

Table 62. Electric Power Projections for EMM Region  
 East Central Area Reliability Coordination Agreement - 01

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	84.89	85.17	84.80	84.45	84.45	84.45	84.45	84.33	83.07	82.48	82.13	82.13	82.09
Other Fossil Steam 2/	3.96	3.75	3.75	3.75	3.75	3.75	3.75	3.71	2.09	1.31	1.31	1.31	1.31
Combined Cycle	11.66	11.66	11.66	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92
Combustion Turbine/Diesel	20.38	20.73	20.71	20.71	20.71	20.71	20.71	20.71	18.34	18.34	18.34	18.34	18.34
Nuclear Power	7.73	7.74	7.74	7.74	7.74	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
Pumped Storage/Other 3/	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.63	1.64	1.64	1.64	1.64	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capacity	133.74	134.19	133.80	134.71	134.71	134.83	134.83	134.67	129.42	128.05	127.70	127.70	127.66
<b>Cumulative Planned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
Combustion Turbine/Diesel	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.02	1.28	1.28	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
<b>Cumulative Unplanned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative Total Additions	0.00	0.00	0.02	1.28	1.28	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.36	0.72	0.72	0.72	0.72	0.84	2.10	2.68	3.04	3.04	3.08
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.66	2.44	2.44	2.44	2.44
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	2.41	2.41	2.41	2.41	2.41
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.41	0.77	0.77	0.77	0.77	0.93	6.17	7.54	7.89	7.89	7.93
<b>End-Use Sectors 8/</b>													
Coal	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Petroleum	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Natural Gas	0.28	0.27	0.27	0.31	0.32	0.32	0.33	0.35	0.35	0.36	0.38	0.39	0.40

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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Renewable Sources 4/	0.18	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22
Other	0.20	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Total	1.69	1.64	1.65	1.69	1.70	1.72	1.73	1.75	1.76	1.78	1.79	1.81	1.82
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	169.01	183.24	184.08	186.11	189.61	191.86	194.70	196.88	199.61	201.25	203.24	205.25	207.78
Commercial/Other	146.82	150.94	151.66	153.93	156.94	159.40	161.88	164.75	167.95	171.27	174.36	177.29	180.09
Industrial	208.06	208.49	206.67	210.56	211.45	212.25	214.54	216.64	218.90	220.68	221.94	223.28	224.37
Transportation	3.44	3.47	3.48	3.51	3.55	3.59	3.62	3.64	3.66	3.69	3.71	3.73	3.75
Total Sales	527.33	546.15	545.89	554.11	561.55	567.10	574.74	581.92	590.13	596.88	603.25	609.55	615.99
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	2.14	1.77	0.88	0.10	0.09	0.09	0.11	0.11	0.11	0.12	0.18	0.15	0.19
Gross International Exports	5.59	5.09	3.55	3.62	3.16	3.74	3.37	3.30	3.23	3.17	3.10	3.04	2.98
Gross Interregional Electricity Imports	10.18	9.73	11.96	5.84	5.38	6.79	6.98	9.86	11.09	13.39	11.64	13.88	14.34
Gross Interregional Electricity Exports	23.62	44.57	60.40	58.75	54.52	60.27	61.61	64.00	53.56	57.01	57.63	53.59	50.83
Purchases from Combined Heat and Power 8/	1.22	1.09	1.15	1.22	1.23	1.23	1.25	1.26	1.28	1.29	1.30	1.32	1.33
Electric Power Sector Generation for Customers	585.13	608.43	630.56	644.21	647.57	657.91	666.35	672.99	669.57	677.37	685.92	685.92	689.40
Total Net Energy for Load	569.46	571.37	580.60	589.00	596.59	602.02	609.71	616.92	625.25	631.99	638.31	644.63	651.45
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	494.57	514.12	522.82	528.04	530.97	539.18	547.38	554.70	551.95	559.98	568.14	564.78	567.72
Petroleum	6.44	6.41	3.47	3.56	3.72	3.93	4.08	4.14	4.08	4.17	3.63	3.62	3.68
Natural Gas	20.15	21.88	44.58	44.56	44.79	44.34	44.54	44.93	45.02	45.13	45.76	46.33	46.64
Nuclear	60.51	62.30	55.08	61.80	61.61	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95
Pumped Storage/Other 3/	-1.67	-1.43	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78
Renewable Sources 4/	6.81	6.65	7.83	9.47	9.69	11.73	11.62	10.50	9.80	9.36	9.67	12.46	12.64
Total Generation	586.81	609.93	631.99	645.64	649.00	659.35	667.79	674.43	671.01	678.82	687.37	687.37	690.85
Sales to Customers	585.13	608.43	630.56	644.21	647.57	657.91	666.35	672.99	669.57	677.37	685.92	685.92	689.40
Generation for Own Use	1.68	1.49	1.43	1.43	1.43	1.44	1.44	1.45	1.45	1.45	1.45	1.45	1.45
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	4.38	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
Petroleum	0.09	0.09	0.09	0.18	0.18	0.18	0.18	0.21	0.21	0.21	0.21	0.21	0.21
Natural Gas	0.67	0.63	0.63	0.71	0.74	0.77	0.80	0.83	0.86	0.89	0.93	0.96	0.99
Other Gaseous Fuels	0.09	0.08	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Renewable Sources 4/	1.63	1.52	1.55	1.58	1.59	1.61	1.64	1.67	1.70	1.74	1.77	1.79	1.83
Other	3.59	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87
Total	10.46	9.52	9.54	9.73	9.78	9.82	9.88	9.98	10.04	10.11	10.17	10.23	10.30
Sales to Utilities	1.22	1.09	1.15	1.22	1.23	1.23	1.25	1.26	1.28	1.29	1.30	1.32	1.33
Generation for Own Use	9.24	8.42	8.39	8.51	8.55	8.58	8.63	8.71	8.77	8.82	8.87	8.92	8.97
Total Electricity Generation	597.27	619.45	641.53	655.37	658.78	669.17	677.67	684.41	681.06	688.92	697.54	697.60	701.15
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	7.7	7.6	7.3	8.5	8.3	8.3	8.2	8.2	8.1	8.1	8.1	8.1	8.2
Commercial	7.0	7.0	7.4	8.2	8.2	8.2	8.1	8.0	7.8	7.7	7.7	7.7	7.8
Industrial	4.5	4.6	5.6	6.5	6.7	6.6	6.4	6.1	5.8	5.7	5.7	5.7	5.8

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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	7.6	7.1	7.3	7.1	7.1	7.0	7.0	6.9	6.8	6.7	6.7	6.7	6.8
All Sectors Average	6.3	6.3	6.7	7.7	7.7	7.6	7.5	7.3	7.1	7.1	7.1	7.1	7.2
Prices by Service Category (2005 cents per kilowatthour)													
Generation	4.2	4.2	4.6	5.5	5.5	5.5	5.3	5.2	5.0	4.9	4.9	4.9	5.0
Transmission	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
Distribution	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	4.84	5.35	5.42	5.48	5.52	5.61	5.70	5.77	5.73	5.81	5.89	5.85	5.89
Natural Gas	0.20	0.22	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.37
Oil	0.07	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04
Total	5.12	5.65	5.81	5.86	5.91	6.00	6.09	6.16	6.13	6.21	6.28	6.26	6.30
Fuel Prices (dollars per million Btu)													
Coal	1.24	1.21	1.40	1.51	1.69	1.69	1.84	1.87	1.86	1.89	1.87	1.85	1.84
Natural Gas	5.21	6.96	6.37	6.66	6.28	5.70	5.39	4.98	4.83	4.64	4.68	4.63	4.74
Distillate Fuel Oil	9.87	11.62	14.51	15.93	14.38	13.22	12.12	10.98	9.99	9.13	9.02	9.09	9.11
Residual Fuel Oil	5.30	7.54	9.08	8.23	7.65	7.05	6.55	6.16	5.83	5.67	5.51	5.57	5.57
Biomass	1.15	1.20	1.30	1.61	1.65	1.87	1.86	1.81	1.80	1.77	1.77	1.89	1.88
Emissions 10/													
Total Carbon (million tons)	147.84	158.46	159.82	161.52	162.81	165.40	167.93	170.01	168.82	171.13	173.52	172.70	173.79
Carbon Dioxide (million tons)	542.09	581.03	586.02	592.25	596.98	606.47	615.74	623.38	619.02	627.48	636.24	633.23	637.21
Sulfur Dioxide (million tons)	3.21	3.32	3.38	3.20	2.60	2.26	1.68	1.40	1.28	1.24	1.22	1.12	1.09
Nitrogen Oxide (million tons)	0.90	0.86	0.97	0.94	0.94	0.36	0.37	0.37	0.35	0.35	0.35	0.28	0.27
Mercury (tons)	11.49	12.58	12.62	12.35	11.65	10.74	8.54	8.41	8.08	7.91	6.39	5.71	5.25

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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	-0.1%
Other Fossil Steam 2/	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	-4.1%
Combined Cycle	12.92	12.92	12.92	13.66	14.81	15.97	17.05	17.95	18.04	18.17	18.17	18.17	18.17	18.17	1.8%
Combustion Turbine/Diesel	18.34	18.34	18.34	18.34	18.34	18.47	18.65	18.65	18.65	19.59	21.21	22.43	23.97	25.66	0.9%
Nuclear Power	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	0.1%
Pumped Storage/Other 3/	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	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	N/A
Renewable Sources 4/	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.71	1.71	1.71	1.71	0.2%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.05	0.12	0.21	0.24	0.27	0.30	N/A
<b>Total Capacity</b>	<b>127.66</b>	<b>127.66</b>	<b>127.66</b>	<b>128.40</b>	<b>129.55</b>	<b>130.85</b>	<b>132.12</b>	<b>133.02</b>	<b>133.14</b>	<b>134.29</b>	<b>136.04</b>	<b>137.29</b>	<b>138.86</b>	<b>140.58</b>	<b>0.2%</b>
<b>Cumulative Planned Additions 6/</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	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	N/A
Combined Cycle	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	N/A
Combustion Turbine/Diesel	0.02	0.02	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
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	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	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	N/A
Renewable Sources 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</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	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	N/A
Combined Cycle	0.00	0.00	0.00	0.73	1.89	3.05	4.13	5.02	5.12	5.25	5.25	5.25	5.25	5.25	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.13	0.31	0.31	0.31	1.26	2.87	4.09	5.63	7.32	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.05	0.12	0.21	0.24	0.27	0.30	N/A
<b>Total Unplanned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.73</b>	<b>1.89</b>	<b>3.18</b>	<b>4.46</b>	<b>5.36</b>	<b>5.48</b>	<b>6.63</b>	<b>8.38</b>	<b>9.62</b>	<b>11.19</b>	<b>12.91</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>1.30</b>	<b>1.30</b>	<b>1.30</b>	<b>2.04</b>	<b>3.19</b>	<b>4.49</b>	<b>5.76</b>	<b>6.66</b>	<b>6.78</b>	<b>7.93</b>	<b>9.68</b>	<b>10.93</b>	<b>12.50</b>	<b>14.22</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	N/A
Other Fossil Steam 3/	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	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	N/A
Combustion Turbine/Diesel	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>7.93</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	0.97	0.97	0.97	0.97	0.97	0.97	0.97	1.80	4.02	5.12	5.08	5.94	5.95	5.95	7.5%
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	0.7%
Natural Gas	0.41	0.42	0.43	0.45	0.46	0.48	0.49	0.51	0.52	0.54	0.55	0.57	0.59	0.60	3.3%

Table 62. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement - 01

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.4%
Renewable Sources 4/	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.28	0.30	0.31	0.33	2.6%
Other	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
Total	1.84	1.85	1.87	1.89	1.91	1.93	1.96	2.81	5.05	6.18	6.16	7.05	7.10	7.12	6.1%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	209.26	211.30	213.51	216.22	217.34	219.26	221.15	223.53	224.87	226.83	228.75	231.06	232.13	233.77	1.0%
Commercial/Other	182.83	185.48	188.20	190.98	193.84	196.88	200.03	203.06	206.50	210.06	213.84	217.67	221.49	225.39	1.6%
Industrial	224.34	223.72	224.34	224.76	225.21	225.93	225.76	226.11	227.30	228.35	229.65	230.57	230.77	231.61	0.4%
Transportation	3.78	3.80	3.82	3.84	3.86	3.87	3.89	3.90	3.91	3.93	3.94	3.95	3.97	3.98	0.5%
Total Sales	620.21	624.30	629.86	635.80	640.24	645.94	650.83	656.60	662.59	669.17	676.18	683.25	688.36	694.74	1.0%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	0.21	0.20	0.93	0.17	0.51	0.54	0.51	0.61	0.65	0.59	0.59	0.56	0.59	0.60	-4.3%
Gross International Exports	2.92	2.86	2.81	2.75	2.70	2.64	2.59	2.54	2.49	2.49	2.49	2.49	2.49	2.49	-2.8%
Gross Interregional Electricity Imports	14.44	14.73	14.90	13.63	8.91	6.58	4.81	4.68	3.91	5.05	6.57	7.39	12.48	12.86	1.1%
Gross Interregional Electricity Exports	49.56	43.96	38.35	35.17	36.25	42.35	44.46	42.75	39.98	34.13	24.92	18.98	13.10	4.91	-8.4%
Purchases from Combined Heat and Power 8/	1.34	1.36	1.37	1.39	1.40	1.42	1.44	5.48	16.24	21.60	21.39	25.60	25.69	25.68	13.5%
Electric Power Sector Generation for Customers	692.41	690.79	690.11	695.15	705.25	719.61	728.60	729.15	722.38	717.11	714.00	710.54	704.84	703.01	0.6%
Total Net Energy for Load	655.91	660.25	666.15	672.42	677.14	683.16	688.31	694.64	700.71	707.73	715.13	722.61	728.02	734.74	1.0%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	568.41	565.93	565.59	564.85	566.74	570.83	571.54	570.33	569.90	569.67	569.49	570.28	572.99	574.67	0.4%
Petroleum	3.92	4.00	3.99	3.96	4.02	4.12	4.27	4.40	4.39	4.39	4.45	4.45	4.46	4.47	-1.4%
Natural Gas	47.54	47.56	48.11	54.75	63.61	73.21	79.25	79.69	73.30	68.28	64.94	60.63	55.37	52.87	3.6%
Nuclear	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	0.0%
Pumped Storage/Other 3/	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	0.9%
Renewable Sources 4/	13.83	14.59	13.71	12.88	12.17	12.75	14.82	16.03	16.07	16.05	16.40	16.45	13.31	12.28	2.5%
Total Generation	693.86	692.24	691.56	696.60	706.70	721.06	730.05	730.60	723.83	718.56	715.45	711.99	706.29	704.46	0.6%
Sales to Customers	692.41	690.79	690.11	695.15	705.25	719.61	728.60	729.15	722.38	717.11	714.00	710.54	704.84	703.01	0.6%
Generation for Own Use	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	-0.1%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.05	0.09	0.10	0.12	0.13	N/A
<b>End-Use Sectors 8/</b>															
Coal	4.33	4.33	4.33	4.33	4.33	4.33	4.33	10.88	28.36	37.05	36.68	43.50	43.61	43.56	9.7%
Petroleum	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	3.4%
Natural Gas	1.03	1.07	1.11	1.16	1.21	1.25	1.30	1.34	1.39	1.44	1.49	1.53	1.59	1.64	3.9%
Other Gaseous Fuels	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	0.8%
Renewable Sources 4/	1.85	1.87	1.90	1.94	1.97	2.00	2.04	2.08	2.13	2.17	2.23	2.29	2.35	2.42	1.9%
Other	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	0.0%
Total	10.36	10.43	10.50	10.59	10.67	10.74	10.84	17.47	35.03	43.83	43.57	50.49	50.72	50.79	6.9%
Sales to Utilities	1.34	1.36	1.37	1.39	1.40	1.42	1.44	5.48	16.24	21.60	21.39	25.60	25.69	25.68	13.5%
Generation for Own Use	9.02	9.07	9.13	9.20	9.26	9.32	9.40	11.99	18.80	22.24	22.17	24.89	25.03	25.11	4.5%
Total Electricity Generation	704.22	702.67	702.06	707.19	717.37	731.81	740.90	748.08	758.88	762.45	759.10	762.58	757.13	755.37	0.8%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	0.4%
Commercial	8.0	8.1	8.2	8.2	8.3	8.3	8.3	8.3	8.4	8.3	8.3	8.3	8.4	8.3	0.7%
Industrial	5.9	6.0	6.0	6.1	6.1	6.1	6.1	6.2	6.2	6.1	6.1	6.2	6.2	6.2	1.2%

Table 62. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement - 01

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	6.9	6.9	6.9	6.9	7.0	6.9	6.9	7.0	7.0	6.9	6.9	6.9	7.0	6.9	-0.1%
All Sectors Average	7.3	7.4	7.5	7.5	7.6	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.6	0.8%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.1	5.2	5.3	5.3	5.4	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.5	5.4	1.0%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8%
Distribution	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	0.1%
Fuel Consumption (quadrillion Btu) 9/															
Coal	5.91	5.88	5.88	5.86	5.89	5.94	5.96	5.94	5.94	5.94	5.93	5.94	5.97	5.99	0.5%
Natural Gas	0.37	0.37	0.38	0.42	0.48	0.54	0.57	0.57	0.53	0.49	0.47	0.44	0.41	0.40	2.3%
Oil	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	-1.6%
Total	6.32	6.30	6.29	6.33	6.41	6.52	6.57	6.56	6.51	6.48	6.45	6.44	6.43	6.44	0.5%
Fuel Prices (dollars per million Btu)															
Coal	1.83	1.82	1.80	1.81	1.77	1.76	1.73	1.73	1.74	1.75	1.76	1.78	1.78	1.73	1.5%
Natural Gas	4.94	4.89	4.88	5.02	4.97	5.12	5.26	5.34	5.30	5.29	5.39	5.52	5.59	5.70	-0.8%
Distillate Fuel Oil	9.25	9.34	9.56	9.67	9.78	9.95	9.93	10.09	10.12	10.19	10.33	10.39	10.53	10.61	-0.4%
Residual Fuel Oil	5.70	5.73	5.92	5.98	6.09	6.22	6.16	6.29	6.31	6.40	6.44	6.49	6.58	6.64	-0.5%
Biomass	2.03	2.10	2.04	1.99	1.91	1.95	2.10	2.16	2.16	2.15	2.16	2.15	2.01	1.98	2.0%
Emissions 10/															
Total Carbon (million tons)	174.45	173.68	173.58	173.93	175.53	178.11	179.17	178.85	178.10	177.52	177.05	176.97	177.22	177.54	0.5%
Carbon Dioxide (million tons)	639.64	636.83	636.44	637.75	643.62	653.08	656.94	655.79	653.05	650.91	649.18	648.89	649.81	650.99	0.5%
Sulfur Dioxide (million tons)	1.02	0.97	0.99	0.98	0.99	0.98	0.96	0.95	0.93	0.91	0.92	0.92	0.92	0.93	-5.0%
Nitrogen Oxide (million tons)	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.24	0.24	0.24	0.24	0.24	0.24	-5.0%
Mercury (tons)	5.10	4.87	4.65	4.47	4.45	4.32	4.11	3.97	3.91	3.75	3.62	3.57	3.50	3.42	-5.1%

Table 62. Electric Power Projections for EMM Region  
East Central Area Reliability Coordination Agreement - 01

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 63. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas - 02

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20
Other Fossil Steam 2/	29.04	27.36	26.74	26.74	26.34	26.34	26.34	26.34	20.88	20.88	20.78	20.78	20.56
Combined Cycle	24.54	24.49	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Combustion Turbine/Diesel	6.09	6.77	6.76	6.76	7.38	7.46	7.47	7.60	7.64	7.76	8.22	8.93	9.92
Nuclear Power	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.93	4.93	5.07	5.07	5.07
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.88	2.46	3.07	4.39	4.54	4.69	4.84	4.99	5.13	5.28	5.43	5.58	5.58
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.11	0.16	0.21	0.24	0.28	0.31	0.35	0.39
<b>Total Capacity</b>	<b>81.61</b>	<b>81.14</b>	<b>81.63</b>	<b>82.95</b>	<b>83.41</b>	<b>83.68</b>	<b>83.88</b>	<b>84.20</b>	<b>79.03</b>	<b>79.34</b>	<b>80.02</b>	<b>80.92</b>	<b>81.73</b>
<b>Cumulative Planned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Combustion Turbine/Diesel	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
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.62	1.93	2.09	2.23	2.38	2.53	2.68	2.82	2.97	3.12	3.12
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.14</b>	<b>2.46</b>	<b>2.61</b>	<b>2.76</b>	<b>2.90</b>	<b>3.05</b>	<b>3.20</b>	<b>3.35</b>	<b>3.50</b>	<b>3.64</b>	<b>3.65</b>
<b>Cumulative Unplanned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.62	0.70	0.71	0.84	0.88	1.01	1.46	2.17	3.16
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.11	0.16	0.21	0.24	0.28	0.31	0.35	0.39
<b>Total Unplanned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.69</b>	<b>0.82</b>	<b>0.87</b>	<b>1.05</b>	<b>1.13</b>	<b>1.28</b>	<b>1.77</b>	<b>2.52</b>	<b>3.55</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.14</b>	<b>2.46</b>	<b>3.30</b>	<b>3.57</b>	<b>3.78</b>	<b>4.10</b>	<b>4.32</b>	<b>4.63</b>	<b>5.27</b>	<b>6.17</b>	<b>7.20</b>
<b>Cumulative Retirements 7/</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
Other Fossil Steam 3/	0.00	0.00	0.63	0.63	1.02	1.02	1.02	1.02	6.48	6.48	6.58	6.58	6.80
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.64</b>	<b>0.64</b>	<b>1.03</b>	<b>1.03</b>	<b>1.03</b>	<b>1.03</b>	<b>6.50</b>	<b>6.50</b>	<b>6.60</b>	<b>6.60</b>	<b>6.82</b>
<b>End-Use Sectors 8/</b>													
Coal	0.35	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Petroleum	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.11	0.11	0.11	0.11	0.11	0.11
Natural Gas	5.20	5.04	5.16	5.79	5.97	6.14	6.32	6.54	6.71	6.90	7.11	7.31	7.50

Table 63. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas - 02

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	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
Renewable Sources 4/	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
Other	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	5.86	5.69	5.81	6.44	6.62	6.79	6.97	7.20	7.38	7.57	7.78	7.97	8.17
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	105.14	111.66	116.84	117.07	119.89	122.25	124.88	127.23	129.58	131.26	133.14	135.13	137.38
Commercial/Other	82.86	91.09	92.18	94.05	97.61	99.77	101.73	103.92	105.88	107.75	109.52	111.36	113.19
Industrial	83.20	81.95	81.65	87.36	88.64	88.65	89.22	88.76	89.47	90.14	90.25	91.11	91.83
Transportation	1.54	1.57	1.59	1.62	1.65	1.68	1.70	1.73	1.75	1.77	1.80	1.82	1.85
Total Sales	272.74	286.27	292.26	300.10	307.79	312.35	317.53	321.64	326.68	330.92	334.71	339.43	344.24
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	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
Gross International Exports	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Gross Interregional Electricity Imports	0.88	2.37	5.48	4.55	2.03	2.03	2.04	2.04	2.04	1.95	1.86	1.77	1.98
Gross Interregional Electricity Exports	1.53	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.57	1.42	1.27	1.12	0.97
Purchases from Combined Heat and Power 8/	7.20	6.92	7.27	8.92	9.16	9.42	9.69	10.04	10.32	10.62	10.95	11.26	11.57
Electric Power Sector Generation for Customers	274.46	283.12	298.53	305.93	316.19	320.50	325.53	329.32	334.19	338.11	341.49	345.90	350.30
Total Net Energy for Load	280.74	290.59	309.46	317.58	325.55	330.13	335.45	339.58	344.71	348.99	352.77	357.54	362.61
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	113.70	115.27	106.72	106.89	105.90	106.57	107.16	107.73	108.40	108.97	109.66	109.60	109.73
Petroleum	1.39	1.40	0.73	0.73	0.73	0.80	0.88	1.00	0.94	1.18	1.18	1.18	1.18
Natural Gas	121.86	130.19	151.06	152.89	163.47	166.73	170.47	172.96	176.35	178.96	179.92	183.82	188.22
Nuclear	40.44	38.23	38.67	38.75	38.67	38.48	38.48	38.48	38.81	38.81	40.01	40.01	40.01
Pumped Storage/Other 3/	1.38	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	3.85	4.21	6.86	12.18	12.92	13.45	14.05	14.67	15.19	15.71	16.23	16.79	16.66
Total Generation	282.62	290.64	304.04	311.44	321.70	326.02	331.04	334.83	339.70	343.62	347.00	351.41	355.81
Sales to Customers	274.46	283.12	298.53	305.93	316.19	320.50	325.53	329.32	334.19	338.11	341.49	345.90	350.30
Generation for Own Use	8.16	7.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.05	0.07	0.09	0.11	0.12	0.14	0.15	0.17
<b>End-Use Sectors 8/</b>													
Coal	2.96	3.05	3.06	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
Petroleum	0.26	0.25	0.26	0.48	0.48	0.48	0.48	0.56	0.56	0.56	0.56	0.56	0.56
Natural Gas	28.35	26.50	26.77	29.90	31.18	32.36	33.61	35.16	36.37	37.68	39.15	40.50	41.87
Other Gaseous Fuels	0.24	0.20	0.16	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20
Renewable Sources 4/	0.19	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22
Other	2.06	1.65	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
Total	34.06	31.84	32.07	35.28	36.57	37.75	39.01	40.64	41.86	43.17	44.65	46.01	47.38
Sales to Utilities	7.20	6.92	7.27	8.92	9.16	9.42	9.69	10.04	10.32	10.62	10.95	11.26	11.57
Generation for Own Use	26.87	24.93	24.80	26.36	27.42	28.34	29.31	30.60	31.54	32.55	33.70	34.75	35.80
Total Electricity Generation	316.68	322.48	336.11	346.72	358.30	363.82	370.12	375.57	381.66	386.91	391.79	397.57	403.36
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	10.3	11.2	10.5	10.0	9.8	9.5	9.1	8.8	9.1	9.2	9.2	9.2	9.2
Commercial	8.3	9.0	9.5	9.3	9.2	8.9	8.6	8.2	8.5	8.5	8.5	8.5	8.6
Industrial	6.2	7.4	7.5	7.4	7.3	6.9	6.5	6.0	6.1	6.0	6.0	6.0	6.1

Table 63. Electric Power Projections for EMM Region  
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	8.0	8.1	8.3	8.3	8.3	8.1	7.9	7.6	7.9	7.9	8.0	7.9	8.0
All Sectors Average	8.4	9.4	9.3	9.0	8.9	8.6	8.2	7.8	8.1	8.1	8.1	8.1	8.2
Prices by Service Category (2005 cents per kilowatthour)													
Generation	5.8	6.8	6.8	6.5	6.4	6.0	5.7	5.3	5.6	5.6	5.6	5.6	5.7
Transmission	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Distribution	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.03	1.13	1.13	1.13	1.12	1.13	1.13	1.14	1.15	1.15	1.16	1.16	1.16
Natural Gas	1.12	1.19	1.27	1.28	1.36	1.38	1.41	1.42	1.45	1.47	1.48	1.50	1.54
Oil	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	2.17	2.33	2.40	2.42	2.48	2.51	2.55	2.57	2.61	2.63	2.65	2.68	2.71
Fuel Prices (dollars per million Btu)													
Coal	1.15	1.21	1.27	1.29	1.29	1.29	1.33	1.36	1.48	1.49	1.49	1.51	1.51
Natural Gas	6.06	8.09	7.24	7.43	7.07	6.48	6.22	5.77	5.63	5.51	5.55	5.50	5.65
Distillate Fuel Oil	9.35	11.56	14.33	15.13	13.84	12.61	11.54	10.33	9.37	8.60	8.50	8.56	8.54
Residual Fuel Oil	5.42	7.71	9.26	13.48	12.38	11.72	11.26	10.89	10.56	10.34	10.16	10.24	10.23
Biomass	0.73	0.73	0.73	1.04	1.14	1.50	1.61	1.70	1.78	1.82	1.87	1.88	1.89
Emissions 10/													
Total Carbon (million tons)	52.40	53.86	53.22	53.50	54.40	55.02	55.69	56.16	56.75	57.32	57.67	58.13	58.68
Carbon Dioxide (million tons)	192.13	197.49	195.14	196.16	199.48	201.74	204.18	205.91	208.07	210.19	211.45	213.13	215.14
Sulfur Dioxide (million tons)	0.30	0.27	0.26	0.27	0.26	0.21	0.21	0.21	0.21	0.20	0.19	0.19	0.19
Nitrogen Oxide (million tons)	0.13	0.13	0.17	0.17	0.17	0.14	0.12	0.12	0.12	0.12	0.12	0.10	0.10
Mercury (tons)	3.19	3.41	3.41	3.40	3.37	3.36	2.85	2.81	2.39	1.37	1.26	0.90	0.90

Table 63. Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	15.20	15.20	15.20	15.51	16.22	17.01	17.93	18.76	19.78	20.73	22.20	24.58	26.04	27.09	2.3%
Other Fossil Steam 2/	20.30	20.30	20.30	20.30	19.90	19.90	19.83	19.83	19.83	19.83	19.83	19.83	18.68	18.53	-1.5%
Combined Cycle	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.1%
Combustion Turbine/Diesel	10.64	11.31	12.16	12.58	13.06	13.13	13.13	13.25	13.25	13.25	13.25	13.25	13.25	13.25	2.7%
Nuclear Power	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	0.3%
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	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	N/A
Renewable Sources 4/	5.59	5.59	5.59	5.59	5.60	5.64	5.64	5.69	5.75	5.80	5.81	5.81	5.81	5.86	3.5%
Distributed Generation 5/	0.42	0.46	0.50	0.63	0.77	0.92	1.08	1.25	1.30	1.48	1.54	1.62	1.68	1.74	N/A
<b>Total Capacity</b>	<b>82.38</b>	<b>83.09</b>	<b>83.98</b>	<b>84.85</b>	<b>85.76</b>	<b>86.83</b>	<b>87.84</b>	<b>89.01</b>	<b>90.14</b>	<b>91.32</b>	<b>92.86</b>	<b>95.32</b>	<b>95.69</b>	<b>96.70</b>	<b>0.7%</b>
<b>Cumulative Planned Additions 6/</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	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	N/A
Combined Cycle	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
Combustion Turbine/Diesel	0.01	0.01	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
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	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	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	N/A
Renewable Sources 4/	3.12	3.13	3.13	3.13	3.13	3.13	3.14	3.14	3.14	3.14	3.14	3.15	3.15	3.15	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>3.65</b>	<b>3.65</b>	<b>3.65</b>	<b>3.65</b>	<b>3.65</b>	<b>3.66</b>	<b>3.66</b>	<b>3.66</b>	<b>3.66</b>	<b>3.66</b>	<b>3.67</b>	<b>3.67</b>	<b>3.67</b>	<b>3.67</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	0.00	0.00	0.00	0.31	1.02	1.80	2.73	3.55	4.58	5.53	7.00	9.38	10.83	11.89	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	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	N/A
Combustion Turbine/Diesel	3.88	4.55	5.40	5.82	6.30	6.37	6.37	6.49	6.49	6.49	6.49	6.49	6.49	6.49	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	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	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	N/A
Renewable Sources 4/	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.10	0.15	0.20	0.20	0.20	0.20	0.25	N/A
Distributed Generation 5/	0.42	0.46	0.50	0.63	0.77	0.92	1.08	1.25	1.30	1.48	1.54	1.62	1.68	1.74	N/A
<b>Total Unplanned Additions</b>	<b>4.31</b>	<b>5.01</b>	<b>5.90</b>	<b>6.77</b>	<b>8.09</b>	<b>9.15</b>	<b>10.23</b>	<b>11.39</b>	<b>12.53</b>	<b>13.71</b>	<b>15.24</b>	<b>17.70</b>	<b>19.22</b>	<b>20.37</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>7.95</b>	<b>8.66</b>	<b>9.55</b>	<b>10.42</b>	<b>11.74</b>	<b>12.81</b>	<b>13.88</b>	<b>15.05</b>	<b>16.19</b>	<b>17.37</b>	<b>18.91</b>	<b>21.37</b>	<b>22.89</b>	<b>24.05</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</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	N/A
Other Fossil Steam 3/	7.06	7.06	7.06	7.06	7.47	7.47	7.54	7.54	7.54	7.54	7.54	7.54	8.68	8.84	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	N/A
Combustion Turbine/Diesel	0.01	0.01	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
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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>7.08</b>	<b>7.08</b>	<b>7.08</b>	<b>7.08</b>	<b>7.48</b>	<b>7.48</b>	<b>7.55</b>	<b>7.55</b>	<b>7.55</b>	<b>7.55</b>	<b>7.55</b>	<b>7.55</b>	<b>8.70</b>	<b>8.85</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	-0.1%
Petroleum	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	0.7%
Natural Gas	7.75	7.98	8.22	8.52	8.79	9.05	9.36	9.61	9.88	10.22	10.49	10.76	11.10	11.40	3.3%

Table 63. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas - 02

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	2.6%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Total	8.43	8.65	8.89	9.20	9.47	9.72	10.04	10.29	10.57	10.91	11.18	11.46	11.80	12.10	3.1%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	138.95	140.83	142.88	145.29	146.80	148.77	150.76	153.06	154.75	156.88	159.04	161.53	163.17	165.18	1.6%
Commercial/Other	114.93	116.65	118.54	120.55	122.71	125.05	127.53	130.00	132.59	135.30	138.09	141.08	143.97	146.86	1.9%
Industrial	91.83	92.13	92.95	93.09	93.66	94.49	94.83	95.57	96.63	97.14	98.14	99.11	99.73	100.66	0.8%
Transportation	1.87	1.90	1.93	1.95	1.98	2.00	2.03	2.06	2.08	2.11	2.14	2.16	2.19	2.22	1.4%
Total Sales	347.59	351.50	356.30	360.88	365.15	370.31	375.15	380.69	386.06	391.44	397.41	403.88	409.07	414.92	1.5%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	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%
Gross International Exports	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	N/A
Gross Interregional Electricity Imports	2.17	2.08	3.69	4.20	4.04	3.51	3.19	5.17	5.17	5.17	5.17	5.17	5.10	5.08	3.1%
Gross Interregional Electricity Exports	0.82	0.67	0.52	0.37	0.21	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-12.0%
Purchases from Combined Heat and Power 8/	11.93	12.29	12.67	13.11	13.52	13.93	14.37	14.77	15.19	15.67	16.07	16.48	16.96	17.40	3.8%
Electric Power Sector Generation for Custome	353.12	356.82	359.73	363.46	367.54	372.96	377.93	381.39	386.63	391.81	397.69	404.11	409.15	414.90	1.5%
Total Net Energy for Load	366.13	370.26	375.31	380.13	384.62	390.06	395.15	400.99	406.65	412.31	418.60	425.42	430.88	437.04	1.6%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	109.63	109.64	109.63	111.92	117.10	122.66	129.30	135.43	143.13	150.11	161.07	178.84	189.71	197.69	2.2%
Petroleum	1.18	1.18	1.18	1.21	1.26	1.32	1.39	1.45	1.52	1.59	1.59	1.59	1.60	1.60	0.5%
Natural Gas	189.78	193.50	196.40	197.82	196.64	195.84	193.95	190.88	188.07	185.77	180.68	169.38	163.62	161.15	0.9%
Nuclear	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	0.3%
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	N/A
Renewable Sources 4/	16.81	16.79	16.80	16.80	16.82	17.42	17.58	17.92	18.20	18.63	18.64	18.58	18.52	18.75	6.2%
Total Generation	358.63	362.33	365.24	368.97	373.05	378.47	383.44	386.90	392.14	397.32	403.20	409.62	414.67	420.41	1.5%
Sales to Customers	353.12	356.82	359.73	363.46	367.54	372.96	377.93	381.39	386.63	391.81	397.69	404.11	409.15	414.90	1.5%
Generation for Own Use	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	-1.2%
Distributed Generation 5/	0.18	0.20	0.22	0.28	0.34	0.40	0.47	0.55	0.57	0.65	0.68	0.71	0.74	0.76	N/A
<b>End-Use Sectors 8/</b>															
Coal	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	-0.2%
Petroleum	0.56	0.57	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.59	0.59	3.4%
Natural Gas	43.43	45.21	46.87	49.01	50.86	52.66	54.84	56.61	58.50	60.85	62.74	64.63	67.01	69.06	3.9%
Other Gaseous Fuels	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.8%
Renewable Sources 4/	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.29	1.9%
Other	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	0.0%
Total	48.95	50.74	52.41	54.56	56.42	58.22	60.42	62.19	64.10	66.46	68.37	70.25	72.66	74.72	3.5%
Sales to Utilities	11.93	12.29	12.67	13.11	13.52	13.93	14.37	14.77	15.19	15.67	16.07	16.48	16.96	17.40	3.8%
Generation for Own Use	37.03	38.45	39.74	41.45	42.89	44.29	46.05	47.43	48.91	50.79	52.29	53.78	55.71	57.32	3.4%
Total Electricity Generation	407.77	413.28	417.86	423.81	429.80	437.09	444.33	449.64	456.80	464.43	472.24	480.58	488.07	495.89	1.7%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	9.4	9.6	9.6	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.7	9.6	9.7	9.8	-0.5%
Commercial	8.8	9.0	9.1	9.1	9.2	9.1	9.2	9.3	9.3	9.3	9.2	9.0	9.2	9.2	0.1%
Industrial	6.3	6.4	6.5	6.6	6.6	6.6	6.6	6.7	6.8	6.7	6.7	6.6	6.8	6.8	-0.4%

Table 63. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas - 02

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	8.2	8.4	8.4	8.5	8.5	8.5	8.5	8.6	8.6	8.6	8.6	8.5	8.6	8.7	0.3%
All Sectors Average	8.4	8.6	8.6	8.7	8.7	8.7	8.7	8.8	8.8	8.8	8.8	8.7	8.8	8.8	-0.3%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.9	6.1	6.1	6.2	6.2	6.2	6.3	6.4	6.5	6.5	6.4	6.3	6.4	6.5	-0.2%
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.6%
Distribution	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	-0.7%
Fuel Consumption (quadrillion Btu) 9/															
Coal	1.16	1.16	1.16	1.18	1.23	1.27	1.33	1.38	1.45	1.51	1.59	1.72	1.79	1.85	2.0%
Natural Gas	1.55	1.58	1.60	1.61	1.60	1.59	1.58	1.56	1.54	1.52	1.48	1.40	1.36	1.34	0.5%
Oil	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	-0.2%
Total	2.72	2.75	2.77	2.80	2.84	2.88	2.93	2.96	3.00	3.05	3.09	3.13	3.17	3.21	1.3%
Fuel Prices (dollars per million Btu)															
Coal	1.52	1.53	1.52	1.52	1.53	1.55	1.56	1.57	1.54	1.55	1.57	1.60	1.61	1.62	1.2%
Natural Gas	5.85	5.86	5.89	5.96	5.92	6.02	6.12	6.26	6.22	6.22	6.29	6.36	6.41	6.41	-0.9%
Distillate Fuel Oil	8.71	8.80	8.98	9.08	9.19	9.35	9.32	9.47	9.51	9.60	9.80	9.85	10.05	10.07	-0.6%
Residual Fuel Oil	10.35	10.39	10.56	10.64	10.76	10.85	10.78	10.92	10.95	11.05	11.09	11.11	11.22	11.27	1.5%
Biomass	1.91	1.82	1.81	1.79	1.83	1.85	1.81	1.86	1.86	1.89	1.89	1.88	1.88	1.88	3.9%
Emissions 10/															
Total Carbon (million tons)	58.82	59.29	59.67	60.42	61.58	62.87	64.31	65.50	67.08	68.56	70.25	72.60	74.20	75.58	1.4%
Carbon Dioxide (million tons)	215.68	217.40	218.79	221.55	225.81	230.53	235.80	240.16	245.95	251.40	257.59	266.21	272.07	277.14	1.4%
Sulfur Dioxide (million tons)	0.19	0.19	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	-2.4%
Nitrogen Oxide (million tons)	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-0.8%
Mercury (tons)	0.90	0.84	0.78	0.72	0.72	0.70	0.72	0.73	0.73	0.71	0.70	0.73	0.74	0.74	-5.9%

