	4.7%
Solar Thermal 3/	9.18	9.16	9.19	9.26	9.33	9.74	9.81	9.99	10.46	10.66	11.07	11.25	11.45	11.65	11.92	12.31	12.58	12.81	13.08	13.34	13.61	13.91	1.9%
Solar Photovoltaic 3/	0.03	0.34	0.47	0.59	0.96	1.33	1.81	2.31	2.81	3.31	4.06	4.70	5.48	6.25	7.03	7.96	8.87	9.77	10.70	11.60	12.50	13.41	31.8%
Wind	34.84	57.78	61.41	70.16	73.67	79.88	84.10	92.13	97.52	106.80	109.55	112.57	116.05	118.54	119.41	119.61	122.06	122.64	122.92	122.92	124.30	124.30	6.0%

1/ Includes hydrothermal resources only (hot water and steam).

2/ Include projections for energy crops beginning in 2010.

3/ Grid connected generation only.

Btu = British Thermal Unit.

MSW = Municipal solid waste.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 77. Renewable Resources, Generating Capacity by EMM Region and Source (1 of 3)  
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>ECAR</b>																								
Conventional Hydropower	1.32	1.33	1.33	1.33	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	0.2%	
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.07	0.07	0.10	0.10	0.11	0.11	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	0.16	0.16	0.16	0.16	3.7%
Biomass 2/	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	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 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	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	0.00	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	1.56	1.57	1.60	1.60	1.65	1.65	1.66	1.66	1.67	1.67	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.70	0.4%
<b>ERCOT</b>																								
Conventional Hydropower	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	N/A
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.00	0.00	0.09	0.14	0.17	0.22	0.26	0.33	0.37	0.44	0.44	0.44	0.44	0.44	0.44	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	24.1%
Biomass 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	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	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	17.8%
Wind	0.12	0.30	0.40	0.62	0.73	0.98	1.12	1.42	1.57	1.90	1.90	1.90	1.96	1.96	1.96	1.96	2.02	2.02	2.02	2.02	2.09	2.09	2.09	14.0%
Total	0.64	0.82	1.01	1.27	1.42	1.72	1.90	2.27	2.46	2.86	2.86	2.86	2.93	2.93	2.94	2.99	3.05	3.06	3.06	3.07	3.13	3.14	3.14	7.5%
<b>MAAC</b>																								
Conventional Hydropower	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	N/A
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.47	0.47	0.53	0.53	0.55	0.56	0.57	0.59	0.63	0.69	0.77	0.87	0.99	1.14	1.14	1.14	1.14	1.19	1.19	1.19	1.19	1.19	1.19	4.3%
Biomass 2/	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.12	0.18	0.26	0.36	0.48	0.63	0.63	0.63	0.63	0.68	0.68	0.68	0.68	0.68	0.68	15.2%
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 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	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	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.06	0.10	0.14	0.20	0.28	0.36	0.36	0.36	0.36	0.39	0.39	0.39	0.39	0.39	0.39	N/A
Total	1.70	1.71	1.77	1.77	1.80	1.83	1.86	1.91	2.01	2.16	2.37	2.64	2.96	3.34	3.34	3.34	3.34	3.46	3.46	3.46	3.46	3.46	3.46	3.3%
<b>MAIN</b>																								
Conventional Hydropower	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.1%
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Biomass 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	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.08	0.08	0.08	20.0%
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 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	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.6%
Total	0.82	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.87	0.88	0.88	0.92	0.93	0.93	0.6%
<b>MAPP</b>																								
Conventional Hydropower	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.10	0.10	0.20	0.21	0.22	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	5.2%
Biomass 2/	0.12	0.12	0.19	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	0.24	0.24	0.24	0.24	0.24	0.24	0.24	3.2%
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.15	0.55	0.55	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	7.3%
Total	3.74	4.15	4.32	4.51	4.52	4.52	4.53	4.54	4.55	4.56	4.56	4.57	4.58	4.58	4.58	4.59	4.59	4.60	4.60	4.60	4.60	4.61	4.61	0.9%

**Table 77. Renewable Resources, Generating Capacity by EMM Region and Source (2 of 3)  
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020		
<b>NPCC/ NY</b>																									
Conventional Hydropower	4.32	4.32	4.39	4.53	4.60	4.67	4.75	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	0.6%	
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.6%	
Biomass 2/	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A	
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic 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	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	0.00	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	4.60	4.59	4.67	4.81	4.88	4.95	5.02	5.17	5.17	5.17	5.17	5.18	5.18	5.18	5.19	5.19	5.20	5.20	5.20	5.20	5.20	5.21	5.21	0.6%	
<b>NPCC/ NE</b>																									
Conventional Hydropower	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	N/A	
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.48	0.49	0.55	0.57	0.58	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.64	0.65	0.66	0.67	0.67	0.68	0.69	0.69	0.70	0.70	0.70	1.7%	
Biomass 2/	0.72	0.73	0.75	0.76	0.78	0.79	0.81	0.83	0.85	0.87	0.89	0.90	0.90	0.90	0.90	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	1.1%
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic 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	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	0.02	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.34	0.38	0.42	0.42	0.42	0.42	0.43	0.46	0.46	0.46	0.46	0.46	0.46	0.46	17.7%	
Total	2.98	3.01	3.13	3.20	3.25	3.30	3.36	3.43	3.51	3.59	3.66	3.72	3.73	3.74	3.74	3.77	3.82	3.83	3.83	3.84	3.84	3.84	3.85	1.2%	
<b>SERC/ STV/ Florida</b>																									
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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.3%	
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.47	0.47	0.53	0.54	0.54	0.55	0.56	0.57	0.58	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.65	1.5%	
Biomass 2/	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	1.8%	
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic 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	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	0.00	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	0.54	0.54	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.74	1.4%	
<b>SERC/ STV/ excluding Florida</b>																									
Conventional Hydropower	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	0.0%	
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.19	0.19	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	4.0%	
Biomass 2/	0.15	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	0.16	0.16	0.16	0.16	0.18	0.20	0.23	0.25	0.25	2.3%	
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic 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	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	0.00	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	11.57	11.58	11.69	11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.79	11.80	11.81	11.81	11.82	11.84	11.87	11.90	11.92	11.92	0.1%	
<b>SPP</b>																									
Conventional Hydropower	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	N/A	
Geothermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.00	0.00	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	N/A	
Biomass 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Thermal 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	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	0.00	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	2.84	2.84	2.92	2.92	2.93	2.93	2.95	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07	3.07	0.3%	

**Table 77. Renewable Resources, Generating Capacity by EMM Region and Source (3 of 3)  
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>WSSC/ NWP</b>																								
Conventional Hydropower	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	0.0%
Geothermal 1/	0.23	0.23	0.29	0.34	0.36	0.36	0.36	0.36	0.36	0.47	0.50	0.52	0.55	0.58	0.63	0.77	0.79	0.82	0.94	1.01	1.03	1.22	1.22	7.8%
MSW	0.04	0.04	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	7.4%
Biomass 2/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.15	0.15	N/A
Wind	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Total	35.51	35.50	35.63	35.69	35.72	35.74	35.76	35.78	35.80	35.92	35.98	36.00	36.04	36.08	36.15	36.31	36.35	36.40	36.52	36.61	36.64	36.85	36.85	0.2%
<b>WSSC/ RA</b>																								
Conventional Hydropower	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	N/A
Geothermal 1/	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.40	0.40	0.40	0.40	0.40	0.40	0.5%
MSW	0.00	0.00	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	18.2%
Biomass 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 3/	0.00	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	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	N/A
Solar Photovoltaic 3/	0.00	0.00	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	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	21.3%
Wind	0.01	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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	12.3%
Total	4.36	4.45	4.50	4.50	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.58	4.59	4.60	4.61	4.62	4.63	4.66	4.67	4.68	4.68	4.69	4.69	0.3%
<b>WSSC/ CNV</b>																								
Conventional Hydropower	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	N/A
Geothermal 1/	2.29	2.36	2.46	2.35	2.25	2.15	2.16	2.05	2.05	2.06	2.18	2.08	1.99	1.99	1.89	1.83	1.94	1.95	1.97	2.04	2.12	2.13	2.13	-0.3%
MSW	0.26	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	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	1.3%
Biomass 2/	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.1%
Solar Thermal 3/	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.6%
Solar Photovoltaic 3/	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.17	13.7%
Wind	1.68	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	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	0.1%
Total	16.34	16.52	16.62	16.54	16.44	16.35	16.36	16.27	16.27	16.29	16.42	16.33	16.25	16.26	16.17	16.12	16.25	16.27	16.30	16.39	16.48	16.51	16.51	0.0%
<b>United States</b>																								
Conventional Hydropower	77.71	77.72	77.79	77.94	78.06	78.13	78.21	78.35	78.35	78.35	78.35	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	0.0%
Geothermal 1/	2.89	2.96	3.11	3.05	2.97	2.88	2.89	2.79	2.79	2.90	3.05	2.98	2.91	2.95	2.90	2.98	3.11	3.18	3.31	3.46	3.55	3.75	3.75	1.2%
MSW	2.49	2.58	3.27	3.40	3.48	3.59	3.70	3.86	3.99	4.19	4.33	4.47	4.65	4.83	4.87	4.96	5.00	5.08	5.11	5.13	5.15	5.17	5.17	3.4%
Biomass 2/	1.76	1.78	1.87	1.94	1.96	1.99	2.01	2.05	2.11	2.19	2.29	2.41	2.53	2.68	2.68	2.69	2.71	2.77	2.80	2.83	2.90	2.93	2.93	2.3%
Solar Thermal 3/	0.33	0.33	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.48	1.7%
Solar Photovoltaic 3/	0.01	0.01	0.02	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.35	0.38	0.42	0.45	0.49	0.52	0.52	18.4%
Wind	1.99	2.74	2.90	3.27	3.43	3.71	3.89	4.24	4.47	4.87	4.97	5.07	5.20	5.29	5.29	5.30	5.40	5.42	5.42	5.42	5.49	5.49	5.49	4.7%
Total	87.19	88.13	89.29	89.96	90.27	90.70	91.13	91.74	92.20	93.02	93.54	93.84	94.25	94.73	94.76	95.00	95.33	95.61	95.84	96.08	96.37	96.67	96.67	0.5%

1/ Includes hydrothermal resources only (hot water and steam).

2/ Include projections for energy crops beginning in 2010.

3/ Grid connected generation only.

Btu = British Thermal Unit.

MSW = Municipal solid waste.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 78. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization (1 of 1)  
(Million of Barrels per Day)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
PAD District I																								
Base Capacity	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.3%	
Capacity Additions	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-1.4%
Total Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	0.2%	
Utilization	94.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	0.0%	
PAD Districts II to IV																								
Base Capacity	11.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	0.1%
Capacity Additions	0.3	0.0	0.0	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	7.8%
Total Capacity	11.6	11.6	11.6	12.0	12.3	12.5	12.7	12.8	12.8	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	0.5%
Utilization	96.8	96.0	96.0	94.8	94.4	94.3	94.6	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	0.0%
PAD District V																								
Base Capacity	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.1%
Capacity Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	4.1%
Total Capacity	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	0.2%	
Utilization	93.0	80.6	83.8	83.0	84.0	85.4	86.5	87.5	88.2	89.0	89.8	90.2	90.0	90.4	90.9	91.7	92.0	92.3	91.5	91.4	91.6	92.3	0.0%	
United States																								
Base Capacity	15.9	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	0.1%
Capacity Additions	0.4	0.0	0.0	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.5	6.1%	
Total Capacity	16.3	16.3	16.3	16.7	17.0	17.2	17.4	17.5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.7	17.7	17.7	17.8	0.4%	
Utilization	96.0	92.7	93.5	92.6	92.5	92.7	93.2	93.8	94.4	94.6	94.7	94.8	94.8	94.8	94.9	95.1	95.1	95.2	95.0	95.0	95.0	95.2	0.0%	

PAD = Petroleum Administration for Defense.

N/A = Not applicable.

Notes: The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA, Petroleum Supply Annual for 1999 data.

Source: 1998: Estimated based on biennial data from 1997 and 1999. Projections: Energy Information Administration (EIA): AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 79. Components of Selective Petroleum Product Prices (1 of 1)  
(1998 Dollars per Gallon)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Diesel</b>																							
End-User Price	1.04	1.25	1.23	1.23	1.23	1.23	1.23	1.24	1.24	1.24	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.24	1.24	0.8%
Federal Taxes	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	-2.2%
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	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	N/A
Distribution Costs	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.3%
Wholesale Price	0.44	0.67	0.65	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.71	0.71	0.71	0.71	0.72	0.72	0.73	0.73	0.74	0.74	0.74	0.75	2.4%
<b>Motor Gasoline</b>																							
End-User Price	1.07	1.30	1.27	1.26	1.27	1.28	1.29	1.28	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28	0.8%
Federal Taxes	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.11	-2.3%
State Taxes 1/	0.22	0.21	0.21	0.21	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	0.22	0.22	0.22	0.22	0.22	0.0%
Distribution Costs	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.2%
Wholesale Price	0.53	0.77	0.74	0.73	0.74	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	1.9%
<b>Jet Fuel</b>																							
End-User Price	0.55	0.72	0.70	0.71	0.71	0.72	0.73	0.74	0.75	0.76	0.78	0.78	0.78	0.78	0.78	0.78	0.80	0.80	0.80	0.80	0.80	0.80	1.7%
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.2%
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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Distribution Costs 2/	-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	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	2.2%
Wholesale Price	0.49	0.67	0.65	0.66	0.66	0.67	0.68	0.69	0.70	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.75	0.76	0.76	0.76	0.76	0.76	2.0%
<b>Residual Distillate Fuel/Heating Oil</b>																							
End-User Price	0.85	1.05	1.03	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.08	1.09	1.09	1.09	1.2%
Distribution Costs	0.41	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	-0.2%
Wholesale Price	0.44	0.66	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.70	0.70	0.71	2.2%
World Oil Price	0.29	0.50	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	2.8%

1/ Includes a 2 cent average local tax.

2/ Distribution costs are estimated as the average difference between wholesale and end-user prices. These costs are often negative for jet fuel because large bulk sales to airlines (end-users) are often cheaper than smaller sales to wholesale distributors.

N/A = Not applicable.

Notes: The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) form EI-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"; and EI-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report."

1998 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, <http://www.fhwa.dot.gov/ohim/mmf1r/mmf1rpage.htm>, March 1999. 1998 Jet Fuel taxes: EIA, Office of Oil and Gas. 1998 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 80. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Production 1/ (million barrels per day)																							
Lower 48 Total	5.08	5.01	4.73	4.59	4.49	4.43	4.40	4.38	4.36	4.35	4.35	4.36	4.39	4.43	4.47	4.52	4.57	4.62	4.67	4.71	4.74	4.75	-0.3%
Lower 48 Onshore																							
Northeast	0.10	0.10	0.08	0.07	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-1.6%
Gulf Coast	0.85	0.79	0.74	0.70	0.67	0.64	0.62	0.59	0.54	0.48	0.43	0.38	0.35	0.32	0.30	0.28	0.27	0.27	0.27	0.27	0.27	0.27	-5.0%
Midcontinent	0.37	0.34	0.32	0.30	0.29	0.29	0.30	0.31	0.33	0.36	0.38	0.40	0.42	0.43	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.8%
Southwest	1.11	1.05	1.03	1.04	1.04	1.05	1.06	1.08	1.10	1.13	1.16	1.19	1.22	1.24	1.26	1.29	1.31	1.33	1.34	1.36	1.37	1.38	1.0%
Rocky Mountain	0.45	0.42	0.41	0.40	0.40	0.39	0.38	0.38	0.38	0.38	0.39	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.3%
West Coast	0.72	0.67	0.64	0.62	0.61	0.60	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.65	0.65	0.64	-0.6%
Lower 48 Offshore																							
Gulf	1.29	1.48	1.36	1.33	1.31	1.29	1.27	1.26	1.26	1.26	1.26	1.27	1.28	1.28	1.29	1.30	1.31	1.32	1.34	1.36	1.37	1.38	0.3%
Pacific	0.18	0.14	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	-3.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wellhead Prices (1998 dollars per barrel)																							
Lower 48 Average	11.60	20.40	19.26	19.54	19.77	19.90	20.08	20.15	20.28	20.44	20.51	20.62	21.03	20.94	20.85	20.82	20.86	20.94	21.04	21.12	21.19	21.27	2.8%
Lower 48 Onshore																							
Northeast	12.46	21.84	19.77	19.90	20.05	20.16	20.32	20.37	20.48	20.64	20.71	20.81	21.29	21.16	20.99	20.91	20.90	20.98	21.07	21.13	21.17	21.25	2.5%
Gulf Coast	12.23	21.43	19.64	19.77	19.90	20.01	20.16	20.22	20.32	20.48	20.54	20.63	21.12	20.98	20.83	20.75	20.75	20.84	20.93	20.99	21.04	21.11	2.5%
Midcontinent	12.42	21.74	19.61	19.74	19.88	20.00	20.14	20.20	20.31	20.47	20.54	20.64	21.12	20.99	20.85	20.79	20.79	20.88	20.97	21.03	21.08	21.16	2.5%
Southwest	12.29	21.51	19.35	19.48	19.61	19.73	19.86	19.93	20.04	20.19	20.27	20.36	20.84	20.72	20.62	20.59	20.62	20.71	20.80	20.87	20.94	21.03	2.5%
Rocky Mountain	11.41	19.98	19.69	19.82	19.95	20.07	20.21	20.27	20.38	20.54	20.60	20.69	21.18	21.04	20.89	20.81	20.80	20.89	20.98	21.04	21.08	21.16	2.8%
West Coast	9.60	16.82	16.53	17.54	18.27	18.47	18.87	18.94	19.19	19.37	19.46	19.63	19.55	19.75	19.92	20.05	20.22	20.31	20.41	20.56	20.70	20.82	3.6%
Lower 48 Offshore																							
Gulf	12.03	21.06	20.43	20.56	20.70	20.82	20.96	21.03	21.14	21.30	21.36	21.46	21.97	21.82	21.66	21.58	21.58	21.67	21.76	21.83	21.88	21.96	2.8%
Pacific	7.80	13.66	15.38	16.31	16.99	17.18	17.55	17.61	17.85	18.02	18.10	18.26	18.18	18.36	18.52	18.65	18.81	18.89	18.98	19.12	19.25	19.36	4.2%
Atlantic	12.03	21.06	19.77	19.90	20.05	20.16	20.32	20.37	20.48	20.64	20.71	20.81	21.29	21.16	20.99	20.91	20.90	20.98	21.07	21.13	21.17	21.25	2.6%

1/ Includes lease condensate.

N/A = Not applicable.

Notes: Supply regions are defined in "Documentation of the Oil and Gas Supply Module", Energy Information Administration (EIA), DOE/EIA-MO63(99) (Washington, DC, January 1999). Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 end-user and wholesale prices: estimated based on Energy Information Administration (EIA) form EI-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report"; and EI-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." End-user prices include Federal and State taxes which are derived from: Federal Highway Administration, Table MF-121T, <http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm>, March 1999. 1998-1999: End-user and wholesale prices are derived from the Short-Term Energy Outlook, 3rd Quarter 1999. 1998 forward: Federal and State taxes and distribution costs are assumed. 2000 forward: End-user and wholesale price projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 81. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Production (trillion cubic feet) 1/																							
Lower 48 Total	18.44	18.47	18.03	18.06	18.44	18.70	19.24	19.80	20.43	20.95	21.26	21.97	22.42	22.86	23.31	23.87	24.52	24.80	25.14	25.44	25.66	25.86	1.5%
Lower 48 Onshore																							
Northeast	0.78	0.81	0.83	0.86	0.86	0.86	0.85	0.84	0.82	0.82	0.82	0.85	0.89	0.96	1.05	1.15	1.27	1.32	1.37	1.40	1.41	1.45	2.8%
Gulf Coast	4.81	4.88	4.53	4.34	4.28	4.35	4.60	4.96	5.39	5.76	5.99	6.29	6.40	6.40	6.34	6.30	6.33	6.33	6.39	6.46	6.47	6.41	1.3%
Midcontinent	2.67	2.58	2.42	2.35	2.34	2.36	2.45	2.58	2.72	2.83	2.90	3.02	3.08	3.11	3.11	3.12	3.18	3.20	3.25	3.33	3.43	3.56	1.3%
Southwest	1.56	1.48	1.43	1.44	1.48	1.53	1.63	1.74	1.86	1.97	2.05	2.16	2.23	2.28	2.31	2.34	2.39	2.44	2.51	2.58	2.63	2.65	2.4%
Rocky Mountain	2.84	3.09	3.17	3.30	3.43	3.43	3.49	3.57	3.66	3.71	3.76	3.85	3.92	4.03	4.15	4.30	4.47	4.63	4.82	4.98	5.10	5.21	2.8%
West Coast	0.25	0.18	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.20	0.20	1.1%
Lower 48 Offshore																							
Gulf	5.48	5.41	5.40	5.55	5.80	5.94	5.98	5.89	5.75	5.64	5.52	5.57	5.67	5.86	6.12	6.43	6.65	6.64	6.57	6.47	6.38	6.35	0.7%
Pacific	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wellhead Prices (1998 dollars per thousand cubic feet)																							
Lower 48 Average	1.96	2.17	2.17	2.17	2.20	2.26	2.34	2.43	2.51	2.56	2.58	2.60	2.63	2.65	2.67	2.69	2.71	2.73	2.75	2.76	2.78	2.81	1.7%
Lower 48 Onshore																							
Northeast	2.23	2.24	2.21	2.22	2.27	2.37	2.51	2.66	2.77	2.83	2.83	2.81	2.75	2.70	2.68	2.70	2.86	3.00	3.08	3.12	3.12	3.13	1.5%
Gulf Coast	1.84	2.23	2.30	2.31	2.31	2.29	2.29	2.32	2.38	2.45	2.50	2.55	2.63	2.71	2.77	2.81	2.82	2.82	2.83	2.84	2.88	2.95	2.2%
Midcontinent	2.00	2.28	2.29	2.29	2.29	2.32	2.35	2.41	2.47	2.53	2.55	2.58	2.63	2.68	2.73	2.76	2.76	2.75	2.74	2.74	2.75	2.76	1.5%
Southwest	1.88	2.19	2.20	2.20	2.20	2.20	2.24	2.30	2.38	2.46	2.50	2.55	2.62	2.69	2.75	2.78	2.78	2.76	2.76	2.77	2.81	2.88	1.9%
Rocky Mountain	1.70	1.87	1.90	1.95	2.05	2.16	2.28	2.38	2.49	2.56	2.58	2.59	2.58	2.55	2.51	2.46	2.42	2.38	2.36	2.35	2.36	2.39	1.6%
West Coast	1.91	2.21	2.21	2.26	2.43	2.57	2.65	2.68	2.71	2.75	2.78	2.83	2.87	2.88	2.89	2.88	2.85	2.80	2.74	2.69	2.68	2.68	1.5%
Lower 48 Offshore																							
Gulf	2.17	2.22	2.15	2.14	2.17	2.27	2.41	2.56	2.66	2.69	2.68	2.66	2.63	2.61	2.60	2.64	2.72	2.82	2.88	2.92	2.93	2.94	1.4%
Pacific	2.40	1.80	1.60	1.61	1.81	2.03	2.27	2.53	2.78	2.95	2.99	2.99	2.97	2.92	2.89	2.85	2.83	2.81	2.78	2.75	2.73	2.72	0.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

1/ Marketed production (wet) minus extraction losses.

N/A = Not applicable.

Notes: Supply regions are defined in "Documentation of the Oil and Gas Supply Module", Energy Information Administration (EIA), DOE/EIA-MO63(99) (Washington, DC, January 1999). Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998: Energy Information Administration (EIA), Office of Integrated Analysis and Forecasting, and Natural Gas Monthly, DOE/EIA-0130(99/6) (Washington, DC, June 1999). Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 82. Oil and Gas, End-of-Year Reserves and Annual Reserve Additions (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Lower 48 Reserves</b>																							
<b>Crude Oil (billion barrels)1/</b>																							
Lower 48 Total	18.05	16.23	15.56	15.07	14.69	14.39	14.15	13.92	13.72	13.57	13.45	13.38	13.32	13.31	13.31	13.32	13.32	13.35	13.37	13.36	13.33	13.21	-1.4%
Lower 48 Onshore	13.87	12.47	11.92	11.51	11.21	10.98	10.79	10.61	10.45	10.33	10.26	10.21	10.19	10.21	10.23	10.26	10.30	10.34	10.37	10.39	10.38	10.31	-1.3%
Conventional	11.04	9.94	9.49	9.14	8.88	8.66	8.48	8.30	8.13	8.00	7.89	7.81	7.76	7.72	7.68	7.65	7.63	7.61	7.59	7.56	7.53	7.49	-1.7%
Enhanced Oil Recovery	2.83	2.53	2.43	2.37	2.34	2.32	2.31	2.31	2.32	2.33	2.37	2.40	2.43	2.49	2.55	2.61	2.66	2.73	2.78	2.83	2.85	2.82	0.0%
Lower 48 Offshore	4.18	3.76	3.64	3.55	3.47	3.41	3.36	3.31	3.27	3.23	3.20	3.17	3.13	3.11	3.08	3.05	3.02	3.01	2.99	2.97	2.94	2.91	-1.6%
<b>Dry Natural Gas (trillion cubic feet)</b>																							
Lower 48 Total	155.0	152.2	152.5	152.1	152.7	153.9	155.8	158.5	161.9	165.4	169.2	173.4	177.8	182.1	186.1	189.2	191.6	194.0	195.1	194.9	193.5	191.4	1.0%
Lower 48 Onshore	121.7	118.3	118.4	118.4	119.2	120.9	123.2	125.9	129.0	132.1	135.4	139.0	142.8	146.6	150.5	153.7	156.3	159.0	160.3	160.3	159.1	157.2	1.2%
Associated-Dissolved 2/	13.1	12.4	12.8	12.2	11.7	11.4	11.3	11.1	11.0	10.8	10.6	10.5	10.5	10.5	10.5	10.5	10.5	10.6	10.6	10.6	10.6	10.5	-1.0%
Non-Associated	108.6	105.8	105.6	106.2	107.5	109.5	111.9	114.7	118.0	121.3	124.7	128.5	132.3	136.2	140.0	143.2	145.8	148.4	149.8	149.7	148.6	146.6	1.4%
Conventional	58.2	57.1	57.5	58.7	60.5	62.7	65.0	67.3	69.2	70.9	72.3	73.3	74.2	75.1	75.9	76.7	77.1	77.1	76.8	75.9	74.5	72.5	1.0%
Unconventional	50.4	48.7	48.1	47.5	47.0	46.8	46.9	47.5	48.8	50.4	52.5	55.2	58.1	61.0	64.0	66.5	68.7	71.3	73.0	73.8	74.1	74.2	1.8%
Lower 48 Offshore	33.3	33.9	34.1	33.8	33.4	33.0	32.7	32.6	32.8	33.2	33.8	34.4	35.0	35.5	35.7	35.6	35.3	35.0	34.8	34.6	34.4	34.2	0.1%
Associated-Dissolved 2/	8.4	8.8	9.0	8.7	8.6	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.6	8.6	8.6	0.1%
Non-Associated	24.9	25.1	25.2	25.1	24.8	24.5	24.2	24.2	24.4	24.9	25.4	26.1	26.6	27.1	27.3	27.1	26.8	26.5	26.3	26.0	25.8	25.6	0.1%
<b>Lower 48 Reserve Additions</b>																							
<b>Crude Oil (billion barrels)1/</b>																							
Lower 48 Total	1.18	1.03	1.06	1.18	1.26	1.32	1.36	1.37	1.40	1.43	1.48	1.52	1.55	1.61	1.63	1.66	1.68	1.71	1.72	1.71	1.70	1.62	1.4%
Lower 48 Onshore	0.82	0.64	0.63	0.74	0.82	0.87	0.91	0.92	0.94	0.97	1.02	1.05	1.08	1.13	1.15	1.18	1.20	1.21	1.22	1.21	1.19	1.12	1.4%
Conventional	0.70	0.50	0.50	0.57	0.63	0.67	0.70	0.70	0.71	0.74	0.76	0.80	0.82	0.84	0.86	0.87	0.89	0.90	0.90	0.90	0.90	0.90	1.1%
Enhanced Oil Recovery	0.12	0.14	0.13	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.25	0.25	0.26	0.29	0.29	0.30	0.30	0.31	0.32	0.31	0.29	0.22	2.9%
Lower 48 Offshore	0.36	0.39	0.43	0.45	0.44	0.45	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.50	0.50	0.50	0.51	0.50	1.4%
<b>Dry Natural Gas (trillion cubic feet)</b>																							
Lower 48 Total	16.8	16.5	18.4	17.7	18.9	20.0	21.1	22.5	23.8	24.4	25.1	26.2	26.8	27.1	27.4	27.0	26.9	27.2	26.2	25.2	24.3	23.7	1.6%
Lower 48 Onshore	10.9	10.8	12.7	12.5	13.5	14.4	15.4	16.6	17.8	18.4	19.0	20.0	20.5	20.8	21.0	20.6	20.5	20.8	19.9	18.9	18.1	17.5	2.2%
Associated-Dissolved 2/	0.0	0.6	1.8	0.8	1.0	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	N/A
Non-Associated	11.1	10.3	10.9	11.6	12.5	13.3	14.3	15.4	16.6	17.3	17.9	18.9	19.3	19.5	19.7	19.3	19.2	19.5	18.6	17.6	16.8	16.3	1.7%
Conventional	6.6	6.4	6.8	7.4	8.1	8.7	9.2	9.7	10.1	10.5	10.7	10.8	10.9	10.9	10.8	10.7	10.5	10.2	9.9	9.6	9.2	8.8	1.3%
Unconventional	4.6	3.9	4.1	4.2	4.4	4.7	5.1	5.7	6.5	6.8	7.2	8.0	8.4	8.6	9.0	8.7	8.7	9.3	8.7	8.1	7.7	7.5	2.3%
Lower 48 Offshore	5.9	5.7	5.6	5.2	5.5	5.6	5.7	5.9	6.0	6.1	6.1	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.3	6.3	6.2	6.2	0.3%
Associated-Dissolved 2/	1.3	1.2	1.1	0.6	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	-1.5%
Non-Associated	4.6	4.5	4.5	4.6	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.3	0.7%

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).

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: 1998: Energy Information Administration (EIA), Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 83. Natural Gas Imports and Exports (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Volumes (trillion cubic feet)																							
Total Net Imports	3.13	3.65	3.85	4.00	4.10	4.14	4.19	4.24	4.32	4.38	4.45	4.52	4.57	4.64	4.70	4.77	4.85	4.94	5.01	5.06	5.10	5.14	2.3%
Pipeline																							
Imports from Canada	3.20	3.59	3.77	3.90	3.97	4.00	4.03	4.07	4.15	4.22	4.30	4.37	4.44	4.52	4.59	4.67	4.77	4.86	4.93	4.98	5.02	5.06	2.1%
Exports to Canada	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5%
Imports from Mexico	0.01	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	4.2%
Exports to Mexico	0.05	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.23	0.23	0.23	0.23	0.24	6.9%
Liquefied Natural Gas																							
Imports	0.09	0.20	0.23	0.27	0.30	0.33	0.36	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	7.2%
Exports	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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.1%
Border Prices (1998 dollars per thousand cubic feet)																							
Average Import Price	1.96	2.05	2.14	2.28	2.40	2.50	2.59	2.63	2.65	2.65	2.65	2.64	2.64	2.64	2.64	2.65	2.67	2.69	2.73	2.78	2.84	2.92	1.8%
Pipeline Import Prices																							
From Canada	1.95	2.03	2.12	2.26	2.39	2.50	2.60	2.64	2.65	2.65	2.64	2.64	2.63	2.63	2.64	2.64	2.66	2.69	2.72	2.77	2.84	2.92	1.9%
From Mexico	2.02	2.24	2.27	2.28	2.28	2.28	2.30	2.34	2.41	2.48	2.52	2.57	2.64	2.71	2.76	2.81	2.82	2.81	2.82	2.83	2.87	2.93	1.7%
LNG Price (incl. regasification)	2.51	2.57	2.51	2.49	2.48	2.50	2.53	2.57	2.62	2.65	2.66	2.67	2.69	2.71	2.72	2.74	2.77	2.79	2.81	2.83	2.85	2.90	0.6%

N/A = Not applicable.

LNG = Liquefied natural gas.

Incl. = Includes.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 import and export volumes; pipeline import price from Canada; and LNG price: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(99/6) (Washington, D.C., June 1999). Other 1998: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 84. Natural Gas Consumption by End-Use Sector and Census Division (1 of 2)  
(Trillion Cubic Feet per Year)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Residential</b>																								
New England	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	1.2%
Middle Atlantic	0.78	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.87	0.87	0.87	0.87	0.87	0.5%
East North Central	1.38	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.50	1.50	1.50	1.51	1.51	1.52	1.52	1.53	1.53	1.54	1.54	0.5%
West North Central	0.43	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.8%
South Atlantic	0.36	0.40	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.52	0.53	0.54	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.61	2.4%
East South Central	0.19	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	1.6%
West South Central	0.36	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.48	0.48	0.49	1.3%
Mountain	0.26	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.37	0.37	1.6%
Pacific	0.55	0.58	0.59	0.60	0.61	0.63	0.64	0.66	0.67	0.69	0.71	0.73	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.79	0.80	0.81	0.81	1.8%
Total	4.48	4.90	4.92	4.96	5.00	5.05	5.07	5.11	5.16	5.22	5.25	5.30	5.34	5.39	5.41	5.45	5.49	5.54	5.56	5.60	5.64	5.69	5.69	1.1%
<b>Commercial</b>																								
New England	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.7%
Middle Atlantic	0.54	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.5%
East North Central	0.76	0.79	0.80	0.80	0.80	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.6%
West North Central	0.33	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.7%
South Atlantic	0.31	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43	0.43	0.43	1.5%
East South Central	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1.0%
West South Central	0.27	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	1.3%
Mountain	0.20	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	1.5%
Pacific	0.32	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.7%
Total	3.03	3.20	3.24	3.27	3.29	3.31	3.34	3.36	3.39	3.41	3.45	3.48	3.51	3.54	3.57	3.59	3.61	3.63	3.64	3.65	3.65	3.65	3.65	0.9%
<b>Industrial 1/</b>																								
New England	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.9%
Middle Atlantic	0.61	0.62	0.62	0.63	0.64	0.66	0.67	0.68	0.68	0.69	0.69	0.69	0.70	0.70	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.74	0.74	0.9%
East North Central	1.36	1.40	1.40	1.43	1.47	1.51	1.54	1.57	1.58	1.60	1.61	1.62	1.63	1.64	1.66	1.68	1.70	1.71	1.72	1.74	1.75	1.77	1.77	1.2%
West North Central	0.41	0.43	0.43	0.44	0.45	0.46	0.47	0.48	0.48	0.49	0.49	0.50	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.54	1.2%
South Atlantic	0.67	0.67	0.67	0.68	0.70	0.71	0.73	0.74	0.75	0.75	0.76	0.76	0.76	0.77	0.78	0.79	0.80	0.80	0.81	0.82	0.82	0.83	0.83	1.0%
East South Central	0.48	0.46	0.47	0.47	0.49	0.50	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.57	0.8%
West South Central	3.39	3.22	3.23	3.28	3.37	3.44	3.50	3.56	3.59	3.62	3.63	3.66	3.67	3.70	3.73	3.77	3.80	3.82	3.85	3.88	3.91	3.94	3.94	0.7%
Mountain	0.29	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	1.0%
Pacific	0.90	0.89	0.88	0.89	0.91	0.93	0.94	0.96	0.97	0.98	0.98	0.99	1.00	1.01	1.02	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.10	0.9%
Total	8.23	8.10	8.12	8.24	8.46	8.63	8.81	8.96	9.03	9.10	9.15	9.22	9.26	9.34	9.43	9.54	9.64	9.69	9.76	9.83	9.91	9.99	9.99	0.9%