Table 63. Electric Power Projections for EMM Region  
Electric Reliability Council of Texas - 02

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 64. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council - 03

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	21.20	21.20	21.16	21.16	21.16	21.16	21.17	21.17	21.18	21.02	21.47	22.15	22.91
Other Fossil Steam 2/	7.95	7.65	7.65	7.65	7.65	7.65	7.65	7.65	5.07	5.07	5.07	5.07	5.07
Combined Cycle	11.96	11.94	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13
Combustion Turbine/Diesel	11.74	11.71	11.71	11.71	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03
Nuclear Power	13.28	13.30	13.30	13.32	13.32	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
Pumped Storage/Other 3/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	1.97	1.98	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.18	2.18	2.18
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.11
<b>Total Capacity</b>	<b>69.65</b>	<b>69.32</b>	<b>70.62</b>	<b>70.64</b>	<b>70.96</b>	<b>70.99</b>	<b>71.00</b>	<b>71.00</b>	<b>68.43</b>	<b>68.27</b>	<b>68.80</b>	<b>69.52</b>	<b>70.32</b>
<b>Cumulative Planned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.34</b>	<b>1.34</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	1.15	1.91
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.11
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.55</b>	<b>1.27</b>	<b>2.07</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.34</b>	<b>1.34</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>2.21</b>	<b>2.93</b>	<b>3.73</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.05	0.05	0.05	0.05	0.04	0.04	0.02	0.18	0.20	0.20	0.20
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.58	2.58	2.58	2.58
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>2.60</b>	<b>2.76</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>
<b>End-Use Sectors 8/</b>													
Coal	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
Petroleum	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
Natural Gas	0.35	0.34	0.34	0.39	0.40	0.41	0.42	0.44	0.45	0.46	0.47	0.49	0.50

Table 64. Electric Power Projections for EMM Region  
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Renewable Sources 4/	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14
Other	0.19	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Total	0.87	0.81	0.83	0.87	0.89	0.90	0.92	0.94	0.96	0.97	0.99	1.00	1.02
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	94.20	100.49	104.20	105.66	107.87	109.31	111.00	112.35	113.86	114.69	115.75	116.83	118.23
Commercial/Other	108.24	111.59	114.92	115.71	117.85	120.35	122.80	125.53	128.00	130.37	132.64	134.83	137.05
Industrial	57.75	58.15	58.92	59.13	58.84	58.80	59.16	59.61	59.94	60.15	60.33	60.43	60.62
Transportation	2.15	2.17	2.23	2.25	2.27	2.30	2.32	2.34	2.36	2.37	2.39	2.41	2.42
Total Sales	262.35	272.40	280.27	282.75	286.83	290.76	295.28	299.83	304.15	307.59	311.11	314.50	318.32
<b>Net Energy for Load (billion kilowatthours) 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
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	45.27	51.60	47.69	36.18	30.16	34.39	32.30	33.75	33.15	26.11	25.42	24.51	21.85
Gross Interregional Electricity Exports	5.25	19.07	11.54	5.78	3.33	5.29	5.29	11.54	3.52	0.59	1.15	5.11	4.02
Purchases from Combined Heat and Power 8/	1.10	1.04	1.12	1.43	1.45	1.48	1.50	1.54	1.57	1.60	1.63	1.66	1.69
Electric Power Sector Generation for Custome	271.46	279.30	261.11	269.00	276.74	278.38	284.89	288.05	291.08	298.59	303.33	311.56	317.12
Total Net Energy for Load	312.58	312.88	298.38	300.84	305.03	308.95	313.40	318.05	322.28	325.71	329.22	332.62	336.64
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	125.65	130.51	126.98	127.65	129.61	132.60	136.03	138.82	141.83	144.78	152.47	157.32	162.81
Petroleum	9.03	10.45	3.73	5.33	5.45	5.52	5.70	5.74	5.67	5.82	5.81	5.75	5.76
Natural Gas	25.52	26.75	15.38	18.32	24.64	23.51	26.42	26.57	26.67	30.68	28.09	31.23	31.14
Nuclear	105.13	107.02	108.41	108.66	108.26	107.55	107.60	107.60	107.60	107.60	107.60	107.60	107.60
Pumped Storage/Other 3/	-0.32	-0.38	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82
Renewable Sources 4/	9.32	7.97	9.95	12.41	12.14	12.55	12.51	12.70	12.67	13.08	12.73	13.05	13.17
Total Generation	274.32	282.32	263.64	271.54	279.28	280.92	287.44	290.61	293.63	301.14	305.89	314.12	319.68
Sales to Customers	271.46	279.30	261.11	269.00	276.74	278.38	284.89	288.05	291.08	298.59	303.33	311.56	317.12
Generation for Own Use	2.86	3.02	2.53	2.54	2.54	2.54	2.55	2.56	2.54	2.55	2.56	2.56	2.56
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05
<b>End-Use Sectors 8/</b>													
Coal	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
Petroleum	0.67	0.67	0.67	1.26	1.28	1.28	1.28	1.47	1.47	1.47	1.48	1.48	1.48
Natural Gas	2.43	2.27	2.29	2.56	2.67	2.77	2.88	3.01	3.11	3.23	3.35	3.47	3.58
Other Gaseous Fuels	0.65	0.54	0.42	0.47	0.49	0.49	0.49	0.51	0.51	0.51	0.52	0.52	0.52
Renewable Sources 4/	0.77	0.72	0.73	0.75	0.75	0.76	0.77	0.79	0.81	0.82	0.84	0.85	0.86
Other	0.41	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Total	6.05	5.64	5.56	6.48	6.64	6.75	6.87	7.22	7.34	7.47	7.63	7.76	7.89
Sales to Utilities	1.10	1.04	1.12	1.43	1.45	1.48	1.50	1.54	1.57	1.60	1.63	1.66	1.69
Generation for Own Use	4.95	4.60	4.44	5.06	5.19	5.27	5.36	5.68	5.77	5.87	6.00	6.10	6.20
Total Electricity Generation	280.37	287.96	269.20	278.02	285.92	287.67	294.31	297.83	300.97	308.61	313.53	321.91	327.62
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	10.2	10.3	10.3	9.7	9.9	9.8	9.5	9.5	9.6	9.7	9.6	9.6	9.6
Commercial	9.5	9.9	10.1	9.4	9.4	9.2	8.7	8.5	8.5	8.6	8.6	8.6	8.6
Industrial	7.1	7.8	10.2	9.9	10.0	9.3	8.4	7.7	7.4	7.3	7.1	7.1	7.1

Table 64. Electric Power Projections for EMM Region  
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	8.7	8.4	9.1	8.7	9.0	8.8	8.4	8.3	8.2	8.2	8.1	8.1	8.1
All Sectors Average	9.1	9.5	10.2	9.6	9.7	9.5	9.0	8.7	8.7	8.8	8.7	8.7	8.7
Prices by Service Category (2005 cents per kilowatthour)													
Generation	6.3	6.7	7.3	6.8	6.9	6.5	6.0	5.7	5.7	5.8	5.7	5.7	5.7
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Distribution	2.4	2.4	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.12	1.29	1.31	1.32	1.35	1.38	1.42	1.45	1.48	1.51	1.58	1.62	1.66
Natural Gas	0.24	0.25	0.15	0.16	0.20	0.19	0.22	0.22	0.22	0.25	0.23	0.25	0.25
Oil	0.10	0.12	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total	1.46	1.65	1.50	1.54	1.62	1.64	1.71	1.74	1.77	1.83	1.88	1.94	1.98
Fuel Prices (dollars per million Btu)													
Coal	1.40	1.51	1.62	1.74	1.82	1.85	1.93	1.93	1.92	1.91	1.91	1.90	1.88
Natural Gas	6.87	9.35	7.75	7.67	7.21	6.63	6.35	5.93	5.76	5.55	5.57	5.52	5.60
Distillate Fuel Oil	9.20	11.45	14.20	16.36	14.03	12.94	12.01	11.19	10.55	9.78	9.72	9.80	9.84
Residual Fuel Oil	5.08	7.22	8.67	6.33	5.65	5.39	5.08	4.70	4.42	3.91	4.00	4.12	4.13
Biomass	0.73	0.73	0.89	1.02	1.08	1.13	1.17	1.26	1.23	1.22	1.22	1.30	1.33
Emissions 10/													
Total Carbon (million tons)	35.89	40.09	40.41	41.38	42.78	43.65	45.19	45.99	46.85	48.25	49.97	51.38	52.52
Carbon Dioxide (million tons)	131.59	147.01	148.18	151.71	156.87	160.04	165.68	168.63	171.78	176.92	183.22	188.40	192.56
Sulfur Dioxide (million tons)	0.99	1.07	1.08	1.09	0.93	0.75	0.47	0.46	0.44	0.43	0.39	0.37	0.36
Nitrogen Oxide (million tons)	0.23	0.23	0.23	0.22	0.23	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Mercury (tons)	4.58	6.19	6.33	6.42	6.13	5.54	1.94	1.96	1.90	1.93	1.78	1.69	1.69

Table 64. Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	22.91	23.19	23.90	24.66	25.40	26.21	27.01	27.84	28.66	29.57	30.52	31.48	32.88	34.66	2.0%
Other Fossil Steam 2/	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	-1.6%
Combined Cycle	13.77	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	0.6%
Combustion Turbine/Diesel	12.03	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	0.2%
Nuclear Power	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	12.73	-0.2%
Pumped Storage/Other 3/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	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	N/A
Renewable Sources 4/	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.32	0.6%
Distributed Generation 5/	0.22	0.33	0.45	0.57	0.70	0.83	0.97	1.12	1.26	1.42	1.58	1.75	1.92	2.09	N/A
<b>Total Capacity</b>	<b>71.07</b>	<b>71.82</b>	<b>72.65</b>	<b>73.53</b>	<b>74.40</b>	<b>75.35</b>	<b>76.29</b>	<b>77.26</b>	<b>78.22</b>	<b>79.29</b>	<b>80.41</b>	<b>81.53</b>	<b>83.10</b>	<b>84.57</b>	<b>0.8%</b>
<b>Cumulative Planned Additions 6/</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	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	N/A
Combined Cycle	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	N/A
Combustion Turbine/Diesel	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A
Renewable Sources 4/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>1.66</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	1.91	2.19	2.90	3.66	4.40	5.21	6.01	6.84	7.66	8.57	9.52	10.48	11.88	13.66	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	N/A
Combined Cycle	0.64	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	N/A
Combustion Turbine/Diesel	0.00	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	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	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	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	N/A
Renewable Sources 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.18	N/A
Distributed Generation 5/	0.22	0.33	0.45	0.57	0.70	0.83	0.97	1.12	1.26	1.42	1.58	1.75	1.92	2.09	N/A
<b>Total Unplanned Additions</b>	<b>2.82</b>	<b>3.56</b>	<b>4.40</b>	<b>5.28</b>	<b>6.15</b>	<b>7.10</b>	<b>8.04</b>	<b>9.01</b>	<b>9.97</b>	<b>11.04</b>	<b>12.15</b>	<b>13.28</b>	<b>14.85</b>	<b>16.94</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>4.48</b>	<b>5.23</b>	<b>6.06</b>	<b>6.95</b>	<b>7.81</b>	<b>8.76</b>	<b>9.70</b>	<b>10.67</b>	<b>11.64</b>	<b>12.70</b>	<b>13.82</b>	<b>14.94</b>	<b>16.52</b>	<b>18.60</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	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
Other Fossil Steam 3/	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	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	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	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	0.62	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>2.78</b>	<b>3.40</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	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
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.7%
Natural Gas	0.52	0.53	0.55	0.57	0.59	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	3.3%

Table 64. Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.4%
Renewable Sources 4/	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.20	2.6%
Other	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	N/A
Total	1.04	1.06	1.07	1.10	1.12	1.14	1.17	1.19	1.21	1.24	1.27	1.29	1.32	1.35	2.1%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	119.01	120.08	121.24	122.72	123.34	124.44	125.50	126.84	127.56	128.64	129.71	131.02	131.63	132.57	1.1%
Commercial/Other	139.26	141.41	143.64	145.98	148.42	150.98	153.60	156.16	158.85	161.65	164.58	167.53	170.55	173.64	1.8%
Industrial	60.40	60.11	60.13	60.18	60.13	60.14	60.01	59.93	59.97	60.11	60.24	60.29	60.32	60.45	0.2%
Transportation	2.44	2.46	2.47	2.49	2.50	2.51	2.53	2.54	2.55	2.56	2.57	2.59	2.60	2.61	0.7%
Total Sales	321.11	324.05	327.48	331.36	334.39	338.07	341.63	345.46	348.93	352.96	357.10	361.43	365.10	369.27	1.2%
<b>Net Energy for Load (billion kilowatthours) 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	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	N/A
Gross Interregional Electricity Imports	21.42	21.05	20.26	20.44	20.11	19.79	20.47	20.78	20.15	19.24	18.13	15.70	11.20	6.89	-7.7%
Gross Interregional Electricity Exports	0.85	1.09	2.14	4.39	6.12	7.98	10.41	10.35	11.29	12.77	14.05	14.05	14.05	14.05	-1.2%
Purchases from Combined Heat and Power 8/	1.73	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.09	2.13	2.16	2.21	2.26	3.1%
Electric Power Sector Generation for Custome	317.21	320.89	326.30	332.44	337.70	343.70	349.10	352.75	358.06	364.67	371.36	378.33	386.65	395.41	1.4%
Total Net Energy for Load	339.51	342.61	346.21	350.33	353.57	357.43	361.13	365.18	368.96	373.22	377.56	382.15	386.02	390.50	0.9%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	162.67	164.17	168.97	175.10	180.28	186.42	192.16	198.05	203.41	210.08	217.09	224.23	234.73	248.56	2.6%
Petroleum	5.78	5.78	5.81	5.81	5.80	5.80	5.81	5.81	5.82	5.82	5.80	5.81	5.73	5.73	-2.4%
Natural Gas	31.38	33.05	33.61	33.70	33.50	33.41	33.30	30.37	30.19	30.14	29.82	29.64	27.65	26.97	0.0%
Nuclear	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	102.62	-0.2%
Pumped Storage/Other 3/	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	3.1%
Renewable Sources 4/	13.16	13.66	13.69	13.61	13.89	13.85	13.61	14.30	14.42	14.40	14.43	14.43	14.32	14.90	2.5%
Total Generation	319.77	323.44	328.86	335.00	340.26	346.26	351.66	355.31	360.62	367.22	373.92	380.89	389.21	397.95	1.4%
Sales to Customers	317.21	320.89	326.30	332.44	337.70	343.70	349.10	352.75	358.06	364.67	371.36	378.33	386.65	395.41	1.4%
Generation for Own Use	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.55	-0.7%
Distributed Generation 5/	0.10	0.14	0.20	0.25	0.31	0.37	0.43	0.49	0.55	0.62	0.69	0.77	0.84	0.91	N/A
<b>End-Use Sectors 8/</b>															
Coal	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	N/A
Petroleum	1.49	1.49	1.49	1.51	1.51	1.51	1.52	1.52	1.52	1.54	1.54	1.54	1.55	1.55	3.4%
Natural Gas	3.72	3.87	4.01	4.19	4.35	4.51	4.69	4.85	5.01	5.21	5.37	5.53	5.74	5.91	3.9%
Other Gaseous Fuels	0.53	0.55	0.55	0.57	0.57	0.57	0.60	0.60	0.60	0.63	0.63	0.63	0.66	0.66	0.8%
Renewable Sources 4/	0.88	0.89	0.90	0.92	0.93	0.95	0.97	0.99	1.01	1.03	1.06	1.08	1.11	1.14	1.9%
Other	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%
Total	8.06	8.24	8.40	8.64	8.81	8.98	9.23	9.40	9.58	9.85	10.04	10.22	10.50	10.71	2.6%
Sales to Utilities	1.73	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.09	2.13	2.16	2.21	2.26	3.1%
Generation for Own Use	6.33	6.48	6.60	6.80	6.93	7.06	7.26	7.40	7.54	7.76	7.91	8.06	8.28	8.45	2.5%
Total Electricity Generation	327.93	331.83	337.46	343.89	349.38	355.61	361.32	365.20	370.76	377.69	384.65	391.88	400.55	409.57	1.4%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	9.7	9.8	9.8	9.8	9.8	9.8	9.9	9.9	10.0	9.9	9.9	9.9	9.9	9.9	-0.2%
Commercial	8.7	8.9	8.9	8.8	8.9	8.8	8.9	8.9	9.0	8.9	8.9	8.9	8.9	8.8	-0.5%
Industrial	7.2	7.4	7.4	7.3	7.4	7.3	7.4	7.5	7.5	7.5	7.4	7.4	7.4	7.4	-0.2%

Table 64. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council - 03

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	8.2	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	-0.1%
All Sectors Average	8.8	9.0	8.9	8.9	9.0	8.9	9.0	9.0	9.1	9.1	9.0	9.0	9.0	8.9	-0.2%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.8	6.0	5.9	5.9	5.9	5.9	6.0	6.0	6.1	6.1	6.0	6.0	6.0	5.9	-0.5%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7%
Distribution	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.2%
Fuel Consumption (quadrillion Btu) 9/															
Coal	1.66	1.67	1.70	1.75	1.78	1.83	1.87	1.91	1.95	1.99	2.04	2.09	2.17	2.27	2.3%
Natural Gas	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.24	0.24	0.24	0.24	0.22	0.22	-0.5%
Oil	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	-2.0%
Total	1.98	2.00	2.04	2.08	2.12	2.16	2.20	2.23	2.26	2.31	2.35	2.40	2.47	2.56	1.8%
Fuel Prices (dollars per million Btu)															
Coal	1.89	1.87	1.85	1.84	1.84	1.84	1.84	1.86	1.87	1.87	1.88	1.89	1.90	1.92	1.0%
Natural Gas	5.80	5.78	5.75	5.81	5.75	5.85	5.95	6.05	6.03	6.03	6.12	6.24	6.30	6.32	-1.6%
Distillate Fuel Oil	9.95	10.04	10.25	10.34	10.45	10.61	10.56	10.71	10.75	10.82	10.99	11.08	11.24	11.31	-0.1%
Residual Fuel Oil	4.20	4.29	4.55	4.54	4.67	4.90	4.67	4.94	4.98	4.93	4.97	5.05	4.97	5.03	-1.4%
Biomass	1.25	1.31	1.32	1.31	1.38	1.39	1.40	1.51	1.50	1.48	1.51	1.52	1.51	1.85	3.8%
Emissions 10/															
Total Carbon (million tons)	52.47	52.87	53.85	55.19	56.16	57.40	58.54	59.50	60.40	61.73	63.11	64.53	66.43	69.23	2.2%
Carbon Dioxide (million tons)	192.39	193.84	197.43	202.37	205.92	210.46	214.65	218.15	221.46	226.33	231.42	236.62	243.56	253.83	2.2%
Sulfur Dioxide (million tons)	0.33	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.31	0.32	0.31	0.32	0.32	0.31	-4.9%
Nitrogen Oxide (million tons)	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	-2.5%
Mercury (tons)	1.69	1.68	1.65	1.67	1.64	1.59	1.55	1.57	1.44	1.46	1.46	1.49	1.52	1.54	-5.4%

Table 64. Electric Power Projections for EMM Region  
Mid-Atlantic Area Council - 03

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	28.98	28.98	29.04	29.04	29.56	31.65	32.93	32.93	32.67	32.43	32.43	32.43	32.43
Other Fossil Steam 2/	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.05	0.00	0.00	0.00	0.00
Combined Cycle	4.42	5.55	5.73	5.73	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
Combustion Turbine/Diesel	16.97	16.81	16.80	16.80	16.95	17.11	17.11	17.11	13.60	13.60	13.60	13.60	13.60
Nuclear Power	14.28	14.35	14.35	14.35	14.35	14.37	14.37	14.40	14.41	14.41	14.41	14.41	14.41
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.99	1.05	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capacity</b>	<b>66.92</b>	<b>68.04</b>	<b>68.60</b>	<b>68.60</b>	<b>69.85</b>	<b>72.11</b>	<b>73.40</b>	<b>73.43</b>	<b>68.87</b>	<b>68.58</b>	<b>68.58</b>	<b>68.58</b>	<b>68.58</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.06	0.06	0.58	2.67	4.04	4.04	4.04	4.04	4.04	4.04	4.04
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.18	0.18	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.16	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.59</b>	<b>0.59</b>	<b>1.84</b>	<b>4.08</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>
<b>Cumulative Unplanned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Unplanned 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>0.00</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>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.59</b>	<b>0.59</b>	<b>1.84</b>	<b>4.08</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.01	0.01	0.01	0.01	0.08	0.08	0.35	0.59	0.59	0.59	0.59
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.84	0.84	0.84	0.84
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	3.52	3.52	3.52	3.52	3.52
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.10</b>	<b>0.10</b>	<b>4.67</b>	<b>4.96</b>	<b>4.96</b>	<b>4.96</b>	<b>4.96</b>
<b>End-Use Sectors 8/</b>													
Coal	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Petroleum	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
Natural Gas	0.33	0.32	0.33	0.37	0.38	0.39	0.40	0.42	0.43	0.44	0.45	0.47	0.48

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	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
Renewable Sources 4/	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25
Other	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
Total	1.55	1.54	1.55	1.60	1.62	1.63	1.65	1.68	1.69	1.71	1.73	1.74	1.76
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	79.19	87.04	85.43	86.37	87.99	88.97	90.22	91.14	92.35	93.05	93.93	94.83	95.98
Commercial/Other	88.06	90.56	89.15	90.46	92.14	93.42	94.69	96.16	97.87	99.67	101.34	102.92	104.42
Industrial	85.83	86.83	84.55	86.00	86.52	87.26	88.26	89.24	90.28	91.10	91.62	92.20	92.60
Transportation	1.72	1.74	1.70	1.71	1.73	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82
Total Sales	254.79	266.16	260.83	264.55	268.38	271.40	274.94	278.31	282.29	285.61	288.69	291.76	294.81
<b>Net Energy for Load (billion kilowatthours) 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
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	11.29	9.60	9.07	6.59	4.55	3.97	4.01	4.07	4.14	3.77	3.35	2.96	2.54
Gross Interregional Electricity Exports	39.23	43.91	57.43	48.56	50.52	53.60	55.92	59.59	59.03	62.60	65.79	65.89	65.25
Purchases from Combined Heat and Power 8/	1.08	1.01	1.09	1.25	1.27	1.28	1.30	1.33	1.35	1.37	1.39	1.41	1.44
Electric Power Sector Generation for Custome	301.80	305.42	324.01	321.23	329.14	335.76	341.62	348.59	351.98	359.24	365.88	369.41	372.39
Total Net Energy for Load	274.93	272.13	276.73	280.51	284.43	287.41	291.01	294.40	298.44	301.78	304.84	307.90	311.12
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	177.50	177.00	176.92	180.34	183.90	193.30	204.68	210.26	213.83	217.58	225.52	225.64	227.64
Petroleum	1.49	0.74	1.42	1.47	1.47	1.49	1.51	1.52	1.53	1.50	0.86	0.84	1.08
Natural Gas	6.92	14.06	26.14	19.23	23.69	21.08	15.37	16.36	15.06	18.98	18.45	22.39	23.69
Nuclear	113.45	111.71	116.34	116.41	116.01	115.16	115.23	115.49	115.61	115.61	115.61	115.61	115.61
Pumped Storage/Other 3/	-0.09	-0.11	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Renewable Sources 4/	4.75	4.41	5.31	5.92	6.21	6.87	6.98	7.13	8.08	7.71	7.59	7.08	6.53
Total Generation	304.02	307.81	326.01	323.24	331.15	337.77	343.64	350.63	353.99	361.25	367.90	371.43	374.42
Sales to Customers	301.80	305.42	324.01	321.23	329.14	335.76	341.62	348.59	351.98	359.24	365.88	369.41	372.39
Generation for Own Use	2.21	2.38	2.00	2.01	2.01	2.02	2.02	2.03	2.01	2.01	2.02	2.02	2.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	3.76	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
Petroleum	0.33	0.33	0.33	0.63	0.63	0.63	0.63	0.73	0.73	0.73	0.73	0.73	0.73
Natural Gas	1.42	1.33	1.34	1.50	1.56	1.62	1.68	1.76	1.82	1.89	1.96	2.03	2.09
Other Gaseous Fuels	0.32	0.27	0.21	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26
Renewable Sources 4/	1.47	1.36	1.39	1.42	1.43	1.44	1.47	1.50	1.53	1.56	1.59	1.61	1.64
Other	0.32	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Total	7.62	7.29	7.27	7.77	7.87	7.94	8.03	8.24	8.33	8.43	8.54	8.63	8.73
Sales to Utilities	1.08	1.01	1.09	1.25	1.27	1.28	1.30	1.33	1.35	1.37	1.39	1.41	1.44
Generation for Own Use	6.55	6.27	6.18	6.52	6.60	6.65	6.72	6.91	6.98	7.05	7.14	7.21	7.29
Total Electricity Generation	311.64	315.10	333.28	331.01	339.01	345.71	351.67	358.86	362.32	369.67	376.44	380.06	383.14
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	8.7	8.5	8.6	8.6	8.6	8.8	8.9	8.9	8.8	8.8	8.8	8.8	8.8
Commercial	7.4	7.4	7.6	7.7	7.7	7.8	7.9	7.7	7.5	7.5	7.4	7.4	7.4
Industrial	4.8	4.7	5.7	5.9	5.9	5.9	5.7	5.4	5.1	5.0	5.0	5.0	5.0

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	7.0	6.4	6.7	6.8	6.8	7.0	7.1	7.0	6.9	6.8	6.8	6.8	6.8
All Sectors Average	6.8	6.9	7.3	7.4	7.4	7.5	7.5	7.3	7.2	7.1	7.1	7.1	7.1
Prices by Service Category (2005 cents per kilowatthour)													
Generation	4.3	4.4	4.8	4.8	4.8	4.9	4.8	4.6	4.5	4.4	4.4	4.3	4.4
Transmission	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
Distribution	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.67	1.85	1.89	1.92	1.96	2.04	2.14	2.18	2.21	2.25	2.34	2.34	2.37
Natural Gas	0.08	0.13	0.19	0.14	0.18	0.16	0.12	0.12	0.11	0.14	0.14	0.17	0.18
Oil	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Total	1.77	1.99	2.09	2.08	2.15	2.21	2.27	2.32	2.34	2.41	2.48	2.52	2.56
Fuel Prices (dollars per million Btu)													
Coal	1.07	1.00	1.20	1.22	1.63	1.59	1.77	1.93	1.90	1.97	1.83	1.84	1.81
Natural Gas	5.07	6.92	6.33	6.61	6.23	5.66	5.35	4.93	4.77	4.58	4.61	4.55	4.68
Distillate Fuel Oil	10.02	11.61	14.56	15.81	13.66	12.61	11.55	10.46	9.54	8.83	8.64	8.73	8.71
Residual Fuel Oil	5.29	7.56	15.40	8.26	7.69	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40
Biomass	1.19	1.33	1.39	1.68	1.76	1.89	1.92	1.87	1.89	1.86	1.87	1.95	1.93
Emissions 10/													
Total Carbon (million tons)	52.40	56.35	57.56	57.95	59.55	61.57	63.68	65.05	65.86	67.31	69.57	70.15	71.22
Carbon Dioxide (million tons)	192.13	206.62	211.06	212.48	218.36	225.77	233.50	238.50	241.49	246.81	255.09	257.21	261.13
Sulfur Dioxide (million tons)	0.92	1.01	1.02	1.03	0.99	0.97	0.86	0.77	0.71	0.65	0.60	0.54	0.46
Nitrogen Oxide (million tons)	0.27	0.24	0.27	0.26	0.26	0.13	0.13	0.13	0.13	0.14	0.14	0.13	0.13
Mercury (tons)	4.40	4.85	4.82	5.02	4.99	5.15	4.78	4.79	4.72	4.60	2.64	2.32	2.07

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	0.4%
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	-19.6%
Combined Cycle	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.46	6.46	6.46	6.46	6.46	6.46	0.6%
Combustion Turbine/Diesel	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.61	14.10	14.77	15.47	16.18	16.78	18.31	0.3%
Nuclear Power	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	13.03	-0.4%
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	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	N/A
Renewable Sources 4/	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.1%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.17	0.28	0.40	0.52	0.64	0.75	0.86	N/A
<b>Total Capacity</b>	<b>68.56</b>	<b>68.56</b>	<b>68.56</b>	<b>68.56</b>	<b>68.56</b>	<b>68.56</b>	<b>68.64</b>	<b>68.75</b>	<b>69.49</b>	<b>70.28</b>	<b>71.10</b>	<b>71.94</b>	<b>72.65</b>	<b>72.91</b>	<b>0.3%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	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	N/A
Combined Cycle	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	N/A
Combustion Turbine/Diesel	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
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	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	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	N/A
Renewable Sources 4/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</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	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	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.50	1.17	1.87	2.59	3.19	4.71	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	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.17	0.28	0.40	0.52	0.64	0.75	0.86	N/A
<b>Total Unplanned 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>0.08</b>	<b>0.19</b>	<b>0.93</b>	<b>1.72</b>	<b>2.54</b>	<b>3.38</b>	<b>4.09</b>	<b>5.73</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.45</b>	<b>5.53</b>	<b>5.63</b>	<b>6.38</b>	<b>7.17</b>	<b>7.99</b>	<b>8.83</b>	<b>9.53</b>	<b>11.17</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	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	N/A
Other Fossil Steam 3/	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	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	N/A
Combustion Turbine/Diesel	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	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	1.38	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>4.98</b>	<b>6.36</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	N/A
Petroleum	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	0.7%
Natural Gas	0.49	0.51	0.52	0.54	0.56	0.58	0.60	0.61	0.63	0.65	0.67	0.69	0.71	0.73	3.3%

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.26	0.26	0.26	0.27	0.28	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	0.38	2.6%
Other	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Total	1.78	1.80	1.82	1.85	1.87	1.89	1.92	1.95	1.97	2.01	2.04	2.07	2.11	2.14	1.3%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	96.64	97.56	98.55	99.77	100.22	101.05	101.86	102.91	103.46	104.29	105.11	106.10	106.51	107.19	0.8%
Commercial/Other	105.86	107.25	108.65	110.08	111.52	113.06	114.65	116.16	117.92	119.75	121.69	123.67	125.63	127.63	1.4%
Industrial	92.56	92.29	92.52	92.61	92.77	93.05	92.83	92.85	93.32	93.63	94.11	94.38	94.32	94.53	0.3%
Transportation	1.83	1.84	1.84	1.85	1.86	1.86	1.87	1.87	1.87	1.88	1.88	1.88	1.89	1.89	0.3%
Total Sales	296.89	298.93	301.56	304.31	306.38	309.01	311.20	313.79	316.57	319.55	322.79	326.04	328.35	331.24	0.9%
<b>Net Energy for Load (billion kilowatthours) 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	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	N/A
Gross Interregional Electricity Imports	2.10	1.67	1.23	0.84	0.43	0.02	0.45	0.89	0.87	1.25	1.34	2.33	2.90	3.06	-4.5%
Gross Interregional Electricity Exports	61.20	59.35	57.18	54.22	48.11	45.76	43.81	39.97	36.26	34.23	31.20	28.43	27.05	20.37	-3.0%
Purchases from Combined Heat and Power 8/	1.46	1.48	1.51	1.54	1.56	1.59	1.62	1.65	1.67	1.71	1.74	1.76	1.80	1.83	2.4%
Electric Power Sector Generation for Custome	370.95	371.65	372.67	372.99	369.44	370.26	370.16	368.59	367.80	368.51	368.78	368.44	368.90	365.07	0.7%
Total Net Energy for Load	313.31	315.46	318.24	321.15	323.32	326.11	328.42	331.15	334.09	337.24	340.66	344.11	346.54	349.59	1.0%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	226.27	224.76	223.56	224.23	225.56	228.95	229.60	229.03	228.46	228.66	228.69	229.17	228.70	229.94	1.1%
Petroleum	1.08	1.06	1.01	0.99	0.98	0.98	0.99	1.08	1.21	1.20	1.23	1.23	1.23	1.23	2.1%
Natural Gas	22.01	23.95	26.64	26.17	21.75	19.61	18.05	16.19	15.84	16.45	16.70	16.39	16.85	19.21	1.3%
Nuclear	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	108.79	-0.1%
Pumped Storage/Other 3/	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	0.7%
Renewable Sources 4/	8.13	8.43	8.00	8.14	7.69	7.27	8.06	8.83	8.84	8.73	8.70	8.19	8.65	8.03	2.4%
Total Generation	372.97	373.68	374.69	375.01	371.46	372.29	372.18	370.61	369.83	370.53	370.80	370.46	370.92	367.07	0.7%
Sales to Customers	370.95	371.65	372.67	372.99	369.44	370.26	370.16	368.59	367.80	368.51	368.78	368.44	368.90	365.07	0.7%
Generation for Own Use	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.00	-0.7%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.12	0.17	0.23	0.28	0.33	0.38	N/A
<b>End-Use Sectors 8/</b>															
Coal	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	N/A
Petroleum	0.74	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77	3.4%
Natural Gas	2.17	2.26	2.34	2.45	2.54	2.63	2.74	2.83	2.93	3.04	3.14	3.23	3.35	3.46	3.9%
Other Gaseous Fuels	0.27	0.27	0.27	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.33	0.33	0.8%
Renewable Sources 4/	1.66	1.68	1.71	1.74	1.77	1.80	1.84	1.87	1.91	1.95	2.00	2.06	2.11	2.17	1.9%
Other	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	0.0%
Total	8.84	8.95	9.06	9.22	9.35	9.47	9.63	9.75	9.89	10.07	10.22	10.36	10.55	10.72	1.6%
Sales to Utilities	1.46	1.48	1.51	1.54	1.56	1.59	1.62	1.65	1.67	1.71	1.74	1.76	1.80	1.83	2.4%
Generation for Own Use	7.38	7.47	7.56	7.69	7.78	7.88	8.01	8.11	8.22	8.36	8.48	8.60	8.75	8.89	1.4%
Total Electricity Generation	381.80	382.63	383.76	384.23	380.80	381.75	381.84	380.44	379.84	380.77	381.25	381.10	381.80	378.17	0.7%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	8.9	8.9	8.9	8.9	8.9	9.0	9.1	9.2	9.1	9.0	9.0	9.0	9.0	9.0	0.2%
Commercial	7.5	7.6	7.6	7.6	7.7	7.8	8.0	8.1	8.1	8.0	7.9	7.9	8.0	8.0	0.3%
Industrial	5.1	5.1	5.1	5.2	5.2	5.3	5.5	5.6	5.5	5.5	5.4	5.4	5.5	5.5	0.6%

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	6.9	6.9	6.9	6.9	6.9	7.0	7.1	7.1	7.1	7.0	7.0	7.0	7.0	7.0	0.4%
All Sectors Average	7.2	7.2	7.2	7.3	7.3	7.4	7.6	7.7	7.6	7.6	7.5	7.5	7.6	7.6	0.4%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	4.5	4.5	4.5	4.6	4.6	4.7	4.9	5.0	4.9	4.9	4.8	4.8	4.9	4.9	0.5%
Transmission	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	1.9%
Distribution	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	-0.1%
Fuel Consumption (quadrillion Btu) 9/															
Coal	2.35	2.34	2.32	2.33	2.35	2.39	2.40	2.39	2.39	2.39	2.39	2.40	2.39	2.41	1.1%
Natural Gas	0.17	0.18	0.20	0.20	0.16	0.15	0.14	0.12	0.12	0.13	0.13	0.12	0.13	0.15	0.4%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.3%
Total	2.53	2.53	2.53	2.54	2.52	2.54	2.54	2.53	2.52	2.53	2.53	2.54	2.54	2.57	1.0%
Fuel Prices (dollars per million Btu)															
Coal	1.80	1.73	1.67	1.75	1.69	1.62	1.58	1.61	1.62	1.63	1.64	1.68	1.68	1.54	1.8%
Natural Gas	4.86	4.83	4.82	4.94	4.91	5.06	5.20	5.30	5.26	5.24	5.31	5.40	5.45	5.48	-0.9%
Distillate Fuel Oil	8.87	8.97	9.21	9.32	9.43	9.58	9.55	9.68	9.63	9.70	9.84	9.90	10.07	10.13	-0.5%
Residual Fuel Oil	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	2.9%
Biomass	2.04	2.06	2.02	1.98	1.96	2.03	2.09	2.11	2.13	2.13	2.13	2.13	2.07	1.99	1.6%
Emissions 10/															
Total Carbon (million tons)	70.55	70.38	70.22	70.48	70.41	71.34	71.55	71.31	71.24	71.46	71.52	71.64	71.60	72.35	1.0%
Carbon Dioxide (million tons)	258.67	258.06	257.49	258.41	258.18	261.59	262.33	261.49	261.20	262.01	262.25	262.69	262.54	265.28	1.0%
Sulfur Dioxide (million tons)	0.44	0.42	0.42	0.42	0.42	0.42	0.40	0.36	0.31	0.31	0.30	0.30	0.29	0.30	-4.7%
Nitrogen Oxide (million tons)	0.14	0.13	0.13	0.13	0.13	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.13	-2.6%
Mercury (tons)	1.99	1.75	1.61	1.36	1.24	1.29	1.29	1.30	1.29	1.28	1.25	1.20	1.10	1.02	-6.1%

Table 65. Electric Power Projections for EMM Region  
Mid-America Interconnected Network - 04

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	18.68	18.68	18.67	19.46	19.19	19.19	19.19	19.39	19.39	19.51	19.52	19.52	19.71
Other Fossil Steam 2/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Combined Cycle	1.27	1.66	2.16	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
Combustion Turbine/Diesel	7.27	7.80	7.88	8.03	8.03	8.03	8.03	8.03	8.03	8.10	8.40	8.71	8.88
Nuclear Power	3.23	3.24	3.24	3.24	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	4.67	5.18	5.28	5.49	5.52	5.54	5.55	5.55	5.55	5.55	5.55	5.55	5.55
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.06	0.08
<b>Total Capacity</b>	<b>35.65</b>	<b>37.09</b>	<b>37.76</b>	<b>39.02</b>	<b>38.78</b>	<b>38.80</b>	<b>38.81</b>	<b>39.01</b>	<b>39.02</b>	<b>39.23</b>	<b>39.55</b>	<b>39.89</b>	<b>40.26</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.79	0.79	0.79	0.79	1.01	1.01	1.01	1.01	1.01	1.01
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.50	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Combustion Turbine/Diesel	0.00	0.00	0.09	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.10	0.31	0.34	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.69</b>	<b>1.94</b>	<b>1.97</b>	<b>1.98</b>	<b>2.00</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.32
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.37	0.68	0.85
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.06	0.08
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.22</b>	<b>0.54</b>	<b>0.88</b>	<b>1.25</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.69</b>	<b>1.94</b>	<b>1.97</b>	<b>1.98</b>	<b>2.00</b>	<b>2.22</b>	<b>2.23</b>	<b>2.44</b>	<b>2.76</b>	<b>3.10</b>	<b>3.47</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.01	0.01	0.28	0.28	0.28	0.30	0.30	0.30	0.30	0.30	0.30
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.28</b>	<b>0.28</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>End-Use Sectors 8/</b>													
Coal	0.54	0.54	0.54	0.54	0.54	0.54	0.54	1.02	1.07	1.07	1.27	1.27	1.27
Petroleum	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Natural Gas	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