**Table 84. Natural Gas Consumption by End-Use Sector and Census Division (2 of 2)  
(Trillion Cubic Feet per Year)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electric Generators 2/</b>																								
New England	0.19	0.15	0.15	0.17	0.16	0.18	0.22	0.27	0.31	0.34	0.36	0.40	0.42	0.46	0.49	0.50	0.51	0.51	0.51	0.51	0.51	0.51	0.51	4.5%
Middle Atlantic	0.29	0.17	0.18	0.21	0.23	0.25	0.31	0.36	0.45	0.50	0.54	0.67	0.74	0.78	0.84	0.93	1.05	1.11	1.16	1.18	1.18	1.18	1.19	6.6%
East North Central	0.14	0.28	0.22	0.23	0.23	0.17	0.25	0.26	0.35	0.43	0.49	0.56	0.62	0.66	0.71	0.77	0.90	0.94	1.06	1.17	1.21	1.25	10.4%	
West North Central	0.08	0.06	0.04	0.03	0.02	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.18	0.24	0.25	0.26	0.26	0.26	0.27	5.9%	
South Atlantic	0.40	0.46	0.39	0.38	0.40	0.42	0.48	0.53	0.57	0.60	0.60	0.65	0.68	0.73	0.78	0.83	0.86	0.89	0.93	0.95	0.97	0.98	4.2%	
East South Central	0.11	0.06	0.06	0.06	0.07	0.13	0.19	0.26	0.32	0.40	0.45	0.53	0.60	0.64	0.68	0.75	0.81	0.85	0.88	0.92	0.94	0.94	10.0%	
West South Central	1.85	1.84	1.75	1.74	1.84	1.86	1.91	1.97	2.06	2.14	2.14	2.20	2.24	2.28	2.32	2.38	2.48	2.50	2.52	2.54	2.58	2.59	1.5%	
Mountain	0.17	0.31	0.31	0.30	0.28	0.25	0.25	0.24	0.26	0.25	0.24	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.21	0.21	1.0%	
Pacific	0.43	0.80	0.79	0.80	0.86	0.86	0.87	0.92	0.96	1.01	1.05	1.11	1.15	1.20	1.24	1.27	1.30	1.31	1.33	1.31	1.31	1.32	5.2%	
<b>Total</b>	<b>3.67</b>	<b>4.12</b>	<b>3.88</b>	<b>3.91</b>	<b>4.10</b>	<b>4.17</b>	<b>4.53</b>	<b>4.86</b>	<b>5.36</b>	<b>5.73</b>	<b>5.95</b>	<b>6.45</b>	<b>6.81</b>	<b>7.11</b>	<b>7.44</b>	<b>7.85</b>	<b>8.37</b>	<b>8.58</b>	<b>8.85</b>	<b>9.06</b>	<b>9.17</b>	<b>9.26</b>	<b>4.3%</b>	
<b>Transportation 3/</b>																								
New England	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	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	12.9%
Middle Atlantic	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	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	12.2%
East North Central	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	12.5%
West North Central	0.00	0.00	0.01	0.01	0.01	0.01	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	0.02	0.02	0.02	0.02	12.9%
South Atlantic	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	13.4%
East South Central	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	13.1%
West South Central	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	13.3%
Mountain	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	14.5%
Pacific	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	12.9%
<b>Total</b>	<b>0.02</b>	<b>0.05</b>	<b>0.07</b>	<b>0.10</b>	<b>0.12</b>	<b>0.14</b>	<b>0.15</b>	<b>0.17</b>	<b>0.18</b>	<b>0.20</b>	<b>0.21</b>	<b>0.22</b>	<b>0.24</b>	<b>0.25</b>	<b>0.26</b>	<b>0.27</b>	<b>0.28</b>	<b>0.29</b>	<b>0.30</b>	<b>0.31</b>	<b>0.31</b>	<b>0.32</b>	<b>13.0%</b>	
<b>All Sectors 4/</b>																								
New England	0.65	0.63	0.64	0.66	0.66	0.69	0.73	0.79	0.83	0.87	0.89	0.94	0.96	1.00	1.03	1.05	1.07	1.08	1.08	1.08	1.09	1.09	1.09	2.4%
Middle Atlantic	2.21	2.21	2.22	2.27	2.31	2.36	2.43	2.50	2.59	2.65	2.70	2.84	2.91	2.97	3.03	3.14	3.26	3.33	3.38	3.41	3.41	3.43	2.0%	
East North Central	3.64	3.97	3.92	3.96	4.02	4.00	4.11	4.16	4.27	4.38	4.45	4.55	4.63	4.70	4.77	4.86	5.01	5.08	5.21	5.34	5.40	5.46	1.9%	
West North Central	1.25	1.31	1.29	1.30	1.31	1.34	1.36	1.39	1.40	1.43	1.45	1.47	1.51	1.53	1.56	1.59	1.66	1.68	1.69	1.71	1.71	1.72	1.5%	
South Atlantic	1.75	1.86	1.81	1.84	1.90	1.96	2.05	2.13	2.20	2.25	2.28	2.36	2.41	2.48	2.56	2.64	2.69	2.74	2.80	2.84	2.88	2.92	2.4%	
East South Central	0.92	0.89	0.90	0.91	0.94	1.02	1.09	1.17	1.25	1.34	1.40	1.49	1.56	1.61	1.66	1.74	1.81	1.85	1.89	1.94	1.97	1.98	3.5%	
West South Central	5.87	5.79	5.73	5.76	5.96	6.06	6.19	6.31	6.43	6.54	6.56	6.66	6.72	6.79	6.88	6.99	7.13	7.17	7.22	7.27	7.35	7.40	1.1%	
Mountain	0.91	1.10	1.11	1.12	1.12	1.10	1.12	1.12	1.15	1.15	1.15	1.15	1.16	1.18	1.19	1.20	1.20	1.21	1.21	1.22	1.22	1.24	1.4%	
Pacific	2.21	2.60	2.60	2.64	2.74	2.77	2.81	2.90	2.97	3.05	3.12	3.21	3.27	3.35	3.41	3.47	3.53	3.56	3.60	3.61	3.63	3.65	2.3%	
<b>Total</b>	<b>19.42</b>	<b>20.36</b>	<b>20.23</b>	<b>20.47</b>	<b>20.95</b>	<b>21.29</b>	<b>21.89</b>	<b>22.46</b>	<b>23.11</b>	<b>23.65</b>	<b>24.00</b>	<b>24.66</b>	<b>25.14</b>	<b>25.60</b>	<b>26.09</b>	<b>26.67</b>	<b>27.35</b>	<b>27.70</b>	<b>28.08</b>	<b>28.41</b>	<b>28.66</b>	<b>28.87</b>	<b>1.8%</b>	

1/ Excludes lease and plant fuel, and includes consumption by cogenerators.

2/ Includes all electric power generators except cogenerators, which produce electricity and another form of thermal energy.

3/ Compressed natural gas used as a vehicle fuel.

4/ Excludes lease and plant fuel and natural gas used for pipeline compressor station fuel.

Btu = British thermal unit.

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 electric utility fuel consumption: EIA, Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997."

Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online <http://www.eia.doe.gov/emeu/pub/forecasting/steo/oldsteo/sep99.pdf> (October 12, 1999). Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 85. Natural Gas Delivered Prices by End-Use Sector and Census Division (1 of 2)  
(1998 Dollars per Thousand Cubic Feet)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
<b>Residential</b>																							
New England	9.47	9.46	9.37	9.31	9.24	9.23	9.23	9.21	9.18	9.11	9.03	8.96	8.88	8.81	8.75	8.68	8.62	8.56	8.52	8.47	8.45	8.44	-0.5%
Middle Atlantic	8.47	8.45	8.36	8.32	8.29	8.29	8.30	8.30	8.30	8.26	8.21	8.16	8.11	8.06	8.02	7.99	7.96	7.94	7.91	7.89	7.87	7.86	-0.3%
East North Central	5.76	5.95	5.92	5.90	5.89	5.90	5.94	5.96	5.98	5.97	5.95	5.92	5.91	5.90	5.89	5.87	5.86	5.84	5.84	5.83	5.83	5.85	0.1%
West North Central	5.91	6.05	6.05	6.03	6.04	6.06	6.08	6.10	6.10	6.07	6.04	6.01	6.00	5.98	5.96	5.93	5.90	5.88	5.87	5.86	5.87	5.90	0.0%
South Atlantic	8.09	8.09	7.95	7.83	7.73	7.66	7.63	7.60	7.58	7.53	7.46	7.39	7.34	7.28	7.24	7.19	7.16	7.11	7.08	7.04	7.00	6.98	-0.7%
East South Central	6.69	6.79	6.72	6.65	6.60	6.58	6.60	6.62	6.65	6.64	6.61	6.58	6.57	6.56	6.55	6.55	6.54	6.53	6.53	6.52	6.51	6.51	-0.1%
West South Central	6.39	6.44	6.39	6.33	6.28	6.27	6.29	6.32	6.35	6.35	6.33	6.31	6.31	6.30	6.29	6.29	6.28	6.27	6.27	6.26	6.25	6.26	-0.1%
Mountain	5.80	5.70	5.65	5.63	5.77	5.88	5.94	6.02	6.10	6.14	6.15	6.15	6.15	6.12	6.10	6.06	6.06	6.06	6.07	6.08	6.08	6.09	0.2%
Pacific	6.77	6.92	6.93	6.94	6.96	6.97	6.98	6.99	6.98	6.96	6.93	6.89	6.85	6.80	6.74	6.67	6.60	6.53	6.48	6.44	6.41	6.42	-0.2%
Average	6.79	6.88	6.83	6.80	6.79	6.79	6.81	6.83	6.84	6.83	6.79	6.76	6.73	6.70	6.68	6.64	6.62	6.59	6.57	6.55	6.54	6.55	-0.2%
<b>Commercial</b>																							
New England	7.08	7.29	7.22	7.19	7.17	7.19	7.22	7.25	7.25	7.22	7.17	7.14	7.09	7.05	7.01	6.97	6.95	6.92	6.90	6.89	6.89	6.91	-0.1%
Middle Atlantic	5.25	5.45	5.40	5.40	5.41	5.45	5.50	5.54	5.57	5.58	5.56	5.54	5.52	5.51	5.49	5.49	5.50	5.50	5.51	5.51	5.52	5.55	0.3%
East North Central	5.26	5.53	5.49	5.47	5.46	5.48	5.51	5.53	5.56	5.56	5.54	5.52	5.51	5.50	5.49	5.48	5.48	5.47	5.47	5.46	5.48	5.50	0.2%
West North Central	4.84	5.10	5.11	5.10	5.12	5.15	5.18	5.21	5.22	5.22	5.20	5.18	5.17	5.17	5.15	5.14	5.12	5.11	5.11	5.12	5.14	5.17	0.3%
South Atlantic	6.46	6.64	6.53	6.46	6.40	6.38	6.39	6.41	6.44	6.44	6.40	6.37	6.35	6.34	6.32	6.31	6.30	6.29	6.28	6.26	6.25	6.26	-0.1%
East South Central	5.74	5.97	5.91	5.86	5.82	5.82	5.84	5.89	5.93	5.95	5.93	5.92	5.93	5.93	5.94	5.95	5.96	5.96	5.97	5.97	5.97	5.99	0.2%
West South Central	4.76	4.98	4.94	4.89	4.86	4.86	4.89	4.95	4.99	5.02	5.02	5.01	5.03	5.04	5.05	5.07	5.08	5.09	5.11	5.11	5.13	5.15	0.4%
Mountain	4.70	4.77	4.74	4.75	4.90	5.02	5.09	5.19	5.28	5.35	5.38	5.39	5.40	5.39	5.38	5.35	5.35	5.36	5.38	5.39	5.40	5.42	0.6%
Pacific	5.72	5.96	5.99	6.03	6.08	6.11	6.14	6.17	6.20	6.20	6.20	6.18	6.15	6.12	6.08	6.02	5.97	5.92	5.89	5.85	5.84	5.85	0.1%
Average	5.42	5.63	5.60	5.58	5.58	5.61	5.64	5.68	5.71	5.72	5.71	5.69	5.68	5.67	5.66	5.65	5.64	5.63	5.63	5.63	5.63	5.66	0.2%
<b>Industrial 1/</b>																							
New England	3.60	3.82	3.80	3.84	3.88	3.96	4.04	4.11	4.15	4.16	4.15	4.14	4.12	4.11	4.10	4.09	4.10	4.10	4.10	4.12	4.14	4.18	0.7%
Middle Atlantic	3.71	3.88	3.86	3.90	3.96	4.03	4.12	4.18	4.23	4.25	4.25	4.25	4.25	4.25	4.25	4.26	4.28	4.30	4.32	4.34	4.36	4.40	0.8%
East North Central	3.10	3.35	3.36	3.38	3.42	3.47	3.55	3.60	3.65	3.67	3.67	3.68	3.69	3.70	3.71	3.72	3.74	3.75	3.76	3.78	3.81	3.85	1.0%
West North Central	2.96	3.18	3.22	3.26	3.32	3.39	3.46	3.50	3.54	3.55	3.55	3.55	3.55	3.56	3.56	3.56	3.56	3.57	3.57	3.59	3.63	3.67	1.0%
South Atlantic	2.80	3.02	2.97	2.98	2.99	3.03	3.10	3.18	3.25	3.29	3.30	3.32	3.33	3.35	3.37	3.40	3.43	3.45	3.48	3.49	3.51	3.54	1.1%
East South Central	2.52	2.75	2.73	2.73	2.74	2.79	2.86	2.94	3.02	3.07	3.09	3.11	3.13	3.17	3.20	3.23	3.27	3.30	3.33	3.35	3.37	3.41	1.4%
West South Central	2.41	2.64	2.63	2.63	2.64	2.69	2.76	2.84	2.91	2.97	2.99	3.01	3.04	3.08	3.11	3.15	3.18	3.21	3.25	3.27	3.30	3.34	1.5%
Mountain	2.43	2.47	2.48	2.54	2.76	2.93	3.04	3.16	3.29	3.38	3.43	3.47	3.51	3.51	3.52	3.52	3.55	3.59	3.64	3.68	3.71	3.74	2.0%
Pacific	2.66	2.91	2.99	3.09	3.21	3.30	3.39	3.46	3.53	3.57	3.59	3.61	3.61	3.61	3.60	3.58	3.56	3.55	3.54	3.53	3.55	3.59	1.4%
Average	2.73	2.97	2.97	2.99	3.03	3.09	3.17	3.24	3.31	3.35	3.36	3.38	3.40	3.42	3.44	3.45	3.48	3.50	3.52	3.53	3.56	3.60	1.3%

**Table 85. Natural Gas Delivered Prices by End-Use Sector and Census Division (2 of 2)  
(1998 Dollars per Thousand Cubic Feet)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
<b>Electric Generators 2/</b>																								
New England	2.85	3.20	3.21	3.28	3.31	3.39	3.47	3.53	3.56	3.57	3.56	3.56	3.54	3.55	3.54	3.53	3.54	3.54	3.55	3.57	3.59	3.64	1.1%	
Middle Atlantic	2.70	2.93	2.88	2.93	3.01	3.11	3.12	3.22	3.27	3.30	3.33	3.31	3.33	3.34	3.35	3.38	3.42	3.46	3.49	3.51	3.54	3.58	1.3%	
East North Central	1.79	2.19	2.20	2.21	2.26	2.34	2.40	2.47	2.51	2.52	2.65	2.72	2.74	2.78	2.81	2.82	2.83	2.86	2.87	2.90	2.95	3.00	2.4%	
West North Central	2.21	2.52	2.51	2.54	2.61	2.79	2.91	3.01	3.05	3.12	3.16	3.19	3.22	3.25	3.24	3.24	3.22	3.24	3.24	3.26	3.30	3.35	1.9%	
South Atlantic	2.49	2.70	2.58	2.61	2.57	2.58	2.65	2.74	2.79	2.87	2.89	2.92	2.98	3.04	3.10	3.17	3.22	3.25	3.30	3.33	3.34	3.38	1.4%	
East South Central	2.64	2.92	2.80	2.80	2.78	3.00	3.15	3.27	3.39	3.48	3.51	3.56	3.58	3.61	3.64	3.68	3.72	3.75	3.77	3.80	3.82	3.86	1.7%	
West South Central	2.28	2.53	2.50	2.50	2.48	2.52	2.59	2.67	2.75	2.81	2.85	2.87	2.91	2.94	2.98	3.02	3.06	3.10	3.13	3.16	3.19	3.24	1.6%	
Mountain	2.26	2.55	2.58	2.68	2.90	3.12	3.31	3.43	3.54	3.67	3.73	3.77	3.81	3.82	3.81	3.79	3.78	3.77	3.73	3.69	3.66	3.66	2.2%	
Pacific	2.63	2.92	2.96	3.02	3.10	3.16	3.21	3.28	3.34	3.39	3.42	3.45	3.47	3.48	3.48	3.47	3.46	3.46	3.46	3.46	3.48	3.53	1.4%	
Average	2.40	2.65	2.64	2.67	2.70	2.78	2.85	2.95	3.02	3.07	3.11	3.14	3.17	3.20	3.23	3.25	3.28	3.30	3.32	3.34	3.36	3.41	1.6%	
<b>Transportation 3/</b>																								
New England	8.08	8.48	8.38	8.38	8.39	8.49	8.61	8.74	8.86	8.93	8.96	9.00	9.00	9.01	9.01	8.99	8.98	8.96	8.94	8.92	8.91	8.91	0.4%	
Middle Atlantic	7.01	7.46	7.32	7.30	7.35	7.46	7.61	7.78	7.96	8.09	8.18	8.28	8.35	8.41	8.45	8.47	8.52	8.52	8.53	8.53	8.53	8.55	0.9%	
East North Central	7.19	7.61	7.54	7.52	7.55	7.62	7.74	7.86	7.98	8.06	8.11	8.16	8.20	8.24	8.26	8.27	8.28	8.27	8.27	8.26	8.26	8.27	0.6%	
West North Central	5.18	5.72	5.68	5.67	5.75	5.88	6.05	6.24	6.43	6.57	6.69	6.79	6.88	6.95	7.00	7.03	7.05	7.06	7.06	7.07	7.09	7.13	1.5%	
South Atlantic	5.75	6.24	6.11	6.08	6.10	6.19	6.34	6.53	6.73	6.89	6.99	7.09	7.18	7.26	7.32	7.37	7.42	7.44	7.46	7.46	7.46	7.48	1.2%	
East South Central	6.29	6.67	6.60	6.57	6.59	6.66	6.78	6.93	7.08	7.20	7.27	7.34	7.40	7.47	7.52	7.57	7.61	7.63	7.66	7.67	7.68	7.71	0.9%	
West South Central	4.41	5.00	4.90	4.85	4.89	5.01	5.20	5.45	5.72	5.93	6.09	6.23	6.36	6.48	6.57	6.65	6.71	6.75	6.78	6.80	6.82	6.86	2.0%	
Mountain	4.95	5.45	5.43	5.48	5.67	5.86	6.05	6.27	6.52	6.72	6.87	7.00	7.10	7.16	7.21	7.23	7.26	7.28	7.30	7.31	7.32	7.33	1.8%	
Pacific	5.25	5.84	5.86	5.93	6.08	6.24	6.44	6.65	6.87	7.05	7.18	7.29	7.38	7.44	7.47	7.48	7.47	7.46	7.45	7.44	7.45	7.48	1.6%	
Average	6.00	6.49	6.41	6.41	6.47	6.58	6.73	6.91	7.10	7.24	7.34	7.43	7.51	7.57	7.61	7.64	7.66	7.67	7.68	7.68	7.68	7.70	1.1%	
<b>All Sectors 4/</b>																								
New England	5.75	6.24	6.19	6.12	6.14	6.10	6.02	5.90	5.80	5.72	5.66	5.55	5.48	5.41	5.34	5.31	5.28	5.28	5.27	5.28	5.29	5.33	-0.3%	
Middle Atlantic	5.62	5.96	5.90	5.86	5.84	5.84	5.81	5.79	5.74	5.70	5.64	5.53	5.46	5.42	5.37	5.31	5.26	5.23	5.22	5.21	5.23	5.25	-0.3%	
East North Central	4.50	4.69	4.71	4.69	4.69	4.75	4.75	4.78	4.76	4.73	4.70	4.67	4.64	4.63	4.62	4.59	4.55	4.54	4.51	4.48	4.50	4.52	0.0%	
West North Central	4.42	4.70	4.75	4.77	4.79	4.81	4.83	4.84	4.85	4.83	4.81	4.78	4.76	4.75	4.72	4.68	4.62	4.61	4.60	4.60	4.63	4.66	0.2%	
South Atlantic	4.49	4.69	4.70	4.69	4.63	4.63	4.62	4.64	4.66	4.69	4.70	4.68	4.67	4.67	4.66	4.66	4.67	4.68	4.68	4.68	4.68	4.70	0.2%	
East South Central	3.88	4.30	4.25	4.23	4.20	4.16	4.16	4.18	4.22	4.22	4.22	4.20	4.20	4.21	4.22	4.23	4.25	4.26	4.28	4.28	4.30	4.33	0.5%	
West South Central	2.73	3.02	3.00	2.99	2.98	3.02	3.08	3.15	3.22	3.26	3.29	3.30	3.33	3.37	3.40	3.43	3.46	3.49	3.52	3.54	3.56	3.61	1.3%	
Mountain	3.84	3.80	3.81	3.87	4.08	4.28	4.38	4.50	4.59	4.69	4.75	4.79	4.81	4.81	4.80	4.79	4.80	4.82	4.84	4.85	4.86	4.88	1.1%	
Pacific	4.13	4.20	4.27	4.33	4.39	4.46	4.52	4.56	4.59	4.62	4.62	4.62	4.61	4.59	4.56	4.52	4.49	4.47	4.45	4.44	4.45	4.49	0.4%	
Average	4.03	4.27	4.28	4.28	4.28	4.32	4.35	4.39	4.41	4.43	4.43	4.41	4.41	4.41	4.41	4.40	4.39	4.38	4.38	4.38	4.40	4.43	0.4%	

1/ Excludes lease and plant fuel and includes consumption by cogenerators.