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	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
Renewable Sources 4/	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23
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
Total	0.91	0.91	0.92	0.93	0.93	0.94	0.95	1.44	1.50	1.50	1.71	1.71	1.72
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	49.67	53.80	54.10	54.48	55.69	56.42	57.25	57.92	58.82	59.41	60.13	60.89	61.80
Commercial/Other	46.21	46.79	47.49	48.32	49.66	50.41	51.08	51.83	52.72	53.64	54.53	55.40	56.26
Industrial	48.91	50.64	51.73	51.05	51.85	52.98	53.38	53.91	54.50	54.95	55.23	55.55	55.77
Transportation	0.93	0.93	0.94	0.95	0.96	0.97	0.98	0.99	0.99	1.00	1.01	1.01	1.02
Total Sales	145.71	152.17	154.26	154.80	158.16	160.78	162.68	164.66	167.02	169.00	170.90	172.86	174.84
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	7.67	12.93	11.88	9.27	7.83	7.80	7.34	8.25	9.22	8.96	8.64	9.35	8.75
Gross International Exports	4.98	3.50	3.58	3.58	3.56	3.56	3.55	3.55	3.55	3.65	3.67	3.60	3.65
Gross Interregional Electricity Imports	15.80	8.50	6.41	6.12	5.47	5.43	5.71	5.42	6.92	4.89	8.79	7.77	8.30
Gross Interregional Electricity Exports	12.34	17.40	17.32	19.29	17.67	15.07	14.65	17.54	19.37	17.18	21.18	19.93	19.77
Purchases from Combined Heat and Power 8/	0.49	0.46	0.49	0.54	0.54	0.55	0.55	2.86	3.13	3.14	4.11	4.11	4.12
Electric Power Sector Generation for Custome	158.09	158.61	168.48	173.76	177.73	177.84	179.53	181.46	182.97	185.13	186.51	187.46	189.54
Total Net Energy for Load	164.72	159.60	166.36	166.82	170.33	172.99	174.93	176.91	179.32	181.31	183.20	185.17	187.30
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	117.96	118.33	123.95	127.53	128.98	130.09	131.08	133.07	134.49	136.33	137.67	138.26	139.86
Petroleum	0.93	0.92	0.67	0.77	0.78	0.79	0.77	0.79	0.82	0.78	0.78	0.67	0.66
Natural Gas	2.02	4.19	1.84	1.82	3.35	1.68	1.68	1.67	1.69	2.02	2.06	2.16	2.62
Nuclear	26.78	24.89	25.46	25.46	25.36	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	11.65	11.60	17.08	18.71	19.79	20.73	21.45	21.39	21.44	21.46	21.47	21.84	21.87
Total Generation	159.34	159.94	169.01	174.30	178.27	178.38	180.08	182.01	183.53	185.70	187.08	188.03	190.11
Sales to Customers	158.09	158.61	168.48	173.76	177.73	177.84	179.53	181.46	182.97	185.13	186.51	187.46	189.54
Generation for Own Use	1.24	1.33	0.53	0.53	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.57
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04
<b>End-Use Sectors 8/</b>													
Coal	2.38	2.37	2.37	2.37	2.37	2.37	2.37	6.10	6.54	6.54	8.10	8.10	8.10
Petroleum	0.08	0.08	0.08	0.14	0.14	0.14	0.14	0.17	0.17	0.17	0.17	0.17	0.17
Natural Gas	0.39	0.36	0.36	0.41	0.42	0.44	0.46	0.48	0.49	0.51	0.53	0.55	0.57
Other Gaseous Fuels	0.07	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	0.89	0.83	0.85	0.86	0.87	0.88	0.90	0.91	0.93	0.95	0.97	0.98	1.00
Other	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total	3.90	3.77	3.77	3.91	3.94	3.96	3.99	7.79	8.26	8.30	9.89	9.93	9.96
Sales to Utilities	0.49	0.46	0.49	0.54	0.54	0.55	0.55	2.86	3.13	3.14	4.11	4.11	4.12
Generation for Own Use	3.41	3.31	3.28	3.37	3.39	3.41	3.44	4.93	5.13	5.16	5.79	5.81	5.84
Total Electricity Generation	163.24	163.71	172.78	178.20	182.20	182.34	184.07	189.80	191.80	194.01	196.99	197.99	200.11
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	8.1	8.1	7.3	7.3	7.4	7.6	7.8	7.9	7.8	7.8	7.7	7.5	7.5
Commercial	6.5	6.4	5.8	5.9	6.0	6.2	6.5	6.5	6.5	6.5	6.4	6.3	6.2
Industrial	4.7	4.8	4.3	4.4	4.5	4.7	4.9	4.9	4.9	4.9	4.8	4.7	4.7

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	5.9	5.2	5.1	5.3	5.5	5.6	5.9	5.9	5.9	5.8	5.8	5.6	5.6
All Sectors Average	6.4	6.5	5.8	5.9	6.0	6.2	6.4	6.5	6.4	6.4	6.3	6.2	6.2
Prices by Service Category (2005 cents per kilowatthour)													
Generation	3.7	3.8	3.1	3.2	3.3	3.5	3.7	3.7	3.7	3.7	3.6	3.5	3.4
Transmission	0.8	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Distribution	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.21	1.33	1.34	1.37	1.38	1.40	1.41	1.43	1.44	1.46	1.47	1.48	1.49
Natural Gas	0.02	0.05	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	1.24	1.38	1.36	1.39	1.42	1.42	1.43	1.45	1.46	1.48	1.49	1.50	1.52
Fuel Prices (dollars per million Btu)													
Coal	0.96	0.93	1.09	1.12	1.15	1.14	1.25	1.44	1.42	1.40	1.32	1.27	1.26
Natural Gas	6.07	7.72	7.06	7.25	6.82	6.27	5.97	5.60	5.44	5.19	5.23	5.17	5.26
Distillate Fuel Oil	9.76	11.54	14.46	15.86	11.62	10.89	10.03	9.31	8.88	8.65	8.40	8.39	8.30
Residual Fuel Oil	4.26	6.07	7.26	7.57	7.08	6.48	5.98	5.58	5.22	5.06	4.90	4.96	4.96
Biomass	1.03	1.09	1.16	1.43	1.72	1.80	1.79	1.81	1.85	1.85	1.87	1.88	1.88
Emissions 10/													
Total Carbon (million tons)	36.51	39.18	39.21	40.24	40.79	40.96	41.27	41.85	42.26	42.80	43.24	43.46	43.96
Carbon Dioxide (million tons)	133.89	143.66	143.76	147.56	149.56	150.18	151.32	153.46	154.95	156.95	158.55	159.37	161.19
Sulfur Dioxide (million tons)	0.36	0.39	0.39	0.36	0.38	0.36	0.29	0.29	0.27	0.27	0.27	0.27	0.25
Nitrogen Oxide (million tons)	0.29	0.29	0.26	0.27	0.27	0.18	0.17	0.18	0.18	0.18	0.18	0.17	0.16
Mercury (tons)	3.36	3.45	3.62	3.53	3.62	3.68	2.82	2.97	2.80	2.75	2.42	2.10	1.91

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	20.00	20.18	20.43	20.76	20.98	20.98	20.98	20.98	20.99	21.16	21.16	21.29	21.66	21.96	0.6%
Other Fossil Steam 2/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
Combined Cycle	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	1.2%
Combustion Turbine/Diesel	8.88	8.98	8.98	8.98	8.98	8.98	9.19	9.40	9.64	9.68	10.07	10.24	10.24	10.24	1.1%
Nuclear Power	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	0.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	0.3%
Distributed Generation 5/	0.10	0.11	0.13	0.14	0.16	0.19	0.24	0.29	0.35	0.41	0.47	0.54	0.56	0.58	N/A
<b>Total Capacity</b>	<b>40.57</b>	<b>40.86</b>	<b>41.14</b>	<b>41.48</b>	<b>41.71</b>	<b>41.75</b>	<b>42.00</b>	<b>42.25</b>	<b>42.57</b>	<b>42.84</b>	<b>43.30</b>	<b>43.66</b>	<b>44.05</b>	<b>44.37</b>	<b>0.7%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	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	N/A
Combined Cycle	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	N/A
Combustion Turbine/Diesel	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	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	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	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	N/A
Renewable Sources 4/	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>2.22</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	0.61	0.79	1.04	1.40	1.62	1.62	1.62	1.62	1.63	1.80	1.80	1.93	2.30	2.60	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Combustion Turbine/Diesel	0.85	0.94	0.95	0.95	0.95	0.95	1.16	1.36	1.60	1.64	2.04	2.21	2.21	2.21	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.10	0.11	0.13	0.14	0.16	0.19	0.24	0.29	0.35	0.41	0.47	0.54	0.56	0.58	N/A
<b>Total Unplanned Additions</b>	<b>1.56</b>	<b>1.84</b>	<b>2.12</b>	<b>2.49</b>	<b>2.73</b>	<b>2.76</b>	<b>3.01</b>	<b>3.27</b>	<b>3.58</b>	<b>3.85</b>	<b>4.31</b>	<b>4.68</b>	<b>5.06</b>	<b>5.39</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>3.78</b>	<b>4.06</b>	<b>4.34</b>	<b>4.71</b>	<b>4.95</b>	<b>4.98</b>	<b>5.23</b>	<b>5.49</b>	<b>5.80</b>	<b>6.07</b>	<b>6.54</b>	<b>6.90</b>	<b>7.29</b>	<b>7.61</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	0.30	0.30	0.30	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	N/A
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	1.39	1.54	1.66	1.79	1.91	2.56	2.66	3.02	3.05	3.32	3.34	3.34	3.49	3.67	7.9%
Petroleum	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	0.7%
Natural Gas	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	0.10	3.3%

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.28	0.29	0.31	0.32	0.34	2.6%
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	N/A
Total	1.84	2.00	2.13	2.26	2.39	3.05	3.16	3.53	3.57	3.86	3.89	3.91	4.07	4.27	6.4%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	62.38	63.10	63.87	64.79	65.21	65.86	66.50	67.31	67.77	68.41	69.03	69.77	70.15	70.70	1.1%
Commercial/Other	57.10	57.91	58.72	59.55	60.38	61.23	62.11	62.97	63.89	64.85	65.84	66.87	67.90	68.97	1.6%
Industrial	55.74	55.67	55.87	55.93	56.10	56.34	56.23	56.24	56.59	56.75	57.09	57.28	57.32	57.44	0.5%
Transportation	1.02	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.07	1.07	1.07	1.08	1.08	0.6%
Total Sales	176.25	177.71	179.50	181.31	182.73	184.48	185.89	187.58	189.32	191.07	193.03	194.99	196.45	198.18	1.1%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	9.06	9.30	9.10	8.36	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37	-1.7%
Gross International Exports	3.60	3.57	3.55	3.55	3.55	3.46	3.38	3.21	3.05	3.05	3.05	3.05	3.05	3.05	-0.5%
Gross Interregional Electricity Imports	4.75	3.30	3.08	2.24	0.79	0.67	1.06	0.79	1.04	1.03	1.93	2.46	2.10	1.77	-6.1%
Gross Interregional Electricity Exports	18.55	17.63	18.51	17.45	16.81	17.64	16.93	16.40	16.00	16.26	15.31	14.86	16.62	17.72	0.1%
Purchases from Combined Heat and Power 8/	4.69	5.44	6.02	6.65	7.25	10.40	10.92	12.63	12.80	14.15	14.25	14.27	14.97	15.86	15.2%
Electric Power Sector Generation for Customers	192.40	193.48	196.14	197.97	199.72	199.30	199.11	199.41	199.63	200.48	200.62	201.71	204.71	207.10	1.1%
Total Net Energy for Load	188.75	190.32	192.28	194.23	195.76	197.63	199.14	201.59	202.78	204.70	206.81	208.91	210.49	212.34	1.1%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	141.85	142.72	144.51	147.61	149.36	149.45	149.52	149.35	149.41	150.30	150.52	151.41	155.11	157.68	1.2%
Petroleum	0.70	0.80	0.91	0.92	0.93	0.90	0.88	0.88	0.87	0.87	0.86	0.88	0.87	0.89	-0.1%
Natural Gas	3.06	2.99	3.80	3.19	3.21	2.69	2.37	2.41	2.54	2.49	2.52	2.56	2.56	2.60	-1.9%
Nuclear	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	0.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	22.26	22.44	22.40	21.72	21.69	21.73	21.81	22.25	22.28	22.29	22.19	22.34	21.63	21.40	2.5%
Total Generation	192.97	194.05	196.71	198.53	200.28	199.86	199.68	199.98	200.19	201.04	201.19	202.28	205.28	207.67	1.1%
Sales to Customers	192.40	193.48	196.14	197.97	199.72	199.30	199.11	199.41	199.63	200.48	200.62	201.71	204.71	207.10	1.1%
Generation for Own Use	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	-3.4%
Distributed Generation 5/	0.04	0.05	0.06	0.06	0.07	0.08	0.10	0.13	0.15	0.18	0.21	0.24	0.24	0.25	N/A
<b>End-Use Sectors 8/</b>															
Coal	9.01	10.22	11.16	12.16	13.12	18.22	19.05	21.83	22.09	24.26	24.41	24.42	25.54	26.97	10.2%
Petroleum	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	3.4%
Natural Gas	0.59	0.61	0.64	0.67	0.69	0.72	0.75	0.77	0.80	0.83	0.85	0.88	0.91	0.94	3.9%
Other Gaseous Fuels	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	0.8%
Renewable Sources 4/	1.01	1.03	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.19	1.22	1.25	1.28	1.32	1.9%
Other	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	0.0%
Total	10.91	12.17	13.14	14.19	15.19	20.35	21.23	24.06	24.37	26.60	26.80	26.87	28.06	29.55	8.6%
Sales to Utilities	4.69	5.44	6.02	6.65	7.25	10.40	10.92	12.63	12.80	14.15	14.25	14.27	14.97	15.86	15.2%
Generation for Own Use	6.22	6.72	7.11	7.54	7.95	9.95	10.31	11.42	11.56	12.45	12.55	12.60	13.09	13.70	5.8%
Total Electricity Generation	203.92	206.27	209.90	212.79	215.55	220.29	221.01	224.16	224.71	227.82	228.20	229.38	233.59	237.48	1.5%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.5	7.4	-0.3%
Commercial	6.3	6.4	6.4	6.4	6.4	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4	0.0%
Industrial	4.7	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	0.0%

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	5.6	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	0.4%
All Sectors Average	6.2	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.3	6.3	6.3	6.3	6.3	-0.1%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	3.4	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.7	-0.1%
Transmission	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%
Distribution	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	-0.5%
Fuel Consumption (quadrillion Btu) 9/															
Coal	1.51	1.52	1.54	1.56	1.58	1.58	1.58	1.58	1.58	1.59	1.59	1.60	1.63	1.65	0.9%
Natural Gas	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	-3.3%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.4%
Total	1.54	1.55	1.57	1.60	1.61	1.61	1.61	1.61	1.61	1.62	1.62	1.63	1.66	1.68	0.8%
Fuel Prices (dollars per million Btu)															
Coal	1.26	1.36	1.27	1.28	1.28	1.26	1.26	1.27	1.29	1.30	1.31	1.33	1.34	1.28	1.3%
Natural Gas	5.47	5.36	5.30	5.43	5.38	5.50	5.63	5.69	5.68	5.69	5.77	5.90	5.99	6.04	-1.0%
Distillate Fuel Oil	8.54	8.64	8.91	8.94	9.09	9.18	9.12	9.22	9.20	9.24	9.41	9.54	9.80	9.83	-0.6%
Residual Fuel Oil	5.09	5.12	5.31	5.37	5.48	5.60	5.55	5.68	5.70	5.79	5.83	5.88	5.97	6.02	0.0%
Biomass	1.92	1.94	1.94	1.89	1.88	1.87	1.89	1.92	1.92	1.92	1.92	1.92	1.88	1.87	2.2%
Emissions 10/															
Total Carbon (million tons)	44.55	44.80	45.44	46.20	46.67	46.60	46.58	46.53	46.53	46.66	46.75	46.94	47.89	48.49	0.9%
Carbon Dioxide (million tons)	163.36	164.27	166.62	169.40	171.13	170.85	170.81	170.61	170.62	171.10	171.40	172.13	175.59	177.79	0.9%
Sulfur Dioxide (million tons)	0.25	0.25	0.20	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.16	0.17	0.17	-3.2%
Nitrogen Oxide (million tons)	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	-2.1%
Mercury (tons)	1.85	1.48	1.40	1.24	1.08	1.01	1.00	0.99	0.97	0.96	0.97	0.95	0.89	0.65	-6.5%

Table 66. Electric Power Projections for EMM Region  
Mid-Continent Area Power Pool - 05

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 67 Electric Power Projections for EMM Region  
 Northeast Power Coordinating Council/ New York - 06

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.17	3.23	3.23	3.23
Other Fossil Steam 2/	11.92	11.76	11.39	11.39	11.39	11.39	11.39	11.39	8.11	8.11	8.11	8.11	8.11
Combined Cycle	5.75	7.90	8.65	8.65	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.97	9.17
Combustion Turbine/Diesel	4.54	4.54	4.54	4.71	4.71	4.71	4.71	4.71	3.44	3.44	3.44	3.44	3.44
Nuclear Power	5.75	5.83	5.83	5.83	5.83	5.83	5.92	5.92	5.92	5.92	5.92	5.92	5.92
Pumped Storage/Other 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	6.88	7.02	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.16	7.16	7.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capacity</b>	<b>39.36</b>	<b>41.57</b>	<b>42.06</b>	<b>42.23</b>	<b>42.38</b>	<b>42.38</b>	<b>42.47</b>	<b>42.47</b>	<b>37.92</b>	<b>37.87</b>	<b>37.96</b>	<b>38.13</b>	<b>38.32</b>
<b>Cumulative Planned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.80	0.80	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Combustion Turbine/Diesel	0.00	0.00	0.00	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.91</b>	<b>1.08</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.36
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.09</b>	<b>0.26</b>	<b>0.45</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.91</b>	<b>1.08</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.33</b>	<b>1.50</b>	<b>1.69</b>
<b>Cumulative Retirements 7/</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	0.04	0.04
Other Fossil Steam 3/	0.00	0.00	0.37	0.37	0.37	0.37	0.37	0.37	3.64	3.64	3.64	3.64	3.64
Combined Cycle	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	1.27	1.27
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.42</b>	<b>0.42</b>	<b>0.42</b>	<b>0.42</b>	<b>0.42</b>	<b>0.42</b>	<b>4.97</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>
<b>End-Use Sectors 8/</b>													
Coal	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Petroleum	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.20	0.20	0.20	0.20	0.20	0.20
Natural Gas	0.13	0.13	0.13	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19

Table 67 Electric Power Projections for EMM Region  
Northeast Power Coordinating Council/ New York - 06

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21
Renewable Sources 4/	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
Other	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	0.81	0.79	0.80	0.81	0.83	0.83	0.84	0.87	0.87	0.88	0.89	0.89	0.90
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	49.58	53.11	52.65	53.27	54.24	54.75	55.38	55.81	56.29	56.40	56.64	56.90	57.33
Commercial/Other	71.38	72.97	71.77	71.21	71.70	73.00	74.28	75.69	76.80	77.80	78.74	79.64	80.56
Industrial	24.21	24.28	23.44	23.28	23.03	23.00	23.15	23.35	23.47	23.54	23.58	23.58	23.62
Transportation	1.42	1.43	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.45	1.46	1.47	1.47
Total Sales	146.59	151.78	149.24	149.15	150.38	152.17	154.24	156.30	158.01	159.19	160.42	161.59	162.98
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	9.46	10.72	14.68	12.10	8.86	8.21	8.48	7.49	7.23	10.27	9.65	1.56	1.89
Gross International Exports	4.26	3.42	3.84	4.72	4.24	4.82	4.38	4.44	4.58	4.64	4.41	4.18	3.96
Gross Interregional Electricity Imports	4.98	18.70	11.32	5.68	3.26	5.19	5.19	5.19	3.45	0.57	1.13	5.01	3.94
Gross Interregional Electricity Exports	5.21	8.94	8.23	3.26	3.03	4.00	4.04	3.75	5.25	3.69	4.70	4.56	4.16
Purchases from Combined Heat and Power 8/	0.52	0.49	0.53	0.66	0.67	0.68	0.70	0.71	0.73	0.74	0.76	0.77	0.79
Electric Power Sector Generation for Custome	138.99	147.00	145.51	149.16	155.31	157.32	158.75	161.54	166.89	166.45	168.42	173.31	174.99
Total Net Energy for Load	144.47	164.56	159.98	159.62	160.82	162.58	164.69	166.75	168.46	169.71	170.86	171.92	173.50
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	19.02	17.76	20.50	19.24	19.23	19.68	20.19	20.65	20.41	20.83	21.55	21.91	21.76
Petroleum	21.15	23.89	9.96	19.36	19.51	19.56	19.65	19.79	22.53	22.51	22.55	22.59	22.62
Natural Gas	28.48	33.61	35.49	30.08	36.62	39.17	39.98	42.37	45.19	44.56	45.49	50.01	51.66
Nuclear	46.58	47.92	46.64	46.64	46.41	45.93	46.59	46.59	46.59	46.59	46.59	46.59	46.59
Pumped Storage/Other 3/	-0.81	-0.78	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57
Renewable Sources 4/	26.30	26.40	35.04	35.97	35.66	35.11	34.47	34.27	34.23	34.03	34.30	34.28	34.42
Total Generation	140.72	148.80	147.07	150.72	156.87	158.88	160.32	163.11	168.38	167.95	169.92	174.81	176.49
Sales to Customers	138.99	147.00	145.51	149.16	155.31	157.32	158.75	161.54	166.89	166.45	168.42	173.31	174.99
Generation for Own Use	1.73	1.80	1.56	1.56	1.56	1.56	1.57	1.57	1.49	1.50	1.50	1.50	1.50
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Petroleum	0.25	0.24	0.25	0.46	0.46	0.46	0.46	0.54	0.54	0.54	0.54	0.54	0.54
Natural Gas	1.20	1.12	1.13	1.26	1.32	1.37	1.42	1.48	1.54	1.59	1.65	1.71	1.77
Other Gaseous Fuels	0.24	0.20	0.15	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19
Renewable Sources 4/	0.44	0.41	0.42	0.43	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.49	0.50
Other	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total	2.92	2.75	2.72	3.10	3.17	3.22	3.28	3.43	3.49	3.56	3.64	3.70	3.77
Sales to Utilities	0.52	0.49	0.53	0.66	0.67	0.68	0.70	0.71	0.73	0.74	0.76	0.77	0.79
Generation for Own Use	2.40	2.25	2.20	2.44	2.50	2.54	2.59	2.72	2.77	2.82	2.88	2.93	2.98
Total Electricity Generation	143.64	151.55	149.79	153.82	160.04	162.10	163.60	166.54	171.88	171.51	173.55	178.51	180.26
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	15.0	15.6	14.5	13.9	13.8	13.7	13.5	13.3	13.7	13.6	13.6	13.6	13.7
Commercial	13.4	14.3	13.7	13.0	12.7	12.1	11.5	10.9	11.2	11.1	11.0	11.1	11.1
Industrial	7.3	8.2	8.3	7.9	7.7	7.4	7.1	6.7	6.9	6.8	6.7	6.7	6.8

Table 67 Electric Power Projections for EMM Region  
 Northeast Power Coordinating Council/ New York - 06

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	11.3	11.3	11.7	11.6	11.5	11.3	11.0	10.7	10.9	10.8	10.7	10.7	10.8
All Sectors Average	12.9	13.9	13.1	12.5	12.3	11.9	11.5	11.1	11.5	11.3	11.3	11.3	11.4
Prices by Service Category (2005 cents per kilowatthour)													
Generation	7.8	8.6	7.8	7.2	7.0	6.6	6.2	5.8	6.1	6.0	5.9	5.9	6.0
Transmission	1.5	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Distribution	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.9
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.19	0.22	0.22	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23
Natural Gas	0.27	0.32	0.34	0.26	0.31	0.33	0.34	0.35	0.37	0.36	0.37	0.40	0.41
Oil	0.22	0.25	0.11	0.21	0.21	0.21	0.21	0.22	0.24	0.24	0.25	0.25	0.25
Total	0.69	0.78	0.67	0.68	0.73	0.76	0.77	0.79	0.83	0.83	0.84	0.88	0.89
Fuel Prices (dollars per million Btu)													
Coal	1.32	1.58	1.60	1.72	1.77	1.85	2.12	2.00	1.97	1.94	1.92	1.89	1.81
Natural Gas	6.90	9.32	7.91	7.70	7.22	6.64	6.36	5.95	5.78	5.55	5.57	5.52	5.61
Distillate Fuel Oil	9.13	11.39	14.13	16.53	14.19	13.10	12.16	11.34	10.69	9.92	9.86	9.94	9.98
Residual Fuel Oil	5.15	7.36	8.81	5.85	5.16	4.98	4.71	4.33	4.24	3.69	3.80	3.94	3.95
Biomass	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
Emissions 10/													
Total Carbon (million tons)	14.98	14.83	14.19	15.07	15.84	16.32	16.59	17.03	17.78	17.83	18.13	18.78	18.92
Carbon Dioxide (million tons)	54.93	54.39	52.04	55.24	58.09	59.86	60.81	62.44	65.18	65.39	66.49	68.87	69.36
Sulfur Dioxide (million tons)	0.28	0.25	0.21	0.23	0.25	0.22	0.20	0.19	0.20	0.19	0.18	0.18	0.17
Nitrogen Oxide (million tons)	0.05	0.05	0.06	0.06	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04
Mercury (tons)	0.85	0.71	0.72	0.81	0.73	0.70	0.45	0.37	0.28	0.28	0.27	0.26	0.25

Table 67 Electric Power Projections for EMM Region  
 Northeast Power Coordinating Council/ New York - 06

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	3.23	3.23	3.23	3.23	3.23	3.50	3.78	4.08	4.35	4.66	5.01	5.36	5.75	6.61	2.9%
Other Fossil Steam 2/	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	-1.5%
Combined Cycle	9.34	9.51	9.72	9.95	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	1.0%
Combustion Turbine/Diesel	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	-1.1%
Nuclear Power	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.34	-0.4%
Pumped Storage/Other 3/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	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	N/A
Renewable Sources 4/	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.23	0.1%
Distributed Generation 5/	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
<b>Total Capacity</b>	<b>38.50</b>	<b>38.67</b>	<b>38.89</b>	<b>39.12</b>	<b>39.33</b>	<b>39.61</b>	<b>39.90</b>	<b>40.19</b>	<b>40.46</b>	<b>40.78</b>	<b>41.12</b>	<b>41.47</b>	<b>41.86</b>	<b>42.21</b>	<b>0.1%</b>
<b>Cumulative Planned Additions 6/</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	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	N/A
Combined Cycle	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
Combustion Turbine/Diesel	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	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	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	N/A
Renewable Sources 4/	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	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	0.06	0.06	0.06	0.06	0.06	0.33	0.61	0.91	1.18	1.49	1.84	2.19	2.58	3.45	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	N/A
Combined Cycle	0.54	0.71	0.92	1.14	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	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	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	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	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	N/A
Renewable Sources 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.10	N/A
Distributed Generation 5/	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
<b>Total Unplanned Additions</b>	<b>0.63</b>	<b>0.80</b>	<b>1.01</b>	<b>1.25</b>	<b>1.46</b>	<b>1.74</b>	<b>2.02</b>	<b>2.32</b>	<b>2.59</b>	<b>2.90</b>	<b>3.25</b>	<b>3.60</b>	<b>3.99</b>	<b>4.92</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>1.87</b>	<b>2.04</b>	<b>2.25</b>	<b>2.48</b>	<b>2.70</b>	<b>2.97</b>	<b>3.26</b>	<b>3.55</b>	<b>3.83</b>	<b>4.14</b>	<b>4.49</b>	<b>4.83</b>	<b>5.23</b>	<b>6.16</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Other Fossil Steam 3/	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	N/A
Combined Cycle	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	N/A
Combustion Turbine/Diesel	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.02</b>	<b>5.60</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
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	N/A
Petroleum	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	0.7%
Natural Gas	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.28	0.28	0.29	3.3%

Table 67 Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	2.6%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Total	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.01	1.02	1.03	1.04	1.06	1.2%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	57.45	57.71	58.02	58.48	58.52	58.80	59.06	59.45	59.53	59.77	60.03	60.40	60.42	60.60	0.5%
Commercial/Other	81.47	82.33	83.23	84.19	85.17	86.21	87.25	88.23	89.27	90.36	91.51	92.65	93.82	95.01	1.1%
Industrial	23.48	23.31	23.27	23.24	23.17	23.11	22.98	22.86	22.81	22.79	22.75	22.69	22.63	22.61	-0.3%
Transportation	1.48	1.48	1.49	1.49	1.50	1.50	1.50	1.50	1.51	1.51	1.51	1.51	1.51	1.51	0.2%
Total Sales	163.88	164.84	166.01	167.40	168.35	169.62	170.79	172.05	173.11	174.43	175.80	177.25	178.38	179.72	0.7%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	5.18	3.59	6.30	5.14	5.78	6.13	6.47	6.78	5.02	4.72	2.76	2.45	2.18	2.60	-5.5%
Gross International Exports	3.84	3.72	3.53	3.42	3.32	3.21	3.19	3.18	3.16	3.16	3.16	3.16	3.16	3.16	-0.3%
Gross Interregional Electricity Imports	0.83	1.07	2.10	4.30	5.99	7.82	10.21	10.14	11.07	12.52	13.79	13.78	13.79	13.79	-1.2%
Gross Interregional Electricity Exports	3.79	3.36	3.31	3.55	3.64	3.42	3.71	4.14	4.39	4.32	4.08	5.27	5.53	5.58	-1.9%
Purchases from Combined Heat and Power 8/	0.81	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.99	1.00	1.02	1.05	1.07	3.1%
Electric Power Sector Generation for Custome	175.27	177.07	174.32	174.87	173.53	172.36	171.12	172.61	174.78	174.95	176.84	179.88	181.57	182.61	0.9%
Total Net Energy for Load	174.45	175.48	176.72	178.21	179.22	180.58	181.82	183.16	184.29	185.69	187.16	188.71	189.90	191.34	0.6%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	22.42	22.46	22.46	22.46	22.50	24.55	26.57	28.76	30.79	33.13	35.69	38.27	41.20	48.17	4.1%
Petroleum	22.63	22.64	22.48	22.45	22.33	22.18	22.13	22.10	22.11	22.01	21.97	22.00	21.97	21.97	-0.3%
Natural Gas	51.24	53.04	50.44	51.03	49.81	46.76	43.48	42.82	42.95	40.88	40.24	40.67	39.45	38.26	0.5%
Nuclear	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	41.87	-0.5%
Pumped Storage/Other 3/	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-1.3%
Renewable Sources 4/	34.46	34.41	34.41	34.41	34.36	34.34	34.41	34.41	34.41	34.41	34.41	34.42	34.42	34.41	1.1%
Total Generation	176.77	178.57	175.82	176.37	175.03	173.86	172.62	174.11	176.28	176.45	178.34	181.38	183.07	184.11	0.9%
Sales to Customers	175.27	177.07	174.32	174.87	173.53	172.36	171.12	172.61	174.78	174.95	176.84	179.88	181.57	182.61	0.9%
Generation for Own Use	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	-0.7%
Distributed Generation 5/	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	N/A
<b>End-Use Sectors 8/</b>															
Coal	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	N/A
Petroleum	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	3.4%
Natural Gas	1.83	1.91	1.98	2.07	2.15	2.22	2.32	2.39	2.47	2.57	2.65	2.73	2.83	2.92	3.9%
Other Gaseous Fuels	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.8%
Renewable Sources 4/	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.61	0.62	0.64	0.66	1.9%
Other	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	0.0%
Total	3.85	3.94	4.01	4.13	4.22	4.30	4.42	4.51	4.60	4.72	4.82	4.91	5.05	5.15	2.5%
Sales to Utilities	0.81	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.99	1.00	1.02	1.05	1.07	3.1%
Generation for Own Use	3.04	3.11	3.17	3.27	3.33	3.40	3.50	3.56	3.64	3.74	3.81	3.89	4.00	4.08	2.4%
Total Electricity Generation	180.61	182.51	179.84	180.51	179.25	178.17	177.05	178.63	180.89	181.19	183.18	186.30	188.13	189.27	0.9%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	13.8	13.8	13.8	13.8	13.8	13.9	13.9	14.0	14.0	14.0	14.1	14.2	14.3	14.3	-0.4%
Commercial	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.4	11.4	11.5	11.5	-0.9%
Industrial	6.9	6.9	6.9	6.9	6.9	6.9	7.0	7.1	7.1	7.1	7.1	7.2	7.2	7.2	-0.5%

Table 67 Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	10.9	10.9	10.9	10.9	10.9	10.9	11.0	11.1	11.1	11.1	11.1	11.2	11.2	11.2	0.0%
All Sectors Average	11.5	11.6	11.6	11.6	11.6	11.6	11.7	11.7	11.7	11.7	11.8	11.8	11.9	11.9	-0.6%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	6.1	6.1	6.1	6.1	6.1	6.1	6.2	6.3	6.3	6.3	6.3	6.4	6.5	6.4	-1.1%
Transmission	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.2%
Distribution	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	0.2%
Fuel Consumption (quadrillion Btu) 9/															
Coal	0.24	0.24	0.24	0.24	0.24	0.26	0.27	0.29	0.30	0.32	0.34	0.35	0.38	0.43	2.8%
Natural Gas	0.41	0.42	0.40	0.40	0.39	0.37	0.35	0.34	0.34	0.33	0.32	0.32	0.32	0.31	-0.1%
Oil	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	-0.1%
Total	0.89	0.90	0.88	0.89	0.87	0.87	0.86	0.87	0.88	0.89	0.90	0.92	0.93	0.98	0.9%
Fuel Prices (dollars per million Btu)															
Coal	1.82	1.80	1.80	1.77	1.77	1.76	1.76	1.77	1.80	1.82	1.81	1.84	1.85	1.88	0.7%
Natural Gas	5.80	5.78	5.74	5.81	5.75	5.84	5.94	6.03	6.01	6.01	6.10	6.22	6.28	6.29	-1.6%
Distillate Fuel Oil	10.07	10.16	10.38	10.47	10.59	10.74	10.68	10.83	10.87	10.93	11.11	11.20	11.36	11.43	0.0%
Residual Fuel Oil	4.01	4.11	4.37	4.35	4.49	4.73	4.48	4.77	4.81	4.74	4.78	4.86	4.77	4.83	-1.7%
Biomass	0.73	0.78	0.73	0.73	0.84	0.84	0.89	1.03	0.94	0.86	0.98	1.00	1.01	1.86	3.8%
Emissions 10/															
Total Carbon (million tons)	19.09	19.30	18.95	18.97	18.81	18.84	18.88	19.24	19.67	19.89	20.32	20.91	21.35	22.71	1.7%
Carbon Dioxide (million tons)	70.00	70.77	69.48	69.57	68.97	69.10	69.24	70.56	72.13	72.94	74.52	76.67	78.29	83.26	1.7%
Sulfur Dioxide (million tons)	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	-1.8%
Nitrogen Oxide (million tons)	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	-1.2%
Mercury (tons)	0.24	0.22	0.22	0.23	0.23	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.31	-3.3%

Table 67 Electric Power Projections for EMM Region  
Northeast Power Coordinating Council/ New York - 06

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 68. Electric Power Projections for EMM Region  
 Northeast Power Coordinating Council/New England - 07

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/ (gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.55	3.55	3.55	3.55
Other Fossil Steam 2/	7.22	7.22	7.22	7.22	7.22	7.22	7.22	7.22	4.95	4.95	4.95	4.95	4.95
Combined Cycle	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.69
Combustion Turbine/Diesel	2.37	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.54	2.61
Nuclear Power	3.70	3.78	3.78	3.78	3.78	3.78	3.88	3.88	3.88	3.88	3.88	3.88	3.88
Pumped Storage/Other 3/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	3.00	3.04	3.09	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.57	3.57	3.57
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04
Total Capacity	32.08	32.18	32.23	32.68	32.68	32.68	32.78	32.78	30.51	30.29	30.33	30.53	30.94
<b>Cumulative Planned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.06	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	0.06	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
<b>Cumulative Unplanned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
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	0.18	0.26
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.24	0.65
Cumulative Total Additions	0.00	0.00	0.06	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.54	0.74	1.15
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	2.27	2.27	2.27	2.27
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	2.49	2.49	2.49	2.49
<b>End-Use Sectors 8/</b>													
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Petroleum	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.35	0.35	0.35	0.35	0.35	0.35
Natural Gas	0.18	0.17	0.18	0.20	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.25
Other Gaseous Fuels	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Renewable Sources 4/	0.67	0.65	0.67	0.69	0.70	0.72	0.74	0.75	0.77	0.79	0.80	0.81	0.83

Table 68. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council/New England - 07

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	1.56	1.54	1.56	1.60	1.63	1.65	1.68	1.74	1.76	1.79	1.81	1.83	1.85
<b>Electricity Demand</b>													
(billion kilowatthours)													
Residential	46.76	48.91	49.68	50.54	51.78	52.51	53.23	53.73	54.40	54.66	55.08	55.44	55.99
Commercial/Other	53.89	53.92	54.27	54.42	55.47	56.75	57.88	59.17	60.47	61.65	62.78	63.76	64.85
Industrial	24.29	24.72	23.63	23.79	23.63	23.60	23.76	23.95	24.06	24.10	24.15	24.14	24.16
Transportation	1.21	1.22	1.22	1.23	1.24	1.26	1.27	1.28	1.29	1.30	1.30	1.31	1.32
Total Sales	126.15	128.77	128.80	129.98	132.12	134.11	136.13	138.13	140.22	141.72	143.31	144.65	146.32
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	8.22	9.58	8.58	6.89	6.39	3.20	5.40	6.69	5.99	4.86	3.89	7.19	8.93
Gross International Exports	0.28	0.84	0.55	0.54	0.52	0.51	0.50	0.49	0.49	0.49	0.49	0.49	0.49
Gross Interregional Electricity Imports	6.19	9.84	9.21	4.29	4.06	5.01	5.05	4.77	6.25	4.60	5.42	5.16	4.63
Gross Interregional Electricity Exports	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
Purchases from Combined Heat and Power 8/	1.69	1.56	1.69	2.16	2.20	2.23	2.27	2.33	2.37	2.42	2.47	2.51	2.55
Electric Power Sector Generation for Customer	116.20	119.08	118.99	126.28	129.18	133.39	133.16	134.11	135.42	139.66	141.34	139.59	140.12
Total Net Energy for Load	132.00	139.20	137.92	139.09	141.30	143.31	145.38	147.41	149.54	151.04	152.62	153.95	155.73
<b>Generation by Fuel Type</b>													
(billion kilowatthours)													
<b>Electric Power Sector</b>													
Coal	22.16	22.86	21.82	22.16	22.61	23.31	23.15	23.68	24.34	24.46	25.21	25.24	25.33
Petroleum	11.07	11.60	5.58	6.80	7.09	7.07	7.62	8.01	7.46	11.42	11.43	9.80	8.20
Natural Gas	43.67	46.42	52.87	56.87	59.49	63.32	62.12	62.39	63.24	63.26	63.46	63.28	65.44
Nuclear	30.58	29.09	29.53	29.53	29.43	29.30	30.11	30.11	30.11	30.11	30.11	30.11	30.11
Pumped Storage/Other 3/	-0.49	-0.45	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52
Renewable Sources 4/	13.36	13.80	13.16	14.91	14.56	14.38	14.20	13.97	14.05	14.17	14.91	14.94	14.82
Total Generation	120.34	123.34	122.43	129.74	132.65	136.87	136.67	137.63	138.68	142.90	144.59	142.85	143.37
Sales to Customers	116.20	119.08	118.99	126.28	129.18	133.39	133.16	134.11	135.42	139.66	141.34	139.59	140.12
Generation for Own Use	4.14	4.26	3.45	3.46	3.47	3.48	3.51	3.52	3.25	3.24	3.25	3.26	3.26
Distributed Generation 5/	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
<b>End-Use Sectors 8/</b>													
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
Petroleum	1.25	1.24	1.25	2.34	2.37	2.37	2.37	2.73	2.73	2.73	2.74	2.74	2.74
Natural Gas	2.75	2.58	2.60	2.91	3.03	3.14	3.27	3.42	3.53	3.66	3.80	3.94	4.07
Other Gaseous Fuels	1.20	1.00	0.77	0.86	0.91	0.91	0.91	0.94	0.94	0.94	0.96	0.96	0.96
Renewable Sources 4/	3.42	3.18	3.24	3.31	3.33	3.36	3.42	3.49	3.56	3.63	3.70	3.75	3.82
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.83	8.20	8.08	9.63	9.86	10.00	10.18	10.78	10.98	11.17	11.42	11.61	11.81
Sales to Utilities	1.69	1.56	1.69	2.16	2.20	2.23	2.27	2.33	2.37	2.42	2.47	2.51	2.55
Generation for Own Use	7.14	6.64	6.39	7.47	7.66	7.77	7.91	8.45	8.60	8.76	8.95	9.10	9.25
Total Electricity Generation	129.16	131.54	130.51	139.37	142.50	146.86	146.85	148.41	149.65	154.07	156.01	154.47	155.20
<b>End-Use Prices</b>													
(2005 cents per kilowatthour)													
Residential	12.3	13.4	13.2	12.0	11.8	11.8	11.8	11.6	11.5	11.6	11.5	11.7	11.6
Commercial	11.0	11.9	12.1	10.8	10.5	10.2	10.0	9.5	9.4	9.4	9.3	9.6	9.5
Industrial	8.5	9.1	10.8	10.1	9.9	9.3	8.7	8.0	7.5	7.5	7.3	7.5	7.4
Transportation	11.0	10.1	11.3	10.4	10.2	10.1	10.0	9.7	9.5	9.6	9.4	9.5	9.4
All Sectors Average	11.0	12.0	12.3	11.2	10.9	10.7	10.5	10.1	9.9	10.0	9.8	10.0	10.0
<b>Prices by Service Category</b>													