2/ Includes all electric power generators except cogenerators, which produce electricity and another form of thermal energy.

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.

Btu = British thermal unit.

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 residential and commercial sector values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(99/6) (Washington, D.C., June 1999). 1998 industrial natural gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. Other 1998 values and projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 86. Natural Gas Pipeline Capacity By Census Division (1 of 1)  
(Design Capacity in Billions of Cubic Feet per Year)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Capacity Entering Region 1/																							
New England	1023	1293	1341	1422	1472	1497	1497	1497	1497	1497	1497	1502	1512	1522	1532	1542	1557	1578	1601	1626	1653	1682	2.3%
Mid Atlantic	4520	4634	4800	4869	4919	4969	4994	4994	4994	4994	4994	4994	4994	4994	4994	4994	5011	5032	5045	5060	5076	5092	0.5%
East North Central	7989	8408	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8732	8796	8919	9031	0.6%
West North Central	6006	6190	6281	6381	6481	6581	6641	6662	6691	6723	6754	6806	6855	6924	7013	7127	7271	7429	7614	7785	7918	8036	1.3%
South Atlantic	5301	5451	5538	5602	5602	5602	5602	5651	5839	5931	6007	6159	6274	6358	6442	6515	6611	6683	6748	6773	6799	6821	1.2%
East South Central	8602	9205	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	9254	0.3%
West South Central	1792	1792	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1852	1858	1867	1876	1887	1897	1905	1911	0.3%
Mountain	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	2469	N/A
Pacific	3829	3843	3843	3846	3862	3871	3873	3960	4028	4111	4211	4316	4390	4492	4580	4673	4750	4816	4880	4919	4957	4995	1.2%
Total	41531	43283	44103	44421	44638	44821	44908	45065	45349	45557	45764	46078	46327	46591	46867	47164	47521	47867	48229	48579	48950	49290	0.8%
United States(Pipeline Imports)	4503	5023	5241	5461	5661	5836	5921	5942	5963	5986	6009	6044	6089	6136	6183	6232	6286	6348	6412	6480	6550	6624	1.8%
Capacity Exiting Region 2/																							
New England	95	119	157	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	2.7%
Mid Atlantic	1929	2026	2039	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	2054	0.3%
East North Central	3053	3251	3606	3606	3606	3606	3606	3606	3606	3606	3606	3606	3606	3606	3606	3606	3623	3644	3657	3672	3688	3704	0.9%
West North Central	4395	4814	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5138	5203	5325	5437	1.0%
South Atlantic	3345	3412	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	3504	0.2%
East South Central	7234	7295	7376	7441	7441	7441	7441	7490	7678	7770	7846	7998	8113	8197	8280	8353	8449	8521	8586	8611	8638	8659	0.8%
West South Central	13641	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	14338	0.2%
Mountain	4488	4533	4618	4621	4638	4646	4648	4736	4811	4904	5011	5139	5227	5361	5506	5682	5871	6063	6281	6460	6595	6713	1.8%
Pacific	229	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	2.0%
Total	38411	40146	41135	41232	41248	41257	41259	41395	41658	41843	42027	42306	42510	42727	42956	43204	43506	43792	44088	44371	44672	44938	0.7%
United States(Pipeline Exports)	1384	1886	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2272	2.3%

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.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.



**Table 87. Natural Gas Pipeline Capacity Utilization 1/ By Census Division (1 of 1)  
(Fraction)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Utilization Entering Region																								
New England	0.60	0.52	0.53	0.51	0.49	0.49	0.52	0.56	0.59	0.61	0.62	0.66	0.67	0.69	0.71	0.71	0.72	0.71	0.70	0.69	0.69	0.67	0.5%	
Mid Atlantic	0.63	0.64	0.62	0.62	0.61	0.62	0.64	0.66	0.69	0.71	0.72	0.75	0.77	0.78	0.79	0.81	0.83	0.83	0.83	0.82	0.82	0.81	1.2%	
East North Central	0.67	0.69	0.65	0.66	0.67	0.67	0.68	0.69	0.71	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.83	0.82	1.0%	
West North Central	0.62	0.66	0.66	0.67	0.67	0.66	0.67	0.67	0.68	0.67	0.67	0.67	0.66	0.66	0.66	0.65	0.65	0.65	0.64	0.63	0.63	0.62	0.0%	
South Atlantic	0.69	0.66	0.63	0.62	0.63	0.64	0.67	0.69	0.69	0.70	0.69	0.70	0.70	0.71	0.71	0.72	0.72	0.72	0.71	0.71	0.71	0.70	0.1%	
East South Central	0.66	0.60	0.57	0.56	0.57	0.59	0.62	0.64	0.67	0.70	0.71	0.75	0.77	0.79	0.80	0.82	0.84	0.85	0.86	0.87	0.86	0.86	1.2%	
West South Central	0.27	0.33	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.25	0.24	0.23	0.22	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.23	-0.7%	
Mountain	0.16	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	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.3%	
Pacific	0.63	0.67	0.66	0.67	0.69	0.70	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.72	0.72	0.72	0.6%	
Average2/	0.60	0.60	0.59	0.59	0.59	0.60	0.61	0.63	0.64	0.65	0.66	0.68	0.68	0.69	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.7%	
United States(Pipeline Import)	0.82	0.82	0.82	0.81	0.80	0.78	0.77	0.77	0.79	0.79	0.80	0.81	0.82	0.82	0.83	0.84	0.84	0.85	0.85	0.85	0.85	0.84	0.1%	
Utilization Exiting Region																								
New England	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	N/A	
Mid Atlantic	0.37	0.37	0.38	0.38	0.37	0.38	0.40	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.47	0.47	0.47	0.45	0.43	0.42	0.41	0.40	0.3%	
East North Central	0.63	0.61	0.53	0.53	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.60	0.60	0.60	0.60	0.60	0.59	0.58	0.57	0.57	0.57	-0.4%	
West North Central	0.67	0.71	0.68	0.69	0.70	0.70	0.72	0.73	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.79	0.80	0.81	0.82	0.83	0.83	0.84	1.0%	
South Atlantic	0.58	0.56	0.52	0.52	0.53	0.54	0.56	0.58	0.60	0.61	0.62	0.64	0.66	0.67	0.69	0.71	0.72	0.72	0.73	0.73	0.72	0.71	1.0%	
East South Central	0.68	0.66	0.63	0.62	0.63	0.64	0.67	0.69	0.69	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.79	0.79	0.79	0.80	0.79	0.78	0.7%	
West South Central	0.55	0.51	0.48	0.48	0.48	0.49	0.51	0.53	0.55	0.57	0.57	0.60	0.61	0.62	0.62	0.63	0.64	0.64	0.64	0.64	0.63	0.62	0.6%	
Mountain	0.41	0.48	0.48	0.51	0.53	0.53	0.54	0.55	0.56	0.56	0.55	0.56	0.56	0.56	0.56	0.57	0.58	0.58	0.59	0.59	0.60	0.60	1.8%	
Pacific	0.64	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	-1.6%	
Average 2/	0.57	0.56	0.54	0.54	0.55	0.55	0.57	0.59	0.60	0.61	0.62	0.64	0.64	0.65	0.66	0.67	0.67	0.67	0.68	0.67	0.67	0.67	0.7%	
United States(Pipeline Export)	0.41	0.31	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	-1.0%	

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 77.

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 88. Domestic Coal Supply, Disposition, and Prices (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Sources of Supply(million short tons)																							
Distribution From																							
Appalachia 1/	403.3	374.8	379.9	386.1	391.5	396.8	395.6	384.6	375.2	376.1	383.3	371.2	365.5	366.0	365.4	366.2	363.4	358.2	349.3	339.1	337.1	336.3	-0.8%
Interior	167.3	139.5	149.4	148.6	180.6	172.1	168.8	172.7	168.9	154.1	176.0	146.1	145.6	145.9	146.2	146.5	146.9	146.9	148.3	150.3	152.0	154.9	-0.3%
Northern Great Plains	383.6	463.8	454.6	465.7	441.3	464.7	477.6	492.7	499.5	506.1	506.9	511.6	519.1	523.6	529.4	532.8	541.1	546.7	560.6	575.0	584.3	591.4	2.0%
Other West and Non-Contiguous	97.6	95.7	106.9	111.2	114.4	115.9	116.9	117.3	127.7	140.1	114.8	148.9	152.1	151.2	153.5	153.9	160.7	165.3	170.7	174.3	175.0	175.6	2.7%
Total Distribution (excludes exports) 2/	1051.7	1073.7	1090.7	1111.5	1127.8	1149.5	1158.8	1167.3	1171.3	1176.4	1181.0	1177.7	1182.2	1186.8	1194.5	1199.4	1212.1	1217.1	1228.9	1238.7	1248.4	1258.3	0.8%
Imports	8.7	10.2	12.1	12.3	13.4	14.1	15.3	15.6	16.3	16.5	16.7	17.0	17.2	17.5	17.7	18.0	18.2	18.5	18.7	19.0	19.3	19.5	3.7%
Total Supply	1060.5	1083.9	1102.8	1123.8	1141.3	1163.6	1174.2	1182.9	1187.6	1192.9	1197.7	1194.7	1199.5	1204.2	1212.2	1217.4	1230.4	1235.5	1247.6	1257.7	1267.7	1277.8	0.9%
Consumption (million short tons)																							
Residential/Commercial	6.3	6.7	6.7	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0.4%
Industrial	69.0	70.7	70.5	70.7	71.3	72.0	72.7	73.0	73.2	73.2	73.1	73.2	73.1	73.3	73.5	73.8	74.1	74.1	74.3	74.5	74.8	75.1	0.4%
Coke Plants	28.3	27.4	27.0	26.6	26.2	25.9	25.5	25.2	24.7	24.3	23.9	23.5	23.0	22.6	22.2	21.8	21.5	21.1	20.7	20.4	20.0	19.7	-1.6%
Electricity	938.9	981.3	999.0	1020.1	1037.6	1059.7	1070.2	1079.3	1084.6	1089.3	1095.0	1091.7	1097.3	1102.7	1110.8	1116.7	1129.3	1134.7	1147.0	1157.2	1167.0	1177.2	1.0%
Total Consumption	1042.7	1086.1	1103.2	1124.1	1141.9	1164.4	1175.2	1184.3	1189.3	1193.6	1198.8	1195.2	1200.3	1205.5	1213.4	1219.2	1231.7	1236.9	1248.9	1259.0	1268.8	1279.0	0.9%
Discrepancy 3/	17.7	-2.2	-0.3	-0.3	-0.6	-0.7	-1.0	-1.4	-1.6	-0.7	-1.1	-0.5	-0.8	-1.3	-1.2	-1.9	-1.4	-1.3	-1.3	-1.2	-1.1	-1.1	N/A
Delivered Prices (1998 dollars per short ton)																							
Industrial	32.26	30.52	30.03	29.66	29.46	29.05	28.71	28.50	28.23	28.01	27.75	27.44	27.15	26.89	26.65	26.48	26.27	26.02	25.82	25.63	25.41	25.24	-1.1%
Coke Plants	46.06	46.87	46.32	45.88	45.39	44.99	44.57	44.15	43.86	43.52	43.09	42.93	42.67	42.19	42.02	41.83	41.72	41.32	41.03	40.63	40.35	40.19	-0.6%
Electricity	25.64	25.18	24.34	23.87	23.51	23.24	22.96	22.75	22.60	22.46	21.94	22.13	21.95	21.72	21.54	21.34	21.19	20.94	20.71	20.41	20.15	20.01	-1.1%
Average Price 4/	26.65	26.08	25.25	24.76	24.39	24.09	23.79	23.56	23.39	23.23	22.72	22.86	22.67	22.42	22.22	22.02	21.86	21.60	21.35	21.05	20.78	20.63	-1.2%

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 distribution to unknown destinations.

3/ Includes stock changes.

4/ Weighted average excludes residential/commercial prices.

Appalachia: PA, OH, MD, WV, VA, TN, AL, Eastern KY.

Interior: Western KY, IL, IN, IA, MO, KS, OK, AR, TX, LA.

Northern Great Plains: ND, SD, MT, WY.

Other West and Non-Contiguous: CO, UT, AZ, NM, WA, AK.

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 89. Coal Production and Minemouth Prices by Region (1 of 1)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Production(million short tons/year)																								
Appalachia 2/	469.89	429.21	433.91	439.76	445.47	450.68	449.37	439.46	431.18	433.36	439.87	427.13	420.91	419.93	416.70	415.89	411.59	407.01	398.31	387.60	385.21	385.09	-0.9%	
Interior	168.37	139.69	149.64	148.84	180.84	172.24	168.96	172.81	169.02	154.15	176.07	146.10	145.57	145.94	146.16	146.50	146.94	146.86	148.30	150.31	152.00	154.92	-0.4%	
Northern Great Plains	387.78	468.54	459.16	470.04	445.53	468.77	481.56	496.57	503.28	509.75	510.42	515.02	522.43	526.96	532.82	536.30	544.63	550.22	564.17	578.68	588.05	595.20	2.0%	
Other West and Non-Contiguous	101.60	99.01	110.57	115.33	118.59	120.22	121.19	121.74	132.18	144.62	119.33	153.49	156.76	155.96	158.32	158.73	165.54	170.24	175.71	179.35	180.04	180.70	2.7%	
Appalachia 2/	469.89	429.21	433.91	439.76	445.47	450.68	449.37	439.46	431.18	433.36	439.87	427.13	420.91	419.93	416.70	415.89	411.59	407.01	398.31	387.60	385.21	385.09	-0.9%	
Interior	168.37	139.69	149.64	148.84	180.84	172.24	168.96	172.81	169.02	154.15	176.07	146.10	145.57	145.94	146.16	146.50	146.94	146.86	148.30	150.31	152.00	154.92	-0.4%	
West	489.38	567.55	569.72	585.37	564.11	588.99	602.75	618.30	635.46	654.37	629.75	668.50	679.19	682.92	691.14	695.03	710.17	720.46	739.89	758.04	768.09	775.91	2.1%	
East of Mississippi River	580.06	528.48	548.89	555.38	593.98	594.51	592.72	590.33	581.50	570.48	597.46	559.33	553.80	553.50	550.88	550.83	547.26	542.89	535.81	527.19	526.63	527.94	-0.4%	
West of Mississippi River	547.58	607.97	604.39	618.60	596.45	617.40	628.36	640.25	654.16	671.40	648.22	682.40	691.87	695.29	703.11	706.59	721.44	731.45	750.68	768.76	778.67	787.98	1.7%	
U.S. Total	1127.6	1136.4	1153.3	1174.0	1190.4	1211.9	1221.1	1230.6	1235.7	1241.9	1245.7	1241.7	1245.7	1248.8	1254.0	1257.4	1268.7	1274.3	1286.5	1296.0	1305.3	1315.9	0.7%	
Minemouth Prices(1998 dollars/short ton)																								
Appalachia	26.14	25.51	24.81	24.36	23.85	23.59	23.29	23.10	22.96	22.84	22.46	22.74	22.80	22.64	22.52	22.55	22.46	22.25	22.04	21.82	21.73	21.75	-0.8%	
Interior	17.81	17.58	17.67	17.36	17.73	17.49	17.26	17.33	17.19	16.82	16.97	16.44	16.33	16.16	16.07	15.92	15.91	15.66	15.62	15.39	15.22	15.13	-0.7%	
Northern Great Plains	6.10	5.77	5.49	5.28	5.10	4.98	4.86	4.78	4.72	4.65	4.58	4.47	4.43	4.43	4.42	4.43	4.41	4.43	4.44	4.43	4.42	4.43	-1.4%	
Other West and Non-Contiguous	20.67	19.98	19.62	19.25	19.08	18.77	18.52	18.36	18.24	18.21	18.03	18.07	17.97	17.93	17.89	17.74	17.72	17.65	17.63	17.55	17.38	17.40	-0.8%	
Appalachia	26.14	25.51	24.81	24.36	23.85	23.59	23.29	23.10	22.96	22.84	22.46	22.74	22.80	22.64	22.52	22.55	22.46	22.25	22.04	21.82	21.73	21.75	-0.8%	
Interior	17.81	17.58	17.67	17.36	17.73	17.49	17.26	17.33	17.19	16.82	16.97	16.44	16.33	16.16	16.07	15.92	15.91	15.66	15.62	15.39	15.22	15.13	-0.7%	
West	9.13	8.25	8.24	8.03	8.04	7.80	7.61	7.45	7.54	7.64	7.13	7.59	7.55	7.51	7.51	7.47	7.52	7.55	7.57	7.53	7.46	7.45	-0.9%	
East of Mississippi River	24.99	24.36	23.68	23.24	22.65	22.40	22.08	21.84	21.65	21.55	21.18	21.36	21.34	21.17	21.04	21.00	20.91	20.67	20.46	20.18	20.03	20.01	-1.0%	
West of Mississippi River	9.59	8.57	8.45	8.24	8.24	7.97	7.77	7.59	7.65	7.75	7.25	7.68	7.63	7.59	7.59	7.55	7.59	7.63	7.64	7.60	7.53	7.53	-1.1%	
U.S. Total	17.51	15.91	15.69	15.33	15.43	15.05	14.71	14.43	14.24	14.09	13.93	13.84	13.73	13.61	13.50	13.44	13.34	13.18	12.98	12.72	12.57	12.54	-1.5%	

1/ Coal Production Regions:

Appalachia: PA, OH, MD, WV, VA, TN, AL, Eastern KY.

Interior: Western KY, IL, IN, IA, MO, KS, OK, AR, TX, LA.

Northern Great Plains: ND, SD, MT, WY.

Other West and Non-Contiguous: CO, UT, AZ, NM, WA, AK.