Table 68. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council/New England - 07

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
(2005 cents per kilowatthour)													
Generation	6.6	7.7	8.0	6.8	6.6	6.3	6.1	5.7	5.5	5.6	5.4	5.7	5.6
Transmission	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Distribution	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.20	0.23	0.23	0.24	0.24	0.25	0.24	0.24	0.25	0.25	0.26	0.26	0.26
Natural Gas	0.35	0.36	0.40	0.43	0.45	0.47	0.46	0.47	0.47	0.47	0.48	0.48	0.49
Oil	0.11	0.12	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.12	0.12	0.10	0.09
Total	0.66	0.71	0.69	0.73	0.76	0.80	0.79	0.79	0.80	0.84	0.85	0.84	0.84
Fuel Prices (dollars per million Btu)													
Coal	2.13	2.37	1.98	2.12	2.20	2.26	2.74	2.82	2.87	2.90	2.91	2.87	2.87
Natural Gas	6.80	9.38	8.00	7.91	7.40	6.79	6.47	6.10	5.95	5.66	5.69	5.61	5.68
Distillate Fuel Oil	9.24	11.52	14.40	14.49	12.37	11.25	10.29	9.45	8.79	8.00	7.94	8.02	8.06
Residual Fuel Oil	4.85	6.89	8.24	6.16	5.43	5.25	4.98	4.59	4.50	3.96	4.07	4.20	4.21
Biomass	2.24	2.40	2.47	2.42	2.31	2.24	2.22	2.23	2.24	2.21	2.24	2.25	2.25
Emissions 10/													
Total Carbon (million tons)	16.64	14.83	14.42	15.23	15.75	16.43	16.20	16.42	16.61	17.57	17.86	17.44	17.31
Carbon Dioxide (million tons)	61.02	54.38	52.88	55.85	57.74	60.23	59.39	60.19	60.89	64.44	65.47	63.96	63.48
Sulfur Dioxide (million tons)	0.26	0.19	0.17	0.17	0.18	0.17	0.15	0.15	0.13	0.14	0.14	0.13	0.12
Nitrogen Oxide (million tons)	0.04	0.04	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06
Mercury (tons)	0.82	0.65	0.69	0.83	0.83	0.81	0.72	0.69	0.70	0.55	0.40	0.39	0.41

Table 68. Electric Power Projections for EMM Region  
 Northeast Power Coordinating Council/New England - 07

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b> (gigawatts)															
<b>Electric Power Sector</b>															
Coal Steam	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.56	3.56	-0.2%
Other Fossil Steam 2/	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.93	4.93	-1.5%
Combined Cycle	11.06	11.41	11.81	12.18	12.53	12.93	13.25	13.60	13.94	14.29	14.69	14.69	14.69	14.69	1.4%
Combustion Turbine/Diesel	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	0.4%
Nuclear Power	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	4.65	5.46	1.5%
Pumped Storage/Other 3/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	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	N/A
Renewable Sources 4/	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.65	3.67	0.8%
Distributed Generation 5/	0.06	0.08	0.10	0.15	0.20	0.27	0.32	0.39	0.45	0.51	0.58	0.60	0.63	0.65	N/A
Total Capacity	31.33	31.69	32.11	32.53	32.94	33.40	33.77	34.19	34.59	35.01	35.48	35.50	36.36	37.21	0.6%
<b>Cumulative Planned Additions 6/</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	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	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	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	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	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	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	N/A
Renewable Sources 4/	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
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	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
<b>Cumulative Unplanned Additions 6/</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	0.01	0.01	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	N/A
Combined Cycle	0.69	1.04	1.44	1.80	2.16	2.56	2.87	3.23	3.56	3.92	4.31	4.31	4.31	4.31	N/A
Combustion Turbine/Diesel	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
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	0.77	1.57	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	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	N/A
Renewable Sources 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.11	0.13	N/A
Distributed Generation 5/	0.06	0.08	0.10	0.15	0.20	0.27	0.32	0.39	0.45	0.51	0.58	0.60	0.63	0.65	N/A
Total Unplanned Additions	1.04	1.41	1.82	2.25	2.65	3.12	3.49	3.90	4.30	4.72	5.19	5.21	6.09	6.94	N/A
Cumulative Total Additions	1.54	1.90	2.32	2.75	3.15	3.61	3.98	4.40	4.80	5.22	5.69	5.71	6.59	7.44	N/A
<b>Cumulative Retirements 7/</b>															
Coal Steam	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
Other Fossil Steam 3/	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.29	2.29	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	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	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.50	2.50	N/A
<b>End-Use Sectors 8/</b>															
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	N/A
Petroleum	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.7%
Natural Gas	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.36	0.38	0.39	3.3%
Other Gaseous Fuels	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.4%
Renewable Sources 4/	0.84	0.85	0.87	0.89	0.91	0.92	0.95	0.98	1.01	1.04	1.08	1.13	1.17	1.24	2.6%

Table 68. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council/New England - 07

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other	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	N/A
Total	1.88	1.90	1.92	1.96	1.99	2.02	2.06	2.10	2.14	2.19	2.24	2.29	2.36	2.44	1.9%
<b>Electricity Demand</b>															
(billion kilowatthours)															
Residential	56.29	56.73	57.19	57.80	57.93	58.32	58.69	59.20	59.38	59.71	60.03	60.45	60.50	60.75	0.9%
Commercial/Other	66.01	67.12	68.23	69.37	70.52	71.78	73.02	74.29	75.59	76.92	78.29	79.54	80.88	82.38	1.7%
Industrial	24.01	23.82	23.76	23.72	23.64	23.57	23.44	23.31	23.25	23.21	23.17	23.08	23.00	22.96	-0.3%
Transportation	1.33	1.34	1.34	1.35	1.36	1.36	1.37	1.37	1.38	1.38	1.38	1.39	1.39	1.39	0.5%
Total Sales	147.64	149.01	150.52	152.24	153.45	155.03	156.52	158.17	159.59	161.22	162.88	164.46	165.76	167.48	1.1%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	8.33	8.54	7.35	6.66	6.49	6.27	5.96	6.22	6.26	6.58	8.67	9.00	9.24	8.80	-0.3%
Gross International Exports	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-2.1%
Gross Interregional Electricity Imports	4.14	3.59	3.42	3.57	3.53	3.23	3.20	2.93	3.29	3.30	3.18	4.41	4.25	4.66	-2.9%
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	6.1%
Purchases from Combined Heat and Power 8/	2.60	2.65	2.70	2.76	2.82	2.87	2.94	2.99	3.05	3.12	3.18	3.24	3.32	3.38	3.2%
Electric Power Sector Generation for Customer	142.56	144.31	147.23	149.54	150.98	153.13	154.99	156.71	157.76	159.08	158.82	158.87	160.15	161.90	1.2%
Total Net Energy for Load	157.14	158.59	160.20	162.04	163.32	165.01	166.59	168.35	169.86	171.58	173.34	175.02	176.43	178.23	1.0%
<b>Generation by Fuel Type</b>															
(billion kilowatthours)															
<b>Electric Power Sector</b>															
Coal	25.36	25.35	25.39	25.39	25.31	25.32	25.16	25.16	25.17	25.10	25.03	25.01	24.85	24.77	0.3%
Petroleum	7.82	7.29	7.07	7.05	6.61	6.57	6.56	6.53	6.49	6.48	6.41	6.53	6.32	6.31	-2.4%
Natural Gas	68.21	70.45	73.60	75.87	77.80	79.95	81.81	83.57	84.66	86.01	85.80	85.65	81.69	77.10	2.0%
Nuclear	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	34.96	41.29	1.4%
Pumped Storage/Other 3/	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	0.6%
Renewable Sources 4/	14.84	14.90	14.84	14.90	14.93	14.97	15.13	15.13	15.12	15.16	15.25	15.34	16.10	16.20	0.6%
Total Generation	145.81	147.57	150.49	152.79	154.24	156.39	158.25	159.97	161.02	162.34	162.08	162.13	163.40	165.16	1.2%
Sales to Customers	142.56	144.31	147.23	149.54	150.98	153.13	154.99	156.71	157.76	159.08	158.82	158.87	160.15	161.90	1.2%
Generation for Own Use	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	-1.1%
Distributed Generation 5/	0.03	0.03	0.04	0.07	0.09	0.12	0.14	0.17	0.20	0.22	0.26	0.26	0.27	0.29	N/A
<b>End-Use Sectors 8/</b>															
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	N/A
Petroleum	2.75	2.77	2.77	2.79	2.79	2.79	2.82	2.82	2.82	2.85	2.85	2.85	2.87	2.87	3.4%
Natural Gas	4.22	4.39	4.55	4.76	4.94	5.12	5.33	5.50	5.68	5.91	6.10	6.28	6.51	6.71	3.9%
Other Gaseous Fuels	0.99	1.01	1.01	1.06	1.06	1.06	1.11	1.11	1.11	1.16	1.16	1.16	1.21	1.21	0.8%
Renewable Sources 4/	3.87	3.92	3.98	4.05	4.12	4.19	4.27	4.36	4.45	4.55	4.67	4.79	4.91	5.05	1.9%
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	0.0%
Total	12.05	12.30	12.53	12.88	13.14	13.38	13.75	14.00	14.28	14.69	14.99	15.29	15.72	16.06	2.7%
Sales to Utilities	2.60	2.65	2.70	2.76	2.82	2.87	2.94	2.99	3.05	3.12	3.18	3.24	3.32	3.38	3.2%
Generation for Own Use	9.44	9.65	9.83	10.12	10.32	10.51	10.81	11.01	11.24	11.57	11.81	12.05	12.41	12.68	2.6%
Total Electricity Generation	157.89	159.91	163.06	165.75	167.46	169.88	172.14	174.14	175.49	177.25	177.32	177.68	179.40	181.51	1.3%
<b>End-Use Prices</b>															
(2005 cents per kilowatthour)															
Residential	11.6	11.7	11.7	11.7	11.8	11.7	11.8	11.8	11.8	11.9	11.9	12.0	12.1	12.0	-0.4%
Commercial	9.5	9.7	9.6	9.6	9.7	9.6	9.7	9.6	9.7	9.6	9.6	9.9	9.9	9.7	-0.8%
Industrial	7.4	7.5	7.5	7.5	7.6	7.5	7.6	7.6	7.7	7.7	7.7	7.9	7.9	7.8	-0.6%
Transportation	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.6	9.6	9.6	9.6	9.7	9.8	9.7	-0.2%
All Sectors Average	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.2	10.2	10.4	10.4	10.3	-0.6%
<b>Prices by Service Category</b>															

Table 68. Electric Power Projections for EMM Region  
 Northeast Power Coordinating Council/New England - 07

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
(2005 cents per kilowatthour)															
Generation	5.6	5.7	5.7	5.7	5.8	5.7	5.8	5.8	5.8	5.8	5.8	6.1	6.1	5.9	-1.0%
Transmission	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	0.3%
Distribution	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0%
Fuel Consumption (quadrillion Btu) 9/															
Coal	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	0.5%
Natural Gas	0.51	0.52	0.54	0.55	0.57	0.58	0.59	0.60	0.61	0.61	0.61	0.61	0.58	0.55	1.7%
Oil	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-2.4%
Total	0.85	0.86	0.88	0.89	0.90	0.91	0.92	0.93	0.93	0.94	0.93	0.94	0.90	0.87	0.8%
Fuel Prices (dollars per million Btu)															
Coal	2.89	2.89	2.85	2.85	2.83	2.84	2.85	2.84	2.87	2.85	2.83	2.83	2.82	2.84	0.7%
Natural Gas	5.91	5.85	5.80	5.91	5.81	5.95	6.08	6.13	6.14	6.17	6.26	6.39	6.45	6.45	-1.5%
Distillate Fuel Oil	8.14	8.23	8.45	8.54	8.65	8.81	8.75	8.90	8.94	9.01	9.24	9.34	9.50	9.57	-0.7%
Residual Fuel Oil	4.28	4.37	4.64	4.62	4.76	4.99	4.75	5.03	5.07	5.00	5.05	5.13	5.04	5.10	-1.2%
Biomass	2.26	2.26	2.23	2.22	2.20	2.19	2.20	2.22	2.21	2.22	2.23	2.25	2.32	2.39	0.0%
Emissions 10/															
Total Carbon (million tons)	17.51	17.60	17.89	18.10	18.15	18.35	18.48	18.64	18.72	18.82	18.72	18.73	18.17	17.61	0.7%
Carbon Dioxide (million tons)	64.21	64.55	65.59	66.36	66.56	67.27	67.75	68.33	68.64	69.01	68.63	68.69	66.62	64.56	0.7%
Sulfur Dioxide (million tons)	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	-1.9%
Nitrogen Oxide (million tons)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	1.1%
Mercury (tons)	0.39	0.43	0.37	0.35	0.35	0.34	0.33	0.34	0.33	0.24	0.23	0.21	0.16	0.13	-6.2%

Table 68. Electric Power Projections for EMM Region  
Northeast Power Coordinating Council/New England - 07

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 69 Electric Power Projections for EMM Region  
 Florida Reliability Coordinating Council - 08

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	10.37	10.37	10.37	10.37	10.37	10.37	10.37	10.37	11.12	11.12	11.28	11.28	11.28
Other Fossil Steam 2/	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.45	8.73	8.73	8.73	8.73	8.73
Combined Cycle	17.89	20.43	20.43	20.43	20.43	20.43	20.43	20.43	20.43	20.43	20.77	21.68	22.73
Combustion Turbine/Diesel	9.87	9.95	10.24	10.56	10.53	10.52	10.52	10.52	10.01	10.01	10.53	10.73	10.84
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.64	0.64	0.67	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06
<b>Total Capacity</b>	<b>53.18</b>	<b>55.79</b>	<b>56.11</b>	<b>56.44</b>	<b>56.42</b>	<b>56.41</b>	<b>56.41</b>	<b>56.36</b>	<b>54.87</b>	<b>54.87</b>	<b>55.91</b>	<b>57.04</b>	<b>58.22</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.75	0.75	0.75
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.31	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.34</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.25	2.29
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.72	0.84
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.04</b>	<b>2.17</b>	<b>3.35</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.34</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>1.43</b>	<b>1.43</b>	<b>2.46</b>	<b>3.60</b>	<b>4.78</b>
<b>Cumulative Retirements 7/</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
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.77	1.77	1.77	1.77	1.77
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.03	0.03	0.05	0.06	0.06	0.06	0.58	0.58	0.58	0.58	0.58
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>	<b>0.11</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>
<b>End-Use Sectors 8/</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
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
Natural Gas	0.11	0.10	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15

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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Renewable Sources 4/	0.24	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30
Other	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total	0.60	0.57	0.58	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	107.36	111.25	113.05	115.21	118.32	120.94	123.84	126.55	129.56	131.94	134.52	137.10	139.96
Commercial/Other	80.68	83.01	84.01	87.11	90.71	93.20	95.59	98.27	101.13	104.04	106.85	109.58	112.31
Industrial	17.69	17.61	17.63	18.21	18.40	18.40	18.51	18.60	18.72	18.81	18.93	19.04	19.18
Transportation	1.24	1.25	1.27	1.29	1.32	1.35	1.37	1.39	1.41	1.44	1.46	1.48	1.51
Total Sales	206.98	213.12	215.97	221.83	228.75	233.89	239.31	244.81	250.82	256.23	261.76	267.21	272.96
<b>Net Energy for Load (billion kilowatthours) 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
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	12.44	17.51	12.41	14.85	19.80	22.85	27.49	24.14	33.06	35.37	35.75	27.55	32.89
Gross Interregional Electricity Exports	0.00	9.62	1.11	0.06	0.06	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Purchases from Combined Heat and Power 8/	0.56	0.49	0.51	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67
Electric Power Sector Generation for Custome	206.42	210.55	217.38	219.90	222.15	224.35	225.12	234.11	231.16	234.35	239.64	253.34	254.03
Total Net Energy for Load	219.42	218.92	229.19	235.27	242.49	247.75	253.21	258.87	264.85	270.37	276.04	281.54	287.60
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	62.03	60.48	71.53	72.05	71.40	72.24	72.85	73.98	78.38	81.08	83.23	83.23	83.22
Petroleum	36.93	36.69	23.82	23.88	23.88	24.14	24.15	24.25	25.12	25.13	25.14	25.14	25.16
Natural Gas	73.14	81.56	86.92	88.64	90.85	92.39	92.39	100.34	92.52	93.08	96.22	109.90	110.76
Nuclear	31.22	28.76	31.47	31.47	31.34	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	4.02	3.95	4.93	5.16	5.98	5.78	5.95	5.76	5.35	5.28	5.27	5.29	5.13
Total Generation	207.33	211.44	218.68	221.19	223.45	225.64	226.42	235.40	232.46	235.66	240.95	254.64	255.34
Sales to Customers	206.42	210.55	217.38	219.90	222.15	224.35	225.12	234.11	231.16	234.35	239.64	253.34	254.03
Generation for Own Use	0.91	0.89	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.30	1.30	1.31	1.31
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03
<b>End-Use Sectors 8/</b>													
Coal	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
Petroleum	0.14	0.14	0.14	0.26	0.26	0.26	0.26	0.30	0.30	0.30	0.31	0.31	0.31
Natural Gas	0.59	0.55	0.56	0.62	0.65	0.67	0.70	0.73	0.76	0.78	0.82	0.84	0.87
Other Gaseous Fuels	0.13	0.11	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11
Renewable Sources 4/	1.05	0.97	0.99	1.01	1.02	1.03	1.05	1.07	1.09	1.12	1.13	1.15	1.17
Other	1.92	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Total	3.96	3.44	3.44	3.66	3.70	3.73	3.78	3.87	3.92	3.97	4.02	4.07	4.12
Sales to Utilities	0.56	0.49	0.51	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67
Generation for Own Use	3.40	2.95	2.93	3.07	3.11	3.13	3.17	3.25	3.29	3.33	3.37	3.41	3.45
Total Electricity Generation	211.29	214.88	222.12	224.85	227.15	229.38	230.20	239.28	236.38	239.63	244.98	258.73	259.49
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	9.4	9.7	11.0	10.9	11.0	10.7	10.7	10.4	10.1	9.9	9.8	9.8	9.8
Commercial	7.9	8.2	9.5	9.4	9.5	9.3	9.3	9.1	8.8	8.7	8.6	8.6	8.6
Industrial	6.2	6.6	7.6	7.6	7.7	7.6	7.5	7.3	7.1	7.0	7.0	7.0	7.0

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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	7.8	7.8	8.4	8.4	8.5	8.3	8.3	8.0	7.8	7.7	7.6	7.6	7.6
All Sectors Average	8.5	8.8	10.1	10.0	10.1	9.9	9.9	9.6	9.4	9.2	9.1	9.1	9.1
Prices by Service Category (2005 cents per kilowatthour)													
Generation	5.9	6.3	7.5	7.4	7.5	7.3	7.2	6.9	6.6	6.5	6.4	6.3	6.3
Transmission	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
Distribution	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.1
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.68	0.72	0.73	0.74	0.73	0.74	0.75	0.76	0.80	0.83	0.85	0.85	0.85
Natural Gas	0.59	0.65	0.71	0.72	0.73	0.74	0.74	0.80	0.74	0.75	0.77	0.86	0.86
Oil	0.38	0.38	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
Total	1.65	1.75	1.67	1.69	1.70	1.73	1.73	1.80	1.80	1.82	1.86	1.96	1.96
Fuel Prices (dollars per million Btu)													
Coal	1.93	2.07	1.72	1.83	1.93	1.96	2.40	2.44	2.42	2.41	2.41	2.39	2.39
Natural Gas	6.59	8.52	7.29	7.65	7.25	6.69	6.40	5.92	5.78	5.64	5.67	5.61	5.77
Distillate Fuel Oil	9.33	11.55	14.30	16.12	13.76	12.67	11.73	10.91	10.26	9.48	9.39	9.45	9.50
Residual Fuel Oil	4.92	6.99	8.36	8.48	7.90	7.26	6.77	6.39	6.04	5.87	5.70	5.78	5.77
Biomass	0.73	1.20	1.13	1.43	1.65	1.81	1.85	1.84	1.84	1.85	1.86	1.87	1.86
Emissions 10/													
Total Carbon (million tons)	37.39	38.48	37.50	37.86	37.95	38.47	38.70	40.00	40.41	41.21	42.11	43.63	43.67
Carbon Dioxide (million tons)	137.10	141.11	137.48	138.81	139.15	141.04	141.90	146.65	148.18	151.10	154.41	159.97	160.11
Sulfur Dioxide (million tons)	0.44	0.42	0.33	0.34	0.32	0.28	0.25	0.22	0.19	0.19	0.19	0.18	0.18
Nitrogen Oxide (million tons)	0.19	0.19	0.26	0.27	0.27	0.16	0.16	0.17	0.17	0.17	0.17	0.16	0.16
Mercury (tons)	1.26	1.29	1.30	1.28	1.26	0.84	0.87	0.82	0.79	0.82	0.80	0.75	0.74

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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	12.33	12.64	13.50	14.13	15.19	15.85	16.50	17.00	17.00	17.58	17.69	18.05	19.53	20.83	2.8%
Other Fossil Steam 2/	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	-0.7%
Combined Cycle	22.73	23.45	23.62	24.15	24.15	24.29	24.29	24.42	24.55	24.55	24.55	24.55	24.55	24.55	0.7%
Combustion Turbine/Diesel	10.97	11.09	11.23	11.23	11.44	11.91	12.48	13.02	14.21	15.07	15.48	15.54	15.54	15.69	1.8%
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	4.84	5.81	5.81	5.81	1.6%
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	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	N/A
Renewable Sources 4/	0.69	0.69	0.74	0.78	0.78	0.86	0.91	1.00	1.11	1.11	1.19	1.30	1.30	1.43	3.3%
Distributed Generation 5/	0.08	0.13	0.19	0.25	0.31	0.37	0.43	0.50	0.57	0.64	0.71	0.79	0.86	0.94	N/A
<b>Total Capacity</b>	<b>59.42</b>	<b>60.63</b>	<b>61.92</b>	<b>63.18</b>	<b>64.49</b>	<b>65.92</b>	<b>67.24</b>	<b>68.57</b>	<b>70.07</b>	<b>71.58</b>	<b>73.20</b>	<b>74.77</b>	<b>76.33</b>	<b>77.98</b>	<b>1.3%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	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	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	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	N/A
Combustion Turbine/Diesel	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	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	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	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	N/A
Renewable Sources 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>1.43</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	1.21	1.52	2.38	3.01	4.07	4.74	5.38	5.88	5.88	6.46	6.57	6.93	8.41	9.71	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	N/A
Combined Cycle	2.29	3.02	3.19	3.72	3.72	3.86	3.86	3.99	4.12	4.12	4.12	4.12	4.12	4.12	N/A
Combustion Turbine/Diesel	0.97	1.08	1.23	1.23	1.43	1.90	2.47	3.01	4.20	5.06	5.47	5.53	5.53	5.68	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	1.91	1.91	1.91	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.05	0.10	0.10	0.18	0.22	0.31	0.42	0.42	0.50	0.61	0.61	0.74	N/A
Distributed Generation 5/	0.08	0.13	0.19	0.25	0.31	0.37	0.43	0.50	0.57	0.64	0.71	0.79	0.86	0.94	N/A
<b>Total Unplanned Additions</b>	<b>4.55</b>	<b>5.76</b>	<b>7.04</b>	<b>8.30</b>	<b>9.62</b>	<b>11.04</b>	<b>12.37</b>	<b>13.70</b>	<b>15.19</b>	<b>16.71</b>	<b>18.33</b>	<b>19.90</b>	<b>21.45</b>	<b>23.11</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>5.98</b>	<b>7.19</b>	<b>8.47</b>	<b>9.73</b>	<b>11.05</b>	<b>12.47</b>	<b>13.79</b>	<b>15.12</b>	<b>16.62</b>	<b>18.14</b>	<b>19.76</b>	<b>21.32</b>	<b>22.88</b>	<b>24.54</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</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	N/A
Other Fossil Steam 3/	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	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	N/A
Combustion Turbine/Diesel	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>N/A</b>
<b>End-Use Sectors 8/</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	N/A
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	0.7%
Natural Gas	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	3.3%

Table 69 Electric Power Projections for EMM Region  
Florida Reliability Coordinating Council - 08

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.30	0.30	0.31	0.32	0.32	0.33	0.34	0.35	0.36	0.37	0.39	0.40	0.42	0.44	2.6%
Other	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
Total	0.70	0.71	0.72	0.73	0.75	0.76	0.77	0.79	0.80	0.82	0.84	0.87	0.89	0.92	1.9%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	142.15	144.67	147.29	150.28	152.33	154.84	157.34	160.19	162.37	164.97	167.55	170.39	172.44	174.90	1.8%
Commercial/Other	115.05	117.78	120.60	123.54	126.61	129.83	133.17	136.53	140.05	143.69	147.47	151.31	155.25	159.31	2.6%
Industrial	19.22	19.24	19.35	19.47	19.57	19.70	19.83	19.98	20.15	20.36	20.56	20.75	20.93	21.11	0.7%
Transportation	1.53	1.55	1.58	1.60	1.63	1.65	1.67	1.70	1.72	1.74	1.77	1.79	1.82	1.84	1.6%
Total Sales	277.96	283.24	288.82	294.89	300.13	306.01	312.01	318.39	324.29	330.77	337.35	344.25	350.44	357.17	2.1%
<b>Net Energy for Load (billion kilowatthours) 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	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	N/A
Gross Interregional Electricity Imports	32.28	30.98	30.52	28.45	25.83	30.81	31.06	33.00	33.61	33.99	33.90	33.45	33.46	33.46	2.6%
Gross Interregional Electricity Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.05	0.05	0.06	0.04	0.04	-20.0%
Purchases from Combined Heat and Power 8/	0.68	0.69	0.71	0.72	0.73	0.75	0.76	0.77	0.79	0.80	0.82	0.83	0.85	0.87	2.3%
Electric Power Sector Generation for Custome	259.87	266.73	273.14	281.53	289.70	290.88	296.98	301.74	307.37	313.82	320.84	328.62	335.03	342.11	2.0%
Total Net Energy for Load	292.83	298.40	304.37	310.70	316.26	322.44	328.80	335.50	341.73	348.56	355.50	362.85	369.31	376.41	2.2%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	90.86	93.01	99.59	104.28	112.06	116.83	121.62	125.25	125.26	129.64	130.46	133.27	144.23	153.90	3.8%
Petroleum	25.22	25.25	25.31	25.36	25.40	25.49	25.66	25.77	25.78	25.78	25.77	25.77	25.77	25.77	-1.4%
Natural Gas	108.60	113.10	112.60	116.01	116.36	111.86	112.55	112.81	117.58	119.68	119.43	116.07	109.90	106.28	1.1%
Nuclear	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	36.89	44.50	46.12	1.9%
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	N/A
Renewable Sources 4/	5.41	5.60	5.87	6.10	6.10	6.92	7.37	8.14	8.97	8.94	9.58	10.31	10.32	11.35	4.3%
Total Generation	261.17	268.04	274.45	282.83	291.00	292.19	298.29	303.05	308.68	315.12	322.14	329.92	336.34	343.42	2.0%
Sales to Customers	259.87	266.73	273.14	281.53	289.70	290.88	296.98	301.74	307.37	313.82	320.84	328.62	335.03	342.11	2.0%
Generation for Own Use	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.5%
Distributed Generation 5/	0.04	0.06	0.08	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.35	0.38	0.41	N/A
<b>End-Use Sectors 8/</b>															
Coal	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	N/A
Petroleum	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	3.4%
Natural Gas	0.90	0.94	0.98	1.02	1.06	1.10	1.14	1.18	1.22	1.27	1.31	1.35	1.40	1.44	3.9%
Other Gaseous Fuels	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.8%
Renewable Sources 4/	1.19	1.20	1.22	1.24	1.27	1.29	1.31	1.34	1.37	1.40	1.43	1.47	1.51	1.55	1.9%
Other	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	0.0%
Total	4.17	4.23	4.28	4.36	4.42	4.47	4.55	4.62	4.68	4.77	4.85	4.92	5.02	5.11	1.6%
Sales to Utilities	0.68	0.69	0.71	0.72	0.73	0.75	0.76	0.77	0.79	0.80	0.82	0.83	0.85	0.87	2.3%
Generation for Own Use	3.49	3.53	3.57	3.64	3.68	3.73	3.79	3.84	3.90	3.97	4.03	4.09	4.17	4.24	1.5%
Total Electricity Generation	265.38	272.32	278.81	287.30	295.55	296.82	303.03	307.88	313.61	320.18	327.30	335.19	341.74	348.94	2.0%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	9.9	9.9	9.9	9.9	9.9	10.0	10.0	10.1	10.1	10.1	10.2	10.2	10.3	10.3	0.3%
Commercial	8.7	8.8	8.8	8.8	8.8	8.9	8.9	9.0	9.0	9.0	9.1	9.2	9.2	9.2	0.5%
Industrial	7.0	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.3	7.3	7.3	7.4	7.4	0.5%

Table 69 Electric Power Projections for EMM Region  
 Florida Reliability Coordinating Council - 08

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.8	7.9	7.9	7.9	0.0%
All Sectors Average	9.2	9.2	9.2	9.3	9.3	9.3	9.4	9.4	9.4	9.5	9.5	9.6	9.6	9.6	0.4%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	6.4	6.4	6.4	6.4	6.4	6.5	6.5	6.6	6.6	6.6	6.7	6.7	6.8	6.8	0.3%
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.9%
Distribution	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.1%
Fuel Consumption (quadrillion Btu) 9/															
Coal	0.91	0.93	0.99	1.03	1.10	1.14	1.18	1.21	1.21	1.24	1.25	1.27	1.35	1.42	2.7%
Natural Gas	0.85	0.88	0.87	0.89	0.90	0.87	0.87	0.87	0.91	0.92	0.92	0.90	0.86	0.84	1.0%
Oil	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	-1.6%
Total	2.01	2.06	2.11	2.17	2.24	2.26	2.30	2.34	2.37	2.42	2.42	2.42	2.46	2.51	1.5%
Fuel Prices (dollars per million Btu)															
Coal	2.40	2.37	2.35	2.35	2.33	2.33	2.33	2.34	2.34	2.34	2.36	2.37	2.39	2.39	0.6%
Natural Gas	5.96	5.97	5.98	6.06	6.02	6.13	6.22	6.38	6.37	6.40	6.49	6.59	6.63	6.62	-1.0%
Distillate Fuel Oil	9.67	9.77	9.95	10.04	10.16	10.31	10.28	10.44	10.48	10.54	10.72	10.81	10.97	11.04	-0.2%
Residual Fuel Oil	5.89	5.93	6.10	6.18	6.30	6.42	6.35	6.49	6.52	6.61	6.65	6.69	6.80	6.85	-0.1%
Biomass	1.87	1.87	1.88	1.88	1.87	1.90	1.91	1.93	1.95	1.95	1.97	1.99	1.99	2.02	2.1%
Emissions 10/															
Total Carbon (million tons)	45.36	46.39	47.97	49.49	51.48	52.19	53.46	54.38	54.91	56.06	56.23	56.49	58.13	59.74	1.8%
Carbon Dioxide (million tons)	166.34	170.10	175.90	181.47	188.76	191.38	196.02	199.39	201.32	205.56	206.17	207.12	213.13	219.04	1.8%
Sulfur Dioxide (million tons)	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	-3.6%
Nitrogen Oxide (million tons)	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	-0.1%
Mercury (tons)	0.75	0.67	0.71	0.73	0.78	0.78	0.78	0.75	0.74	0.75	0.75	0.71	0.71	0.72	-2.3%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 70. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council - 09

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	71.70	71.04	70.93	71.55	71.55	72.20	72.91	72.91	72.91	72.26	72.26	72.96	73.29
Other Fossil Steam 2/	18.46	18.39	18.39	18.39	18.39	18.39	18.39	18.39	14.66	14.52	14.52	14.52	14.52
Combined Cycle	36.63	38.25	39.19	39.76	40.30	41.05	41.61	41.61	41.61	41.61	41.61	41.61	41.61
Combustion Turbine/Diesel	31.46	31.54	31.63	31.97	31.89	31.73	31.62	31.54	24.89	24.80	24.80	24.80	24.99
Nuclear Power	32.43	32.57	32.57	32.58	32.58	32.61	32.61	32.83	33.18	33.40	33.57	34.24	36.52
Pumped Storage/Other 3/	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	12.46	12.44	12.47	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.64	12.64	12.64
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capacity</b>	<b>210.18</b>	<b>211.27</b>	<b>212.23</b>	<b>213.91</b>	<b>214.35</b>	<b>215.63</b>	<b>216.79</b>	<b>216.93</b>	<b>206.89</b>	<b>206.24</b>	<b>206.44</b>	<b>207.81</b>	<b>210.61</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.62	0.62	1.27	1.98	1.98	1.98	1.98	1.98	1.98	1.98
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.95	1.52	2.05	2.80	3.36	3.36	3.36	3.36	3.36	3.36	3.36
Combustion Turbine/Diesel	0.00	0.00	0.16	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.03	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.13</b>	<b>2.80</b>	<b>3.33</b>	<b>4.74</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>
<b>Cumulative Unplanned Additions 6/</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	0.70	1.03
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	2.55
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>1.27</b>	<b>3.80</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.13</b>	<b>2.80</b>	<b>3.33</b>	<b>4.74</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.04</b>	<b>7.28</b>	<b>9.80</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.76	0.76	0.76	0.76
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	3.87	3.87	3.87	3.87
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.07	0.07	0.15	0.31	0.42	0.50	7.15	7.24	7.24	7.24	7.24
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.18</b>	<b>0.18</b>	<b>0.27</b>	<b>0.42</b>	<b>0.53</b>	<b>0.61</b>	<b>10.99</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>
<b>End-Use Sectors 8/</b>													
Coal	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Petroleum	0.53	0.51	0.51	0.51	0.52	0.52	0.52	0.58	0.58	0.58	0.58	0.58	0.58
Natural Gas	4.39	4.25	4.36	4.89	5.04	5.18	5.34	5.52	5.67	5.83	6.00	6.17	6.33

Table 70. Electric Power Projections for EMM Region  
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.57	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61
Renewable Sources 4/	3.11	3.04	3.13	3.22	3.28	3.34	3.45	3.52	3.60	3.68	3.74	3.80	3.87
Other	0.21	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Total	9.60	9.36	9.55	10.18	10.40	10.61	10.87	11.19	11.42	11.65	11.90	12.13	12.37
<b>Electricity Demand</b> (billion kilowatthours)													
Residential	305.41	317.67	320.88	324.07	331.63	337.60	344.29	350.40	357.33	362.50	368.24	374.00	380.51
Commercial/Other	236.44	243.27	244.44	251.63	261.35	267.58	273.52	280.29	287.49	294.85	301.94	308.87	315.78
Industrial	262.14	259.65	259.15	263.14	266.09	266.14	267.74	268.54	270.39	271.98	273.42	275.25	277.24
Transportation	4.47	4.48	4.52	4.58	4.66	4.74	4.82	4.88	4.94	5.01	5.07	5.14	5.21
Total Sales	808.47	825.06	828.99	843.42	863.73	876.06	890.37	904.11	920.15	934.34	948.67	963.25	978.74
<b>Net Energy for Load (billion kilowatthours) 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
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	32.86	77.02	84.93	82.45	79.78	83.08	85.25	89.12	78.66	83.43	87.02	81.51	76.72
Gross Interregional Electricity Exports	61.53	59.63	50.03	40.28	39.63	45.48	48.51	45.60	55.03	50.41	48.95	40.02	42.96
Purchases from Combined Heat and Power 8/	10.56	9.63	10.22	12.15	12.42	12.69	13.01	13.41	13.75	14.10	14.48	14.83	15.18
Electric Power Sector Generation for Custome	838.83	845.90	834.24	839.80	862.56	877.16	892.33	898.89	934.85	939.70	948.77	959.80	983.49
Total Net Energy for Load	820.72	872.92	879.36	894.12	915.12	927.45	942.09	955.82	972.23	986.81	1001.32	1016.12	1032.44
<b>Generation by Fuel Type</b> (billion kilowatthours)													
<b>Electric Power Sector</b>													
Coal	447.11	457.39	452.56	458.42	457.52	462.72	471.98	475.17	482.97	487.54	494.11	499.26	502.65
Petroleum	13.17	10.01	12.84	7.41	7.44	7.63	7.76	8.03	8.02	8.16	10.06	8.28	9.83
Natural Gas	90.15	97.71	88.80	90.52	112.20	117.11	120.31	120.26	138.25	135.49	134.29	138.45	143.29
Nuclear	256.36	251.51	252.71	252.85	251.85	250.01	250.07	251.90	263.80	265.55	266.90	270.86	284.73
Pumped Storage/Other 3/	-2.87	-2.23	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60
Renewable Sources 4/	39.05	35.97	39.36	42.64	45.60	51.74	54.29	55.63	53.89	54.89	55.35	54.91	54.94
Total Generation	842.98	850.35	842.67	848.24	871.00	885.63	900.81	907.39	943.33	948.04	957.11	968.15	991.84
Sales to Customers	838.83	845.90	834.24	839.80	862.56	877.16	892.33	898.89	934.85	939.70	948.77	959.80	983.49
Generation for Own Use	4.15	4.45	8.43	8.44	8.45	8.46	8.48	8.50	8.47	8.34	8.35	8.35	8.35
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	4.06	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04
Petroleum	1.73	1.72	1.73	3.25	3.28	3.28	3.28	3.78	3.78	3.78	3.80	3.80	3.80
Natural Gas	25.06	23.43	23.66	26.43	27.56	28.60	29.71	31.08	32.15	33.31	34.61	35.81	37.01
Other Gaseous Fuels	1.66	1.39	1.07	1.20	1.27	1.27	1.27	1.30	1.30	1.30	1.34	1.34	1.34
Renewable Sources 4/	21.36	19.85	20.27	20.67	20.84	21.01	21.40	21.80	22.28	22.72	23.11	23.48	23.89
Other	3.44	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Total	57.31	53.18	53.53	58.33	59.74	60.95	62.45	64.75	66.31	67.90	69.64	71.21	72.83
Sales to Utilities	10.56	9.63	10.22	12.15	12.42	12.69	13.01	13.41	13.75	14.10	14.48	14.83	15.18
Generation for Own Use	46.75	43.56	43.31	46.18	47.33	48.27	49.44	51.34	52.55	53.80	55.16	56.38	57.65
Total Electricity Generation	900.29	903.53	896.20	906.57	930.75	946.58	963.26	972.14	1009.63	1015.94	1026.76	1039.36	1064.67
<b>End-Use Prices</b> (2005 cents per kilowatthour)													
Residential	8.2	8.4	8.6	8.4	8.4	8.4	8.4	8.3	8.1	8.0	7.9	7.9	7.9
Commercial	7.1	7.3	7.6	7.4	7.4	7.5	7.5	7.4	7.2	7.1	7.1	7.1	7.1
Industrial	4.7	5.0	5.3	5.2	5.3	5.3	5.3	5.2	5.1	5.1	5.0	5.0	5.0