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

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 90. Coal Production by Region and Type (million short tons per year) (1 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Northern Appalachia	167.25	173.67	194.83	206.27	222.86	220.44	206.43	189.35	180.06	181.77	196.05	183.86	177.13	182.31	180.15	179.92	174.52	174.50	173.51	172.94	170.45	167.96	0.0%	
Medium Sulfur (Premium) 1/	5.39	11.06	11.55	11.54	11.51	11.68	11.00	10.61	10.59	10.09	9.75	9.15	9.02	8.96	9.07	8.84	8.78	7.90	7.42	7.39	7.13	6.25	0.7%	
Low Sulfur (Bituminous) 2/	2.82	16.72	11.04	11.55	9.86	11.60	12.88	14.16	17.75	19.59	16.61	23.34	25.48	26.20	25.81	25.68	25.16	23.76	21.44	18.44	16.72	17.56	8.7%	
Medium Sulfur (Bituminous) 2/	80.84	78.01	107.50	117.75	119.67	121.80	113.09	96.55	85.84	86.66	102.03	93.09	84.13	88.39	86.03	84.18	78.77	80.71	82.15	84.25	83.50	81.98	0.1%	
High Sulfur (Bituminous)	68.70	52.23	51.30	52.16	67.52	62.99	56.60	54.93	52.44	51.61	53.35	43.82	43.78	43.76	43.77	45.43	45.45	45.42	45.40	45.38	45.35	44.04	-2.0%	
High Sulfur (Gob) 3/	9.50	15.64	13.43	13.28	14.31	12.38	12.86	13.09	13.44	13.81	14.30	14.45	14.72	15.00	15.47	15.79	16.36	16.71	17.10	17.48	17.75	18.12	3.0%	
Central Appalachia	276.93	240.20	226.87	221.71	210.96	219.82	233.41	241.05	242.55	242.90	235.96	233.67	233.97	227.81	227.04	226.20	227.48	223.37	216.14	206.47	206.89	208.94	-1.3%	
Medium Sulfur (Premium) 1/	59.75	46.71	45.56	45.17	45.50	45.84	46.20	46.58	46.92	47.27	46.01	44.99	45.72	43.66	42.55	42.61	42.67	43.64	44.14	44.07	44.22	45.14	-1.3%	
Low Sulfur (Bituminous)	72.74	68.03	65.17	63.12	53.27	60.75	68.75	68.72	69.21	68.87	68.13	79.49	86.96	90.18	90.46	89.80	91.23	88.21	82.97	74.91	75.38	74.77	0.1%	
Medium Sulfur (Bituminous)	144.45	125.46	116.14	113.43	112.20	113.22	118.46	125.76	126.42	126.75	121.83	109.20	101.29	93.97	94.03	93.79	93.58	91.51	89.03	87.49	87.29	89.03	-2.2%	
Southern Appalachia	25.71	15.34	12.21	11.79	11.65	10.42	9.53	9.06	8.57	8.70	7.85	9.59	9.81	9.82	9.50	9.77	9.59	9.13	8.65	8.20	7.87	8.19	-5.1%	
Low Sulfur (Premium) 1/	5.82	6.01	6.04	5.82	5.76	5.17	4.86	4.74	4.22	4.17	3.96	3.98	3.54	3.46	3.23	3.34	3.29	3.01	2.81	2.73	2.69	2.49	-3.8%	
Low Sulfur (Bituminous)	7.53	3.49	2.79	2.65	2.41	2.20	2.01	1.83	1.86	2.04	1.41	3.13	3.79	3.87	3.79	3.93	3.81	3.63	3.33	2.95	2.65	2.79	-4.4%	
Medium Sulfur (Bituminous)	12.36	5.84	3.38	3.31	3.47	3.05	2.66	2.49	2.49	2.49	2.48	2.48	2.48	2.48	2.48	2.49	2.50	2.50	2.51	2.52	2.53	2.91	-6.4%	
Eastern Interior	110.18	99.27	114.98	115.61	148.51	143.83	143.35	150.87	150.32	137.12	157.59	132.20	132.89	133.57	134.19	134.94	135.67	135.88	137.50	139.59	141.42	142.85	1.2%	
Medium Sulfur (Bituminous)	36.24	38.31	53.45	55.72	62.02	57.72	57.27	65.01	64.73	53.20	71.72	57.70	61.62	59.35	62.39	61.91	61.93	63.43	63.66	63.83	65.18	65.41	2.7%	
High Sulfur (Bituminous)	73.94	60.95	61.53	59.89	86.49	86.11	86.08	85.86	85.59	83.92	85.87	74.51	71.27	74.22	71.79	73.03	73.74	72.45	73.85	75.75	76.24	77.44	0.2%	
Western Interior High Sulfur (Bituminous)	2.40	2.20	1.94	1.86	1.86	1.87	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.91	1.91	1.91	1.92	1.93	1.93	1.94	-1.0%
Gulf	55.80	38.22	32.73	31.38	30.47	26.54	23.73	20.05	16.81	15.14	16.59	12.00	10.79	10.48	10.07	9.66	9.36	9.07	8.87	8.80	8.65	10.13	-7.5%	
Medium Sulfur (Lignite)	28.94	20.30	7.37	6.84	6.32	5.76	5.31	4.93	4.93	4.93	4.93	4.93	4.92	4.93	4.93	4.95	4.97	4.97	4.99	5.00	5.02	6.75	-6.4%	
High Sulfur (Lignite)	26.86	17.92	25.35	24.54	24.15	20.78	18.41	15.13	11.87	10.21	11.66	7.08	5.87	5.56	5.14	4.71	4.39	4.09	3.89	3.80	3.64	3.38	-9.0%	
Dakota Medium Sulfur (Lignite)	30.86	31.37	31.14	32.64	34.05	34.64	34.71	34.75	34.76	34.77	35.51	28.86	27.22	27.34	26.25	24.43	23.65	22.63	21.92	22.27	21.70	19.52	-2.1%	
Powder/Green River	356.92	437.17	428.01	437.39	411.47	434.12	446.85	461.82	468.51	474.98	474.91	486.16	495.21	499.62	506.57	511.86	520.97	527.59	542.25	556.42	566.35	575.69	2.2%	
Low Sulfur (Bituminous)	1.72	1.16	1.15	1.16	0.89	0.45	0.25	0.21	0.21	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	-9.4%	
Low Sulfur (Sub-Bituminous)	318.84	384.71	392.86	402.98	381.42	399.77	409.89	421.29	424.80	429.33	429.63	436.95	444.59	448.26	454.43	458.97	467.43	473.43	487.52	501.19	510.48	517.13	2.2%	
Medium Sulfur (Sub-Bituminous)	36.36	51.31	34.00	33.26	29.16	33.90	36.72	40.32	43.50	45.45	45.08	49.00	50.42	51.16	51.94	52.70	53.34	53.96	54.54	55.03	55.68	58.36	2.2%	
Rocky Mountain	55.71	61.98	73.10	77.46	80.35	82.07	83.39	84.28	95.07	107.85	82.90	117.39	121.00	120.52	123.21	123.95	131.08	136.10	141.89	145.84	146.84	147.81	4.5%	
Low Sulfur (Bituminous)	45.78	53.68	66.46	71.16	74.69	76.98	78.80	80.16	91.36	104.50	79.89	114.68	118.56	118.33	121.24	122.18	129.48	134.66	140.60	144.66	145.79	146.60	5.4%	
Low Sulfur (Sub-Bituminous)	9.93	8.30	6.64	6.29	5.66	5.10	4.59	4.13	3.72	3.34	3.01	2.71	2.44	2.19	1.97	1.78	1.60	1.44	1.30	1.18	1.05	1.21	-9.1%	
Arizona/New Mexico	39.91	31.56	31.98	32.37	32.76	32.70	32.38	32.06	31.74	31.43	31.12	30.81	30.50	30.20	29.91	29.61	29.32	29.03	28.75	28.46	28.18	27.91	-1.6%	
Low Sulfur (Bituminous)	26.76	23.17	23.41	23.63	23.85	23.78	23.54	23.31	23.08	22.84	22.62	22.39	22.17	21.95	21.73	21.51	21.29	21.08	20.87	20.66	20.46	20.25	-1.3%	
Medium Sulfur (Sub-Bituminous)	13.16	8.39	8.57	8.74	8.91	8.92	8.83	8.75	8.67	8.58	8.50	8.42	8.34	8.26	8.18	8.10	8.03	7.95	7.88	7.80	7.73	7.65	-2.4%	

**Table 90. Coal Production by Region and Type (million short tons per year) (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Washington/Alaska																							
Medium Sulfur (Sub-Bituminous)	5.98	5.47	5.48	5.51	5.48	5.45	5.42	5.39	5.37	5.34	5.31	5.29	5.26	5.23	5.20	5.17	5.14	5.11	5.08	5.05	5.02	4.99	-0.8%
Subtotals: All Regions																							
Premium Metallurgical 1/	70.96	63.77	63.15	62.52	62.77	62.69	62.07	61.93	61.73	61.54	59.71	58.12	58.28	56.09	54.85	54.79	54.73	54.55	54.37	54.20	54.04	53.88	-1.2%
Bituminous	576.26	529.27	565.27	577.39	618.19	622.52	622.26	620.88	622.86	624.58	628.04	625.92	623.61	624.78	625.61	626.03	629.05	629.48	627.92	622.95	623.22	624.93	0.4%
Sub-Bituminous	384.26	458.18	447.56	456.77	430.63	453.13	465.45	479.88	486.05	492.04	491.53	502.37	511.05	515.11	521.72	526.72	535.54	541.89	556.30	570.25	579.95	589.33	2.0%
Lignite	96.16	85.23	77.30	77.30	78.83	73.56	71.30	67.89	65.01	63.73	66.39	55.31	52.73	52.82	51.80	49.88	49.37	48.41	47.90	48.55	48.10	47.77	-3.1%
Low Sulfur	491.93	565.27	575.57	588.36	557.81	585.80	605.56	618.54	636.19	654.90	625.46	686.87	707.72	714.65	722.86	727.38	743.49	749.42	761.03	766.92	775.42	783.00	2.1%
Medium Sulfur	454.32	422.23	424.14	433.90	438.29	441.98	439.68	441.15	434.22	425.54	453.15	413.11	400.41	393.72	393.06	389.17	383.35	384.33	383.30	384.69	384.98	387.99	-0.7%
High Sulfur	181.40	148.95	153.55	151.72	194.33	184.13	175.84	170.89	165.24	161.44	167.07	141.74	137.53	140.43	138.07	140.86	141.85	140.58	142.15	144.33	144.90	144.93	-1.0%
U.S. Total	1127.6	1136.4	1153.3	1174.0	1190.4	1211.9	1221.1	1230.6	1235.7	1241.9	1245.7	1241.7	1245.7	1248.8	1254.0	1257.4	1268.7	1274.3	1286.5	1295.9	1305.3	1315.9	0.7%

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

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: PA,MD,OH,N.WV (PA anthracite is included under low and medium sulfur bituminous).

Central Appalachia: S.WV,VA,E.KY

Southern Appalachia: AL,TN.

Eastern Interior: IL,IN,W.KY.

Western Interior (Bituminous Only): IA,MO,KS,OK,AR,TX.

Gulf (Lignite Only): TX,LA,AR.

Dakota: ND,SD,E.MT(Lignite Only).

Powder/Green River: WY,MT(Sub-Bituminous and Bituminous)

Rocky Mountains: CO,UT.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.

High Sulfur: Over 1.67 pounds of sulfur per million Btu.

Btu = British thermal unit.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 91. Coal Prices by Region and Type ( 1998 Dollars per Short Ton) (1 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Northern Appalachia	24.35	24.61	24.10	23.67	23.17	23.01	22.50	22.20	22.07	21.92	21.43	21.75	21.77	21.57	21.42	21.39	21.24	20.94	20.61	20.31	20.13	20.11	-0.9%
Medium Sulfur (Premium) 1/	38.75	39.37	38.77	38.20	37.81	37.52	36.99	36.62	36.44	36.07	35.71	35.71	35.53	35.18	35.21	35.05	35.20	34.92	34.74	34.44	34.27	34.23	-0.6%
Low Sulfur (Bituminous) 2/	32.30	36.08	34.21	33.70	32.99	33.24	32.99	33.05	33.24	33.37	32.48	33.38	33.44	33.13	32.94	32.92	32.80	32.56	32.37	32.10	31.90	32.05	0.0%
Medium Sulfur (Bituminous) 2/	24.94	24.05	24.13	23.66	23.21	22.81	22.21	21.79	21.27	20.99	20.94	20.66	20.41	20.25	20.04	20.04	19.88	19.80	19.71	19.65	19.61	19.61	-1.1%
High Sulfur (Bituminous)	24.16	22.62	22.03	21.58	21.88	21.39	20.75	20.31	19.87	19.65	19.54	18.98	18.88	18.68	18.67	18.75	18.56	18.46	18.36	18.35	18.33	18.23	-1.3%
High Sulfur (Gob) 3/	10.25	11.40	10.86	10.55	10.44	10.03	9.88	9.77	9.72	9.62	9.42	9.45	9.44	9.47	9.60	9.78	9.92	10.00	10.09	10.23	10.37	10.54	0.1%
Central Appalachia	26.21	25.47	24.80	24.41	23.94	23.64	23.53	23.39	23.23	23.15	22.97	23.07	23.13	23.04	22.97	23.02	22.96	22.86	22.79	22.69	22.68	22.69	-0.7%
Medium Sulfur (Premium) 1/	29.17	28.15	27.59	27.29	26.75	26.35	26.22	25.96	25.83	25.79	25.58	25.56	25.31	25.31	25.44	25.44	25.31	25.29	25.15	25.15	25.27	25.27	-0.7%
Low Sulfur (Bituminous)	26.87	26.48	25.72	25.35	24.63	24.56	24.68	24.49	24.36	24.22	24.16	24.42	24.57	24.42	24.36	24.41	24.36	24.22	24.14	24.02	23.95	23.98	-0.5%
Medium Sulfur (Bituminous)	24.66	23.92	23.19	22.74	22.46	22.04	21.82	21.83	21.66	21.59	21.32	21.06	20.80	20.67	20.57	20.59	20.48	20.37	20.29	20.32	20.33	20.30	-0.9%
Southern Appalachia	36.98	36.25	36.30	35.67	35.31	34.93	34.50	34.30	33.76	33.53	33.01	33.50	33.36	33.08	32.85	32.87	32.81	32.38	32.11	31.72	31.50	31.25	-0.8%
Low Sulfur (Premium) 1/	43.17	42.97	42.38	41.80	41.41	41.10	40.55	40.15	39.93	39.53	39.13	39.08	38.86	38.46	38.44	38.23	38.34	38.00	37.77	37.42	37.20	37.11	-0.7%
Low Sulfur (Bituminous)	38.83	35.76	34.49	33.85	33.47	32.96	32.43	32.04	31.85	32.20	30.72	33.47	34.06	33.80	33.61	33.58	33.45	33.20	33.00	32.50	32.28	32.44	-0.8%
Medium Sulfur (Bituminous)	32.93	29.62	26.92	26.37	26.48	25.88	25.01	24.83	24.72	24.57	24.58	24.59	24.45	24.43	24.41	24.54	24.56	24.43	24.57	24.61	24.61	25.09	-1.2%
Eastern Interior	20.11	19.41	19.39	18.96	19.03	18.64	18.28	18.17	17.88	17.46	17.60	16.92	16.74	16.54	16.42	16.23	16.21	15.92	15.87	15.61	15.41	15.33	-1.2%
Medium Sulfur (Bituminous)	20.31	19.93	20.22	19.74	19.56	19.18	18.83	18.81	18.62	18.07	18.40	17.62	17.50	17.33	17.20	17.04	17.03	16.73	16.66	16.39	16.18	16.11	-1.0%
High Sulfur (Bituminous)	20.01	19.09	18.68	18.23	18.65	18.28	17.91	17.69	17.32	17.08	16.93	16.38	16.09	15.91	15.74	15.55	15.51	15.22	15.18	14.95	14.76	14.66	-1.4%
Western Interior High Sulfur (Bituminous)	23.83	24.06	23.34	23.22	23.22	23.33	23.44	23.43	23.54	23.52	23.51	23.49	23.36	23.35	23.33	23.44	23.43	23.53	23.63	23.62	23.60	23.71	0.0%
Gulf	13.00	12.43	11.26	11.11	11.04	10.86	10.61	10.42	10.28	10.17	10.23	10.06	10.00	10.02	10.03	10.02	10.02	10.08	10.06	10.08	10.09	10.67	-0.9%
Medium Sulfur (Lignite)	14.66	14.06	12.32	12.18	12.08	11.99	11.80	11.70	11.75	11.75	11.75	11.75	11.70	11.70	11.70	11.64	11.63	11.69	11.62	11.61	11.61	12.07	-0.9%
High Sulfur (Lignite)	11.21	10.58	10.95	10.81	10.77	10.55	10.26	10.00	9.67	9.41	9.59	8.88	8.58	8.54	8.43	8.31	8.19	8.13	8.06	8.06	8.00	7.87	-1.6%
Dakota Medium Sulfur (Lignite)	8.10	7.91	7.75	7.64	7.56	7.45	7.34	7.27	7.24	7.24	7.24	7.05	6.85	6.79	6.71	6.65	6.56	6.51	6.45	6.43	6.37	6.27	-1.2%
Powder/Green River	W	5.62	5.33	5.11	4.90	4.78	4.67	4.59	4.54	4.46	4.38	4.31	4.29	4.30	4.30	4.32	4.32	4.34	4.35	4.35	4.34	4.37	W
Low Sulfur (Bituminous)	W	19.11	20.86	22.53	23.45	23.23	22.96	22.96	23.07	23.30	23.52	23.75	23.87	24.10	24.33	24.45	24.69	25.05	25.17	25.41	25.66	25.78	W
Low Sulfur (Sub-Bituminous)	W	5.39	5.18	4.95	4.76	4.64	4.53	4.44	4.37	4.29	4.20	4.12	4.10	4.10	4.10	4.12	4.12	4.14	4.16	4.16	4.16	4.18	W
Medium Sulfur (Sub-Bituminous)	W	7.03	6.54	6.38	6.20	6.23	6.13	6.10	6.07	6.00	5.96	5.96	5.92	5.97	5.97	5.95	5.94	5.97	5.99	5.99	5.99	6.02	W
Rocky Mountain	19.14	18.60	18.36	17.91	17.72	17.28	17.01	16.80	16.87	17.00	16.39	16.94	16.87	16.83	16.83	16.68	16.72	16.71	16.75	16.69	16.52	16.55	-0.7%
Low Sulfur (Bituminous)	19.15	18.63	18.43	17.97	17.78	17.33	17.06	16.85	16.92	17.05	16.44	16.99	16.92	16.88	16.87	16.72	16.76	16.74	16.78	16.72	16.54	16.58	-0.7%
Low Sulfur (Sub-Bituminous)	19.09	18.44	17.60	17.34	16.99	16.56	16.15	15.83	15.59	15.28	15.13	14.82	14.60	14.46	14.17	13.96	13.68	13.48	13.28	13.15	13.03	13.10	-1.7%
Arizona/New Mexico	W	22.04	21.84	21.73	21.71	21.77	21.64	21.69	21.58	21.58	21.57	21.57	21.46	21.41	21.41	21.30	21.30	21.20	21.09	21.09	20.93	20.98	W
Low Sulfur (Bituminous)	W	23.59	23.35	23.22	23.22	23.33	23.20	23.20	23.08	23.08	23.08	23.08	22.97	22.97	22.97	22.85	22.85	22.74	22.62	22.62	22.40	22.51	W
Medium Sulfur (Sub-Bituminous)	W	17.74	17.73	17.70	17.69	17.59	17.50	17.67	17.57	17.56	17.55	17.55	17.46	17.28	17.28	17.20	17.20	17.11	17.03	17.03	17.03	16.94	W

**Table 91. Coal Prices by Region and Type ( 1998 Dollars per Short Ton) (2 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Washington/Alaska																							
Medium Sulfur (Sub-Bituminous)	W	23.75	23.52	23.40	23.17	23.05	22.93	22.93	22.82	22.82	22.82	22.82	22.93	22.93	22.93	22.82	22.82	22.70	22.59	22.59	22.59	22.47	W
Average by Type: All Regions																							
Premium Metallurgical 1/	31.05	31.49	31.05	30.65	30.12	29.65	29.25	28.87	28.61	28.41	28.13	28.10	27.91	27.70	27.72	27.77	27.78	27.40	27.23	27.03	26.95	26.86	-0.7%
Bituminous	23.95	23.26	22.52	22.08	21.61	21.32	21.03	20.81	20.58	20.45	20.26	20.28	20.23	20.12	20.00	19.93	19.82	19.61	19.41	19.15	18.98	18.98	-1.1%
Sub-Bituminous	6.95	6.25	5.93	5.69	5.52	5.37	5.23	5.13	5.05	4.95	4.86	4.78	4.74	4.72	4.72	4.71	4.71	4.71	4.69	4.68	4.70	4.70	-1.8%
Lignite	11.16	10.58	9.78	9.55	9.43	9.12	8.89	8.69	8.54	8.45	8.46	8.33	8.22	8.19	8.22	8.29	8.33	8.38	8.42	8.46	8.51	8.82	-1.1%
Low Sulfur	12.51	11.65	11.04	10.67	10.34	10.25	10.25	10.07	10.22	10.32	9.71	10.62	10.79	10.79	10.72	10.66	10.64	10.49	10.24	9.88	9.72	9.71	-1.1%
Medium Sulfur	22.02	20.69	21.22	20.87	20.66	20.20	19.74	19.42	19.06	18.84	18.74	18.40	18.13	17.91	17.79	17.78	17.68	17.55	17.47	17.37	17.30	17.25	-1.1%
High Sulfur	19.82	18.57	17.90	17.57	18.23	17.97	17.50	17.31	17.03	16.86	16.68	16.20	16.04	15.89	15.81	15.80	15.73	15.55	15.50	15.38	15.29	15.20	-1.2%
U.S. Average	17.51	15.91	15.69	15.33	15.43	15.05	14.71	14.43	14.24	14.09	13.93	13.84	13.73	13.61	13.50	13.44	13.34	13.18	12.98	12.72	12.57	12.54	-1.5%

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

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.

Northern Appalachia: PA,MD,OH,N.WV (PA. anthracite is included under low and medium sulfur bituminous).

Central Appalachia: S.WV,VA,E.KY

Southern Appalachia: AL,TN.

Eastern Interior: IL,IN,W.KY.

Western Interior (Bituminous Only): IA,MO,KS,OK,AR,TX.

Gulf (Lignite Only): TX,LA,AR.

Dakota: ND,SD,E.MT(Lignite Only).

Powder/Green River: WY,MT(Sub-Bituminous and Bituminous)

Rocky Mountains: CO,UT.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.

High Sulfur: Over 1.67 pounds of sulfur per million Btu.

Btu = British thermal unit.

W = Withheld.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports.

Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 92. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/ (1 of 2)**  
(Million Short Tons)

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Steam Coal Exports to Europe 3/</b>																							
Australia	11.2	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.7	10.1	10.0	9.5	9.0	8.9	8.8	8.6	8.5	8.4	8.0	7.9	8.2	-1.4%
United States	8.4	9.7	9.9	10.1	9.9	9.7	10.1	11.2	12.3	13.5	14.3	15.0	14.1	14.1	12.4	10.4	7.5	8.7	8.8	8.0	7.3	7.7	-0.4%
South Africa	45.9	42.2	42.9	43.6	43.9	44.9	45.5	44.6	44.8	44.9	45.0	45.1	46.0	46.9	47.7	48.6	49.5	47.7	46.4	46.2	46.2	46.3	0.0%
Former U.S.S.R	8.9	11.0	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	1.4%
Poland	14.4	13.2	12.8	12.4	12.0	11.6	11.2	10.6	10.0	9.3	8.7	8.0	7.8	7.5	7.3	7.0	6.7	6.5	6.2	6.0	5.8	5.5	-4.3%
Canada	0.7	4.2	4.3	4.4	5.6	6.1	6.3	5.5	4.9	4.9	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	9.4%
China	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	25.5	28.4	29.0	29.6	30.2	30.8	31.4	31.7	32.0	32.4	32.7	33.6	33.6	34.5	34.9	35.6	37.2	37.2	38.1	39.0	39.3	38.1	1.8%
Indonesia 4/	2.5	8.5	8.9	9.3	9.3	9.4	9.3	9.4	9.3	8.1	6.2	4.2	2.3	2.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	N/A
Total	119.8	126.3	128.1	129.8	131.6	133.4	135.1	134.4	133.6	132.7	131.9	131.2	130.2	129.2	128.4	127.6	127.0	126.0	125.2	124.5	123.8	123.0	0.1%
<b>Steam Coal Exports to Asia</b>																							
Australia	77.3	90.9	95.4	99.8	105.0	110.3	114.8	118.3	121.8	125.2	128.7	132.2	133.6	134.9	136.3	137.7	139.0	140.5	142.1	143.6	145.1	146.6	3.0%
United States	5.0	3.3	3.7	4.1	4.2	4.3	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.1	0.1%
South Africa	14.8	26.7	27.4	28.1	29.1	29.4	30.2	32.0	32.9	33.8	34.6	35.5	35.7	36.0	36.3	36.5	36.8	38.6	40.1	40.2	40.3	40.3	4.7%
Former U.S.S.R	2.5	2.6	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.9	2.0%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	5.2	2.9	3.2	3.4	2.6	2.4	2.5	3.7	4.8	5.2	5.6	6.0	5.9	4.0	4.1	4.3	4.5	3.1	2.2	2.5	2.9	3.3	-2.0%
China	25.7	34.6	35.5	36.3	37.1	38.0	38.8	39.2	39.7	40.1	40.6	41.0	41.4	41.9	42.3	42.8	43.2	43.9	44.5	45.2	45.9	46.5	2.7%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	39.9	46.7	47.5	48.5	49.7	51.0	52.2	52.9	54.6	57.2	59.7	62.2	63.4	66.5	67.5	68.5	69.4	70.5	71.6	72.7	73.7	74.8	2.9%
Total	170.3	207.8	215.3	222.9	230.5	238.0	245.6	253.3	261.0	268.7	276.5	284.2	287.6	291.1	294.4	297.8	301.1	305.1	309.0	312.8	316.7	320.6	2.9%
<b>Steam Coal Export to America</b>																							
Australia	2.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	-4.6%
United States	17.6	12.5	12.0	11.5	11.1	10.8	10.4	10.1	9.8	9.5	9.2	8.9	8.6	9.0	8.9	9.0	10.1	9.4	9.4	9.6	9.7	9.9	-2.6%
South Africa	0.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	8.4%
Former U.S.S.R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	9.9	17.2	18.7	20.3	21.8	23.4	24.9	25.4	25.8	26.3	26.7	26.6	27.5	27.5	28.0	28.3	27.6	28.8	29.1	29.3	29.5	29.8	5.1%
Indonesia 4/	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	33.0	32.7	33.7	34.8	36.0	37.2	38.4	38.6	38.8	38.9	39.1	39.3	39.3	39.7	40.2	40.6	40.9	41.4	41.8	42.1	42.5	42.9	1.2%



**Table 92. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/ (2 of 2)  
(Million Short Tons)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
Total Steam Coal Exports 5/																							
Australia	92.2	100.6	105.2	109.8	115.1	120.4	125.1	128.7	132.3	135.7	139.5	143.5	143.8	144.8	146.0	147.2	148.5	149.9	151.3	152.4	153.8	155.7	2.4%
United States	31.0	25.5	25.5	25.7	25.2	24.7	24.8	25.7	26.5	27.5	28.1	28.5	27.4	27.8	26.1	24.3	22.5	23.0	23.2	22.6	22.2	22.7	-1.4%
South Africa	66.3	71.3	72.7	74.0	75.4	76.7	78.0	79.0	80.0	81.0	82.0	83.0	84.2	85.3	86.4	87.6	88.7	88.8	88.8	88.9	88.9	89.0	1.3%
Former U.S.S.R	11.4	13.7	13.8	13.9	14.1	14.2	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.7	15.8	15.9	16.0	1.5%
Poland	14.4	13.2	12.8	12.4	12.0	11.6	11.2	10.6	10.0	9.3	8.7	8.0	7.8	7.5	7.3	7.0	6.7	6.5	6.2	6.0	5.8	5.5	-4.3%
Canada	6.4	7.2	7.5	7.8	8.2	8.5	8.8	9.3	9.7	10.1	10.6	11.0	10.9	9.1	9.1	9.3	9.5	8.2	7.3	7.5	8.0	8.4	1.2%
China	30.2	34.6	35.5	36.3	37.1	38.0	38.8	39.2	39.7	40.1	40.6	41.0	41.4	41.9	42.3	42.8	43.2	43.9	44.5	45.2	45.9	46.5	2.0%
South America	38.9	45.5	47.7	49.8	52.0	54.2	56.3	57.1	57.9	58.6	59.4	60.2	61.1	62.0	63.0	63.9	64.8	66.0	67.2	68.3	68.9	67.9	2.6%
Indonesia 4/	55.0	55.2	56.4	57.7	59.0	60.3	61.6	62.1	62.7	63.3	63.9	64.5	65.5	66.5	67.5	68.6	69.6	70.6	71.7	72.7	73.7	74.8	1.4%
Total	345.6	366.8	377.2	387.5	398.1	408.6	419.1	426.2	433.3	440.4	447.5	454.7	457.2	460.0	463.0	466.0	469.0	472.4	475.9	479.5	483.0	486.4	1.6%

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

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 1998, steam coal exports from Indonesia include an additional 8.3 million short tons of exports from other countries not included in the forecast period.

5/ In 1998, total world coal flows include a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1998, the balancing item for steam coal amounted to 22.5 million short tons.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 data: International Energy Agency, Coal Information 1998, (Paris, France, July 1999); and Energy Information Administration, Quarterly Coal Report, October-December 1998, DOE/EIA-0121(98/4Q) (Washington, DC, July 1999). Projections: AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 93. World Metallurgical Coal Flows By Importing and Exporting Countries 1,2/ (1 of 2)**  
(Million Short Tons)

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
<b>1998-</b>																								
<b>Metallurgical Coal Exports to Europe 3/</b>																								
Australia	17.9	23.8	26.9	27.9	28.0	28.5	29.6	29.6	29.5	29.5	31.3	32.9	32.6	35.0	36.3	36.2	36.1	36.1	36.0	35.9	35.9	35.8	3.2%	
United States	28.6	21.7	21.3	20.9	21.3	21.3	20.8	20.8	20.8	20.8	19.1	17.7	18.0	15.8	14.7	14.7	14.7	14.6	14.6	14.5	14.5	14.4	-3.1%	
South Africa	1.2	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	-1.2%	
Former U.S.S.R	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.4%	
Poland	6.0	5.0	4.7	4.5	4.2	4.0	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	-2.5%
Canada	6.7	6.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	-2.0%
China	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.3%
Total	63.5	61.3	61.6	61.9	62.0	62.3	62.6	62.5	62.3	62.2	62.4	62.5	62.2	62.4	62.4	62.3	62.1	61.9	61.7	61.5	61.4	61.2	-0.2%	
<b>Metallurgical Coal Exports to Asia 5/</b>																								
Australia	63.2	77.5	77.9	78.4	78.8	79.3	79.8	80.2	80.6	81.1	81.5	82.0	82.5	83.0	83.5	84.0	84.5	84.9	85.2	85.6	86.0	86.3	1.4%	
United States	6.7	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	-6.6%
South Africa	4.2	6.1	6.1	6.1	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.7	5.7	1.4%
Former U.S.S.R	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.4	0.8	0.7	0.6	0.4	0.5	0.6	2.8	2.8	2.8	2.8	-0.4%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	21.9	22.2	22.2	22.3	22.3	22.4	22.4	22.4	22.4	22.3	22.2	22.0	22.2	21.9	22.1	22.3	22.5	22.4	22.4	20.3	20.4	20.4	20.4	-0.3%
China	7.7	5.5	5.6	5.6	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.6	-0.7%
South America	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	4.6	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	-0.5%
Total	111.6	116.4	117.0	117.5	118.1	118.6	119.1	119.7	120.2	120.8	121.3	121.9	122.5	123.1	123.7	124.3	124.9	125.4	125.9	126.4	126.9	127.4	0.6%	
<b>Metallurgical Coal Exports to America</b>																								
Australia	4.9	7.1	7.2	7.3	7.4	7.5	7.7	7.8	8.0	8.2	8.3	8.5	8.7	9.0	9.2	9.4	9.7	9.9	10.1	10.2	10.4	10.6	3.6%	
United States	11.8	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0	16.2	16.4	16.7	17.0	17.4	17.7	18.0	18.2	18.4	18.6	18.8	19.0	2.2%	
South Africa	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 U.S.S.R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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	2.7	1.0	1.3	1.5	1.8	2.0	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.5	3.5	3.6	3.6	3.6	1.3%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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/	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	21.6	22.5	23.0	23.6	24.2	24.7	25.3	25.8	26.2	26.7	27.2	27.7	28.3	29.0	29.7	30.4	31.1	31.5	31.9	32.4	32.8	33.3	2.0%	

**Table 93. World Metallurgical Coal Flows By Importing and Exporting Countries 1,2/ (2 of 2)  
(Million Short Tons)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020	
Total Metallurgical Coal Exports 6/																								
Australia	91.6	108.4	112.0	113.6	114.3	115.4	117.0	117.6	118.2	118.7	121.2	123.4	123.8	126.9	129.0	129.6	130.3	130.8	131.3	131.8	132.3	132.8	1.7%	
United States	47.1	37.2	37.0	36.8	37.4	37.7	37.4	37.6	37.8	38.1	36.6	35.5	36.0	34.2	33.4	33.7	34.0	34.2	34.4	34.6	34.7	34.9	-1.3%	
South Africa	7.6	7.5	7.5	7.4	7.4	7.3	7.2	7.2	7.2	7.1	7.1	7.1	7.0	6.9	6.9	6.8	6.8	6.7	6.7	6.7	6.7	6.6	-0.6%	
Former U.S.S.R	4.7	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.8	1.9	2.1	2.0	2.3	2.2	2.1	2.0	2.1	2.2	4.3	4.3	4.3	-0.4%	
Poland	6.0	5.0	4.7	4.5	4.2	4.0	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	-2.5%
Canada	31.2	29.8	28.0	28.3	28.6	28.9	29.2	29.3	29.5	29.4	29.4	29.3	29.6	29.4	29.6	29.9	30.2	30.1	30.1	28.1	28.2	28.3	-0.4%	
China	5.3	5.5	5.6	5.6	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.5	6.5	6.6	1.0%	
South America	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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/	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	-0.9%	
Total	200.4	200.1	201.5	202.9	204.2	205.6	207.0	207.9	208.8	209.7	210.8	212.0	213.1	214.5	215.8	217.0	218.1	218.9	219.6	220.4	221.1	221.9	0.5%	

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

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 1998, metallurgical coal exports from Indonesia include an additional 1.0 million short tons of exports from other countries not included in for the forecast period.

5/ For 1998, includes 11.2 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.

6/ In 1998, total world coal flows include a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1998, the balancing item for metallurgical coal amounted to 3.7 million short tons.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 data: International Energy Agency, Coal Information 1998, (Paris, France, July 1999); and Energy Information Administration, Quarterly Coal Report, October-December 1998, DOE/EIA-0121(98/4Q) (Washington, DC, July 1999). Projections: AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 94. World Total Coal Flows By Importing and Exporting Countries 1,2/ (1 of 2)**  
(Million Short Tons)

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
1998-																							
Total Coal Exports to Europe 3/																							
Australia	29.1	32.9	36.1	37.2	37.4	38.0	39.2	39.3	39.3	39.2	41.4	42.9	42.1	44.0	45.2	45.0	44.8	44.6	44.5	44.0	43.8	44.0	1.9%
United States	37.0	31.4	31.2	30.9	31.2	31.0	30.9	32.0	33.0	34.2	33.5	32.7	32.0	29.9	27.1	25.1	22.2	23.4	23.4	22.5	21.8	22.1	-2.3%
South Africa	47.1	43.6	44.2	44.9	45.2	46.3	46.8	45.9	46.0	46.1	46.1	46.2	47.1	48.0	48.8	49.7	50.6	48.8	47.4	47.2	47.2	47.2	0.0%
Former U.S.S.R	10.6	12.8	12.9	13.0	13.1	13.2	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	1.2%
Poland	20.4	18.2	17.5	16.9	16.3	15.6	15.0	14.3	13.7	13.0	12.3	11.7	11.4	11.1	10.8	10.5	10.3	10.0	9.7	9.5	9.2	8.9	-3.7%
Canada	7.4	10.9	8.9	9.0	10.1	10.6	10.8	10.1	9.4	9.5	9.5	9.6	9.5	9.5	9.4	9.4	9.3	9.3	9.3	9.3	9.3	9.3	1.0%
China	2.5	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	25.8	28.4	29.0	29.6	30.2	30.8	31.4	31.7	32.0	32.4	32.7	33.6	33.6	34.5	34.9	35.6	37.2	37.2	38.1	39.0	39.3	38.1	1.8%
Indonesia 4/	3.4	9.4	9.8	10.2	10.2	10.2	10.3	10.2	9.0	7.1	5.1	3.2	3.0	0.9	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9	-6.1%
Total	183.3	187.6	189.6	191.7	193.6	195.7	197.7	196.8	195.9	194.9	194.3	193.6	192.5	191.6	190.8	189.9	189.0	187.9	186.0	185.1	184.1	184.1	0.0%
Total Coal Exports to Asia																							
Australia	140.4	168.3	173.3	178.2	183.9	189.6	194.6	198.5	202.4	206.3	210.2	214.1	216.0	217.9	219.8	221.7	223.5	225.4	227.3	229.2	231.0	232.9	2.3%
United States	11.7	4.4	4.8	5.3	5.4	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.4	6.4	6.5	6.6	6.6	-2.6%
South Africa	19.0	32.8	33.5	34.1	35.1	35.4	36.1	38.0	38.8	39.7	40.5	41.4	41.6	41.9	42.1	42.3	42.6	44.4	45.8	46.0	46.0	46.0	4.1%
Former U.S.S.R	5.5	2.6	2.7	2.7	2.7	2.7	2.8	2.8	2.8	3.0	3.1	3.3	3.3	3.8	3.8	3.7	3.7	4.0	4.2	6.4	6.5	6.6	0.8%
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	27.0	25.1	25.4	25.7	24.9	24.8	24.9	26.2	27.3	27.5	27.8	28.0	28.1	25.9	26.2	26.6	26.9	25.6	24.6	22.8	23.3	23.8	-0.6%
China	33.4	40.1	41.0	41.9	42.8	43.7	44.5	45.0	45.6	46.1	46.6	47.1	47.6	48.0	48.5	49.0	49.5	50.2	51.0	51.7	52.4	53.1	2.1%
South America	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	44.5	50.7	51.6	52.5	53.8	55.0	56.3	56.9	58.7	61.2	63.7	66.2	67.5	70.6	71.6	72.6	73.5	74.6	75.7	76.8	77.8	78.9	2.6%
Total	281.9	324.2	332.3	340.4	348.5	356.6	364.7	373.0	381.2	389.5	397.8	406.1	410.1	414.1	418.1	422.1	426.1	430.5	434.9	439.3	443.6	448.0	2.1%
Total Coal Exports to America																							
Australia	7.4	7.7	7.9	8.0	8.1	8.2	8.4	8.5	8.7	8.9	9.1	9.8	9.5	9.7	10.0	10.2	10.5	10.7	10.9	11.1	11.3	11.5	2.0%
United States	29.4	26.9	26.5	26.2	26.1	25.9	25.8	25.7	25.6	25.5	25.4	25.3	25.4	26.0	26.3	26.7	28.1	27.5	27.8	28.2	28.6	28.9	-0.1%
South Africa	2.3	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	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.2%
Former U.S.S.R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	3.2	1.0	1.3	1.5	1.8	2.0	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.5	3.5	3.6	3.6	0.5%
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	10.1	17.2	18.7	20.3	21.8	23.4	24.9	25.4	25.8	26.3	26.7	26.6	27.5	27.5	28.0	28.3	27.6	28.8	29.1	29.3	29.5	29.8	5.0%
Indonesia 4/	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	54.6	55.2	56.8	58.4	60.1	61.9	63.7	64.3	65.0	65.6	66.3	67.0	67.7	68.7	69.9	71.0	72.0	72.9	73.7	74.5	75.3	76.2	1.5%

**Table 94. World Total Coal Flows By Importing and Exporting Countries 1,2/ (2 of 2)  
(Million Short Tons)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Total Coal Exports 5/																							
Australia	183.8	209.0	217.3	223.4	229.4	235.8	242.2	246.3	250.4	254.4	260.7	266.9	267.6	271.7	274.9	276.9	278.8	280.7	282.6	284.2	286.1	288.5	2.1%
United States	78.0	62.7	62.5	62.4	62.6	62.4	62.2	63.2	64.3	65.5	64.7	64.0	63.4	62.0	59.5	58.0	56.5	57.3	57.6	57.2	56.9	57.7	-1.4%
South Africa	73.9	78.8	80.1	81.4	82.7	84.0	85.3	86.3	87.2	88.2	89.1	90.1	91.2	92.3	93.4	94.5	95.6	95.6	95.6	95.6	95.6	95.6	1.2%
Former U.S.S.R	16.1	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.4	16.7	17.0	17.0	17.4	17.4	17.4	17.6	17.8	20.1	20.2	20.3	20.3	1.1%
Poland	20.4	18.2	17.5	16.9	16.3	15.6	15.0	14.3	13.7	13.0	12.3	11.7	11.4	11.1	10.8	10.5	10.3	10.0	9.7	9.5	9.2	8.9	-3.7%
Canada	37.7	37.0	35.5	36.1	36.8	37.4	38.0	38.6	39.2	39.6	40.0	40.4	40.5	38.4	38.8	39.2	39.7	38.3	37.4	35.6	36.1	36.7	-0.1%
China	35.5	40.1	41.0	41.9	42.8	43.7	44.5	45.0	45.6	46.1	46.6	47.1	47.6	48.0	48.5	49.0	49.5	50.2	51.0	51.7	52.4	53.1	1.9%
South America	39.7	45.5	47.7	49.8	52.0	54.2	56.3	57.1	57.9	58.6	59.4	60.2	61.1	62.0	63.0	63.9	64.8	66.0	67.2	68.3	68.9	67.9	2.5%
Indonesia 4/	61.0	60.1	61.4	62.7	64.0	65.2	66.5	67.1	67.7	68.3	68.9	69.4	70.5	71.5	72.5	73.5	74.5	75.6	76.6	77.7	78.7	79.7	1.2%
Total	546.0	567.0	578.7	590.4	602.3	614.2	626.1	634.1	642.1	650.1	658.4	666.7	670.2	674.5	678.8	683.0	687.1	691.3	695.5	699.8	704.1	708.3	1.2%

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

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 1998, exports from Indonesia include an additional 9.3 million short tons of exports from other countries not included in the forecast period.