Table 70. Electric Power Projections for EMM Region  
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	6.6	6.5	6.6	6.6	6.6	6.6	6.7	6.5	6.4	6.3	6.2	6.2	6.2
All Sectors Average	6.8	7.0	7.3	7.1	7.1	7.2	7.2	7.1	6.9	6.8	6.8	6.8	6.8
Prices by Service Category (2005 cents per kilowatthour)													
Generation	4.8	5.1	5.3	5.2	5.2	5.2	5.2	5.1	5.0	4.9	4.8	4.8	4.8
Transmission	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
Distribution	1.6	1.5	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Fuel Consumption (quadrillion Btu) 9/													
Coal	4.19	4.59	4.63	4.69	4.68	4.73	4.83	4.86	4.94	4.97	5.04	5.08	5.11
Natural Gas	0.81	0.90	0.79	0.82	0.98	1.01	1.04	1.04	1.17	1.15	1.13	1.17	1.20
Oil	0.13	0.11	0.14	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10	0.09	0.10
Total	5.14	5.60	5.56	5.59	5.74	5.83	5.94	5.98	6.19	6.20	6.28	6.34	6.41
Fuel Prices (dollars per million Btu)													
Coal	1.53	1.66	1.60	1.70	1.75	1.78	2.01	2.07	2.06	2.05	2.03	1.99	1.99
Natural Gas	6.16	8.33	7.24	7.42	7.03	6.45	6.18	5.75	5.59	5.45	5.49	5.45	5.57
Distillate Fuel Oil	9.41	11.62	14.40	16.08	14.07	12.93	11.92	10.95	10.18	9.37	9.24	9.30	9.33
Residual Fuel Oil	4.68	6.64	7.40	8.73	8.12	7.49	7.00	6.62	6.15	5.98	5.62	5.89	5.70
Biomass	0.73	0.84	1.02	1.42	1.65	1.80	1.85	1.92	1.90	1.91	1.91	1.91	1.91
Emissions 10/													
Total Carbon (million tons)	151.10	149.30	146.94	147.81	150.06	152.06	155.00	156.08	160.47	161.12	163.36	164.66	166.46
Carbon Dioxide (million tons)	554.03	547.42	538.78	541.95	550.21	557.54	568.34	572.30	588.38	590.79	598.99	603.77	610.37
Sulfur Dioxide (million tons)	2.77	2.55	2.65	2.51	2.27	1.96	1.74	1.31	1.12	1.04	1.01	0.89	0.90
Nitrogen Oxide (million tons)	0.86	0.80	0.82	0.81	0.82	0.47	0.48	0.50	0.48	0.49	0.49	0.40	0.39
Mercury (tons)	9.42	9.76	10.13	10.00	9.70	9.64	7.36	7.12	6.75	6.66	6.33	5.34	5.07

Table 70. Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	73.29	73.29	74.65	76.40	78.06	79.84	83.34	86.58	90.33	94.30	98.41	101.88	105.03	108.30	1.7%
Other Fossil Steam 2/	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.44	-1.0%
Combined Cycle	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	0.3%
Combustion Turbine/Diesel	24.99	24.99	25.16	26.47	27.86	29.35	29.47	29.96	30.06	30.06	30.06	30.81	31.94	32.90	0.2%
Nuclear Power	39.16	41.85	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	1.1%
Pumped Storage/Other 3/	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	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	N/A
Renewable Sources 4/	12.64	12.64	12.64	12.64	12.64	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.84	0.1%
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.12	0.18	0.25	0.32	0.39	0.58	0.78	0.98	1.06	1.14	N/A
<b>Total Capacity</b>	<b>213.25</b>	<b>215.94</b>	<b>218.97</b>	<b>222.08</b>	<b>225.19</b>	<b>228.57</b>	<b>232.26</b>	<b>236.06</b>	<b>239.98</b>	<b>244.14</b>	<b>248.45</b>	<b>252.88</b>	<b>257.24</b>	<b>261.63</b>	<b>0.9%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	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	N/A
Combined Cycle	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	N/A
Combustion Turbine/Diesel	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
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	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	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	N/A
Renewable Sources 4/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	1.03	1.03	2.39	4.14	5.79	7.58	11.07	14.32	18.07	22.04	26.14	29.62	32.77	36.03	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	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	N/A
Combustion Turbine/Diesel	0.19	0.19	0.36	1.66	3.06	4.55	4.67	5.16	5.26	5.26	5.26	6.01	7.14	8.10	N/A
Nuclear Power	4.81	7.50	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	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	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	N/A
Renewable Sources 4/	0.03	0.03	0.03	0.03	0.03	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.24	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.12	0.18	0.25	0.32	0.39	0.58	0.78	0.98	1.06	1.14	N/A
<b>Total Unplanned Additions</b>	<b>6.06</b>	<b>8.75</b>	<b>11.78</b>	<b>14.89</b>	<b>18.00</b>	<b>21.38</b>	<b>25.07</b>	<b>28.87</b>	<b>32.78</b>	<b>36.95</b>	<b>41.26</b>	<b>45.69</b>	<b>50.05</b>	<b>54.51</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>12.06</b>	<b>14.75</b>	<b>17.78</b>	<b>20.89</b>	<b>24.00</b>	<b>27.39</b>	<b>31.07</b>	<b>34.87</b>	<b>38.79</b>	<b>42.95</b>	<b>47.26</b>	<b>51.69</b>	<b>56.05</b>	<b>60.52</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	N/A
Other Fossil Steam 3/	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.94	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	N/A
Combustion Turbine/Diesel	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	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.87</b>	<b>11.94</b>	<b>N/A</b>
<b>End-Use Sectors 8/</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	N/A
Petroleum	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61	0.7%
Natural Gas	6.54	6.73	6.94	7.19	7.42	7.64	7.90	8.11	8.34	8.62	8.86	9.08	9.37	9.62	3.3%

Table 70. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council - 09

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.4%
Renewable Sources 4/	3.93	3.98	4.06	4.14	4.23	4.32	4.43	4.55	4.69	4.84	5.04	5.25	5.48	5.77	2.6%
Other	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
<b>Total</b>	<b>12.65</b>	<b>12.89</b>	<b>13.17</b>	<b>13.52</b>	<b>13.83</b>	<b>14.14</b>	<b>14.53</b>	<b>14.87</b>	<b>15.24</b>	<b>15.69</b>	<b>16.12</b>	<b>16.56</b>	<b>17.09</b>	<b>17.62</b>	<b>2.6%</b>
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	385.17	390.71	396.57	403.40	407.69	413.23	418.75	425.20	429.83	435.57	441.25	447.68	451.96	457.31	1.5%
Commercial/Other	322.69	329.55	336.66	344.07	351.84	359.99	368.50	377.00	385.93	395.13	404.67	414.44	424.37	434.55	2.3%
Industrial	277.73	278.00	279.82	281.18	282.64	284.63	286.26	288.42	291.09	293.63	296.62	299.37	301.66	304.33	0.6%
Transportation	5.28	5.35	5.42	5.48	5.55	5.62	5.68	5.75	5.82	5.89	5.96	6.03	6.10	6.16	1.3%
<b>Total Sales</b>	<b>990.87</b>	<b>1003.61</b>	<b>1018.47</b>	<b>1034.13</b>	<b>1047.72</b>	<b>1063.47</b>	<b>1079.21</b>	<b>1096.38</b>	<b>1112.67</b>	<b>1130.22</b>	<b>1148.50</b>	<b>1167.51</b>	<b>1184.08</b>	<b>1202.35</b>	<b>1.5%</b>
<b>Net Energy for Load (billion kilowatthours) 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	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	N/A
Gross Interregional Electricity Imports	72.28	67.99	59.59	54.86	54.78	63.07	64.83	59.47	53.22	46.09	36.63	30.76	25.34	21.43	-5.0%
Gross Interregional Electricity Exports	41.09	39.02	36.82	33.98	29.61	32.99	33.63	35.23	35.31	36.14	38.29	40.14	40.34	44.04	-1.2%
Purchases from Combined Heat and Power 8/	15.56	15.94	16.35	16.84	17.29	17.74	18.24	18.68	19.16	19.70	20.21	20.70	21.28	21.82	3.3%
Electric Power Sector Generation for Custome	998.45	1013.68	1035.12	1053.05	1062.64	1073.92	1088.88	1113.49	1136.56	1162.50	1192.78	1220.03	1242.62	1268.98	1.6%
<b>Total Net Energy for Load</b>	<b>1045.21</b>	<b>1058.59</b>	<b>1074.24</b>	<b>1090.76</b>	<b>1105.10</b>	<b>1121.73</b>	<b>1138.32</b>	<b>1156.41</b>	<b>1173.63</b>	<b>1192.15</b>	<b>1211.33</b>	<b>1231.35</b>	<b>1248.88</b>	<b>1268.18</b>	<b>1.5%</b>
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	504.56	505.90	516.15	530.63	542.50	555.23	580.96	605.39	631.77	659.68	690.09	715.96	738.19	763.13	2.1%
Petroleum	8.81	8.58	8.07	8.09	8.04	8.06	8.16	8.25	8.15	8.08	8.08	8.67	8.12	8.11	-0.8%
Natural Gas	138.49	133.62	130.67	130.82	128.13	125.44	114.88	114.58	111.45	108.99	108.99	109.81	111.38	111.69	0.5%
Nuclear	303.61	323.92	338.39	342.45	343.25	343.25	343.25	343.25	343.25	343.25	343.25	343.25	343.25	343.25	1.3%
Pumped Storage/Other 3/	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	1.9%
Renewable Sources 4/	54.94	53.60	53.80	53.00	52.67	53.88	53.58	53.96	53.88	54.43	54.31	54.28	53.62	54.75	1.7%
<b>Total Generation</b>	<b>1006.80</b>	<b>1022.03</b>	<b>1043.47</b>	<b>1061.40</b>	<b>1070.98</b>	<b>1082.27</b>	<b>1097.23</b>	<b>1121.84</b>	<b>1144.90</b>	<b>1170.85</b>	<b>1201.13</b>	<b>1228.38</b>	<b>1250.96</b>	<b>1277.33</b>	<b>1.6%</b>
Sales to Customers	998.45	1013.68	1035.12	1053.05	1062.64	1073.92	1088.88	1113.49	1136.56	1162.50	1192.78	1220.03	1242.62	1268.98	1.6%
Generation for Own Use	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	2.5%
Distributed Generation 5/	0.00	0.00	0.00	0.03	0.05	0.08	0.11	0.14	0.17	0.25	0.34	0.43	0.47	0.50	N/A
<b>End-Use Sectors 8/</b>															
Coal	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	N/A
Petroleum	3.82	3.84	3.84	3.87	3.87	3.87	3.91	3.91	3.91	3.95	3.95	3.95	3.99	3.99	3.4%
Natural Gas	38.40	39.97	41.44	43.32	44.96	46.55	48.48	50.04	51.72	53.79	55.47	57.13	59.24	61.05	3.9%
Other Gaseous Fuels	1.37	1.41	1.41	1.48	1.48	1.48	1.55	1.55	1.55	1.61	1.61	1.61	1.68	1.68	0.8%
Renewable Sources 4/	24.21	24.50	24.89	25.34	25.79	26.22	26.72	27.25	27.83	28.45	29.18	29.92	30.71	31.60	1.9%
Other	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.0%
<b>Total</b>	<b>74.59</b>	<b>76.50</b>	<b>78.36</b>	<b>80.80</b>	<b>82.88</b>	<b>84.91</b>	<b>87.45</b>	<b>89.53</b>	<b>91.79</b>	<b>94.59</b>	<b>97.00</b>	<b>99.40</b>	<b>102.41</b>	<b>105.11</b>	<b>2.8%</b>
Sales to Utilities	15.56	15.94	16.35	16.84	17.29	17.74	18.24	18.68	19.16	19.70	20.21	20.70	21.28	21.82	3.3%
Generation for Own Use	59.02	60.56	62.01	63.96	65.59	67.18	69.21	70.85	72.63	74.89	76.79	78.70	81.13	83.29	2.6%
<b>Total Electricity Generation</b>	<b>1081.39</b>	<b>1098.53</b>	<b>1121.83</b>	<b>1142.22</b>	<b>1153.92</b>	<b>1167.26</b>	<b>1184.79</b>	<b>1211.51</b>	<b>1236.87</b>	<b>1265.69</b>	<b>1298.47</b>	<b>1328.21</b>	<b>1353.84</b>	<b>1382.94</b>	<b>1.7%</b>
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	7.9	7.9	7.9	7.9	7.9	7.9	7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9	-0.2%
Commercial	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	0.0%
Industrial	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.1%

Table 70. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council - 09

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	-0.2%
All Sectors Average	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0	0.0%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.0	5.0	-0.1%
Transmission	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	1.7%
Distribution	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.4%
Fuel Consumption (quadrillion Btu) 9/															
Coal	5.13	5.15	5.23	5.35	5.43	5.52	5.72	5.90	6.08	6.28	6.49	6.68	6.84	7.02	1.7%
Natural Gas	1.17	1.13	1.11	1.11	1.10	1.08	1.00	1.00	0.98	0.96	0.96	0.96	0.98	0.97	0.3%
Oil	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	-1.0%
Total	6.39	6.37	6.43	6.55	6.61	6.68	6.80	6.98	7.14	7.32	7.54	7.73	7.89	8.08	1.5%
Fuel Prices (dollars per million Btu)															
Coal	1.99	1.96	1.95	1.94	1.93	1.93	1.92	1.93	1.92	1.92	1.93	1.94	1.95	1.95	0.7%
Natural Gas	5.76	5.75	5.76	5.83	5.79	5.89	5.99	6.13	6.10	6.11	6.19	6.28	6.34	6.35	-1.1%
Distillate Fuel Oil	9.51	9.59	9.80	9.90	10.01	10.17	10.14	10.29	10.33	10.40	10.56	10.64	10.79	10.86	-0.3%
Residual Fuel Oil	5.91	5.97	6.21	6.30	6.43	6.55	6.47	6.60	6.64	6.73	6.78	6.74	6.93	6.98	0.2%
Biomass	1.92	1.91	1.92	1.89	1.89	1.93	1.93	1.95	1.96	1.97	1.96	1.96	1.94	1.96	3.5%
Emissions 10/															
Total Carbon (million tons)	166.36	166.31	168.12	171.44	173.48	175.75	180.00	184.96	189.65	194.71	200.82	206.28	210.66	215.73	1.5%
Carbon Dioxide (million tons)	609.99	609.82	616.46	628.60	636.08	644.43	659.99	678.20	695.37	713.92	736.34	756.37	772.43	791.01	1.5%
Sulfur Dioxide (million tons)	0.89	0.81	0.79	0.80	0.78	0.78	0.79	0.79	0.78	0.78	0.77	0.76	0.75	0.76	-4.7%
Nitrogen Oxide (million tons)	0.40	0.39	0.38	0.38	0.38	0.37	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	-3.0%
Mercury (tons)	4.67	4.12	4.03	3.88	3.88	3.84	3.84	3.74	3.57	3.51	3.45	3.51	3.45	3.46	-4.1%

Table 70. Electric Power Projections for EMM Region  
Southeastern Electric Reliability Council - 09

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.56	21.80	21.80	21.31	21.31	21.31
Other Fossil Steam 2/	13.20	13.15	13.12	13.12	13.12	13.12	13.10	13.10	11.21	11.19	11.19	11.19	11.19
Combined Cycle	10.92	10.92	11.23	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19
Combustion Turbine/Diesel	7.20	7.62	7.68	7.84	7.84	7.84	7.84	7.84	5.09	5.09	5.09	5.09	5.09
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
Pumped Storage/Other 3/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	3.01	3.89	4.23	4.23	4.23	4.23	4.23	4.23	4.24	4.24	4.24	4.24	4.24
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capacity</b>	<b>57.31</b>	<b>58.55</b>	<b>59.24</b>	<b>60.36</b>	<b>60.36</b>	<b>60.36</b>	<b>60.34</b>	<b>60.59</b>	<b>56.20</b>	<b>56.17</b>	<b>55.68</b>	<b>55.69</b>	<b>55.69</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.49	0.49	0.49	0.49	0.49
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.31	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
Combustion Turbine/Diesel	0.00	0.00	0.08	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.73</b>	<b>1.84</b>	<b>1.84</b>	<b>1.85</b>	<b>1.85</b>	<b>2.10</b>	<b>2.34</b>	<b>2.34</b>	<b>2.34</b>	<b>2.34</b>	<b>2.34</b>
<b>Cumulative Unplanned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Unplanned 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>0.00</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>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.73</b>	<b>1.84</b>	<b>1.84</b>	<b>1.85</b>	<b>1.85</b>	<b>2.10</b>	<b>2.34</b>	<b>2.34</b>	<b>2.34</b>	<b>2.34</b>	<b>2.34</b>
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49
Other Fossil Steam 3/	0.00	0.00	0.03	0.03	0.03	0.03	0.05	0.05	1.93	1.96	1.96	1.96	1.96
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	2.75	2.75	2.75	2.75	2.75
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.06</b>	<b>0.06</b>	<b>4.69</b>	<b>4.71</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>
<b>End-Use Sectors 8/</b>													
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.35	0.34	0.35	0.39	0.40	0.41	0.42	0.44	0.45	0.46	0.48	0.49	0.50

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Sources 4/	0.36	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.43	0.44	0.45
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	0.82	0.79	0.81	0.86	0.88	0.90	0.93	0.95	0.97	0.99	1.01	1.03	1.06
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	62.89	67.29	68.66	68.94	70.57	71.81	73.20	74.42	75.73	76.66	77.72	78.85	80.13
Commercial/Other	65.50	69.57	69.80	71.16	73.59	75.04	76.36	77.83	79.28	80.70	82.06	83.44	84.82
Industrial	49.65	49.89	49.70	51.55	52.33	52.75	53.11	53.15	53.63	54.06	54.22	54.67	55.04
Transportation	1.06	1.08	1.08	1.09	1.11	1.13	1.14	1.16	1.17	1.18	1.20	1.21	1.22
Total Sales	179.10	187.82	189.24	192.74	197.60	200.73	203.80	206.55	209.82	212.60	215.20	218.17	221.21
<b>Net Energy for Load (billion kilowatthours) 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
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	18.81	15.09	18.85	15.58	18.01	19.27	20.36	21.39	21.03	20.59	21.04	20.41	20.66
Gross Interregional Electricity Exports	21.17	22.72	22.24	16.02	13.45	14.14	13.37	14.03	14.81	13.10	11.99	10.99	9.09
Purchases from Combined Heat and Power 8/	0.93	0.83	0.88	1.01	1.03	1.05	1.08	1.11	1.13	1.16	1.19	1.21	1.24
Electric Power Sector Generation for Custome	206.91	213.18	205.50	206.04	206.11	208.67	209.95	212.32	216.78	218.30	219.32	221.93	222.99
Total Net Energy for Load	205.47	206.38	202.99	206.61	211.70	214.85	218.01	220.79	224.13	226.95	229.55	232.57	235.81
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	142.35	142.57	142.68	143.18	142.41	144.01	145.49	147.13	150.04	150.42	149.05	149.03	148.72
Petroleum	1.56	1.86	1.05	1.05	1.08	1.13	2.05	2.04	2.14	2.18	2.26	1.99	2.06
Natural Gas	44.17	52.21	42.55	41.90	42.53	43.54	42.29	42.96	43.69	44.63	46.61	49.33	50.20
Nuclear	10.13	8.82	9.37	9.37	9.32	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
Pumped Storage/Other 3/	0.12	0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
Renewable Sources 4/	8.86	7.83	10.26	10.95	11.18	11.13	11.25	11.33	12.05	12.21	12.54	12.72	13.15
Total Generation	207.19	213.50	205.72	206.25	206.32	208.89	210.17	212.54	217.00	218.52	219.54	222.15	223.21
Sales to Customers	206.91	213.18	205.50	206.04	206.11	208.67	209.95	212.32	216.78	218.30	219.32	221.93	222.99
Generation for Own Use	0.28	0.31	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	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
Petroleum	0.14	0.13	0.14	0.25	0.26	0.26	0.26	0.30	0.30	0.30	0.30	0.30	0.30
Natural Gas	1.58	1.48	1.49	1.67	1.74	1.81	1.88	1.96	2.03	2.10	2.18	2.26	2.34
Other Gaseous Fuels	0.13	0.11	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Sources 4/	2.45	2.28	2.32	2.37	2.39	2.41	2.45	2.50	2.55	2.61	2.65	2.69	2.74
Other	0.56	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Total	5.59	5.18	5.22	5.57	5.67	5.75	5.86	6.04	6.16	6.29	6.42	6.53	6.66
Sales to Utilities	0.93	0.83	0.88	1.01	1.03	1.05	1.08	1.11	1.13	1.16	1.19	1.21	1.24
Generation for Own Use	4.66	4.35	4.34	4.55	4.63	4.70	4.79	4.93	5.03	5.13	5.23	5.32	5.42
Total Electricity Generation	212.79	218.68	210.93	211.82	211.99	214.64	216.03	218.58	223.16	224.81	225.96	228.68	229.87
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	7.7	8.0	8.7	8.6	8.6	8.6	8.5	8.5	8.2	8.1	8.0	8.0	8.1
Commercial	6.5	6.9	7.9	7.8	7.9	7.9	7.9	7.8	7.5	7.4	7.4	7.4	7.4
Industrial	4.8	5.2	5.6	5.8	5.8	5.8	5.8	5.7	5.5	5.4	5.4	5.4	5.5

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	6.3	6.2	6.3	6.5	6.7	6.7	6.7	6.6	6.4	6.3	6.3	6.3	6.4
All Sectors Average	6.5	6.8	7.6	7.5	7.6	7.6	7.6	7.5	7.2	7.2	7.1	7.1	7.2
Prices by Service Category (2005 cents per kilowatthour)													
Generation	4.0	4.4	5.2	5.2	5.3	5.3	5.3	5.2	4.9	4.9	4.8	4.9	4.9
Transmission	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
Distribution	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.40	1.53	1.54	1.55	1.54	1.56	1.57	1.59	1.62	1.61	1.60	1.61	1.60
Natural Gas	0.41	0.48	0.42	0.41	0.42	0.43	0.41	0.42	0.42	0.43	0.44	0.46	0.47
Oil	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.02	0.02
Total	1.83	2.04	1.97	1.97	1.97	2.00	2.01	2.03	2.06	2.07	2.07	2.09	2.10
Fuel Prices (dollars per million Btu)													
Coal	1.14	1.14	1.29	1.30	1.33	1.32	1.38	1.45	1.54	1.54	1.50	1.51	1.51
Natural Gas	5.97	8.00	7.19	7.39	7.01	6.43	6.16	5.72	5.59	5.44	5.48	5.44	5.58
Distillate Fuel Oil	9.47	11.55	14.37	15.35	13.10	12.06	11.03	9.97	9.19	8.61	8.46	8.50	8.46
Residual Fuel Oil	5.13	7.10	8.86	12.31	10.52	9.89	6.49	6.10	5.50	5.34	5.16	5.24	5.22
Biomass	0.73	0.73	0.73	1.14	1.33	1.59	1.63	1.74	1.80	1.83	1.87	1.88	1.89
Emissions 10/													
Total Carbon (million tons)	50.08	52.70	51.70	51.80	51.66	52.30	52.85	53.31	54.29	54.31	54.28	54.61	54.63
Carbon Dioxide (million tons)	183.64	193.24	189.57	189.95	189.43	191.75	193.78	195.46	199.05	199.12	199.04	200.23	200.30
Sulfur Dioxide (million tons)	0.43	0.44	0.40	0.43	0.40	0.40	0.40	0.38	0.38	0.37	0.32	0.27	0.27
Nitrogen Oxide (million tons)	0.29	0.29	0.29	0.29	0.29	0.25	0.25	0.25	0.26	0.26	0.26	0.22	0.23
Mercury (tons)	3.90	4.19	4.08	4.32	4.05	4.30	3.59	3.89	3.65	3.63	3.07	2.48	2.47

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	21.31	21.31	21.56	22.26	22.96	23.73	24.42	25.16	25.93	26.71	27.48	28.40	29.05	29.77	1.3%
Other Fossil Steam 2/	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	-0.6%
Combined Cycle	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	0.4%
Combustion Turbine/Diesel	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.18	5.18	5.40	5.46	-1.3%
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	N/A
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	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	N/A
Renewable Sources 4/	4.24	4.25	4.25	4.25	4.25	4.26	4.26	4.26	4.26	4.27	4.27	4.27	4.27	4.28	0.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.10	0.11	0.13	N/A
<b>Total Capacity</b>	<b>55.69</b>	<b>55.69</b>	<b>55.95</b>	<b>56.65</b>	<b>57.36</b>	<b>58.13</b>	<b>58.82</b>	<b>59.56</b>	<b>60.33</b>	<b>61.14</b>	<b>62.03</b>	<b>62.99</b>	<b>63.89</b>	<b>64.68</b>	<b>0.4%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	N/A
Other Fossil Steam 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	N/A
Combined Cycle	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	N/A
Combustion Turbine/Diesel	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	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	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	N/A
Renewable Sources 4/	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.39	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.36</b>	<b>2.36</b>	<b>2.36</b>	<b>2.36</b>	<b>2.37</b>	<b>2.37</b>	<b>2.37</b>	<b>2.37</b>	<b>2.38</b>	<b>2.38</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	0.00	0.00	0.25	0.96	1.66	2.43	3.11	3.85	4.62	5.41	6.18	7.09	7.75	8.46	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	0.08	0.08	0.30	0.37	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.10	0.11	0.13	N/A
<b>Total Unplanned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>0.25</b>	<b>0.96</b>	<b>1.66</b>	<b>2.43</b>	<b>3.11</b>	<b>3.85</b>	<b>4.62</b>	<b>5.42</b>	<b>6.31</b>	<b>7.27</b>	<b>8.16</b>	<b>8.96</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>2.35</b>	<b>2.35</b>	<b>2.60</b>	<b>3.31</b>	<b>4.01</b>	<b>4.78</b>	<b>5.47</b>	<b>6.21</b>	<b>6.99</b>	<b>7.79</b>	<b>8.69</b>	<b>9.65</b>	<b>10.54</b>	<b>11.33</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</b>															
Coal Steam	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	N/A
Other Fossil Steam 3/	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	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	N/A
Combustion Turbine/Diesel	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>5.20</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	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	0.7%
Natural Gas	0.52	0.53	0.55	0.57	0.59	0.61	0.63	0.64	0.66	0.68	0.70	0.72	0.74	0.76	3.3%

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.4%
Renewable Sources 4/	0.46	0.46	0.47	0.48	0.49	0.50	0.51	0.53	0.54	0.56	0.59	0.61	0.64	0.67	2.6%
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Total	1.08	1.10	1.13	1.16	1.18	1.21	1.25	1.28	1.31	1.35	1.39	1.44	1.49	1.54	2.7%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	81.01	82.08	83.23	84.58	85.37	86.43	87.50	88.76	89.64	90.75	91.87	93.17	93.99	95.02	1.4%
Commercial/Other	86.15	87.46	88.85	90.30	91.83	93.44	95.13	96.82	98.58	100.43	102.34	104.35	106.33	108.33	1.8%
Industrial	55.05	55.16	55.57	55.67	55.97	56.39	56.52	56.84	57.40	57.68	58.23	58.70	59.00	59.44	0.7%
Transportation	1.24	1.25	1.27	1.28	1.29	1.31	1.32	1.33	1.34	1.36	1.37	1.38	1.40	1.41	1.1%
Total Sales	223.45	225.95	228.91	231.83	234.46	237.57	240.47	243.75	246.96	250.22	253.80	257.61	260.71	264.20	1.4%
<b>Net Energy for Load (billion kilowatthours) 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	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	N/A
Gross Interregional Electricity Imports	20.46	20.40	22.64	20.77	19.31	16.80	15.51	15.05	13.79	13.32	11.39	10.94	10.86	9.16	-2.0%
Gross Interregional Electricity Exports	7.42	5.48	5.85	6.03	7.12	6.42	6.40	8.27	7.75	8.61	9.00	11.91	12.31	12.08	-2.5%
Purchases from Combined Heat and Power 8/	1.27	1.29	1.32	1.36	1.39	1.42	1.46	1.49	1.53	1.57	1.61	1.65	1.69	1.73	3.0%
Electric Power Sector Generation for Customers	223.89	224.64	225.89	231.03	236.33	241.43	245.76	251.55	255.68	260.44	266.55	273.92	277.66	282.81	1.1%
Total Net Energy for Load	238.19	240.85	244.01	247.13	249.92	253.24	256.33	259.83	263.25	266.73	270.54	274.60	277.91	281.62	1.3%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	149.01	149.91	151.99	157.41	162.31	167.74	172.96	178.65	184.22	190.34	195.72	202.75	208.15	213.42	1.6%
Petroleum	2.07	1.94	1.81	1.92	1.74	1.87	2.05	2.10	1.71	1.47	1.90	2.32	2.11	1.93	0.2%
Natural Gas	51.00	50.76	49.99	49.99	50.27	50.27	49.57	49.57	48.50	47.38	47.65	47.87	46.41	46.55	-0.5%
Nuclear	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	0.2%
Pumped Storage/Other 3/	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	N/A
Renewable Sources 4/	12.95	13.17	13.24	12.84	13.15	12.69	12.32	12.37	12.39	12.40	12.42	12.13	12.14	12.04	1.7%
Total Generation	224.11	224.86	226.11	231.25	236.56	241.66	245.98	251.77	255.90	260.66	266.77	274.14	277.88	283.03	1.1%
Sales to Customers	223.89	224.64	225.89	231.03	236.33	241.43	245.76	251.55	255.68	260.44	266.55	273.92	277.66	282.81	1.1%
Generation for Own Use	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	-1.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.05	0.06	N/A
<b>End-Use Sectors 8/</b>															
Coal	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	N/A
Petroleum	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	3.4%
Natural Gas	2.42	2.52	2.62	2.74	2.84	2.94	3.06	3.16	3.27	3.40	3.50	3.61	3.74	3.85	3.9%
Other Gaseous Fuels	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.8%
Renewable Sources 4/	2.78	2.81	2.85	2.91	2.96	3.01	3.06	3.12	3.19	3.26	3.35	3.43	3.52	3.62	1.9%
Other	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	0.0%
Total	6.79	6.92	7.06	7.24	7.39	7.54	7.73	7.89	8.06	8.27	8.46	8.65	8.88	9.10	2.3%
Sales to Utilities	1.27	1.29	1.32	1.36	1.39	1.42	1.46	1.49	1.53	1.57	1.61	1.65	1.69	1.73	3.0%
Generation for Own Use	5.52	5.63	5.74	5.88	6.00	6.12	6.27	6.40	6.53	6.70	6.85	7.00	7.19	7.37	2.1%
Total Electricity Generation	230.89	231.78	233.17	238.49	243.95	249.20	253.71	259.66	263.96	268.94	275.26	282.84	286.82	292.19	1.2%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.9	7.9	7.9	0.0%
Commercial	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4	0.3%
Industrial	5.6	5.6	5.5	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.5	0.3%

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.3	0.1%
All Sectors Average	7.3	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	0.2%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.0	5.1	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.6%
Transmission	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	0.9%
Distribution	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.4	-1.0%
Fuel Consumption (quadrillion Btu) 9/															
Coal	1.61	1.62	1.64	1.69	1.73	1.78	1.82	1.87	1.92	1.97	2.02	2.07	2.11	2.15	1.4%
Natural Gas	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.45	0.45	0.45	0.44	0.45	-0.3%
Oil	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	-0.2%
Total	2.11	2.12	2.13	2.18	2.22	2.27	2.31	2.36	2.40	2.44	2.49	2.55	2.58	2.62	1.0%
Fuel Prices (dollars per million Btu)															
Coal	1.51	1.48	1.48	1.50	1.49	1.47	1.41	1.41	1.43	1.43	1.43	1.44	1.44	1.44	1.0%
Natural Gas	5.77	5.76	5.77	5.85	5.81	5.92	6.02	6.16	6.12	6.13	6.21	6.29	6.36	6.37	-0.9%
Distillate Fuel Oil	8.65	8.76	8.96	9.03	9.14	9.28	9.21	9.34	9.34	9.39	9.58	9.66	9.90	9.93	-0.6%
Residual Fuel Oil	5.35	5.40	5.62	5.68	5.93	6.05	5.86	6.00	6.28	7.28	6.42	6.22	6.44	6.64	-0.3%
Biomass	1.91	1.84	1.84	1.81	1.84	1.85	1.83	1.88	1.88	1.90	1.90	1.89	1.88	1.88	3.9%
Emissions 10/															
Total Carbon (million tons)	54.82	55.18	55.61	57.06	58.33	59.72	60.96	62.47	63.66	65.07	66.49	68.09	69.11	70.15	1.2%
Carbon Dioxide (million tons)	201.02	202.31	203.90	209.23	213.89	218.98	223.52	229.04	233.43	238.60	243.78	249.67	253.40	257.23	1.2%
Sulfur Dioxide (million tons)	0.27	0.27	0.27	0.26	0.25	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	-3.1%
Nitrogen Oxide (million tons)	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.24	0.24	0.24	-0.6%
Mercury (tons)	2.46	2.28	2.23	2.15	2.07	1.87	1.53	1.51	1.47	1.44	1.39	1.35	1.38	1.38	-4.4%

Table 71. Electric Power Projections for EMM Region  
Southwest Power Pool - 10

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	11.15	11.15	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.78
Other Fossil Steam 2/	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.28	0.06	0.06	0.06	0.06
Combined Cycle	5.23	5.51	5.75	6.27	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78
Combustion Turbine/Diesel	2.42	2.58	2.64	2.64	2.64	2.64	2.64	2.64	2.13	2.13	2.13	2.13	2.13
Nuclear Power	1.11	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Pumped Storage/Other 3/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	35.43	35.82	36.53	36.74	36.78	36.79	36.79	36.79	36.80	36.80	36.81	36.86	37.02
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
<b>Total Capacity</b>	<b>56.42</b>	<b>57.27</b>	<b>58.39</b>	<b>59.11</b>	<b>59.67</b>	<b>59.67</b>	<b>59.68</b>	<b>59.68</b>	<b>58.69</b>	<b>58.47</b>	<b>58.48</b>	<b>58.52</b>	<b>59.23</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.25	0.76	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
Combustion Turbine/Diesel	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.71	0.92	0.96	0.97	0.97	0.98	0.98	0.98	0.99	1.00	1.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.11</b>	<b>1.84</b>	<b>2.40</b>	<b>2.40</b>	<b>2.41</b>	<b>2.41</b>	<b>2.41</b>	<b>2.42</b>	<b>2.42</b>	<b>2.43</b>	<b>2.44</b>
<b>Cumulative Unplanned Additions 6/</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	0.53
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.20
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>0.74</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.11</b>	<b>1.84</b>	<b>2.40</b>	<b>2.40</b>	<b>2.41</b>	<b>2.41</b>	<b>2.41</b>	<b>2.42</b>	<b>2.42</b>	<b>2.47</b>	<b>3.18</b>
<b>Cumulative Retirements 7/</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
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.71	0.71	0.71	0.71
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</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>1.00</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>
<b>End-Use Sectors 8/</b>													
Coal	0.11	0.11	0.12	0.10	0.10	0.10	0.10	0.58	0.63	0.63	0.83	0.83	0.83
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas	0.20	0.20	0.20	0.22	0.23	0.24	0.24	0.25	0.26	0.27	0.28	0.28	0.29

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Sources 4/	0.40	0.39	0.40	0.41	0.42	0.42	0.44	0.45	0.46	0.47	0.48	0.48	0.49
Other	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
Total	0.73	0.71	0.74	0.76	0.77	0.79	0.81	1.30	1.38	1.39	1.61	1.62	1.64
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	73.41	75.93	79.19	80.35	82.35	83.72	85.33	86.79	88.42	89.49	90.69	91.89	93.35
Commercial/Other	66.73	68.28	71.28	73.22	76.04	77.64	79.25	81.11	83.00	84.83	86.58	88.32	90.08
Industrial	63.83	65.58	68.25	70.30	70.67	71.11	71.84	72.93	73.98	74.86	75.68	76.54	77.44
Transportation	1.85	1.86	1.93	1.96	2.00	2.04	2.07	2.10	2.13	2.16	2.19	2.22	2.25
Total Sales	205.83	211.66	220.65	225.83	231.06	234.50	238.49	242.93	247.54	251.33	255.14	258.97	263.13
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	5.52	7.93	8.24	7.48	8.26	4.48	6.58	3.89	5.44	6.35	5.95	6.19	5.63
Gross International Exports	7.36	6.48	6.47	6.99	5.93	5.86	5.79	5.72	5.66	5.59	5.52	5.46	5.40
Gross Interregional Electricity Imports	18.06	16.60	16.39	16.42	16.23	16.06	15.34	15.68	15.68	14.24	12.81	11.37	9.93
Gross Interregional Electricity Exports	13.10	25.60	28.20	23.01	24.94	22.94	18.41	18.51	17.53	20.46	16.05	11.39	9.73
Purchases from Combined Heat and Power 8/	0.62	0.57	0.64	0.67	0.69	0.70	0.71	3.03	3.32	3.34	4.31	4.33	4.35
Electric Power Sector Generation for Customers	240.54	239.21	248.42	249.87	255.63	260.96	259.12	263.75	265.64	272.89	273.15	273.51	278.23
Total Net Energy for Load	244.28	232.24	239.02	244.45	249.94	253.41	257.54	262.12	266.89	270.77	274.64	278.55	283.02
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	81.57	82.18	81.43	81.10	79.82	80.06	80.27	80.28	80.46	80.60	80.70	80.63	84.52
Petroleum	0.63	0.54	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.34
Natural Gas	24.00	22.81	22.03	24.71	26.12	26.12	18.78	17.94	19.80	26.76	26.76	26.77	26.55
Nuclear	8.98	8.24	8.84	8.91	8.94	8.92	8.98	8.98	8.98	8.98	8.98	8.98	8.98
Pumped Storage/Other 3/	0.26	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	125.64	125.63	136.14	135.17	140.77	145.89	151.11	156.56	156.41	156.56	156.72	157.14	158.15
Total Generation	241.08	239.74	248.74	250.18	255.95	261.28	259.44	264.07	265.95	273.20	273.47	273.83	278.55
Sales to Customers	240.54	239.21	248.42	249.87	255.63	260.96	259.12	263.75	265.64	272.89	273.15	273.51	278.23
Generation for Own Use	0.54	0.53	0.32	0.32	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
<b>End-Use Sectors 8/</b>													
Coal	0.54	0.59	0.74	0.49	0.49	0.49	0.49	4.23	4.67	4.67	6.22	6.22	6.22
Petroleum	0.08	0.08	0.08	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.17	0.17	0.17
Natural Gas	1.05	0.98	0.99	1.11	1.15	1.20	1.24	1.30	1.35	1.39	1.45	1.50	1.55
Other Gaseous Fuels	0.07	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	1.79	1.66	1.70	1.73	1.74	1.76	1.79	1.82	1.86	1.90	1.93	1.96	2.00
Other	0.18	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Total	3.71	3.52	3.69	3.67	3.74	3.80	3.87	7.73	8.25	8.33	9.98	10.06	10.15
Sales to Utilities	0.62	0.57	0.64	0.67	0.69	0.70	0.71	3.03	3.32	3.34	4.31	4.33	4.35
Generation for Own Use	3.08	2.95	3.05	3.00	3.05	3.10	3.16	4.69	4.93	5.00	5.67	5.73	5.80
Total Electricity Generation	244.79	243.26	252.43	253.86	259.69	265.07	263.31	271.79	274.20	281.53	283.45	283.89	288.70
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	7.1	7.1	6.5	6.6	6.8	6.8	6.8	6.7	6.6	6.6	6.6	6.6	6.8
Commercial	6.6	6.5	5.7	5.6	5.8	5.8	5.8	5.7	5.6	5.6	5.6	5.7	5.9
Industrial	4.5	4.6	4.3	4.4	4.6	4.6	4.6	4.5	4.4	4.4	4.4	4.5	4.6