5/ In 1998, coal exports to America includes a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1998, the balancing item amounted to 26.2 million short tons.

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Sources: 1998 data: International Energy Agency, Coal Information 1998,(Paris, France, July 1999); and Energy Information Administration, Quarterly Coal Report, October-December 1998, DOE/EIA-0121(98/4Q) (Washington, DC, July 1999). Projections: AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 95. Indicators of Macroeconomic Activity (1 of 2)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Real Output, National(billion 1987 dollars)																							
Total Industrial	4125.9	4244.5	4309.9	4426.0	4554.6	4659.5	4769.9	4857.3	4957.4	5050.5	5122.8	5216.4	5286.7	5379.0	5493.0	5612.8	5730.1	5798.5	5888.1	5979.7	6076.8	6170.9	1.8%
Total Manufacturing	3290.8	3387.1	3445.6	3546.1	3660.2	3746.4	3837.9	3911.4	3998.7	4081.2	4146.1	4227.3	4289.8	4369.5	4467.5	4566.2	4663.1	4722.5	4801.2	4879.7	4960.5	5040.4	2.0%
Coal Mining	30.4	30.6	31.4	32.0	32.6	33.2	33.4	33.6	33.7	33.9	33.9	33.9	34.0	34.0	34.1	34.3	34.6	34.7	35.0	35.1	35.4	35.6	0.7%
Oil and Gas Extraction	79.3	78.1	76.2	75.6	76.0	76.2	77.3	78.6	80.1	81.2	81.9	83.6	84.7	85.9	87.2	88.7	90.4	91.4	92.4	93.2	93.8	94.3	0.8%
Refining	140.6	143.5	144.5	146.8	147.6	150.1	152.6	154.6	157.2	157.9	158.4	159.0	158.9	159.4	159.9	160.4	161.2	161.4	162.0	162.4	163.0	163.6	0.7%
Paper	127.6	132.1	134.5	136.7	139.1	141.2	143.4	145.1	146.6	148.1	149.3	150.9	151.8	153.2	154.8	156.8	158.8	160.1	161.3	162.5	164.0	165.6	1.2%
Chemicals	288.3	295.1	300.6	306.9	314.9	320.7	326.5	331.1	336.6	341.9	346.9	352.7	357.2	363.3	369.9	376.5	382.4	387.6	393.6	399.3	405.7	412.3	1.6%
Stone, Clay, and Glass	71.6	73.9	74.3	75.0	76.2	77.4	78.6	79.2	79.9	80.3	80.3	80.9	80.5	81.1	81.9	83.0	83.8	83.6	83.7	84.2	84.7	85.1	0.8%
Primary Metals	149.7	149.4	151.8	153.8	156.9	159.4	161.5	161.7	163.1	164.0	164.0	165.0	164.7	166.0	167.2	168.5	169.2	169.1	169.4	169.7	170.5	171.1	0.6%
Basic Steel	68.1	66.9	68.4	69.2	70.9	72.3	73.4	73.2	74.0	74.3	74.1	74.5	74.2	74.8	75.3	75.8	76.1	76.0	76.0	76.3	76.8	77.0	0.6%
Primary Aluminum	30.1	30.3	30.4	30.8	30.9	31.3	31.5	31.6	31.7	31.9	31.9	32.0	32.1	32.3	32.5	32.7	32.8	33.0	33.0	33.0	33.1	33.3	0.5%
Fabricated Metals	186.6	191.9	193.9	198.8	205.7	209.4	213.7	215.9	218.6	220.4	221.6	223.7	224.5	226.4	229.5	233.2	236.1	236.5	237.6	238.9	241.4	243.3	1.2%
Industrial Machinery	333.6	343.0	357.8	379.1	395.3	407.4	421.0	431.4	443.4	456.1	464.4	476.0	483.6	493.0	508.4	525.3	544.3	555.3	567.2	580.9	596.1	611.2	2.8%
Electrical Machinery	389.0	431.0	458.5	494.8	529.4	559.3	588.7	620.8	654.0	686.1	713.5	741.2	769.1	802.2	833.3	861.8	892.4	919.5	952.6	981.6	1005.7	1027.5	4.5%
Transportation Equipment	425.0	418.2	413.5	422.3	443.3	452.7	465.9	473.3	486.7	499.5	509.4	522.6	531.9	542.6	559.5	574.9	588.0	590.6	599.7	610.3	623.2	636.6	1.9%
Real Disposable Income by Census Division (billion 1992 dollars)																							
New England	320	337	344	351	358	366	374	380	387	394	401	408	415	421	428	437	446	452	459	466	474	482	1.9%
Middle Atlantic	863	905	922	938	954	974	992	1009	1025	1041	1058	1075	1089	1105	1122	1143	1163	1180	1196	1214	1233	1254	1.7%
East North Central	874	915	932	950	968	990	1011	1031	1051	1070	1088	1107	1123	1140	1159	1181	1205	1223	1241	1261	1282	1304	1.8%
West North Central	345	363	371	379	388	398	407	416	426	435	445	455	463	472	482	492	503	513	522	531	541	552	2.2%
South Atlantic	937	1006	1034	1062	1092	1127	1161	1194	1228	1262	1297	1334	1368	1403	1442	1486	1531	1571	1612	1656	1702	1750	2.9%
East South Central	269	284	291	298	304	312	320	327	334	342	349	357	364	371	379	388	398	406	415	424	434	444	2.3%
West South Central	535	574	590	607	623	642	661	679	697	716	734	754	772	791	811	834	858	879	900	923	947	971	2.7%
Mountain	298	329	340	355	367	381	394	406	418	431	442	455	465	477	491	507	525	541	559	579	600	623	3.4%
Pacific	907	952	976	997	1022	1055	1087	1120	1154	1188	1223	1260	1294	1330	1370	1412	1454	1490	1524	1559	1594	1628	2.7%
United States	5348	5665	5801	5936	6076	6246	6406	6562	6722	6879	7038	7204	7353	7509	7684	7881	8083	8256	8428	8613	8807	9008	2.4%
Non-Agricultural Employment by Census Division (millions)																							
New England	6.7	6.8	6.8	6.9	6.9	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.1	0.2%
Middle Atlantic	17.6	17.8	17.8	17.8	17.9	18.0	18.0	18.1	18.1	18.1	18.1	18.2	18.2	18.1	18.1	18.2	18.2	18.2	18.1	18.1	18.0	17.9	0.1%
East North Central	21.6	21.8	21.8	21.9	22.1	22.2	22.3	22.5	22.5	22.6	22.7	22.7	22.7	22.7	22.8	22.8	22.9	22.9	22.9	22.9	22.8	22.8	0.2%
West North Central	9.5	9.7	9.7	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4	10.5	10.5	10.6	10.6	10.6	10.7	10.7	10.7	0.5%
South Atlantic	23.4	24.2	24.3	24.6	24.9	25.2	25.6	25.9	26.2	26.5	26.8	27.2	27.4	27.7	28.0	28.4	28.8	29.0	29.3	29.5	29.7	30.0	1.1%
East South Central	7.4	7.6	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9	8.0	8.0	8.0	8.1	8.1	8.1	8.2	8.2	8.2	8.3	8.3	8.3	0.5%
West South Central	13.4	13.9	14.0	14.2	14.4	14.6	14.7	14.9	15.1	15.2	15.4	15.5	15.7	15.8	15.9	16.1	16.3	16.4	16.5	16.6	16.7	16.8	1.0%
Mountain	8.0	8.7	8.8	9.0	9.2	9.4	9.5	9.6	9.7	9.8	9.8	9.8	9.8	9.8	9.8	9.9	10.1	10.3	10.4	10.6	10.9	11.2	1.6%
Pacific	18.6	19.2	19.3	19.5	19.7	20.0	20.2	20.5	20.7	20.9	21.1	21.3	21.5	21.7	21.8	22.1	22.3	22.5	22.6	22.7	22.9	23.0	1.0%
United States	126.2	129.7	130.2	131.2	132.6	133.9	135.3	136.5	137.5	138.5	139.2	140.1	140.8	141.5	142.3	143.4	144.6	145.4	145.9	146.5	147.1	147.8	0.7%

**Table 95. Indicators of Macroeconomic Activity (2 of 2)**

Notes: Totals may not equal sum of components due to independent rounding. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available. The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.  
Source: 1998: Standard & Poor's DRI, Simulation T250899. Projections: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 96. Imported Petroleum by Source (1 of 2)**  
**(Million Barrels Per Day)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Crude Oil																								
Canada	1.27	1.24	1.24	1.25	1.26	1.26	1.29	1.31	1.34	1.34	1.35	1.35	1.36	1.37	1.39	1.40	1.40	1.41	1.42	1.43	1.44	1.44	1.44	0.6%
Mexico	1.32	1.35	1.38	1.40	1.41	1.41	1.42	1.44	1.47	1.49	1.51	1.52	1.52	1.52	1.51	1.50	1.49	1.47	1.46	1.45	1.45	1.44	1.44	0.4%
North Sea	0.38	0.44	0.47	0.51	0.55	0.58	0.61	0.63	0.66	0.66	0.66	0.67	0.66	0.66	0.65	0.65	0.63	0.60	0.58	0.56	0.54	0.53	0.53	1.5%
OPEC	4.17	4.56	4.76	5.00	5.22	5.49	5.69	5.86	5.99	6.06	6.09	6.11	6.16	6.18	6.22	6.27	6.32	6.36	6.43	6.49	6.55	6.69	6.69	2.2%
Latin America	1.38	1.57	1.61	1.65	1.67	1.73	1.79	1.84	1.89	1.92	1.94	1.96	2.01	2.05	2.09	2.11	2.13	2.16	2.19	2.21	2.24	2.29	2.29	2.3%
North Africa	0.01	0.02	0.03	0.05	0.06	0.07	0.07	0.08	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	12.7%
West Africa	0.69	0.71	0.72	0.76	0.77	0.79	0.81	0.81	0.82	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72	0.72	0.2%
Indonesia	0.05	0.09	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.8%
Persian Gulf	2.04	2.17	2.30	2.43	2.61	2.79	2.91	3.03	3.08	3.10	3.11	3.11	3.12	3.12	3.13	3.18	3.23	3.24	3.29	3.34	3.38	3.48	3.48	2.5%
Other Middle East	0.01	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	3.2%
Other Latin America	0.65	0.59	0.59	0.62	0.63	0.65	0.67	0.68	0.68	0.67	0.67	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.56	-0.7%
Other Africa	0.75	0.77	0.79	0.83	0.85	0.85	0.86	0.87	0.89	0.91	0.92	0.92	0.89	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.3%
Other Asia	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.22	0.21	0.20	0.20	0.19	0.18	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.14	0.14	-0.6%
Light Refined Products 1/																								
Canada	0.25	0.37	0.40	0.40	0.41	0.42	0.43	0.43	0.41	0.43	0.39	0.41	0.40	0.41	0.42	0.42	0.42	0.43	0.44	0.44	0.45	0.46	0.46	2.8%
Northern Europe	0.10	0.12	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.16	0.17	0.16	0.16	0.17	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.16	2.2%
Southern Europe	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.05	0.05	0.06	0.05	0.06	0.06	0.06	0.06	0.0%
OPEC	0.27	0.36	0.39	0.39	0.42	0.46	0.48	0.51	0.53	0.58	0.61	0.71	0.74	0.83	0.95	1.05	1.11	1.17	1.21	1.29	1.33	1.40	1.40	7.8%
Latin America	0.19	0.25	0.26	0.26	0.27	0.28	0.29	0.30	0.31	0.33	0.34	0.41	0.43	0.48	0.55	0.59	0.64	0.67	0.70	0.74	0.76	0.80	0.80	6.8%
North Africa	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.07	0.07	0.05	0.06	0.05	0.06	0.05	0.06	0.06	0.06	0.8%
West Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Indonesia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Persian Gulf	0.03	0.06	0.08	0.08	0.10	0.12	0.13	0.15	0.16	0.18	0.21	0.24	0.25	0.28	0.33	0.39	0.42	0.44	0.46	0.49	0.51	0.54	14.0%	
Caribbean Basin	0.27	0.62	0.64	0.64	0.65	0.69	0.70	0.72	0.74	0.77	0.83	0.89	0.98	1.03	1.11	1.22	1.32	1.38	1.44	1.51	1.58	1.67	8.6%	
Asian Exporters	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	2.2%
Other	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	2.8%



**Table 96. Imported Petroleum by Source (2 of 2)  
(Million Barrels Per Day)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Heavy Refined Products 2/																							
Canada	0.08	0.06	0.06	0.12	0.06	0.08	0.03	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.10	0.07	0.09	0.11	0.10	0.04	-3.1%
Northern Europe	0.09	0.08	0.07	0.08	0.13	0.09	0.09	0.06	0.07	0.06	0.09	0.06	0.10	0.13	0.09	0.05	0.08	0.11	0.14	0.09	0.11	0.11	0.9%
Southern Europe	0.03	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.8%
OPEC	0.47	0.32	0.38	0.35	0.35	0.35	0.36	0.38	0.34	0.41	0.49	0.48	0.48	0.50	0.53	0.58	0.61	0.63	0.65	0.69	0.73	0.78	2.3%
Latin America	0.15	0.13	0.13	0.13	0.14	0.15	0.16	0.16	0.15	0.18	0.23	0.20	0.20	0.21	0.22	0.24	0.25	0.26	0.27	0.29	0.31	0.33	3.6%
North Africa	0.23	0.10	0.11	0.09	0.08	0.07	0.05	0.04	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	0.02	-10.5%
West Africa	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Indonesia	0.02	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Persian Gulf	0.06	0.06	0.10	0.10	0.10	0.10	0.12	0.15	0.14	0.18	0.21	0.23	0.23	0.24	0.26	0.29	0.31	0.32	0.33	0.35	0.37	0.40	9.0%
Caribbean Basin	0.19	0.12	0.13	0.12	0.12	0.11	0.11	0.14	0.14	0.16	0.18	0.21	0.21	0.23	0.25	0.28	0.30	0.31	0.32	0.34	0.36	0.39	3.3%
Asian Exporters	0.05	0.02	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.3%
Other	0.03	0.02	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%

1/ Includes gasoline, distillate, jet fuel, and liquified petroleum gases.

2/ Includes residual fuel oil and other refined products.

OPEC = Organization of Petroleum Exporting Countries - Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Caribbean Basin = Bahama Islands, Columbia, Ecuador, Guatemala, Jamaica, Mexico, Netherlands Antilles, Panama, Puerto Rico, Trinidad and Tobago, and the Virgin Islands.

N/A = Not applicable.

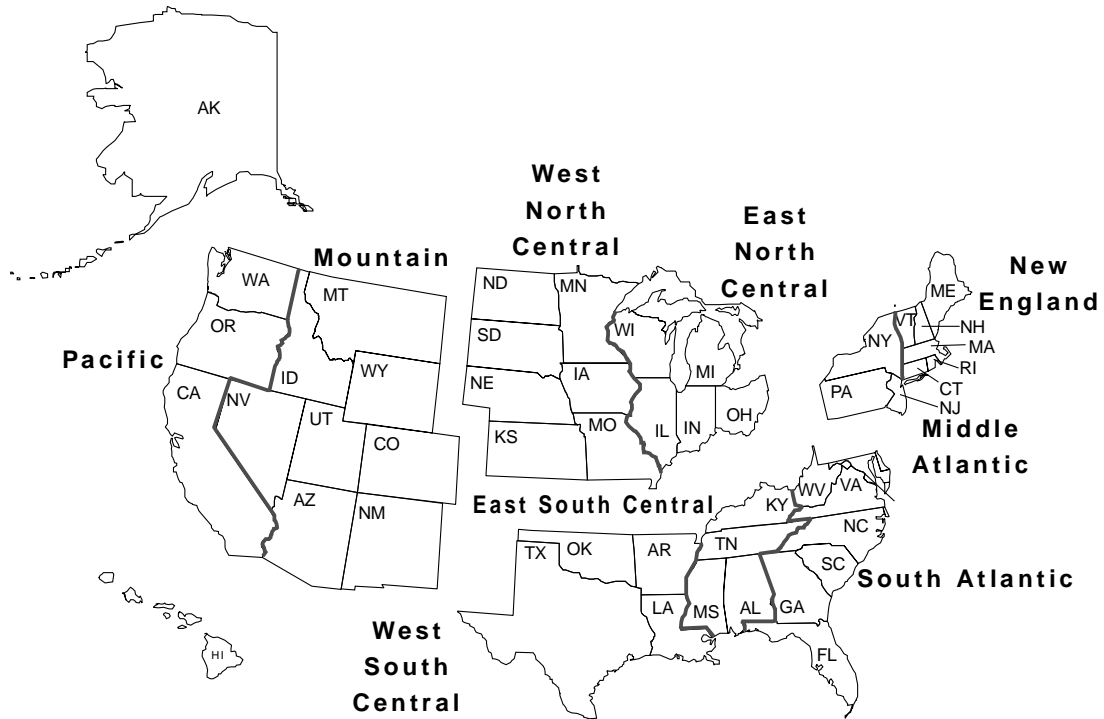
Notes: The historical data used for the projections were the most available as of July 31, 1999.

The numbers presented for 1998 are estimates and may differ from official EIA data reports. Also, please see EIA data publications and the Short-Term Energy Outlook for the latest estimates for 1999.

Source: Energy Information Administration, AEO2000 National Energy Modeling System run AEO2K.D100199A.

# MAPS

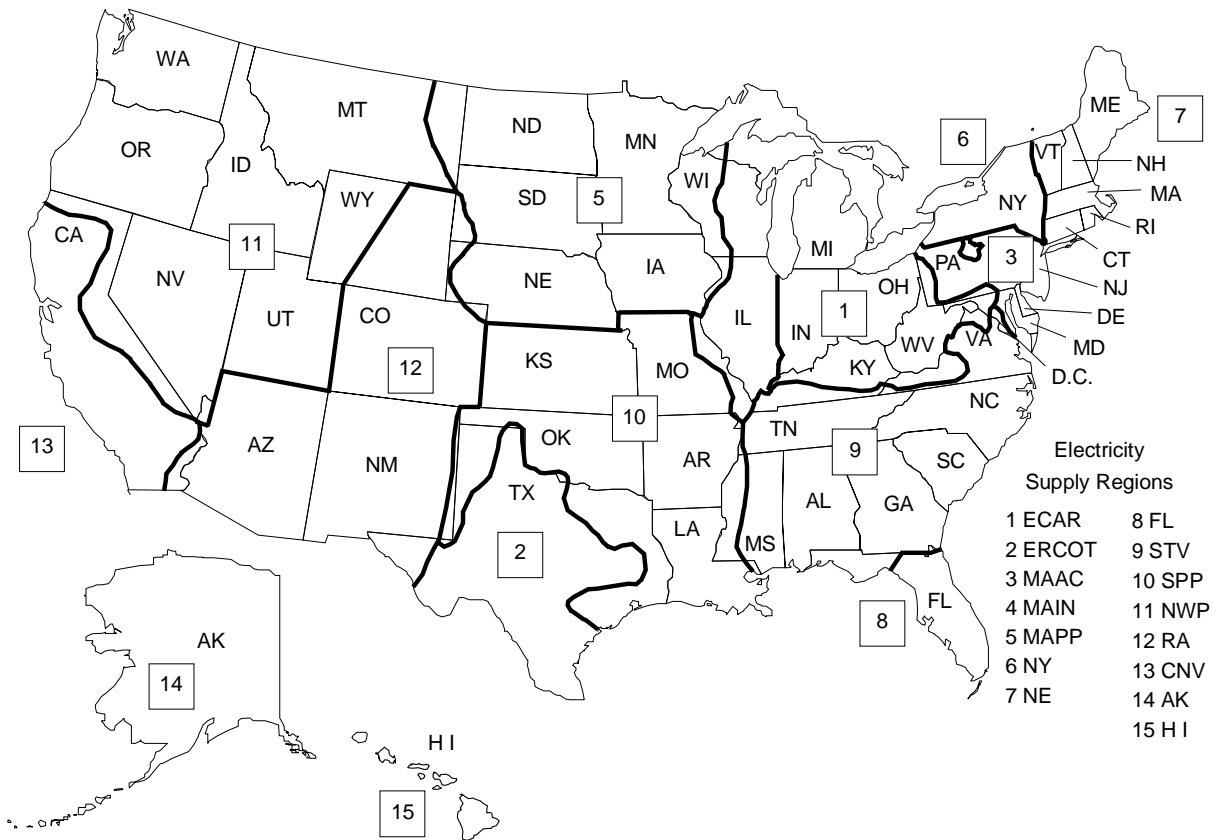
**Figure 1. United States Census Divisions**



<b><u>Division 1</u></b>	<b><u>Division 3</u></b>	<b><u>Division 5</u></b>	<b><u>Division 7</u></b>	<b><u>Division 9</u></b>
<b>New England</b>	<b>East North Central</b>	<b>South Atlantic</b>	<b>West South Central</b>	<b>Pacific</b>
Connecticut	Illinois	Delaware	Arkansas	Alaska
Maine	Indiana	District of Columbia	Louisiana	California
Massachusetts	Michigan	Florida	Oklahoma	Hawaii
New Hampshire	Ohio	Georgia	Texas	Oregon
Rhode Island	Wisconsin	Maryland		Washington
Vermont		North Carolina		
	<b><u>Division 4</u></b>	South Carolina	<b><u>Division 8</u></b>	
<b><u>Division 2</u></b>	<b>West North Central</b>	Virginia	<b>Mountain</b>	
<b>Middle Atlantic</b>	Iowa	West Virginia	Arizona	
New Jersey	Kansas		Colorado	
New York	Minnesota	<b><u>Division 6</u></b>	Idaho	
Pennsylvania	Missouri	<b>East South Central</b>	Montana	
	Nebraska	Alabama	Nevada	
	North Dakota	Kentucky	New Mexico	
	South Dakota	Mississippi	Utah	
		Tennessee	Wyoming	

Source: Energy Information Administration, Office of Integrated Analysis and Forecasting.

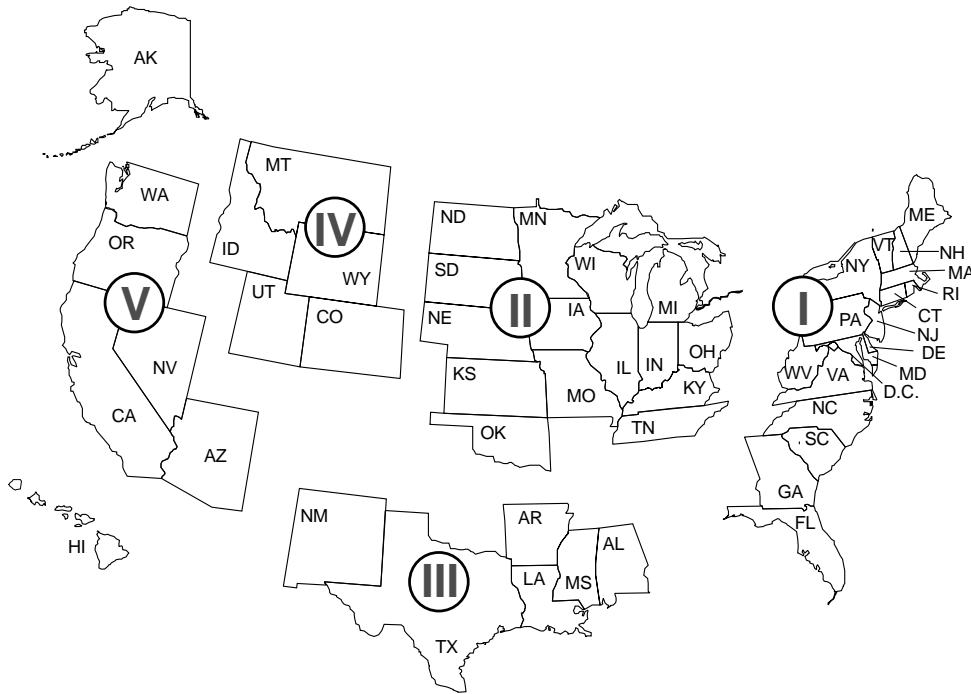
**Figure 2. Electricity Market Module (EMM) Regions**



- 1. ECAR = East Central Area Reliability Coordination Agreement
- 2. ERCOT = Electric Reliability Council of Texas
- 3. MAAC = Mid-Atlantic Area Council
- 4. MAIN = Mid-America Interconnected Network
- 5. MAPP = Mid-Continent Area Power Pool
- 6. NY = Northeast Power Coordinating Council/ New York
- 7. NE = Northeast Power Coordinating Council/ New England
- 8. FL = Southeastern Electric Reliability Council/ Florida
- 9. STV = Southeastern Electric Reliability Council /excluding Florida
- 10. SPP = Southwest Power Pool
- 11. NWP = Western Systems Coordinating Council/ Northwest Power Pool Area
- 12. RA = Western Systems Coordinating Council/ Rocky Mountain Power Area and
- 13. CNV = Western Systems Coordinating Council/ California-Southern Nevada Power
- 14. AK = Alaska
- 15. HI = Hawaii

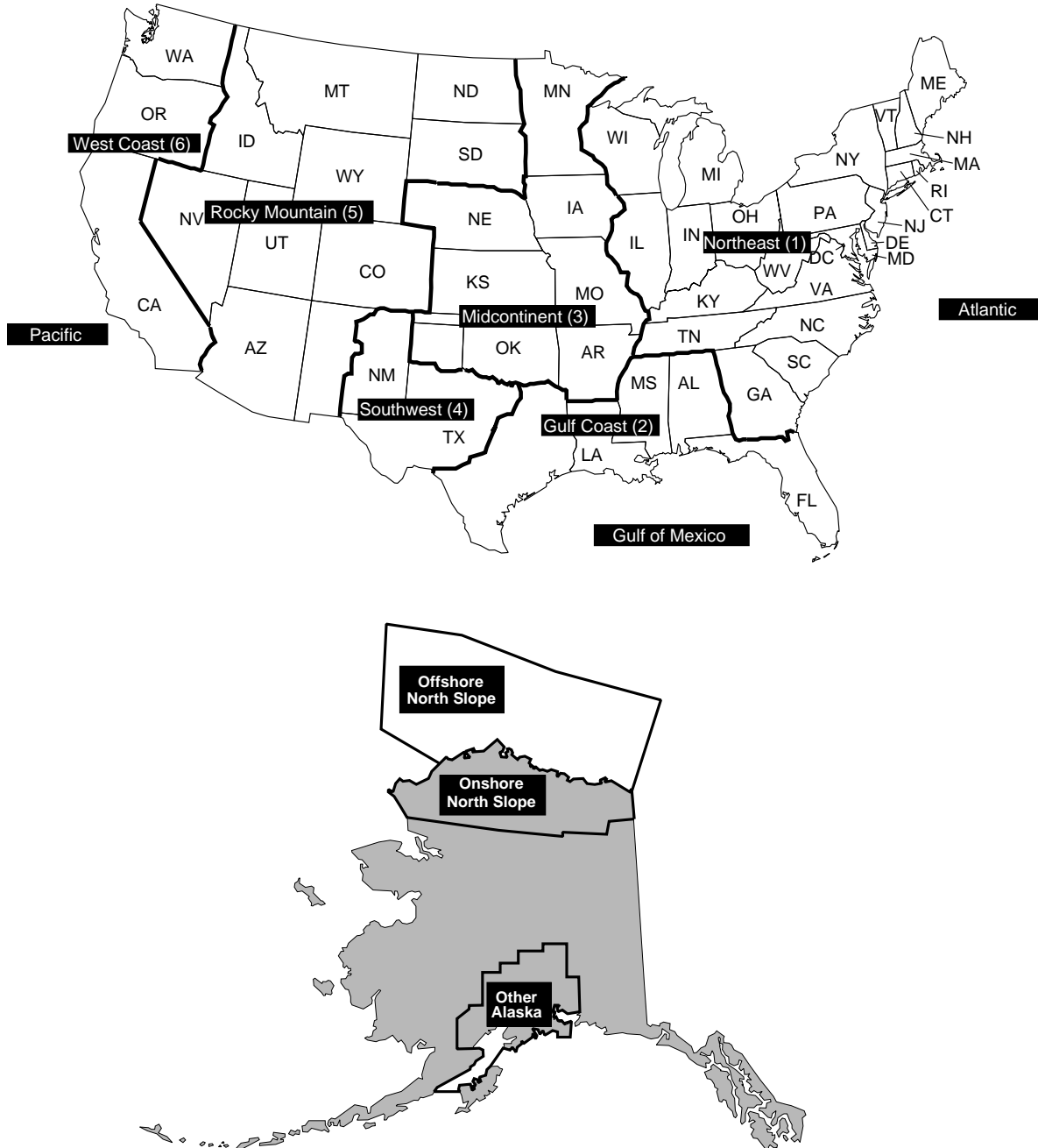
Source: Energy Information Administration, Office of Integrated Analysis and Forecasting.

**Figure 3. Petroleum Administration for Defense Districts**



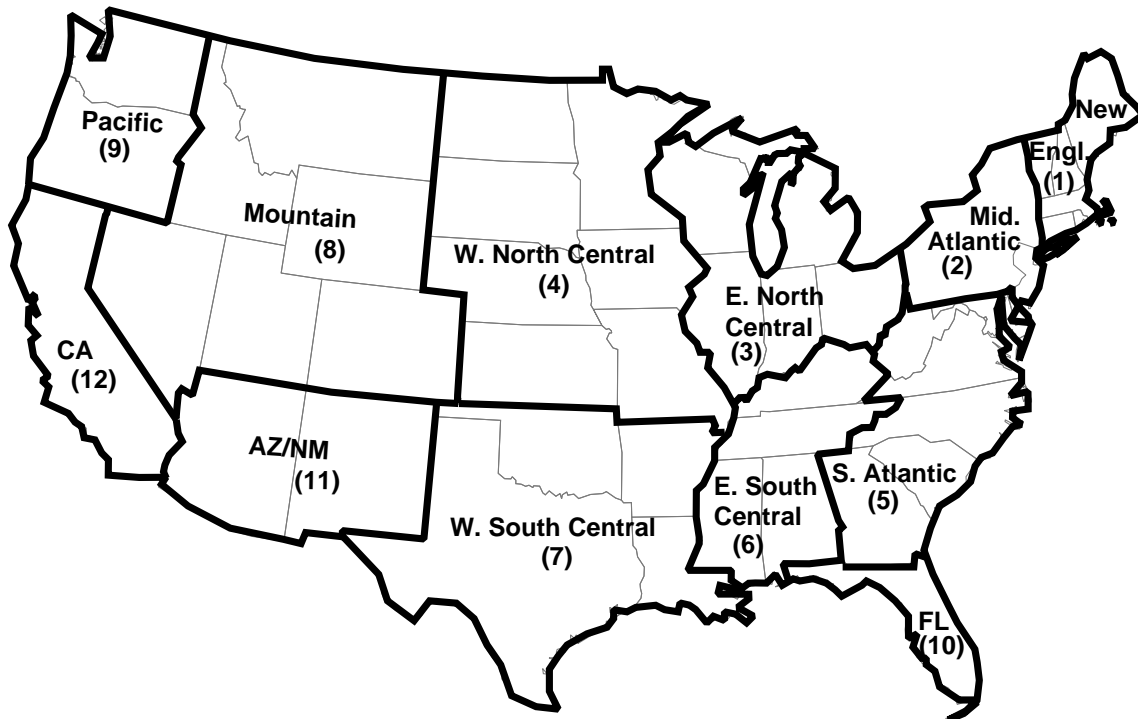
Source: Energy Information Administration, Office of Integrated Analysis and Forecasting.

**Figure 4. Oil and Gas Supply Model Regions**



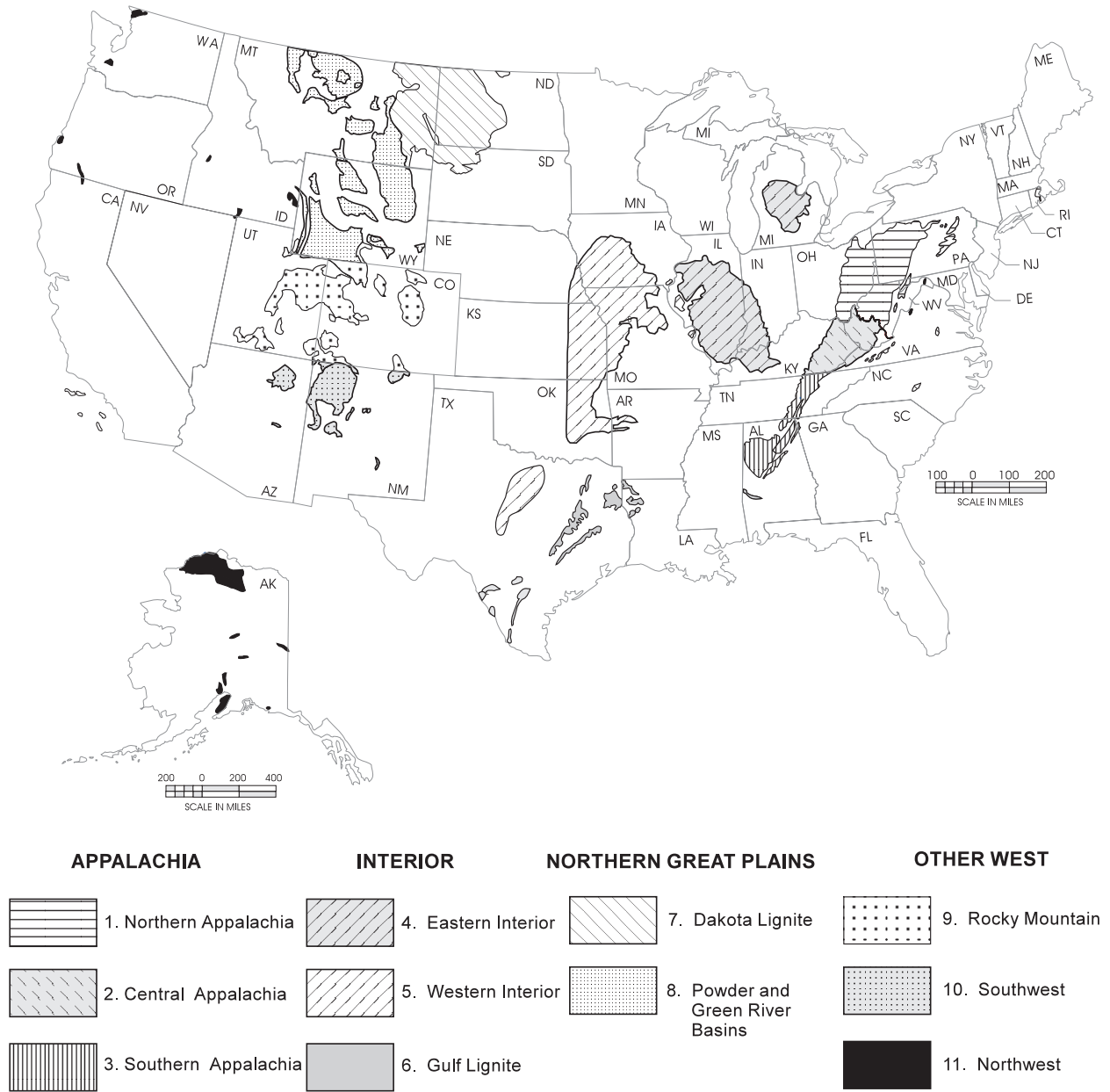
Source: Energy Information Administration, Office of Integrated Analysis and Forecasting.

Figure 5. Natural Gas Transmission and Distribution Model Regions



Source: Energy Information Administration: Office of Integrated Analysis and Forecasting.

**Figure 6. Coal Market Module (CMM) Regional Map**



Source: Office of Integrated Analysis and Forecasting.