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	6.4	5.9	5.3	5.4	5.6	5.6	5.6	5.5	5.3	5.3	5.3	5.4	5.6
All Sectors Average	6.1	6.1	5.5	5.6	5.8	5.8	5.8	5.7	5.6	5.6	5.6	5.7	5.8
Prices by Service Category (2005 cents per kilowatthour)													
Generation	3.4	3.5	2.9	3.0	3.2	3.2	3.2	3.1	3.0	3.0	3.0	3.1	3.3
Transmission	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Distribution	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.80	0.87	0.87	0.86	0.85	0.85	0.85	0.85	0.85	0.86	0.86	0.86	0.89
Natural Gas	0.20	0.19	0.17	0.19	0.20	0.20	0.15	0.14	0.16	0.21	0.21	0.21	0.21
Oil	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
Total	1.01	1.07	1.04	1.06	1.06	1.06	1.01	1.00	1.02	1.07	1.07	1.07	1.10
Fuel Prices (dollars per million Btu)													
Coal	1.00	1.01	1.03	1.02	1.07	1.04	1.11	1.11	1.13	1.12	1.13	1.14	1.15
Natural Gas	4.96	6.48	7.23	7.47	7.00	6.47	6.20	5.92	5.81	5.46	5.52	5.47	5.52
Distillate Fuel Oil	10.14	12.50	15.06	16.96	13.42	12.74	11.70	10.97	10.36	9.82	9.74	9.68	9.66
Residual Fuel Oil	5.72	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40
Biomass	1.87	1.85	1.80	1.87	1.87	1.91	1.90	1.87	1.83	1.75	1.83	1.87	1.88
Emissions 10/													
Total Carbon (million tons)	30.01	28.84	27.74	27.96	27.72	27.74	26.95	26.84	27.10	27.95	27.99	27.99	28.94
Carbon Dioxide (million tons)	110.02	105.73	101.72	102.52	101.63	101.71	98.80	98.42	99.37	102.48	102.64	102.62	106.11
Sulfur Dioxide (million tons)	0.11	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.10	0.11	0.11	0.11	0.11
Nitrogen Oxide (million tons)	0.18	0.18	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Mercury (tons)	1.70	1.85	1.69	1.70	1.68	1.63	1.48	1.46	1.40	1.39	1.37	1.28	1.26

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	12.63	13.55	13.81	13.96	14.89	15.67	16.54	17.42	18.14	18.88	19.75	19.84	19.84	19.84	2.3%
Other Fossil Steam 2/	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	-10.0%
Combined Cycle	6.78	6.78	7.48	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	1.6%
Combustion Turbine/Diesel	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.21	2.99	3.85	4.68	2.4%
Nuclear Power	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	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	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	N/A
Renewable Sources 4/	37.07	37.15	37.18	37.24	37.25	37.25	37.26	37.27	37.27	37.28	37.33	37.33	37.34	37.35	0.2%
Distributed Generation 5/	0.03	0.07	0.11	0.26	0.30	0.35	0.39	0.44	0.59	0.75	0.91	1.07	1.22	1.38	N/A
<b>Total Capacity</b>	<b>60.15</b>	<b>61.19</b>	<b>62.22</b>	<b>63.36</b>	<b>64.34</b>	<b>65.17</b>	<b>66.09</b>	<b>67.03</b>	<b>67.90</b>	<b>68.81</b>	<b>69.96</b>	<b>71.00</b>	<b>72.02</b>	<b>73.02</b>	<b>1.0%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	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	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	N/A
Combined Cycle	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	N/A
Combustion Turbine/Diesel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A
Renewable Sources 4/	1.01	1.01	1.02	1.03	1.03	1.04	1.05	1.05	1.06	1.07	1.07	1.08	1.09	1.09	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>2.44</b>	<b>2.45</b>	<b>2.45</b>	<b>2.46</b>	<b>2.47</b>	<b>2.47</b>	<b>2.48</b>	<b>2.49</b>	<b>2.49</b>	<b>2.50</b>	<b>2.51</b>	<b>2.51</b>	<b>2.52</b>	<b>2.53</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	1.38	2.30	2.56	2.71	3.64	4.41	5.29	6.17	6.89	7.63	8.49	8.59	8.59	8.59	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	N/A
Combined Cycle	0.00	0.00	0.70	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	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	0.08	0.85	1.72	2.55	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	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	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	N/A
Renewable Sources 4/	0.24	0.31	0.34	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.44	0.44	0.44	0.44	N/A
Distributed Generation 5/	0.03	0.07	0.11	0.26	0.30	0.35	0.39	0.44	0.59	0.75	0.91	1.07	1.22	1.38	N/A
<b>Total Unplanned Additions</b>	<b>1.65</b>	<b>2.68</b>	<b>3.71</b>	<b>4.85</b>	<b>5.82</b>	<b>6.64</b>	<b>7.56</b>	<b>8.49</b>	<b>9.35</b>	<b>10.25</b>	<b>11.40</b>	<b>12.44</b>	<b>13.45</b>	<b>14.44</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>4.09</b>	<b>5.13</b>	<b>6.16</b>	<b>7.31</b>	<b>8.29</b>	<b>9.11</b>	<b>10.04</b>	<b>10.98</b>	<b>11.85</b>	<b>12.75</b>	<b>13.91</b>	<b>14.95</b>	<b>15.97</b>	<b>16.96</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</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	N/A
Other Fossil Steam 3/	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	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
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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>1.22</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	0.95	1.10	1.22	1.35	1.47	2.12	2.22	2.58	2.61	2.89	2.90	2.90	3.05	3.23	14.5%
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	0.7%
Natural Gas	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.44	3.3%

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
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	0.4%
Renewable Sources 4/	0.50	0.51	0.51	0.53	0.54	0.55	0.56	0.58	0.60	0.62	0.64	0.67	0.70	0.73	2.6%
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	N/A
Total	1.77	1.94	2.08	2.23	2.37	3.04	3.17	3.55	3.61	3.92	3.97	4.01	4.20	4.43	7.6%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	94.34	95.67	97.13	98.81	99.78	101.12	102.48	104.13	105.26	106.66	108.06	109.65	110.63	111.87	1.6%
Commercial/Other	91.88	93.79	95.84	97.93	100.03	102.19	104.42	106.69	109.03	111.40	113.88	116.41	118.97	121.51	2.3%
Industrial	78.02	78.67	79.56	80.55	81.50	82.58	83.66	84.88	86.19	87.60	89.12	90.45	91.94	93.43	1.4%
Transportation	2.29	2.32	2.35	2.39	2.42	2.45	2.48	2.51	2.55	2.58	2.61	2.65	2.68	2.71	1.5%
Total Sales	266.54	270.45	274.88	279.67	283.73	288.34	293.04	298.21	303.03	308.24	313.66	319.17	324.22	329.52	1.8%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	5.34	4.93	4.81	5.05	4.94	4.82	4.82	4.83	4.83	4.83	4.83	5.44	5.44	4.92	-1.9%
Gross International Exports	5.33	5.27	5.21	5.14	5.08	5.02	4.76	4.30	4.05	4.05	4.05	4.05	4.05	4.05	-1.9%
Gross Interregional Electricity Imports	8.50	6.16	4.71	3.27	1.82	0.38	0.38	0.38	2.25	4.26	5.86	8.89	11.62	17.47	0.2%
Gross Interregional Electricity Exports	8.65	8.74	8.71	8.50	8.56	8.87	7.31	10.48	9.39	11.02	9.43	8.69	6.68	6.70	-5.2%
Purchases from Combined Heat and Power 8/	4.93	5.69	6.28	6.92	7.54	10.70	11.23	12.96	13.15	14.51	14.63	14.66	15.38	16.29	14.4%
Electric Power Sector Generation for Custome	281.85	288.08	293.77	299.21	304.53	308.14	310.85	318.01	319.13	323.03	325.55	327.05	327.04	326.51	1.3%
Total Net Energy for Load	286.64	290.85	295.66	300.81	305.19	310.14	315.20	321.39	325.91	331.55	337.38	343.29	348.75	354.43	1.7%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	90.76	97.70	99.53	100.69	107.46	113.20	119.62	126.10	131.40	136.87	143.08	143.74	143.77	143.76	2.3%
Petroleum	0.40	0.43	0.45	0.46	0.52	0.55	0.62	0.68	0.74	0.79	0.82	0.83	0.83	0.83	1.7%
Natural Gas	23.65	22.73	26.38	30.20	28.55	26.39	22.58	23.18	18.92	17.28	13.04	13.52	13.50	12.94	-2.2%
Nuclear	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	0.3%
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	N/A
Renewable Sources 4/	158.36	158.55	158.73	159.19	159.34	159.33	159.37	159.38	159.40	159.42	159.94	160.29	160.28	160.31	1.0%
Total Generation	282.17	288.39	294.08	299.52	304.85	308.45	311.16	318.33	319.44	323.34	325.87	327.37	327.36	326.82	1.2%
Sales to Customers	281.85	288.08	293.77	299.21	304.53	308.14	310.85	318.01	319.13	323.03	325.55	327.05	327.04	326.51	1.3%
Generation for Own Use	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	-2.0%
Distributed Generation 5/	0.01	0.03	0.05	0.11	0.13	0.15	0.17	0.19	0.26	0.33	0.40	0.47	0.54	0.61	N/A
<b>End-Use Sectors 8/</b>															
Coal	7.13	8.35	9.28	10.29	11.24	16.35	17.18	19.96	20.22	22.39	22.54	22.55	23.67	25.10	16.2%
Petroleum	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	3.4%
Natural Gas	1.61	1.67	1.73	1.81	1.88	1.95	2.03	2.10	2.17	2.25	2.32	2.39	2.48	2.56	3.9%
Other Gaseous Fuels	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.8%
Renewable Sources 4/	2.03	2.05	2.08	2.12	2.16	2.19	2.24	2.28	2.33	2.38	2.44	2.50	2.57	2.64	1.9%
Other	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	0.0%
Total	11.14	12.45	13.48	14.60	15.67	20.88	21.83	24.72	25.10	27.42	27.69	27.84	29.12	30.70	9.1%
Sales to Utilities	4.93	5.69	6.28	6.92	7.54	10.70	11.23	12.96	13.15	14.51	14.63	14.66	15.38	16.29	14.4%
Generation for Own Use	6.22	6.76	7.19	7.68	8.13	10.18	10.60	11.76	11.95	12.91	13.07	13.18	13.74	14.41	6.6%
Total Electricity Generation	293.32	300.87	307.61	314.24	320.65	329.48	333.17	343.25	344.80	351.09	353.96	355.67	357.02	358.12	1.6%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	6.9	7.0	7.0	7.0	7.1	7.2	7.2	7.3	7.4	7.4	7.4	7.5	7.6	7.7	0.3%
Commercial	6.0	6.1	6.1	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.5	6.6	6.7	6.8	0.2%
Industrial	4.7	4.8	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.1	5.2	5.3	5.3	0.6%

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	5.7	5.8	5.8	5.8	5.9	5.9	6.0	6.1	6.1	6.1	6.1	6.2	6.3	6.4	0.3%
All Sectors Average	6.0	6.0	6.0	6.1	6.1	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.6	6.7	0.4%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	3.4	3.4	3.4	3.4	3.5	3.6	3.6	3.7	3.8	3.8	3.8	3.9	4.0	4.1	0.6%
Transmission	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	0.6%
Distribution	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	-0.3%
Fuel Consumption (quadrillion Btu) 9/															
Coal	0.94	1.00	1.02	1.03	1.09	1.14	1.19	1.25	1.29	1.34	1.39	1.40	1.40	1.40	1.9%
Natural Gas	0.19	0.18	0.20	0.22	0.21	0.20	0.17	0.17	0.15	0.14	0.10	0.11	0.11	0.11	-2.3%
Oil	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	-0.6%
Total	1.13	1.19	1.23	1.26	1.30	1.34	1.37	1.43	1.45	1.48	1.51	1.51	1.52	1.51	1.4%
Fuel Prices (dollars per million Btu)															
Coal	1.16	1.19	1.23	1.27	1.33	1.38	1.41	1.44	1.48	1.51	1.52	1.54	1.59	1.58	1.8%
Natural Gas	5.74	5.58	5.43	5.61	5.50	5.63	5.79	5.76	5.79	5.80	5.89	6.04	6.15	6.22	-0.2%
Distillate Fuel Oil	9.84	9.99	10.28	10.33	10.46	10.62	10.53	10.60	10.66	10.70	10.86	10.96	11.12	11.10	-0.5%
Residual Fuel Oil	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	N/A
Biomass	1.92	1.88	1.86	1.90	1.91	1.92	1.93	1.94	1.92	1.93	1.97	2.01	2.01	2.01	0.3%
Emissions 10/															
Total Carbon (million tons)	30.17	31.82	32.62	33.29	34.78	36.00	37.19	38.87	39.75	40.94	42.00	42.22	42.24	42.18	1.5%
Carbon Dioxide (million tons)	110.62	116.66	119.61	122.05	127.51	131.99	136.35	142.53	145.75	150.10	154.00	154.79	154.88	154.67	1.5%
Sulfur Dioxide (million tons)	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	0.1%
Nitrogen Oxide (million tons)	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.1%
Mercury (tons)	1.29	1.19	1.18	1.17	1.17	1.11	1.13	1.16	1.05	1.07	1.04	1.04	1.05	1.05	-2.2%

Table 72. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 73. Electric Power Projections for EMM Region  
 Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona - New Mexico-Southern Nevada Power Area -12

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	16.25	16.25	16.64	16.64	16.64	17.79	17.79	17.79	17.79	17.79	18.36	19.45	20.47
Other Fossil Steam 2/	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	0.72	0.72	0.72	0.72	0.72
Combined Cycle	15.27	15.88	18.09	18.72	18.99	18.99	18.99	19.85	19.85	19.85	19.85	19.85	19.85
Combustion Turbine/Diesel	4.67	4.67	5.39	5.66	5.66	5.66	5.66	5.66	4.21	4.21	4.21	4.21	4.21
Nuclear Power	2.76	2.76	2.79	2.79	2.84	2.84	2.84	2.88	2.88	2.88	2.88	2.88	2.88
Pumped Storage/Other 3/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	6.29	6.32	6.59	6.77	6.77	6.78	6.78	6.79	6.79	6.79	6.80	6.80	6.81
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capacity</b>	<b>49.33</b>	<b>49.98</b>	<b>53.60</b>	<b>54.68</b>	<b>55.00</b>	<b>56.15</b>	<b>56.16</b>	<b>57.06</b>	<b>53.02</b>	<b>53.03</b>	<b>53.60</b>	<b>54.69</b>	<b>55.71</b>
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.40	0.40	0.40	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	2.21	2.84	3.11	3.11	3.11	3.97	3.97	3.97	3.97	3.97	3.97
Combustion Turbine/Diesel	0.00	0.00	0.72	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.27	0.45	0.46	0.46	0.46	0.47	0.47	0.48	0.48	0.48	0.49
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>3.60</b>	<b>4.68</b>	<b>4.95</b>	<b>6.10</b>	<b>6.11</b>	<b>6.97</b>	<b>6.97</b>	<b>6.98</b>	<b>6.98</b>	<b>6.99</b>	<b>6.99</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	1.65	2.67
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Unplanned 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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.57</b>	<b>1.65</b>	<b>2.67</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>3.60</b>	<b>4.68</b>	<b>4.95</b>	<b>6.10</b>	<b>6.11</b>	<b>6.97</b>	<b>6.97</b>	<b>6.98</b>	<b>7.55</b>	<b>8.64</b>	<b>9.66</b>
<b>Cumulative Retirements 7/</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
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	2.59	2.59
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	1.45	1.45
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</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>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>
<b>End-Use Sectors 8/</b>													
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Petroleum	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06
Natural Gas	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14

Table 73. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona - New Mexico-Southern Nevada Power Area -12

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.29	0.29	0.29	0.30	0.31	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.34
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	61.37	65.26	65.86	67.32	69.31	70.98	72.91	74.66	76.52	77.86	79.35	80.91	82.70
Commercial/Other	62.47	63.70	64.67	66.43	68.70	70.58	72.52	74.75	76.96	79.02	81.04	83.12	85.24
Industrial	38.53	39.35	39.34	39.74	40.17	40.40	40.81	41.41	42.01	42.53	42.96	43.46	43.96
Transportation	1.15	1.18	1.17	1.19	1.22	1.25	1.28	1.30	1.32	1.34	1.37	1.39	1.42
Total Sales	163.51	169.49	171.04	174.69	179.40	183.21	187.51	192.13	196.81	200.75	204.72	208.88	213.32
<b>Net Energy for Load (billion kilowatthours) 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
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gross Interregional Electricity Imports	16.08	13.99	17.87	15.25	11.06	11.17	10.38	11.31	12.07	11.32	10.73	9.80	7.61
Gross Interregional Electricity Exports	68.55	47.83	61.33	61.68	61.62	61.61	57.33	50.48	50.19	49.08	50.02	49.11	49.04
Purchases from Combined Heat and Power 8/	0.18	0.17	0.18	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28
Electric Power Sector Generation for Custome	210.29	213.01	228.58	235.32	244.42	248.21	249.23	246.25	250.08	253.81	259.42	263.73	270.62
Total Net Energy for Load	158.00	179.35	185.31	189.11	194.09	198.00	202.52	207.33	212.22	216.30	220.39	224.69	229.46
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	120.20	121.13	122.14	123.06	121.41	123.77	129.49	130.60	130.90	131.13	135.51	143.48	150.97
Petroleum	1.47	0.12	0.52	0.52	0.56	0.73	0.77	0.76	0.74	0.74	0.81	0.89	0.96
Natural Gas	58.53	63.06	71.92	76.51	86.10	86.86	81.61	77.29	80.60	84.00	85.04	81.27	80.58
Nuclear	20.41	18.73	22.28	22.32	22.37	22.37	22.37	22.67	22.67	22.67	22.67	22.67	22.67
Pumped Storage/Other 3/	-0.23	0.06	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
Renewable Sources 4/	14.08	14.10	16.38	17.58	18.65	19.15	19.65	19.60	19.62	19.74	19.85	19.89	19.90
Total Generation	214.46	217.20	233.01	239.74	248.84	252.64	253.65	250.67	254.30	258.03	263.64	267.95	274.84
Sales to Customers	210.29	213.01	228.58	235.32	244.42	248.21	249.23	246.25	250.08	253.81	259.42	263.73	270.62
Generation for Own Use	4.16	4.19	4.42	4.42	4.42	4.42	4.42	4.42	4.22	4.22	4.22	4.22	4.22
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Petroleum	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
Natural Gas	0.59	0.55	0.56	0.62	0.65	0.67	0.70	0.73	0.76	0.78	0.82	0.84	0.87
Other Gaseous Fuels	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
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.01	0.96	0.96	1.05	1.08	1.10	1.13	1.16	1.19	1.22	1.25	1.28	1.30
Sales to Utilities	0.18	0.17	0.18	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28
Generation for Own Use	0.83	0.79	0.78	0.82	0.85	0.87	0.89	0.92	0.94	0.96	0.98	1.00	1.03
Total Electricity Generation	215.46	218.17	233.97	240.79	249.92	253.74	254.78	251.84	255.49	259.25	264.89	269.23	276.14
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	9.0	9.2	9.9	9.9	9.9	9.6	9.4	9.2	9.2	9.4	9.3	9.3	9.4
Commercial	7.7	7.8	8.8	8.9	8.8	8.6	8.3	7.9	7.9	8.1	8.1	8.1	8.2
Industrial	5.9	6.2	7.1	7.3	7.2	7.0	6.7	6.3	6.2	6.3	6.3	6.3	6.3

Table 73. Electric Power Projections for EMM Region  
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	8.4	8.2	8.1	8.4	8.4	8.2	8.0	7.7	7.7	7.9	7.8	7.8	7.8
All Sectors Average	7.8	8.0	8.8	8.9	8.9	8.6	8.4	8.1	8.1	8.2	8.2	8.2	8.3
Prices by Service Category (2005 cents per kilowatthour)													
Generation	5.2	5.5	6.3	6.4	6.3	6.0	5.7	5.4	5.4	5.6	5.5	5.5	5.5
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8
Distribution	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Fuel Consumption (quadrillion Btu) 9/													
Coal	1.18	1.28	1.29	1.30	1.28	1.30	1.35	1.36	1.37	1.37	1.41	1.48	1.54
Natural Gas	0.51	0.52	0.55	0.58	0.65	0.66	0.62	0.59	0.61	0.63	0.64	0.61	0.61
Oil	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
Total	1.69	1.80	1.84	1.88	1.93	1.96	1.98	1.96	1.98	2.01	2.06	2.10	2.16
Fuel Prices (dollars per million Btu)													
Coal	1.14	1.12	1.18	1.19	1.23	1.20	1.24	1.25	1.24	1.23	1.23	1.23	1.24
Natural Gas	5.71	7.37	7.51	7.66	7.16	6.69	6.29	6.01	5.89	5.63	5.68	5.63	5.70
Distillate Fuel Oil	9.66	12.72	14.95	17.19	12.60	11.89	11.09	10.40	10.01	9.81	9.56	9.53	9.44
Residual Fuel Oil	5.72	8.16	9.87	13.20	12.31	11.70	11.03	10.64	10.35	15.40	15.40	15.40	15.40
Biomass	0.83	0.82	0.94	1.19	1.14	1.19	1.33	1.68	1.78	1.59	1.61	1.66	1.67
Emissions 10/													
Total Carbon (million tons)	45.96	44.70	45.65	46.41	47.01	47.78	48.67	48.46	48.93	49.42	50.66	52.17	53.93
Carbon Dioxide (million tons)	168.51	163.89	167.39	170.15	172.36	175.18	178.46	177.67	179.42	181.20	185.75	191.30	197.73
Sulfur Dioxide (million tons)	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
Nitrogen Oxide (million tons)	0.27	0.27	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
Mercury (tons)	1.85	1.96	2.06	1.99	1.94	1.84	1.57	1.57	1.49	1.53	1.21	1.19	1.11

Table 73. Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	21.47	22.60	23.74	24.97	26.15	27.47	28.82	30.18	31.53	32.89	34.32	35.78	37.09	38.57	3.5%
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	-5.9%
Combined Cycle	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	0.9%
Combustion Turbine/Diesel	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	-0.4%
Nuclear Power	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	0.2%
Pumped Storage/Other 3/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	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	N/A
Renewable Sources 4/	6.81	6.81	6.82	6.82	6.82	6.83	6.83	6.83	6.84	6.84	6.84	6.89	6.90	6.90	0.4%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.12	0.20	0.27	0.35	N/A
<b>Total Capacity</b>	<b>56.72</b>	<b>57.85</b>	<b>58.99</b>	<b>60.23</b>	<b>61.41</b>	<b>62.73</b>	<b>64.09</b>	<b>65.45</b>	<b>66.83</b>	<b>68.22</b>	<b>69.73</b>	<b>71.31</b>	<b>72.69</b>	<b>74.25</b>	<b>1.6%</b>
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	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	N/A
Combined Cycle	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	N/A
Combustion Turbine/Diesel	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	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	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	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	N/A
Renewable Sources 4/	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.53	0.54	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>6.99</b>	<b>7.00</b>	<b>7.00</b>	<b>7.00</b>	<b>7.01</b>	<b>7.01</b>	<b>7.01</b>	<b>7.02</b>	<b>7.02</b>	<b>7.02</b>	<b>7.03</b>	<b>7.03</b>	<b>7.03</b>	<b>7.04</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	3.67	4.81	5.94	7.18	8.36	9.68	11.03	12.39	13.74	15.10	16.53	17.98	19.30	20.78	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.12	0.20	0.27	0.35	N/A
<b>Total Unplanned Additions</b>	<b>3.68</b>	<b>4.81</b>	<b>5.94</b>	<b>7.18</b>	<b>8.36</b>	<b>9.68</b>	<b>11.03</b>	<b>12.39</b>	<b>13.76</b>	<b>15.15</b>	<b>16.66</b>	<b>18.23</b>	<b>19.61</b>	<b>21.17</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>10.67</b>	<b>11.81</b>	<b>12.94</b>	<b>14.18</b>	<b>15.37</b>	<b>16.69</b>	<b>18.04</b>	<b>19.41</b>	<b>20.78</b>	<b>22.17</b>	<b>23.68</b>	<b>25.26</b>	<b>26.65</b>	<b>28.21</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</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	N/A
Other Fossil Steam 3/	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	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	N/A
Combustion Turbine/Diesel	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>4.04</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
Coal	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A
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	0.7%
Natural Gas	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	3.3%

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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6%
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	N/A
Total	0.35	0.35	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.41	0.42	0.43	1.6%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	84.08	85.77	87.61	89.64	90.95	92.54	94.14	96.00	97.45	99.16	100.86	102.76	104.09	105.67	1.9%
Commercial/Other	87.40	89.73	92.22	94.73	97.28	99.92	102.58	105.31	108.14	110.99	114.00	117.12	120.25	123.40	2.7%
Industrial	44.26	44.60	45.11	45.59	46.10	46.64	47.21	47.93	48.66	49.40	50.32	51.14	51.99	52.96	1.2%
Transportation	1.44	1.47	1.50	1.52	1.55	1.57	1.60	1.63	1.65	1.68	1.71	1.73	1.76	1.79	1.7%
Total Sales	217.19	221.57	226.43	231.49	235.88	240.68	245.52	250.87	255.91	261.23	266.89	272.75	278.09	283.82	2.1%
<b>Net Energy for Load (billion kilowatthours) 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	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	N/A
Gross Interregional Electricity Imports	6.53	2.67	2.02	1.81	2.23	2.01	2.00	3.27	4.15	4.16	4.15	6.54	6.89	6.12	-3.3%
Gross Interregional Electricity Exports	48.84	47.60	54.59	53.70	45.66	42.12	42.29	40.39	41.24	40.72	41.57	43.54	45.07	48.39	0.0%
Purchases from Combined Heat and Power 8/	0.29	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.37	0.38	0.39	0.40	3.4%
Electric Power Sector Generation for Customers	275.65	282.98	295.84	300.58	296.85	298.67	304.05	306.64	312.00	317.20	324.13	330.02	336.94	347.17	2.0%
Total Net Energy for Load	233.63	238.35	243.57	249.01	253.73	258.89	264.10	269.86	275.27	281.00	287.09	293.39	299.14	305.30	2.2%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	158.36	166.68	175.02	184.12	192.75	202.51	212.51	222.50	232.47	242.45	252.98	263.73	273.37	284.27	3.5%
Petroleum	1.04	1.13	1.21	1.30	1.39	1.49	1.59	1.69	1.79	1.89	2.00	2.13	2.23	2.34	12.8%
Natural Gas	78.13	77.01	81.43	76.98	64.45	56.48	51.78	44.25	39.58	34.65	30.90	25.64	22.77	21.98	-4.1%
Nuclear	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	0.8%
Pumped Storage/Other 3/	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	N/A
Renewable Sources 4/	19.91	19.95	19.97	19.98	20.05	19.99	19.97	19.99	19.95	19.99	20.04	20.31	20.35	20.36	1.5%
Total Generation	279.87	287.20	300.06	304.80	301.07	302.89	308.28	310.86	316.22	321.42	328.35	334.24	341.16	351.39	1.9%
Sales to Customers	275.65	282.98	295.84	300.58	296.85	298.67	304.05	306.64	312.00	317.20	324.13	330.02	336.94	347.17	2.0%
Generation for Own Use	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	0.0%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.09	0.12	0.15	N/A
<b>End-Use Sectors 8/</b>															
Coal	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	N/A
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	3.4%
Natural Gas	0.90	0.94	0.98	1.02	1.06	1.10	1.14	1.18	1.22	1.27	1.31	1.35	1.40	1.44	3.9%
Other Gaseous Fuels	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	0.8%
Renewable Sources 4/	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	1.9%
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	N/A
Total	1.34	1.38	1.41	1.46	1.49	1.53	1.58	1.62	1.66	1.71	1.74	1.78	1.83	1.88	2.7%
Sales to Utilities	0.29	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.37	0.38	0.39	0.40	3.4%
Generation for Own Use	1.05	1.08	1.11	1.15	1.18	1.20	1.24	1.27	1.30	1.34	1.37	1.40	1.44	1.48	2.5%
Total Electricity Generation	281.21	288.58	301.47	306.26	302.56	304.43	309.85	312.47	317.89	323.15	330.15	336.11	343.11	353.42	1.9%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	9.5	9.4	9.3	9.3	9.4	9.4	9.5	9.5	9.6	9.6	9.6	9.7	9.7	9.8	0.3%
Commercial	8.3	8.2	8.0	8.1	8.1	8.1	8.1	8.2	8.2	8.3	8.3	8.3	8.3	8.4	0.3%
Industrial	6.4	6.3	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.3	6.3	6.3	6.4	6.4	0.2%

Table 73. Electric Power Projections for EMM Region  
 Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona - New Mexico-Southern Nevada Power Area -12

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	7.9	7.8	7.7	7.7	7.7	7.8	7.8	7.8	7.8	7.9	7.9	7.9	7.9	8.0	-0.1%
All Sectors Average	8.4	8.3	8.1	8.2	8.2	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.5	8.6	0.3%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.6	5.5	5.3	5.3	5.4	5.4	5.4	5.4	5.5	5.5	5.5	5.5	5.6	5.6	0.1%
Transmission	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	2.1%
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	0.1%
Fuel Consumption (quadrillion Btu) 9/															
Coal	1.60	1.68	1.75	1.83	1.90	1.98	2.07	2.16	2.24	2.33	2.42	2.51	2.59	2.69	3.0%
Natural Gas	0.59	0.58	0.62	0.58	0.49	0.43	0.40	0.34	0.31	0.28	0.25	0.21	0.19	0.18	-4.0%
Oil	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	11.9%
Total	2.21	2.27	2.38	2.42	2.41	2.43	2.49	2.52	2.57	2.62	2.69	2.74	2.80	2.89	1.9%
Fuel Prices (dollars per million Btu)															
Coal	1.26	1.28	1.29	1.32	1.36	1.40	1.41	1.43	1.45	1.47	1.50	1.53	1.55	1.57	1.4%
Natural Gas	5.86	5.57	5.31	5.45	5.47	5.61	5.77	5.88	5.90	5.91	5.99	6.12	6.25	6.33	-0.6%
Distillate Fuel Oil	9.68	9.81	10.07	10.08	10.24	10.33	10.26	10.36	10.33	10.38	10.55	10.63	10.78	10.74	-0.7%
Residual Fuel Oil	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	15.40	2.6%
Biomass	1.71	1.61	1.61	1.64	1.66	1.66	1.67	1.69	1.67	1.66	1.73	1.90	1.89	1.88	3.4%
Emissions 10/															
Total Carbon (million tons)	55.43	57.31	59.85	61.53	62.16	63.60	65.45	67.01	68.88	70.72	72.84	74.85	76.85	79.40	2.3%
Carbon Dioxide (million tons)	203.24	210.14	219.43	225.61	227.93	233.19	239.99	245.70	252.56	259.32	267.06	274.44	281.79	291.12	2.3%
Sulfur Dioxide (million tons)	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	0.6%
Nitrogen Oxide (million tons)	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.4%
Mercury (tons)	1.07	1.01	1.00	1.00	0.99	0.94	0.92	0.95	0.81	0.81	0.79	0.79	0.79	0.79	-3.6%

Table 73. Electric Power Projections for EMM Region

Western Electricity Coordinating Council/Rocky Mountain Power Area and Arizona - New Mexico-Southern Nevada Power Area -12

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 74. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/California - 13

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	4.30	4.30	4.30	4.30	4.30	4.30	7.30	7.30	7.30	7.30	7.77	8.56	9.42
Other Fossil Steam 2/	16.06	16.06	15.68	15.68	15.68	15.68	15.68	15.68	13.86	13.86	13.86	13.86	13.86
Combined Cycle	9.55	12.07	13.21	13.97	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51
Combustion Turbine/Diesel	5.99	6.15	6.19	6.36	6.36	6.36	6.36	6.36	6.31	6.31	6.31	6.31	6.31
Nuclear Power	5.37	5.37	5.38	5.38	5.40	5.40	5.40	5.41	5.41	5.41	5.41	5.41	5.41
Pumped Storage/Other 3/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	15.90	16.12	16.35	18.31	18.32	18.34	18.34	18.34	18.35	18.54	18.55	18.63	18.70
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capacity</b>	<b>60.85</b>	<b>63.75</b>	<b>64.81</b>	<b>67.69</b>	<b>68.25</b>	<b>68.27</b>	<b>71.27</b>	<b>71.29</b>	<b>69.42</b>	<b>69.62</b>	<b>70.09</b>	<b>70.96</b>	<b>71.89</b>
<b>Cumulative Planned Additions 6/</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
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	1.14	1.90	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43
Combustion Turbine/Diesel	0.00	0.00	0.10	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.24	2.20	2.20	2.22	2.22	2.23	2.23	2.24	2.24	2.25	2.25
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Planned Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.47</b>	<b>4.36</b>	<b>4.90</b>	<b>4.92</b>	<b>4.92</b>	<b>4.92</b>	<b>4.93</b>	<b>4.93</b>	<b>4.94</b>	<b>4.94</b>	<b>4.95</b>
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	3.00	3.47	4.26	5.12
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.26	0.33
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Unplanned 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>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.19</b>	<b>3.66</b>	<b>4.52</b>	<b>5.44</b>
<b>Cumulative Total Additions</b>	<b>0.00</b>	<b>0.00</b>	<b>1.47</b>	<b>4.36</b>	<b>4.90</b>	<b>4.92</b>	<b>7.92</b>	<b>7.92</b>	<b>7.93</b>	<b>8.12</b>	<b>8.60</b>	<b>9.47</b>	<b>10.39</b>
<b>Cumulative Retirements 7/</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
Other Fossil Steam 3/	0.00	0.00	0.38	0.38	0.38	0.38	0.38	0.38	2.20	2.20	2.20	2.20	2.20
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion Turbine/Diesel	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.10	0.10	0.10	0.10
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.43</b>	<b>0.43</b>	<b>0.43</b>	<b>0.43</b>	<b>0.43</b>	<b>0.43</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>
<b>End-Use Sectors 8/</b>													
Coal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Petroleum	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.20	0.20	0.20	0.20	0.20	0.20
Natural Gas	2.23	2.16	2.21	2.49	2.56	2.64	2.71	2.81	2.88	2.96	3.05	3.13	3.22

Table 74. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/California - 13

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Renewable Sources 4/	0.24	0.23	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29
Other	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	2.94	2.86	2.92	3.19	3.28	3.36	3.44	3.57	3.65	3.73	3.83	3.92	4.01
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	84.02	83.83	84.76	85.70	87.65	88.79	90.16	91.40	92.85	93.72	94.72	95.66	96.89
Commercial/Other	115.23	115.81	116.60	119.74	124.68	126.81	128.88	131.26	133.78	136.28	138.66	140.89	143.18
Industrial	48.12	48.88	49.37	51.79	51.81	52.16	52.70	53.50	54.26	54.86	55.48	56.10	56.75
Transportation	2.59	2.51	2.54	2.57	2.62	2.66	2.70	2.73	2.77	2.80	2.84	2.87	2.91
Total Sales	249.96	251.03	253.27	259.79	266.76	270.42	274.45	278.90	283.66	287.66	291.69	295.53	299.72
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	1.10	1.50	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Gross International Exports	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Gross Interregional Electricity Imports	65.46	53.32	67.07	64.46	70.59	68.54	60.38	53.33	52.09	54.68	52.66	48.79	48.85
Gross Interregional Electricity Exports	9.10	6.65	3.35	3.32	3.30	3.30	3.34	3.34	3.35	3.04	2.73	2.42	2.07
Purchases from Combined Heat and Power 8/	4.47	4.25	4.49	5.62	5.76	5.90	6.07	6.27	6.43	6.61	6.80	6.98	7.16
Electric Power Sector Generation for Customers	205.90	207.06	206.16	214.28	215.33	220.89	233.07	244.46	250.39	251.40	256.91	264.17	268.10
Total Net Energy for Load	267.78	259.38	275.47	282.13	289.47	293.13	297.26	301.82	306.66	310.74	314.73	318.62	323.13
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	31.38	30.88	32.72	32.47	31.94	32.03	50.67	52.94	54.22	54.31	57.85	63.70	69.98
Petroleum	1.81	2.05	0.13	0.13	0.13	0.14	0.33	0.35	0.36	0.37	0.40	0.46	0.52
Natural Gas	83.69	75.03	75.50	75.93	76.38	80.78	73.21	82.32	86.69	86.71	88.68	89.63	86.76
Nuclear	37.97	43.23	42.42	42.50	42.50	42.43	42.47	42.58	42.58	42.58	42.58	42.58	42.58
Pumped Storage/Other 3/	-0.76	0.17	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86
Renewable Sources 4/	54.56	58.21	58.85	66.69	67.83	68.96	69.85	69.72	69.88	70.77	70.74	71.14	71.60
Total Generation	208.65	209.56	208.75	216.86	217.91	223.48	235.66	247.05	252.87	253.89	259.39	266.66	270.58
Sales to Customers	205.90	207.06	206.16	214.28	215.33	220.89	233.07	244.46	250.39	251.40	256.91	264.17	268.10
Generation for Own Use	2.75	2.50	2.59	2.59	2.59	2.59	2.59	2.59	2.48	2.48	2.48	2.48	2.48
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>End-Use Sectors 8/</b>													
Coal	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Petroleum	0.88	0.87	0.88	1.65	1.67	1.67	1.67	1.92	1.92	1.92	1.93	1.93	1.93
Natural Gas	15.91	14.88	15.03	16.78	17.50	18.16	18.86	19.73	20.42	21.15	21.97	22.74	23.50
Other Gaseous Fuels	0.84	0.70	0.55	0.61	0.64	0.64	0.64	0.66	0.66	0.66	0.68	0.68	0.68
Renewable Sources 4/	1.31	1.21	1.24	1.26	1.27	1.28	1.31	1.33	1.36	1.39	1.41	1.43	1.46
Other	1.73	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
Total	21.19	19.57	19.59	22.20	22.98	23.66	24.38	25.55	26.26	27.02	27.89	28.68	29.47
Sales to Utilities	4.47	4.25	4.49	5.62	5.76	5.90	6.07	6.27	6.43	6.61	6.80	6.98	7.16
Generation for Own Use	16.72	15.32	15.10	16.59	17.23	17.75	18.32	19.28	19.82	20.41	21.09	21.69	22.31
Total Electricity Generation	229.84	229.13	228.34	239.06	240.90	247.13	260.04	272.60	279.13	280.90	287.28	295.33	300.05
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	13.0	12.5	12.7	12.9	12.6	12.4	12.1	11.8	11.6	11.4	11.3	11.3	11.3
Commercial	11.9	11.7	11.2	11.0	10.8	10.6	10.3	10.0	9.7	9.5	9.5	9.4	9.4
Industrial	9.9	9.4	9.5	9.5	9.4	9.2	8.9	8.6	8.4	8.3	8.2	8.2	8.2

Table 74. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/California - 13

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	11.7	11.3	10.8	10.9	10.6	10.4	10.1	9.7	9.4	9.2	9.1	9.1	9.1
All Sectors Average	11.9	11.5	11.4	11.3	11.1	10.9	10.6	10.3	10.1	9.9	9.8	9.8	9.8
Prices by Service Category (2005 cents per kilowatthour)													
Generation	7.3	7.0	6.9	6.9	7.1	6.8	6.6	6.2	6.0	5.8	5.8	5.7	5.7
Transmission	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
Distribution	3.9	3.8	3.8	3.8	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3
Fuel Consumption (quadrillion Btu) 9/													
Coal	0.31	0.34	0.34	0.34	0.33	0.33	0.49	0.52	0.53	0.53	0.56	0.61	0.66
Natural Gas	0.79	0.68	0.65	0.66	0.66	0.69	0.64	0.70	0.73	0.73	0.75	0.75	0.73
Oil	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.12	1.05	0.99	0.99	0.99	1.02	1.13	1.22	1.26	1.26	1.31	1.37	1.40
Fuel Prices (dollars per million Btu)													
Coal	1.15	1.06	1.12	1.14	1.23	1.15	1.26	1.27	1.26	1.24	1.24	1.24	1.26
Natural Gas	5.87	7.66	7.70	7.97	7.49	7.07	6.63	6.38	6.30	6.01	6.08	6.03	6.08
Distillate Fuel Oil	9.94	12.60	15.01	17.06	13.07	12.37	11.26	10.54	10.10	9.82	9.60	9.56	9.49
Residual Fuel Oil	5.86	8.35	10.04	14.15	12.60	12.46	11.84	11.52	11.13	10.87	10.81	10.85	10.78
Biomass	1.92	1.90	1.90	1.98	2.00	2.06	2.07	2.08	2.04	1.89	2.01	2.04	2.04
Emissions 10/													
Total Carbon (million tons)	22.87	22.15	20.05	20.00	19.91	20.45	24.18	25.79	26.62	26.66	27.78	29.33	30.54
Carbon Dioxide (million tons)	83.85	81.23	73.51	73.35	73.01	75.00	88.66	94.56	97.59	97.75	101.86	107.56	111.98
Sulfur Dioxide (million tons)	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
Nitrogen Oxide (million tons)	0.04	0.03	0.08	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.10
Mercury (tons)	0.33	0.36	0.33	0.34	0.34	0.34	0.24	0.24	0.23	0.24	0.23	0.24	0.23

Table 74. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/California - 13

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	10.25	11.14	12.14	13.26	14.30	15.33	16.52	17.73	18.86	19.95	21.08	22.12	23.25	24.26	7.2%
Other Fossil Steam 2/	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	-0.6%
Combined Cycle	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	0.7%
Combustion Turbine/Diesel	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.38	6.38	6.47	0.2%
Nuclear Power	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	0.0%
Pumped Storage/Other 3/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	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	N/A
Renewable Sources 4/	18.75	18.81	18.86	18.87	18.88	19.01	19.02	19.07	19.19	19.24	19.30	19.40	19.41	19.47	0.8%
Distributed Generation 5/	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.15	0.21	0.41	0.61	0.82	1.02	1.22	N/A
<b>Total Capacity</b>	<b>72.77</b>	<b>73.74</b>	<b>74.82</b>	<b>75.97</b>	<b>77.04</b>	<b>78.22</b>	<b>79.44</b>	<b>80.72</b>	<b>82.03</b>	<b>83.37</b>	<b>84.76</b>	<b>86.19</b>	<b>87.53</b>	<b>88.87</b>	<b>1.3%</b>
<b>Cumulative Planned Additions 6/</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	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	N/A
Combined Cycle	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	N/A
Combustion Turbine/Diesel	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
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	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	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	N/A
Renewable Sources 4/	2.26	2.26	2.27	2.28	2.29	2.29	2.30	2.31	2.32	2.32	2.33	2.34	2.35	2.35	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total Planned Additions</b>	<b>4.96</b>	<b>4.96</b>	<b>4.97</b>	<b>4.98</b>	<b>4.98</b>	<b>4.99</b>	<b>5.00</b>	<b>5.01</b>	<b>5.01</b>	<b>5.02</b>	<b>5.03</b>	<b>5.04</b>	<b>5.04</b>	<b>5.05</b>	<b>N/A</b>
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	5.95	6.84	7.84	8.96	10.00	11.03	12.22	13.43	14.56	15.65	16.78	17.82	18.95	19.96	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	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	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	0.07	0.07	0.15	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A
Renewable Sources 4/	0.38	0.43	0.48	0.48	0.48	0.60	0.60	0.64	0.75	0.80	0.85	0.94	0.95	1.00	N/A
Distributed Generation 5/	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.15	0.21	0.41	0.61	0.82	1.02	1.22	N/A
<b>Total Unplanned Additions</b>	<b>6.32</b>	<b>7.28</b>	<b>8.36</b>	<b>9.50</b>	<b>10.56</b>	<b>11.73</b>	<b>12.95</b>	<b>14.22</b>	<b>15.52</b>	<b>16.85</b>	<b>18.24</b>	<b>19.66</b>	<b>20.99</b>	<b>22.32</b>	<b>N/A</b>
<b>Cumulative Total Additions</b>	<b>11.28</b>	<b>12.24</b>	<b>13.33</b>	<b>14.48</b>	<b>15.54</b>	<b>16.72</b>	<b>17.95</b>	<b>19.23</b>	<b>20.54</b>	<b>21.88</b>	<b>23.27</b>	<b>24.69</b>	<b>26.03</b>	<b>27.38</b>	<b>N/A</b>
<b>Cumulative Retirements 7/</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	N/A
Other Fossil Steam 3/	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	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	N/A
Combustion Turbine/Diesel	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
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	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>2.30</b>	<b>N/A</b>
<b>End-Use Sectors 8/</b>															
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	N/A
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	0.7%
Natural Gas	3.33	3.42	3.53	3.66	3.77	3.88	4.02	4.12	4.24	4.38	4.50	4.62	4.76	4.89	3.3%

Table 74. Electric Power Projections for EMM Region  
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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	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	0.4%
Renewable Sources 4/	0.30	0.30	0.31	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.40	0.42	0.44	2.6%
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Total	4.12	4.22	4.33	4.47	4.60	4.71	4.86	4.98	5.11	5.27	5.40	5.53	5.70	5.85	2.9%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	97.61	98.68	99.87	101.29	102.03	103.17	104.35	105.81	106.72	107.90	109.05	110.42	111.16	112.16	1.2%
Commercial/Other	145.48	147.90	150.49	153.16	155.84	158.58	161.47	164.39	167.38	170.42	173.58	176.78	180.00	183.16	1.9%
Industrial	57.20	57.68	58.33	59.11	59.84	60.69	61.51	62.34	63.31	64.37	65.40	66.27	67.32	68.24	1.3%
Transportation	2.95	2.99	3.02	3.06	3.10	3.13	3.17	3.20	3.24	3.28	3.31	3.35	3.39	3.42	1.2%
Total Sales	303.25	307.25	311.70	316.62	320.80	325.58	330.50	335.74	340.65	345.96	351.35	356.83	361.87	366.97	1.5%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.10	1.10	1.10	-1.2%
Gross International Exports	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
Gross Interregional Electricity Imports	49.15	49.34	55.50	56.41	51.63	49.73	48.61	48.34	46.12	45.96	44.73	46.07	45.68	48.98	-0.3%
Gross Interregional Electricity Exports	1.75	1.43	1.11	0.80	0.48	0.19	0.18	0.22	0.20	0.20	1.83	4.95	7.82	13.77	3.0%
Purchases from Combined Heat and Power 8/	7.37	7.58	7.79	8.05	8.29	8.52	8.78	9.00	9.25	9.53	9.76	9.99	10.28	10.53	3.7%
Electric Power Sector Generation for Custome	271.06	274.65	272.74	276.56	285.47	291.90	298.04	303.76	311.00	316.62	325.00	332.54	340.94	348.83	2.1%
Total Net Energy for Load	326.92	331.23	336.02	341.31	346.00	351.05	356.34	361.98	367.25	373.00	378.76	384.66	390.08	395.58	1.7%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	76.09	82.65	90.06	98.31	106.15	113.62	122.41	131.33	139.62	147.66	155.95	163.65	172.07	179.54	7.3%
Petroleum	0.58	0.65	0.73	0.81	0.89	0.97	1.06	1.15	1.23	1.30	1.39	1.47	1.47	1.47	-1.3%
Natural Gas	82.62	79.63	69.91	65.22	66.11	64.18	61.02	57.39	55.70	52.85	52.67	51.44	51.22	51.29	-1.5%
Nuclear	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	-0.1%
Pumped Storage/Other 3/	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	N/A
Renewable Sources 4/	72.52	72.48	72.80	72.98	73.08	73.90	74.32	74.65	75.21	75.56	75.75	76.74	76.94	77.29	1.1%
Total Generation	273.54	277.13	275.22	279.04	287.95	294.38	300.52	306.24	313.48	319.10	327.48	335.03	343.42	351.31	2.1%
Sales to Customers	271.06	274.65	272.74	276.56	285.47	291.90	298.04	303.76	311.00	316.62	325.00	332.54	340.94	348.83	2.1%
Generation for Own Use	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	0.0%
Distributed Generation 5/	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.09	0.18	0.27	0.36	0.45	0.53	N/A
<b>End-Use Sectors 8/</b>															
Coal	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
Petroleum	1.94	1.95	1.95	1.97	1.97	1.97	1.99	1.99	1.99	2.01	2.01	2.01	2.02	2.02	3.4%
Natural Gas	24.38	25.38	26.31	27.51	28.55	29.56	30.78	31.77	32.84	34.15	35.22	36.28	37.62	38.77	3.9%
Other Gaseous Fuels	0.70	0.71	0.71	0.75	0.75	0.75	0.79	0.79	0.79	0.82	0.82	0.82	0.86	0.86	0.8%
Renewable Sources 4/	1.48	1.50	1.52	1.55	1.58	1.60	1.63	1.67	1.70	1.74	1.78	1.83	1.88	1.93	1.9%
Other	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	0.0%
Total	30.39	31.44	32.39	33.67	34.74	35.77	37.08	38.11	39.21	40.61	41.73	42.83	44.27	45.47	3.4%
Sales to Utilities	7.37	7.58	7.79	8.05	8.29	8.52	8.78	9.00	9.25	9.53	9.76	9.99	10.28	10.53	3.7%
Generation for Own Use	23.03	23.86	24.60	25.62	26.45	27.26	28.31	29.11	29.96	31.09	31.97	32.83	33.99	34.94	3.4%
Total Electricity Generation	303.94	308.58	307.63	312.74	322.73	330.20	337.66	344.41	352.78	359.90	369.48	378.21	388.14	397.32	2.2%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	11.4	11.3	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.1	11.1	11.2	11.2	-0.5%
Commercial	9.5	9.4	9.3	9.3	9.3	9.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.1	-1.0%
Industrial	8.2	8.2	8.1	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	-0.7%

Table 74. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/California - 13

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	9.1	9.0	8.9	8.9	8.9	8.9	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6	-1.1%
All Sectors Average	9.8	9.8	9.7	9.7	9.7	9.7	9.6	9.6	9.6	9.6	9.5	9.5	9.5	9.5	-0.7%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.8	5.7	5.6	5.6	5.6	5.6	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	-0.6%
Transmission	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.3%
Distribution	3.3	3.3	3.2	3.2	3.2	3.2	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	-1.4%
Fuel Consumption (quadrillion Btu) 9/															
Coal	0.72	0.77	0.84	0.91	0.98	1.04	1.12	1.19	1.26	1.33	1.40	1.47	1.53	1.58	6.4%
Natural Gas	0.70	0.68	0.61	0.58	0.58	0.57	0.55	0.52	0.51	0.49	0.49	0.48	0.48	0.48	-1.4%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.5%
Total	1.43	1.46	1.46	1.49	1.57	1.62	1.67	1.72	1.78	1.83	1.91	1.96	2.02	2.08	2.8%
Fuel Prices (dollars per million Btu)															
Coal	1.27	1.29	1.31	1.35	1.43	1.46	1.49	1.50	1.52	1.54	1.56	1.58	1.60	1.62	1.7%
Natural Gas	6.23	5.94	5.73	5.86	5.87	6.00	6.15	6.20	6.22	6.24	6.32	6.45	6.57	6.65	-0.6%
Distillate Fuel Oil	9.72	9.84	10.11	10.12	10.27	10.37	10.30	10.40	10.39	10.43	10.59	10.67	10.83	10.79	-0.6%
Residual Fuel Oil	10.89	10.85	10.73	11.01	11.11	11.25	11.48	11.56	11.55	11.81	12.08	11.87	12.33	11.99	1.5%
Biomass	2.08	2.04	2.02	2.04	2.04	2.04	2.06	2.06	2.05	2.05	2.05	2.12	2.12	2.12	0.4%
Emissions 10/															
Total Carbon (million tons)	31.56	32.82	33.49	34.96	36.99	38.58	40.38	42.12	43.94	45.57	47.58	49.32	50.99	52.51	3.5%
Carbon Dioxide (million tons)	115.71	120.32	122.81	128.19	135.62	141.46	148.05	154.45	161.12	167.09	174.46	180.84	186.97	192.53	3.5%
Sulfur Dioxide (million tons)	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	1.7%
Nitrogen Oxide (million tons)	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	6.4%
Mercury (tons)	0.24	0.23	0.25	0.26	0.26	0.27	0.28	0.30	0.29	0.29	0.26	0.29	0.27	0.27	-1.1%

Table 74. Electric Power Projections for EMM Region  
Western Electricity Coordinating Council/California - 13

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 75 Electric Power Projections for EMM Region  
United States

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electricity Generating Capacity 1/</b>													
<b>(gigawatts)</b>													
<b>Electric Power Sector</b>													
Coal Steam	311.01	310.63	310.66	311.71	311.96	315.85	320.85	321.18	320.65	318.89	319.76	323.02	326.66
Other Fossil Steam 2/	123.76	121.29	119.89	119.89	119.50	119.50	119.48	119.39	91.14	89.92	89.82	89.82	89.60
Combined Cycle	165.46	176.65	184.62	189.41	191.99	192.75	193.31	194.16	194.16	194.16	194.50	195.58	197.13
Combustion Turbine/Diesel	130.97	133.22	134.52	136.09	137.08	137.15	137.04	137.09	118.08	118.18	119.46	120.87	122.41
Nuclear Power	99.57	100.01	100.05	100.08	100.16	100.33	100.51	100.82	101.25	101.47	101.79	102.45	104.73
Pumped Storage/Other 3/	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	94.75	97.59	100.59	105.07	105.30	105.51	105.69	105.85	106.01	106.37	106.67	106.94	107.18
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.11	0.16	0.21	0.25	0.30	0.42	0.55	0.70
Total Capacity	946.28	960.14	971.08	983.01	986.81	991.96	997.81	999.46	952.31	950.05	953.16	959.99	969.17
<b>Cumulative Planned Additions 6/</b>													
Coal Steam	0.00	0.00	0.57	1.98	2.50	6.39	8.46	8.93	9.92	9.92	9.92	9.92	9.92
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	8.03	12.82	15.41	16.16	16.72	17.58	17.58	17.58	17.58	17.58	17.58
Combustion Turbine/Diesel	0.00	0.00	1.53	3.11	3.58	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	2.97	7.45	7.69	7.90	8.08	8.24	8.40	8.56	8.73	8.89	8.91
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Planned Additions	0.00	0.00	13.14	25.39	29.20	34.21	37.02	38.51	39.65	39.82	39.98	40.15	40.17
<b>Cumulative Unplanned Additions 6/</b>													
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	3.13	4.85	8.11	11.80
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.42	2.97
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.62	0.70	0.71	0.84	0.88	1.07	2.35	3.76	5.30
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	2.55
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.33	0.44	0.44	0.66
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.07	0.11	0.16	0.21	0.25	0.30	0.42	0.55	0.70
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.69	0.82	3.87	4.05	4.13	4.69	8.29	14.83	23.97
Cumulative Total Additions	0.00	0.00	13.14	25.39	29.89	35.03	40.89	42.55	43.79	44.51	48.27	54.98	64.14
<b>Cumulative Retirements 7/</b>													
Coal Steam	0.00	0.00	0.54	0.90	1.17	1.17	1.24	1.38	2.89	4.78	5.64	5.64	5.68
Other Fossil Steam 3/	0.00	0.00	1.40	1.40	1.79	1.79	1.81	1.89	30.15	31.37	31.47	31.47	31.69
Combined Cycle	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Combustion Turbine/Diesel	0.00	0.00	0.23	0.24	0.35	0.51	0.62	0.70	19.75	19.84	19.84	19.84	19.84
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	2.23	2.60	3.37	3.53	3.73	4.04	52.86	56.06	57.02	57.02	57.28
<b>End-Use Sectors 8/</b>													
Coal	4.12	4.16	4.17	4.15	4.15	4.15	4.15	5.09	5.20	5.20	5.60	5.60	5.60
Petroleum	1.63	1.59	1.59	1.59	1.60	1.60	1.60	1.81	1.81	1.81	1.81	1.81	1.81
Natural Gas	13.89	13.45	13.78	15.47	15.95	16.40	16.88	17.47	17.93	18.43	18.99	19.51	20.03

Table 75 Electric Power Projections for EMM Region  
United States

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Gaseous Fuels	1.75	1.82	1.82	1.82	1.85	1.85	1.85	1.87	1.87	1.87	1.88	1.88	1.88
Renewable Sources 4/	5.76	5.63	5.79	5.96	6.07	6.18	6.39	6.51	6.66	6.80	6.92	7.04	7.17
Other	1.07	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Total	28.24	27.50	28.00	29.83	30.46	31.03	31.71	33.59	34.32	34.96	36.05	36.69	37.34
<b>Electricity Demand</b>													
<b>(billion kilowatthours)</b>													
Residential	1293.20	1364.84	1384.80	1400.56	1432.48	1455.58	1482.14	1505.14	1531.26	1548.89	1569.21	1589.82	1614.23
Commercial/Other	1230.40	1267.62	1278.41	1303.73	1343.06	1370.67	1397.28	1427.51	1458.42	1489.08	1518.37	1546.88	1575.40
Industrial	1017.57	1021.66	1019.74	1041.89	1049.42	1053.54	1062.27	1069.79	1079.89	1088.10	1094.20	1101.83	1109.13
Transportation	24.82	24.92	25.10	25.38	25.78	26.16	26.52	26.80	27.07	27.35	27.64	27.94	28.22
Total Sales	3565.99	3679.05	3708.06	3771.56	3850.75	3905.95	3968.20	4029.24	4096.64	4153.42	4209.42	4266.47	4326.99
<b>Net Energy for Load (billion kilowatthours) 7/</b>													
Gross International Imports	34.21	44.53	45.56	37.15	32.74	25.08	29.20	27.74	29.28	31.87	29.61	25.73	26.69
Gross International Exports	22.90	19.80	18.46	19.91	17.89	18.96	18.07	17.98	17.99	18.02	17.67	17.24	16.94
Gross Interregional Electricity Imports	258.30	303.88	318.64	278.24	270.36	283.78	280.47	280.06	279.61	274.91	277.61	260.49	254.24
Gross Interregional Electricity Exports	260.67	307.49	322.71	281.54	273.61	287.31	284.04	283.69	283.21	278.58	281.47	264.12	257.88
Purchases from Combined Heat and Power 8/	30.60	28.51	30.27	36.43	37.22	38.04	38.97	44.76	46.26	47.27	50.31	51.34	52.37
Electric Power Sector Generation for Custome	3773.36	3848.55	3902.57	3970.26	4053.92	4117.43	4174.99	4232.44	4297.88	4352.11	4407.43	4467.20	4529.14
Total Net Energy for Load	3812.91	3898.18	3955.87	4020.63	4102.74	4158.06	4221.52	4283.33	4351.84	4409.57	4465.83	4523.38	4587.62
<b>Generation by Fuel Type</b>													
<b>(billion kilowatthours)</b>													
<b>Electric Power Sector</b>													
Coal	1957.19	1992.53	2002.98	2022.36	2025.92	2059.78	2120.67	2149.26	2172.48	2198.29	2240.94	2262.34	2295.18
Petroleum	116.41	116.01	71.79	79.08	80.11	81.32	83.77	85.04	88.19	92.85	93.91	90.34	91.01
Natural Gas	627.52	675.07	720.63	727.66	796.06	812.54	795.15	814.41	840.95	860.53	867.20	901.00	914.08
Nuclear	788.53	780.47	787.23	794.67	792.06	787.57	789.31	791.82	804.17	805.92	808.48	812.44	826.30
Pumped Storage/Other 3/	-5.48	-3.29	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72
Renewable Sources 4/	324.19	322.64	362.93	389.54	402.82	419.34	429.28	435.16	434.62	436.94	439.38	443.57	445.05
Total Generation	3808.36	3883.42	3936.84	4004.58	4088.26	4151.82	4209.46	4266.97	4331.70	4385.81	4441.18	4500.96	4562.90
Sales to Customers	3773.36	3848.55	3902.57	3970.26	4053.92	4117.43	4174.99	4232.44	4297.88	4352.11	4407.43	4467.20	4529.14
Generation for Own Use	35.00	34.87	34.27	34.32	34.34	34.40	34.47	34.54	33.82	33.70	33.75	33.76	33.76
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.03	0.05	0.07	0.09	0.11	0.13	0.19	0.24	0.31
<b>End-Use Sectors 8/</b>													
Coal	21.88	21.91	22.06	21.64	21.64	21.64	21.64	29.12	29.99	29.99	33.10	33.10	33.10
Petroleum	5.91	5.87	5.91	11.08	11.20	11.20	11.20	12.90	12.90	12.90	12.97	12.97	12.97
Natural Gas	81.98	76.65	77.41	86.47	90.17	93.57	97.19	101.67	105.18	108.96	113.20	117.13	121.07
Other Gaseous Fuels	5.66	4.73	3.67	4.09	4.33	4.33	4.33	4.45	4.45	4.45	4.56	4.56	4.56
Renewable Sources 4/	36.77	34.18	34.90	35.59	35.88	36.18	36.84	37.53	38.36	39.12	39.79	40.42	41.13
Other	14.39	11.51	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49
Total	166.60	154.85	155.44	170.36	174.72	178.41	182.70	197.16	202.37	206.92	215.12	219.68	224.34
Sales to Utilities	30.60	28.51	30.27	36.43	37.22	38.04	38.97	44.76	46.26	47.27	50.31	51.34	52.37
Generation for Own Use	136.00	126.34	125.17	133.93	137.49	140.37	143.72	152.41	156.11	159.64	164.81	168.35	171.97
Total Electricity Generation	3974.96	4038.27	4092.28	4174.94	4263.01	4330.29	4392.23	4464.23	4534.19	4592.86	4656.49	4720.88	4787.54
<b>End-Use Prices</b>													
<b>(2005 cents per kilowatthour)</b>													
Residential	9.2	9.4	9.4	9.4	9.3	9.3	9.2	9.0	9.0	8.9	8.9	8.9	8.9
Commercial	8.4	8.6	8.8	8.6	8.6	8.5	8.4	8.1	8.1	8.0	8.0	8.0	8.0
Industrial	5.4	5.7	6.2	6.4	6.4	6.3	6.1	5.9	5.7	5.7	5.6	5.6	5.7

Table 75 Electric Power Projections for EMM Region  
United States

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Transportation	8.9	8.6	8.9	8.7	8.8	8.7	8.5	8.3	8.2	8.2	8.1	8.1	8.1
All Sectors Average	7.9	8.1	8.3	8.3	8.3	8.2	8.1	7.9	7.8	7.7	7.7	7.7	7.7
Prices by Service Category (2005 cents per kilowatthour)													
Generation	5.2	5.4	5.7	5.7	5.7	5.6	5.4	5.2	5.1	5.1	5.0	5.0	5.1
Transmission	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
Distribution	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0
Fuel Consumption (quadrillion Btu) 9/													
Coal	18.85	20.74	20.96	21.16	21.21	21.55	22.13	22.39	22.61	22.84	23.27	23.45	23.76
Natural Gas	5.65	5.99	6.05	6.07	6.57	6.69	6.56	6.70	6.88	7.03	7.07	7.31	7.39
Oil	1.22	1.24	0.77	0.85	0.86	0.88	0.90	0.92	0.95	1.00	1.01	0.97	0.98
Total	25.72	27.97	27.78	28.09	28.64	29.12	29.59	30.01	30.44	30.86	31.35	31.74	32.13
Fuel Prices (dollars per million Btu)													
Coal	1.40	1.53	1.67	1.69	1.70	1.70	1.71	1.67	1.64	1.62	1.61	1.60	1.59
Natural Gas	6.11	8.18	6.97	7.12	7.07	6.53	6.22	5.83	5.69	5.50	5.54	5.50	5.60
Distillate Fuel Oil	9.52	11.38	13.24	14.26	13.77	12.70	11.71	10.78	10.03	9.29	9.20	9.26	9.28
Residual Fuel Oil	4.99	6.96	7.85	7.19	7.29	6.99	6.58	6.21	5.90	5.46	5.45	5.60	5.63
Biomass	1.53	1.59	1.62	1.63	1.68	1.78	1.80	1.82	1.81	1.79	1.82	1.85	1.84
Emissions 10/													
Total Carbon (million tons)	694.07	713.79	708.42	716.73	726.24	738.14	752.88	762.98	772.74	782.90	796.14	804.44	814.55
Carbon Dioxide (million tons)	2544.93	2617.22	2597.53	2628.00	2662.89	2706.52	2760.57	2797.59	2833.38	2870.62	2919.20	2949.62	2986.67
Sulfur Dioxide (million tons)	10.26	10.21	10.19	9.96	8.89	7.89	6.56	5.70	5.24	5.02	4.80	4.46	4.30
Nitrogen Oxide (million tons)	3.75	3.60	3.89	3.82	3.85	2.41	2.41	2.44	2.41	2.43	2.44	2.20	2.19
Mercury (tons)	47.15	51.25	51.81	51.99	50.30	48.55	37.21	37.10	35.20	33.66	28.15	24.64	23.37

Table 75 Electric Power Projections for EMM Region  
United States

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electricity Generating Capacity 1/</b>															
<b>(gigawatts)</b>															
<b>Electric Power Sector</b>															
Coal Steam	330.65	334.38	340.22	347.20	355.43	363.63	373.88	383.77	393.62	404.48	415.67	426.82	438.18	449.94	1.5%
Other Fossil Steam 2/	89.34	89.34	89.34	89.34	88.93	88.93	88.86	88.86	88.86	88.86	88.86	88.86	87.70	87.47	-1.3%
Combined Cycle	198.33	199.74	201.21	203.86	205.57	207.27	208.66	210.05	210.77	211.25	211.65	211.65	211.65	211.65	0.7%
Combustion Turbine/Diesel	123.26	124.33	125.50	127.22	129.29	131.46	132.54	133.91	135.92	138.44	141.73	145.49	149.84	155.14	0.6%
Nuclear Power	107.53	110.22	111.72	111.72	111.72	111.72	111.72	111.72	111.72	111.72	112.66	113.63	114.40	112.62	0.5%
Pumped Storage/Other 3/	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	20.76	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	N/A
Renewable Sources 4/	107.31	107.44	107.60	107.72	107.74	108.06	108.12	108.33	108.62	108.74	108.98	109.26	109.36	110.00	0.5%
Distributed Generation 5/	0.91	1.20	1.52	2.14	2.65	3.24	3.94	4.67	5.49	6.81	8.13	9.38	10.38	11.40	N/A
Total Capacity	978.07	987.39	997.86	1009.95	1022.09	1035.08	1048.49	1062.06	1075.76	1091.06	1108.44	1125.84	1142.27	1158.98	0.8%
<b>Cumulative Planned Additions 6/</b>															
Coal Steam	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	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	N/A
Combined Cycle	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	17.58	N/A
Combustion Turbine/Diesel	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
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	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	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	N/A
Renewable Sources 4/	8.93	8.95	8.97	8.99	9.02	9.04	9.06	9.08	9.10	9.13	9.15	9.17	9.19	9.21	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	40.19	40.20	40.23	40.25	40.27	40.29	40.31	40.34	40.36	40.38	40.40	40.42	40.45	40.47	N/A
<b>Cumulative Unplanned Additions 6/</b>															
Coal Steam	15.81	19.54	25.38	32.38	40.62	48.82	59.07	68.96	78.81	89.67	100.86	112.01	123.37	135.14	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	4.16	5.57	7.05	9.69	11.41	13.11	14.50	15.89	16.61	17.09	17.48	17.48	17.48	17.48	N/A
Combustion Turbine/Diesel	6.15	7.22	8.39	10.11	12.19	14.36	15.43	16.80	18.82	21.33	24.63	28.38	32.73	38.03	N/A
Nuclear Power	4.81	7.50	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.94	10.91	11.68	12.48	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	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	N/A
Renewable Sources 4/	0.76	0.88	1.01	1.11	1.11	1.41	1.45	1.63	1.90	2.00	2.22	2.47	2.56	3.17	N/A
Distributed Generation 5/	0.91	1.20	1.52	2.14	2.65	3.24	3.94	4.67	5.49	6.81	8.13	9.38	10.38	11.40	N/A
Total Unplanned Additions	32.60	41.91	52.35	64.45	76.97	89.93	103.40	116.95	130.62	145.90	163.26	180.64	198.21	217.71	N/A
Cumulative Total Additions	72.79	82.11	92.57	104.70	117.24	130.23	143.71	157.28	170.98	186.28	203.66	221.07	238.65	258.17	N/A
<b>Cumulative Retirements 7/</b>															
Coal Steam	5.71	5.71	5.71	5.73	5.73	5.73	5.73	5.73	5.73	5.74	5.74	5.74	5.74	5.74	N/A
Other Fossil Steam 3/	31.95	31.95	31.95	31.95	32.36	32.36	32.43	32.43	32.43	32.43	32.43	32.43	33.59	33.82	N/A
Combined Cycle	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	N/A
Combustion Turbine/Diesel	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	19.84	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	2.58	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	57.57	57.57	57.57	57.59	58.00	58.00	58.07	58.07	58.07	58.07	58.07	58.07	59.23	62.04	N/A
<b>End-Use Sectors 8/</b>															
Coal	5.83	6.14	6.38	6.63	6.87	8.17	8.38	9.92	12.20	13.86	13.85	14.72	15.02	15.37	5.4%
Petroleum	1.83	1.83	1.83	1.85	1.85	1.85	1.86	1.86	1.86	1.88	1.88	1.88	1.89	1.89	0.7%
Natural Gas	20.70	21.30	21.94	22.75	23.46	24.15	24.98	25.66	26.39	27.29	28.02	28.74	29.65	30.44	3.3%

Table 75 Electric Power Projections for EMM Region  
United States

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Other Gaseous Fuels	1.91	1.91	1.91	1.94	1.94	1.94	1.97	1.97	1.97	2.00	2.00	2.00	2.03	2.03	0.4%
Renewable Sources 4/	7.27	7.37	7.51	7.66	7.82	7.99	8.20	8.43	8.69	8.97	9.33	9.72	10.15	10.68	2.6%
Other	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	N/A
Total	38.40	39.40	40.41	41.68	42.80	44.95	46.25	48.69	51.96	54.84	55.93	57.91	59.59	61.26	3.3%
<b>Electricity Demand</b>															
<b>(billion kilowatthours)</b>															
Residential	1630.60	1651.21	1673.34	1699.55	1714.01	1734.42	1754.73	1779.15	1795.43	1816.45	1837.31	1861.48	1875.89	1894.85	1.3%
Commercial/Other	1603.83	1632.20	1661.81	1692.53	1724.26	1757.53	1792.02	1826.31	1862.60	1899.99	1938.98	1978.78	2018.94	2059.83	2.0%
Industrial	1110.46	1111.06	1117.32	1121.94	1127.21	1134.27	1138.18	1144.49	1153.99	1162.46	1172.95	1181.76	1188.71	1197.65	0.6%
Transportation	28.52	28.82	29.11	29.40	29.68	29.95	30.21	30.48	30.74	31.02	31.29	31.55	31.82	32.07	1.0%
Total Sales	4373.42	4423.28	4481.58	4543.42	4595.16	4656.17	4715.14	4780.42	4842.75	4909.91	4980.53	5053.57	5115.36	5184.41	1.4%
<b>Net Energy for Load (billion kilowatthours) 7/</b>															
Gross International Imports	29.42	27.86	29.79	26.69	27.38	27.43	27.42	28.11	26.42	26.38	26.50	27.02	27.02	26.50	-2.1%
Gross International Exports	16.66	16.39	16.06	15.82	15.61	15.30	14.89	14.19	13.71	13.71	13.71	13.71	13.71	13.71	-1.5%
Gross Interregional Electricity Imports	239.05	225.03	223.67	214.80	199.40	204.40	205.78	204.87	198.65	195.32	186.76	187.89	185.67	184.74	-2.0%
Gross Interregional Electricity Exports	242.51	228.33	227.07	218.15	202.57	207.80	209.21	208.28	201.93	198.54	189.80	190.95	188.68	187.74	-2.0%
Purchases from Combined Heat and Power 8/	54.65	57.30	59.65	62.34	64.88	72.47	74.97	83.71	96.17	105.78	107.15	112.75	115.86	119.11	5.9%
Electric Power Sector Generation for Customers	4572.68	4624.02	4681.51	4747.17	4798.71	4855.57	4915.17	4975.72	5028.96	5090.72	5163.78	5235.20	5297.64	5368.13	1.3%
Total Net Energy for Load	4636.63	4689.49	4751.49	4817.02	4872.19	4936.78	4999.25	5069.94	5134.56	5205.96	5280.68	5358.20	5423.78	5497.03	1.4%
<b>Generation by Fuel Type</b>															
<b>(billion kilowatthours)</b>															
<b>Electric Power Sector</b>															
Coal	2326.50	2351.15	2392.72	2447.29	2510.38	2577.59	2654.22	2725.61	2795.29	2873.99	2956.17	3040.64	3127.38	3219.83	1.9%
Petroleum	90.27	89.89	89.33	89.78	89.47	90.00	91.00	91.88	91.95	91.99	92.74	94.30	93.47	93.57	-0.9%
Natural Gas	902.33	908.08	910.36	918.62	907.16	893.15	871.78	855.00	836.70	818.38	801.03	777.02	750.24	736.87	0.4%
Nuclear	846.40	866.71	881.17	885.24	886.04	886.04	886.04	886.04	886.04	886.04	891.85	899.46	905.93	895.72	0.6%
Pumped Storage/Other 3/	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	-8.72	4.0%
Renewable Sources 4/	449.67	450.67	450.40	448.71	448.14	451.27	454.61	459.67	461.47	462.80	464.48	466.26	463.11	464.59	1.5%
Total Generation	4606.44	4657.78	4715.27	4780.92	4832.47	4889.33	4948.92	5009.48	5062.72	5124.48	5197.54	5268.96	5331.40	5401.86	1.3%
Sales to Customers	4572.68	4624.02	4681.51	4747.17	4798.71	4855.57	4915.17	4975.72	5028.96	5090.72	5163.78	5235.20	5297.64	5368.13	1.3%
Generation for Own Use	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.76	33.73	-0.1%
Distributed Generation 5/	0.40	0.52	0.67	0.94	1.16	1.42	1.73	2.05	2.41	2.98	3.56	4.11	4.55	4.99	N/A
<b>End-Use Sectors 8/</b>															
Coal	34.93	37.36	39.22	41.23	43.14	53.36	55.01	67.13	85.12	98.15	98.07	104.92	107.27	110.08	6.7%
Petroleum	13.03	13.09	13.09	13.22	13.22	13.22	13.34	13.35	13.35	13.47	13.47	13.47	13.60	13.60	3.4%
Natural Gas	125.60	130.75	135.54	141.72	147.07	152.27	158.59	163.70	169.18	175.96	181.45	186.89	193.79	199.72	3.9%
Other Gaseous Fuels	4.68	4.80	4.80	5.04	5.04	5.04	5.27	5.27	5.27	5.51	5.51	5.51	5.75	5.75	0.8%
Renewable Sources 4/	41.69	42.18	42.86	43.63	44.40	45.15	46.01	46.91	47.92	48.98	50.24	51.51	52.88	54.41	1.9%
Other	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	0.0%
Total	231.42	239.67	247.02	256.32	264.36	280.54	289.72	307.85	332.33	353.57	360.24	373.80	384.78	395.05	3.8%
Sales to Utilities	54.65	57.30	59.65	62.34	64.88	72.47	74.97	83.71	96.17	105.78	107.15	112.75	115.86	119.11	5.9%
Generation for Own Use	176.77	182.38	187.36	193.98	199.49	208.06	214.75	224.14	236.17	247.79	253.09	261.04	268.93	275.94	3.2%
Total Electricity Generation	4838.26	4897.98	4962.95	5038.19	5097.99	5171.29	5240.37	5319.37	5397.46	5481.03	5561.34	5646.87	5720.73	5801.90	1.5%
<b>End-Use Prices</b>															
<b>(2005 cents per kilowatthour)</b>															
Residential	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1	-0.1%
Commercial	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	-0.2%
Industrial	5.7	5.8	5.8	5.8	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	0.2%

Table 75 Electric Power Projections for EMM Region  
United States

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Transportation	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.3	-0.1%
All Sectors Average	7.8	7.9	7.9	7.9	7.9	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.1	0.0%
Prices by Service Category (2005 cents per kilowatthour)															
Generation	5.2	5.2	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	0.0%
Transmission	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0%
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	-0.3%
Fuel Consumption (quadrillion Btu) 9/															
Coal	24.04	24.25	24.59	25.05	25.58	26.15	26.79	27.36	27.90	28.52	29.15	29.79	30.44	31.14	1.6%
Natural Gas	7.31	7.34	7.36	7.40	7.31	7.20	7.04	6.91	6.78	6.65	6.53	6.36	6.18	6.09	0.1%
Oil	0.97	0.97	0.96	0.97	0.96	0.97	0.98	0.99	0.99	0.99	1.00	1.01	1.01	1.01	-0.8%
Total	32.32	32.57	32.91	33.42	33.85	34.32	34.80	35.26	35.67	36.16	36.67	37.16	37.62	38.24	1.3%
Fuel Prices (dollars per million Btu)															
Coal	1.59	1.58	1.58	1.58	1.59	1.60	1.60	1.61	1.63	1.64	1.65	1.67	1.67	1.69	0.4%
Natural Gas	5.79	5.72	5.67	5.76	5.73	5.84	5.95	6.06	6.05	6.07	6.15	6.25	6.31	6.33	-1.0%
Distillate Fuel Oil	9.44	9.54	9.75	9.84	9.96	10.11	10.08	10.22	10.25	10.32	10.49	10.57	10.74	10.79	-0.2%
Residual Fuel Oil	5.74	5.81	6.01	6.08	6.23	6.42	6.32	6.53	6.58	6.64	6.73	6.75	6.85	6.85	-0.1%
Biomass	1.89	1.89	1.88	1.85	1.84	1.87	1.92	1.95	1.95	1.95	1.96	1.97	1.94	2.00	0.9%
Emissions 10/															
Total Carbon (million tons)	821.14	827.75	837.26	851.06	864.54	879.36	894.94	909.38	922.53	937.71	953.68	969.58	984.84	1003.21	1.4%
Carbon Dioxide (million tons)	3010.86	3035.08	3069.96	3120.56	3169.99	3224.32	3281.46	3334.40	3382.60	3438.28	3496.81	3555.13	3611.08	3678.45	1.4%
Sulfur Dioxide (million tons)	4.15	4.01	3.94	3.90	3.88	3.83	3.80	3.75	3.68	3.66	3.63	3.63	3.61	3.63	-4.1%
Nitrogen Oxide (million tons)	2.21	2.21	2.21	2.22	2.23	2.23	2.24	2.25	2.25	2.26	2.27	2.27	2.28	2.28	-1.8%
Mercury (tons)	22.64	20.78	20.08	19.24	18.88	18.34	17.76	17.57	16.86	16.55	16.19	16.12	15.84	15.48	-4.7%

Table 75 Electric Power Projections for EMM Region  
United States

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators.

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

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

5/ Primarily peak-load capacity fueled by natural gas.

6/ Cumulative additions after December 31, 2005.

7/ Generation to meet system load by source.

8/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

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

10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

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

Sources: 2005 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Other 2005 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatthours)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>East Central Area Reliability Coordination Agreement</b>													
Coal	494.57	514.12	522.82	528.04	530.97	539.18	547.38	554.70	551.95	559.98	568.14	564.78	567.72
Petroleum	6.44	6.41	3.47	3.56	3.72	3.93	4.08	4.14	4.08	4.17	3.63	3.62	3.68
Natural Gas	20.15	21.88	44.58	44.56	44.79	44.34	44.54	44.93	45.02	45.13	45.76	46.33	46.64
Nuclear	60.51	62.30	55.08	61.80	61.61	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95
Pumped Storage/Other 1/	-1.67	-1.43	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78
Renewables 2/	6.81	6.65	7.83	9.47	9.69	11.73	11.62	10.50	9.80	9.36	9.67	12.46	12.64
Total	586.81	609.93	631.99	645.64	649.00	659.35	667.79	674.43	671.01	678.82	687.37	687.37	690.85
<b>Electric Reliability Council of Texas</b>													
Coal	113.70	115.27	106.72	106.89	105.90	106.57	107.16	107.73	108.40	108.97	109.66	109.60	109.73
Petroleum	1.39	1.40	0.73	0.73	0.73	0.80	0.88	1.00	0.94	1.18	1.18	1.18	1.18
Natural Gas	121.86	130.19	151.06	152.89	163.45	166.68	170.40	172.87	176.25	178.84	179.79	183.66	188.05
Nuclear	40.44	38.23	38.67	38.75	38.67	38.48	38.48	38.48	38.81	38.81	40.01	40.01	40.01
Pumped Storage/Other 1/	1.38	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	3.85	4.21	6.86	12.18	12.92	13.45	14.05	14.67	15.19	15.71	16.23	16.79	16.66
Total	282.62	290.64	304.04	311.44	321.70	326.02	331.04	334.83	339.70	343.62	347.00	351.41	355.81
<b>Mid-Atlantic Area Council</b>													
Coal	125.65	130.51	126.98	127.65	129.61	132.60	136.03	138.82	141.83	144.78	152.47	157.32	162.81
Petroleum	9.03	10.45	3.73	5.33	5.45	5.52	5.70	5.74	5.67	5.82	5.81	5.75	5.76
Natural Gas	25.52	26.75	15.38	18.32	24.64	23.51	26.42	26.57	26.67	30.68	28.08	31.20	31.10
Nuclear	105.13	107.02	108.41	108.66	108.26	107.55	107.60	107.60	107.60	107.60	107.60	107.60	107.60
Pumped Storage/Other 1/	-0.32	-0.38	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82
Renewables 2/	9.32	7.97	9.95	12.41	12.14	12.55	12.51	12.70	12.67	13.08	12.73	13.05	13.17
Total	274.32	282.32	263.64	271.54	279.28	280.92	287.44	290.61	293.63	301.14	305.89	314.12	319.68
<b>Mid-America Interconnected Network</b>													
Coal	177.50	177.00	176.92	180.34	183.90	193.30	204.68	210.26	213.83	217.58	225.52	225.64	227.64
Petroleum	1.49	0.74	1.42	1.47	1.47	1.49	1.51	1.52	1.53	1.50	0.86	0.84	1.08
Natural Gas	6.92	14.06	26.14	19.23	23.69	21.08	15.37	16.36	15.06	18.98	18.45	22.39	23.69
Nuclear	113.45	111.71	116.34	116.41	116.01	115.16	115.23	115.49	115.61	115.61	115.61	115.61	115.61
Pumped Storage/Other 1/	-0.09	-0.11	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
Renewables 2/	4.75	4.41	5.31	5.92	6.21	6.87	6.98	7.13	8.08	7.71	7.59	7.08	6.53
Total	304.02	307.81	326.01	323.24	331.15	337.77	343.64	350.63	353.99	361.25	367.90	371.43	374.42
<b>Mid-Continent Area Power Pool</b>													
Coal	117.96	118.33	123.95	127.53	128.98	130.09	131.08	133.07	134.49	136.33	137.67	138.26	139.86
Petroleum	0.93	0.92	0.67	0.77	0.78	0.79	0.77	0.79	0.82	0.78	0.78	0.67	0.66
Natural Gas	2.02	4.19	1.84	1.82	3.35	1.68	1.68	1.67	1.68	2.01	2.04	2.13	2.58
Nuclear	26.78	24.89	25.46	25.46	25.36	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	11.65	11.60	17.08	18.71	19.79	20.73	21.45	21.39	21.44	21.46	21.47	21.84	21.87
Total	159.34	159.94	169.01	174.30	178.27	178.38	180.08	182.01	183.53	185.70	187.08	188.03	190.11
<b>Northeast Power Coordinating Council / New York</b>													
Coal	19.02	17.76	20.50	19.24	19.23	19.68	20.19	20.65	20.41	20.83	21.55	21.91	21.76
Petroleum	21.15	23.89	9.96	19.36	19.51	19.56	19.65	19.79	22.53	22.51	22.55	22.59	22.62
Natural Gas	28.48	33.61	35.49	30.08	36.62	39.17	39.98	42.37	45.19	44.56	45.49	50.01	51.66
Nuclear	46.58	47.92	46.64	46.64	46.41	45.93	46.59	46.59	46.59	46.59	46.59	46.59	46.59
Pumped Storage/Other 1/	-0.81	-0.78	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57
Renewables 2/	26.30	26.40	35.04	35.97	35.66	35.11	34.47	34.27	34.23	34.03	34.30	34.28	34.42
Total	140.72	148.80	147.07	150.72	156.87	158.88	160.32	163.11	168.38	167.95	169.92	174.81	176.49

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatthours)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Northeast Power Coordinating Council / New England</b>													
Coal	22.16	22.86	21.82	22.16	22.61	23.31	23.15	23.68	24.34	24.46	25.21	25.24	25.33
Petroleum	11.07	11.60	5.58	6.80	7.09	7.07	7.62	8.01	7.46	11.42	11.43	9.80	8.20
Natural Gas	43.67	46.42	52.87	56.87	59.49	63.32	62.12	62.39	63.24	63.26	63.26	63.26	65.42
Nuclear	30.58	29.09	29.53	29.53	29.43	29.30	30.11	30.11	30.11	30.11	30.11	30.11	30.11
Pumped Storage/Other 1/	-0.49	-0.45	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52
Renewables 2/	13.36	13.80	13.16	14.91	14.56	14.38	14.20	13.97	14.05	14.17	14.91	14.94	14.82
Total	120.34	123.34	122.43	129.74	132.65	136.87	136.67	137.63	138.68	142.90	144.59	142.85	143.37
<b>Southeastern Electric Reliability Council / Florida</b>													
Coal	62.03	60.48	71.53	72.05	71.40	72.24	72.85	73.98	78.38	81.08	83.23	83.23	83.22
Petroleum	36.93	36.69	23.82	23.88	23.88	24.14	24.15	24.25	25.12	25.13	25.14	25.14	25.16
Natural Gas	73.14	81.56	86.92	88.64	90.85	92.39	92.39	100.34	92.52	93.08	96.21	109.89	110.73
Nuclear	31.22	28.76	31.47	31.47	31.34	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	4.02	3.95	4.93	5.16	5.98	5.78	5.95	5.76	5.35	5.28	5.27	5.29	5.13
Total	207.33	211.44	218.68	221.19	223.45	225.64	226.42	235.40	232.46	235.66	240.95	254.64	255.34
<b>Southeastern Electric Reliability Council / excluding Florida</b>													
Coal	447.11	457.39	452.56	458.42	457.52	462.72	471.98	475.17	482.97	487.54	494.11	499.26	502.65
Petroleum	13.17	10.01	12.84	7.41	7.44	7.63	7.76	8.03	8.02	8.16	10.06	8.28	9.83
Natural Gas	90.15	97.71	88.80	90.52	112.20	117.11	120.31	120.26	138.25	135.49	134.29	138.45	143.29
Nuclear	256.36	251.51	252.71	252.85	251.85	250.01	250.07	251.90	263.80	265.55	266.90	270.86	284.73
Pumped Storage/Other 1/	-2.87	-2.23	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60
Renewables 2/	39.05	35.97	39.36	42.64	45.60	51.74	54.29	55.63	53.89	54.89	55.35	54.91	54.94
Total	842.98	850.35	842.67	848.24	871.00	885.63	900.81	907.39	943.33	948.04	957.11	968.15	991.84
<b>Southwest Power Pool</b>													
Coal	142.35	142.57	142.68	143.18	142.41	144.01	145.49	147.13	150.04	150.42	149.05	149.03	148.72
Petroleum	1.56	1.86	1.05	1.05	1.08	1.13	2.05	2.04	2.14	2.18	2.26	1.99	2.06
Natural Gas	44.17	52.21	42.55	41.90	42.53	43.54	42.29	42.96	43.69	44.63	46.61	49.33	50.20
Nuclear	10.13	8.82	9.37	9.37	9.32	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
Pumped Storage/Other 1/	0.12	0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
Renewables 2/	8.86	7.83	10.26	10.95	11.18	11.13	11.25	11.33	12.05	12.21	12.54	12.72	13.15
Total	207.19	213.50	205.72	206.25	206.32	208.89	210.17	212.54	217.00	218.52	219.54	222.15	223.21
<b>Western Electricity Coordinating Council / Northwest Power Pool Area</b>													
Coal	81.57	82.18	81.43	81.10	79.82	80.06	80.27	80.28	80.46	80.60	80.70	80.63	84.52
Petroleum	0.63	0.54	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.34
Natural Gas	24.00	22.81	22.03	24.71	26.12	26.12	18.78	17.94	19.80	26.76	26.76	26.77	26.54
Nuclear	8.98	8.24	8.84	8.91	8.94	8.92	8.98	8.98	8.98	8.98	8.98	8.98	8.98
Pumped Storage/Other 1/	0.26	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewables 2/	125.64	125.63	136.14	135.17	140.77	145.89	151.11	156.56	156.41	156.56	156.72	157.14	158.15
Total	241.08	239.74	248.74	250.18	255.95	261.28	259.44	264.07	265.95	273.20	273.47	273.83	278.55
<b>Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area</b>													
Coal	120.20	121.13	122.14	123.06	121.41	123.77	129.49	130.60	130.90	131.13	135.51	143.48	150.97
Petroleum	1.47	0.12	0.52	0.52	0.56	0.73	0.77	0.76	0.74	0.74	0.81	0.89	0.96
Natural Gas	58.53	63.06	71.92	76.51	86.10	86.86	81.61	77.29	80.60	84.00	85.04	81.27	80.58
Nuclear	20.41	18.73	22.28	22.32	22.37	22.37	22.37	22.67	22.67	22.67	22.67	22.67	22.67
Pumped Storage/Other 1/	-0.23	0.06	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
Renewables 2/	14.08	14.10	16.38	17.58	18.65	19.15	19.65	19.60	19.62	19.74	19.85	19.89	19.90
Total	214.46	217.20	233.01	239.74	248.84	252.64	253.65	250.67	254.30	258.03	263.64	267.95	274.84

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatthours)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Western Electricity Coordinating Council / California													
Coal	31.38	30.88	32.72	32.47	31.94	32.03	50.67	52.94	54.22	54.31	57.85	63.70	69.98
Petroleum	1.81	2.05	0.13	0.13	0.13	0.14	0.33	0.35	0.36	0.37	0.40	0.46	0.52
Natural Gas	83.69	75.03	75.50	75.93	76.38	80.78	73.21	82.32	86.69	86.71	88.68	89.63	86.76
Nuclear	37.97	43.23	42.42	42.50	42.50	42.43	42.47	42.58	42.58	42.58	42.58	42.58	42.58
Pumped Storage/Other 1/	-0.76	0.17	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86
Renewables 2/	54.56	58.21	58.85	66.69	67.83	68.96	69.85	69.72	69.88	70.77	70.74	71.14	71.60
Total	208.65	209.56	208.75	216.86	217.91	223.48	235.66	247.05	252.87	253.89	259.39	266.66	270.58

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatt-hours)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>East Central Area Reliability Coordination Agreement</b>															
Coal	568.41	565.93	565.59	564.85	566.74	570.83	571.54	570.33	569.90	569.67	569.49	570.28	572.99	574.67	0.4%
Petroleum	3.92	4.00	3.99	3.96	4.02	4.12	4.27	4.40	4.39	4.39	4.45	4.45	4.46	4.47	-1.4%
Natural Gas	47.54	47.56	48.11	54.75	63.61	73.21	79.24	79.68	73.28	68.23	64.85	60.53	55.25	52.74	3.6%
Nuclear	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	61.95	0.0%
Pumped Storage/Other 1/	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	-1.78	0.9%
Renewables 2/	13.83	14.59	13.71	12.88	12.17	12.75	14.82	16.03	16.07	16.05	16.40	16.45	13.31	12.28	2.5%
Total	693.86	692.24	691.56	696.60	706.70	721.06	730.05	730.60	723.83	718.56	715.45	711.99	706.29	704.46	0.6%
<b>Electric Reliability Council of Texas</b>															
Coal	109.63	109.64	109.63	111.92	117.10	122.66	129.30	135.43	143.13	150.11	161.07	178.84	189.71	197.69	2.2%
Petroleum	1.18	1.18	1.18	1.21	1.26	1.32	1.39	1.45	1.52	1.59	1.59	1.59	1.60	1.60	0.5%
Natural Gas	189.60	193.30	196.18	197.55	196.31	195.43	193.48	190.33	187.50	185.12	180.00	168.67	162.88	160.39	0.8%
Nuclear	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	41.22	0.3%
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	N/A
Renewables 2/	16.81	16.79	16.80	16.80	16.82	17.42	17.58	17.92	18.20	18.63	18.64	18.58	18.52	18.75	6.2%
Total	358.63	362.33	365.24	368.97	373.05	378.47	383.44	386.90	392.14	397.32	403.20	409.62	414.67	420.41	1.5%
<b>Mid-Atlantic Area Council</b>															
Coal	162.67	164.17	168.97	175.10	180.28	186.42	192.16	198.05	203.41	210.08	217.09	224.23	234.73	248.56	2.6%
Petroleum	5.78	5.78	5.81	5.81	5.80	5.80	5.81	5.81	5.82	5.82	5.80	5.81	5.73	5.73	-2.4%
Natural Gas	31.28	32.91	33.42	33.44	33.20	33.05	32.88	29.88	29.64	29.52	29.13	28.87	26.80	26.06	-0.1%
Nuclear	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	107.60	102.62	-0.2%
Pumped Storage/Other 1/	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	3.1%
Renewables 2/	13.16	13.66	13.69	13.61	13.89	13.85	13.61	14.30	14.42	14.40	14.43	14.43	14.32	14.90	2.5%
Total	319.77	323.44	328.86	335.00	340.26	346.26	351.66	355.31	360.62	367.22	373.92	380.89	389.21	397.95	1.4%
<b>Mid-America Interconnected Network</b>															
Coal	226.27	224.76	223.56	224.23	225.56	228.95	229.60	229.03	228.46	228.66	228.69	229.17	228.70	229.94	1.1%
Petroleum	1.08	1.06	1.01	0.99	0.98	0.98	0.99	1.08	1.21	1.20	1.23	1.23	1.23	1.23	2.1%
Natural Gas	22.01	23.95	26.64	26.17	21.75	19.61	18.02	16.11	15.71	16.28	16.47	16.11	16.53	18.83	1.2%
Nuclear	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	115.61	108.79	-0.1%
Pumped Storage/Other 1/	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	0.7%
Renewables 2/	8.13	8.43	8.00	8.14	7.69	7.27	8.06	8.83	8.84	8.73	8.70	8.19	8.65	8.03	2.4%
Total	372.97	373.68	374.69	375.01	371.46	372.29	372.18	370.61	369.83	370.53	370.80	370.46	370.92	367.07	0.7%
<b>Mid-Continent Area Power Pool</b>															
Coal	141.85	142.72	144.51	147.61	149.36	149.45	149.52	149.35	149.41	150.30	150.52	151.41	155.11	157.68	1.2%
Petroleum	0.70	0.80	0.91	0.92	0.93	0.90	0.88	0.88	0.87	0.87	0.86	0.88	0.87	0.89	-0.1%
Natural Gas	3.02	2.94	3.74	3.12	3.14	2.60	2.27	2.28	2.39	2.31	2.31	2.32	2.32	2.35	-2.3%
Nuclear	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	25.10	0.0%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	22.26	22.44	22.40	21.72	21.69	21.73	21.81	22.25	22.28	22.29	22.19	22.34	21.63	21.40	2.5%
Total	192.97	194.05	196.71	198.53	200.28	199.86	199.68	199.98	200.19	201.04	201.19	202.28	205.28	207.67	1.1%
<b>Northeast Power Coordinating Council / New York</b>															
Coal	22.42	22.46	22.46	22.46	22.50	24.55	26.57	28.76	30.79	33.13	35.69	38.27	41.20	48.17	4.1%
Petroleum	22.63	22.64	22.48	22.45	22.33	22.18	22.13	22.10	22.11	22.01	21.97	22.00	21.97	21.97	-0.3%
Natural Gas	51.24	53.04	50.44	51.02	49.81	46.75	43.47	42.81	42.94	40.87	40.23	40.65	39.44	38.25	0.5%
Nuclear	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	46.59	41.87	-0.5%
Pumped Storage/Other 1/	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-0.57	-1.3%
Renewables 2/	34.46	34.41	34.41	34.41	34.36	34.34	34.41	34.41	34.41	34.41	34.41	34.41	34.42	34.41	1.1%
Total	176.77	178.57	175.82	176.37	175.03	173.86	172.62	174.11	176.28	176.45	178.34	181.38	183.07	184.11	0.9%

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatt-hours)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Northeast Power Coordinating Council / New England</b>															
Coal	25.36	25.35	25.39	25.39	25.31	25.32	25.16	25.16	25.17	25.10	25.03	25.01	24.85	24.77	0.3%
Petroleum	7.82	7.29	7.07	7.05	6.61	6.57	6.56	6.53	6.49	6.48	6.41	6.53	6.32	6.31	-2.4%
Natural Gas	68.18	70.42	73.56	75.80	77.71	79.83	81.67	83.40	84.46	85.79	85.55	85.39	81.42	76.82	2.0%
Nuclear	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	30.11	34.96	41.29	1.4%
Pumped Storage/Other 1/	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	0.6%
Renewables 2/	14.84	14.90	14.84	14.90	14.93	14.97	15.13	15.13	15.12	15.16	15.25	15.34	16.10	16.20	0.6%
Total	145.81	147.57	150.49	152.79	154.24	156.39	158.25	159.97	161.02	162.34	162.08	162.13	163.40	165.16	1.2%
<b>Southeastern Electric Reliability Council / Florida</b>															
Coal	90.86	93.01	99.59	104.28	112.06	116.83	121.62	125.25	125.26	129.64	130.46	133.27	144.23	153.90	3.8%
Petroleum	25.22	25.25	25.31	25.36	25.40	25.49	25.66	25.77	25.78	25.78	25.77	25.77	25.77	25.77	-1.4%
Natural Gas	108.56	113.04	112.52	115.90	116.23	111.70	112.36	112.59	117.33	119.40	119.12	115.73	109.52	105.87	1.0%
Nuclear	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	31.08	36.89	44.50	46.12	46.12	1.9%
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	N/A
Renewables 2/	5.41	5.60	5.87	6.10	6.10	6.92	7.37	8.14	8.97	8.94	9.58	10.31	10.32	11.35	4.3%
Total	261.17	268.04	274.45	282.83	291.00	292.19	298.29	303.05	308.68	315.12	322.14	329.92	336.34	343.42	2.0%
<b>Southeastern Electric Reliability Council / excluding Flor</b>															
Coal	504.56	505.90	516.15	530.63	542.50	555.23	580.96	605.39	631.77	659.68	690.09	715.96	738.19	763.13	2.1%
Petroleum	8.81	8.58	8.07	8.09	8.04	8.06	8.16	8.25	8.15	8.08	8.08	8.67	8.12	8.11	-0.8%
Natural Gas	138.49	133.62	130.67	130.79	128.07	125.36	114.77	114.44	111.28	108.74	108.65	109.38	110.92	111.19	0.5%
Nuclear	303.61	323.92	338.39	342.45	343.25	343.25	343.25	343.25	343.25	343.25	343.25	343.25	343.25	343.25	1.3%
Pumped Storage/Other 1/	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	1.9%
Renewables 2/	54.94	53.60	53.80	53.00	52.67	53.88	53.58	53.96	53.88	54.43	54.31	54.28	53.62	54.75	1.7%
Total	1006.80	1022.03	1043.47	1061.40	1070.98	1082.27	1097.23	1121.84	1144.90	1170.85	1201.13	1228.38	1250.96	1277.33	1.6%
<b>Southwest Power Pool</b>															
Coal	149.01	149.91	151.99	157.41	162.31	167.74	172.96	178.65	184.22	190.34	195.72	202.75	208.15	213.42	1.6%
Petroleum	2.07	1.94	1.81	1.92	1.74	1.87	2.05	2.10	1.71	1.47	1.90	2.32	2.11	1.93	0.2%
Natural Gas	51.00	50.76	49.99	49.99	50.27	50.27	49.57	49.57	48.50	47.37	47.63	47.82	46.36	46.50	-0.5%
Nuclear	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	0.2%
Pumped Storage/Other 1/	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	N/A
Renewables 2/	12.95	13.17	13.24	12.84	13.15	12.69	12.32	12.37	12.39	12.40	12.42	12.13	12.14	12.04	1.7%
Total	224.11	224.86	226.11	231.25	236.56	241.66	245.98	251.77	255.90	260.66	266.77	274.14	277.88	283.03	1.1%
<b>Western Electricity Coordinating Council / Northwest Po</b>															
Coal	90.76	97.70	99.53	100.69	107.46	113.20	119.62	126.10	131.40	136.87	143.08	143.74	143.77	143.76	2.3%
Petroleum	0.40	0.43	0.45	0.46	0.52	0.55	0.62	0.68	0.74	0.79	0.82	0.83	0.83	0.83	1.7%
Natural Gas	23.64	22.70	26.33	30.08	28.41	26.24	22.40	22.98	18.66	16.95	12.64	13.05	12.96	12.33	-2.4%
Nuclear	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	0.3%
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	N/A
Renewables 2/	158.36	158.55	158.73	159.19	159.34	159.33	159.37	159.38	159.40	159.42	159.94	160.29	160.28	160.31	1.0%
Total	282.17	288.39	294.08	299.52	304.85	308.45	311.16	318.33	319.44	323.34	325.87	327.37	327.36	326.82	1.2%
<b>Western Electricity Coordinating Council / Rocky Mount</b>															
<b>Arizona-New Mexico-Southern Nevada Power Area</b>															
Coal	158.36	166.68	175.02	184.12	192.75	202.51	212.51	222.50	232.47	242.45	252.98	263.73	273.37	284.27	3.5%
Petroleum	1.04	1.13	1.21	1.30	1.39	1.49	1.59	1.69	1.79	1.89	2.00	2.13	2.23	2.34	12.8%
Natural Gas	78.13	77.01	81.43	76.98	64.45	56.48	51.78	44.25	39.57	34.63	30.85	25.55	22.65	21.83	-4.2%
Nuclear	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	0.8%
Pumped Storage/Other 1/	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	N/A
Renewables 2/	19.91	19.95	19.97	19.98	20.05	19.99	19.97	19.99	19.95	19.99	20.04	20.31	20.35	20.36	1.5%
Total	279.87	287.20	300.06	304.80	301.07	302.89	308.28	310.86	316.22	321.42	328.35	334.24	341.16	351.39	1.9%

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatt-hours)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
Western Electricity Coordinating Council / California															
Coal	76.09	82.65	90.06	98.31	106.15	113.62	122.41	131.33	139.62	147.66	155.95	163.65	172.07	179.54	7.3%
Petroleum	0.58	0.65	0.73	0.81	0.89	0.97	1.06	1.15	1.23	1.30	1.39	1.47	1.47	1.47	-1.3%
Natural Gas	82.62	79.62	69.89	65.19	66.07	64.13	60.96	57.33	55.61	52.67	52.40	51.08	50.78	50.76	-1.6%
Nuclear	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	42.58	-0.1%
Pumped Storage/Other 1/	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	N/A
Renewables 2/	72.52	72.48	72.80	72.98	73.08	73.90	74.32	74.65	75.21	75.56	75.75	76.74	76.94	77.29	1.1%
Total	273.54	277.13	275.22	279.04	287.95	294.38	300.52	306.24	313.48	319.10	327.48	335.03	343.42	351.31	2.1%

Table 76 Electricity Generation by Electricity Market Module Region and Source  
(billion kilowatthours)

1/ Other includes methane, propane and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

2/ Renewables include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

Sources: 2004 and 2005: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source  
(gigawatts)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>East Central Area Reliability Coordination Agreement</b>													
Coal Steam	84.89	85.17	84.80	84.45	84.45	84.45	84.45	84.33	83.07	82.48	82.13	82.13	82.09
Other Fossil Steam 1/	3.96	3.75	3.75	3.75	3.75	3.75	3.75	3.71	2.09	1.31	1.31	1.31	1.31
Combined Cycle	11.66	11.66	11.66	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92
Combustion Turbine/ Diesel	20.38	20.73	20.71	20.71	20.71	20.71	20.71	20.71	18.34	18.34	18.34	18.34	18.34
Nuclear Power	7.73	7.74	7.74	7.74	7.74	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
Pumped Storage/Other 2/	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.63	1.64	1.64	1.64	1.64	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
Total	133.74	134.19	133.80	134.71	134.71	134.83	134.83	134.67	129.42	128.05	127.70	127.70	127.66
<b>Electric Reliability Council of Texas</b>													
Coal Steam	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20
Other Fossil Steam 1/	29.04	27.36	26.74	26.74	26.34	26.34	26.34	26.34	20.88	20.88	20.78	20.78	20.56
Combined Cycle	24.54	24.49	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Combustion Turbine/ Diesel	6.09	6.77	6.76	6.76	7.38	7.46	7.47	7.60	7.64	7.76	8.22	8.93	9.92
Nuclear Power	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.93	4.93	5.07	5.07	5.07
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.88	2.46	3.07	4.39	4.54	4.69	4.84	4.99	5.13	5.28	5.43	5.58	5.58
Total	81.61	81.14	81.63	82.95	83.41	83.68	83.88	84.20	79.03	79.34	80.02	80.92	81.73
<b>Mid-Atlantic Area Council</b>													
Coal Steam	21.20	21.20	21.16	21.16	21.16	21.16	21.17	21.17	21.18	21.02	21.47	22.15	22.91
Other Fossil Steam 1/	7.95	7.65	7.65	7.65	7.65	7.65	7.65	7.65	5.07	5.07	5.07	5.07	5.07
Combined Cycle	11.96	11.94	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13
Combustion Turbine/ Diesel	11.74	11.71	11.71	11.71	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03
Nuclear Power	13.28	13.30	13.30	13.32	13.32	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
Pumped Storage/Other 2/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	1.97	1.98	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.18	2.18	2.18
Total	69.65	69.32	70.62	70.64	70.96	70.99	71.00	71.00	68.43	68.27	68.80	69.52	70.32
<b>Mid-America Interconnected Network</b>													
Coal Steam	28.98	28.98	29.04	29.04	29.56	31.65	32.93	32.93	32.67	32.43	32.43	32.43	32.43
Other Fossil Steam 1/	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.05	0.00	0.00	0.00	0.00
Combined Cycle	4.42	5.55	5.73	5.73	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
Combustion Turbine/ Diesel	16.97	16.81	16.80	16.80	16.95	17.11	17.11	17.11	13.60	13.60	13.60	13.60	13.60
Nuclear Power	14.28	14.35	14.35	14.35	14.35	14.37	14.37	14.40	14.41	14.41	14.41	14.41	14.41
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	0.99	1.05	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Total	66.92	68.04	68.60	68.60	69.85	72.11	73.40	73.43	68.87	68.58	68.58	68.58	68.58
<b>Mid-Continent Area Power Pool</b>													
Coal Steam	18.68	18.68	18.67	19.46	19.19	19.19	19.19	19.39	19.39	19.51	19.52	19.52	19.71
Other Fossil Steam 1/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Combined Cycle	1.27	1.66	2.16	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
Combustion Turbine/ Diesel	7.27	7.80	7.88	8.03	8.03	8.03	8.03	8.03	8.10	8.10	8.40	8.71	8.88
Nuclear Power	3.23	3.24	3.24	3.24	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	4.67	5.18	5.28	5.49	5.52	5.54	5.55	5.55	5.55	5.55	5.55	5.55	5.55
Total	35.65	37.09	37.76	39.02	38.78	38.80	38.81	39.01	39.02	39.23	39.55	39.89	40.26

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source  
(gigawatts)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Northeast Power Coordinating Council / New York</b>													
Coal Steam	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.17	3.23	3.23	3.23
Other Fossil Steam 1/	11.92	11.76	11.39	11.39	11.39	11.39	11.39	11.39	8.11	8.11	8.11	8.11	8.11
Combined Cycle	5.75	7.90	8.65	8.65	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.97	9.17
Combustion Turbine/ Diesel	4.54	4.54	4.54	4.71	4.71	4.71	4.71	4.71	3.44	3.44	3.44	3.44	3.44
Nuclear Power	5.75	5.83	5.83	5.83	5.83	5.83	5.92	5.92	5.92	5.92	5.92	5.92	5.92
Pumped Storage/Other 2/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	6.88	7.02	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.16	7.16	7.16
Total	39.36	41.57	42.06	42.23	42.38	42.38	42.47	42.47	37.92	37.87	37.96	38.13	38.32
<b>Northeast Power Coordinating Council / New England</b>													
Coal Steam	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.55	3.55	3.55	3.55
Other Fossil Steam 1/	7.22	7.22	7.22	7.22	7.22	7.22	7.22	7.22	4.95	4.95	4.95	4.95	4.95
Combined Cycle	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.69
Combustion Turbine/ Diesel	2.37	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.54	2.61
Nuclear Power	3.70	3.78	3.78	3.78	3.78	3.78	3.88	3.88	3.88	3.88	3.88	3.88	3.88
Pumped Storage/Other 2/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	3.00	3.04	3.09	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.57	3.57	3.57
Total	32.08	32.18	32.23	32.68	32.68	32.68	32.78	32.78	30.51	30.29	30.33	30.53	30.94
<b>Southeastern Electric Reliability Council / Florida</b>													
Coal Steam	10.37	10.37	10.37	10.37	10.37	10.37	10.37	10.37	11.12	11.12	11.28	11.28	11.28
Other Fossil Steam 1/	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.45	8.73	8.73	8.73	8.73	8.73
Combined Cycle	17.89	20.43	20.43	20.43	20.43	20.43	20.43	20.43	20.43	20.43	20.77	21.68	22.73
Combustion Turbine/ Diesel	9.87	9.95	10.24	10.56	10.53	10.52	10.52	10.52	10.01	10.01	10.53	10.73	10.84
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	0.64	0.64	0.67	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Total	53.18	55.79	56.11	56.44	56.42	56.41	56.41	56.36	54.87	54.87	55.91	57.04	58.22
<b>Southeastern Electric Reliability Council / excluding Florida</b>													
Coal Steam	71.70	71.04	70.93	71.55	71.55	72.20	72.91	72.91	72.91	72.26	72.26	72.96	73.29
Other Fossil Steam 1/	18.46	18.39	18.39	18.39	18.39	18.39	18.39	18.39	14.66	14.52	14.52	14.52	14.52
Combined Cycle	36.63	38.25	39.19	39.76	40.30	41.05	41.61	41.61	41.61	41.61	41.61	41.61	41.61
Combustion Turbine/ Diesel	31.46	31.54	31.63	31.97	31.89	31.73	31.62	31.54	24.89	24.80	24.80	24.80	24.99
Nuclear Power	32.43	32.57	32.57	32.58	32.58	32.61	32.61	32.83	33.18	33.40	33.57	34.24	36.52
Pumped Storage/Other 2/	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	12.46	12.44	12.47	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.64	12.64	12.64
Total	210.18	211.27	212.23	213.91	214.35	215.63	216.79	216.93	206.89	206.24	206.44	207.81	210.61
<b>Southwest Power Pool</b>													
Coal Steam	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.56	21.80	21.80	21.31	21.31	21.31
Other Fossil Steam 1/	13.20	13.15	13.12	13.12	13.12	13.12	13.10	13.10	11.21	11.19	11.19	11.19	11.19
Combined Cycle	10.92	10.92	11.23	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19
Combustion Turbine/ Diesel	7.20	7.62	7.68	7.84	7.84	7.84	7.84	7.84	5.09	5.09	5.09	5.09	5.09
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
Pumped Storage/Other 2/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	3.01	3.89	4.23	4.23	4.23	4.23	4.23	4.23	4.24	4.24	4.24	4.24	4.24

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	<b>57.31</b>	<b>58.55</b>	<b>59.24</b>	<b>60.36</b>	<b>60.36</b>	<b>60.36</b>	<b>60.34</b>	<b>60.59</b>	<b>56.20</b>	<b>56.17</b>	<b>55.68</b>	<b>55.69</b>	<b>55.69</b>
<b>Western Electricity Coordinating Council / Northwest Power Pool Area</b>													
Coal Steam	11.15	11.15	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.78
Other Fossil Steam 1/	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.28	0.06	0.06	0.06	0.06
Combined Cycle	5.23	5.51	5.75	6.27	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78
Combustion Turbine/ Diesel	2.42	2.58	2.64	2.64	2.64	2.64	2.64	2.64	2.13	2.13	2.13	2.13	2.13
Nuclear Power	1.11	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	35.43	35.82	36.53	36.74	36.78	36.79	36.79	36.79	36.80	36.80	36.81	36.86	37.02
<b>Total</b>	<b>56.42</b>	<b>57.27</b>	<b>58.39</b>	<b>59.11</b>	<b>59.67</b>	<b>59.67</b>	<b>59.68</b>	<b>59.68</b>	<b>58.69</b>	<b>58.47</b>	<b>58.48</b>	<b>58.52</b>	<b>59.23</b>
<b>Western Electricity Coordinating Council / Rocky Mountain Power Area and Arizona-New Mexico-Southern Nevada Power Area</b>													
Coal Steam	16.25	16.25	16.64	16.64	16.64	17.79	17.79	17.79	17.79	17.79	18.36	19.45	20.47
Other Fossil Steam 1/	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	0.72	0.72	0.72	0.72	0.72
Combined Cycle	15.27	15.88	18.09	18.72	18.99	18.99	18.99	19.85	19.85	19.85	19.85	19.85	19.85
Combustion Turbine/ Diesel	4.67	4.67	5.39	5.66	5.66	5.66	5.66	5.66	4.21	4.21	4.21	4.21	4.21
Nuclear Power	2.76	2.76	2.79	2.79	2.84	2.84	2.84	2.88	2.88	2.88	2.88	2.88	2.88
Pumped Storage/Other 2/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	6.29	6.32	6.59	6.77	6.77	6.78	6.78	6.79	6.79	6.79	6.80	6.80	6.81
<b>Total</b>	<b>49.33</b>	<b>49.98</b>	<b>53.60</b>	<b>54.68</b>	<b>55.00</b>	<b>56.15</b>	<b>56.16</b>	<b>57.06</b>	<b>53.02</b>	<b>53.03</b>	<b>53.60</b>	<b>54.69</b>	<b>55.71</b>
<b>Western Electricity Coordinating Council / California</b>													
Coal Steam	4.30	4.30	4.30	4.30	4.30	4.30	7.30	7.30	7.30	7.30	7.77	8.56	9.42
Other Fossil Steam 1/	16.06	16.06	15.68	15.68	15.68	15.68	15.68	15.68	13.86	13.86	13.86	13.86	13.86
Combined Cycle	9.55	12.07	13.21	13.97	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51
Combustion Turbine/ Diesel	5.99	6.15	6.19	6.36	6.36	6.36	6.36	6.36	6.31	6.31	6.31	6.31	6.31
Nuclear Power	5.37	5.37	5.38	5.38	5.40	5.40	5.40	5.41	5.41	5.41	5.41	5.41	5.41
Pumped Storage/Other 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Sources 3/	15.90	16.12	16.35	18.31	18.32	18.34	18.34	18.34	18.35	18.54	18.55	18.63	18.70
<b>Total</b>	<b>60.85</b>	<b>63.75</b>	<b>64.81</b>	<b>67.69</b>	<b>68.25</b>	<b>68.27</b>	<b>71.27</b>	<b>71.29</b>	<b>69.42</b>	<b>69.62</b>	<b>70.09</b>	<b>70.96</b>	<b>71.89</b>

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>East Central Area Reliability Coordination Agreement</b>															
Coal Steam	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	82.09	-0.1%
Other Fossil Steam 1/	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	-4.1%
Combined Cycle	12.92	12.92	12.92	13.66	14.81	15.97	17.05	17.95	18.04	18.17	18.17	18.17	18.17	18.17	1.8%
Combustion Turbine/ Diesel	18.34	18.34	18.34	18.34	18.34	18.47	18.65	18.65	18.65	19.59	21.21	22.43	23.97	25.66	0.9%
Nuclear Power	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	0.1%
Pumped Storage/Other 2/	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	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	N/A
Renewable Sources 3/	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.71	1.71	1.71	1.71	0.2%
Total	127.66	127.66	127.66	128.40	129.55	130.85	132.12	133.02	133.14	134.29	136.04	137.29	138.86	140.58	0.2%
<b>Electric Reliability Council of Texas</b>															
Coal Steam	15.20	15.20	15.20	15.51	16.22	17.01	17.93	18.76	19.78	20.73	22.20	24.58	26.04	27.09	2.3%
Other Fossil Steam 1/	20.30	20.30	20.30	20.30	19.90	19.90	19.83	19.83	19.83	19.83	19.83	19.83	18.68	18.53	-1.5%
Combined Cycle	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.1%
Combustion Turbine/ Diesel	10.64	11.31	12.16	12.58	13.06	13.13	13.13	13.25	13.25	13.25	13.25	13.25	13.25	13.25	2.7%
Nuclear Power	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	0.3%
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	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	N/A
Renewable Sources 3/	5.59	5.59	5.59	5.59	5.60	5.64	5.64	5.69	5.75	5.80	5.81	5.81	5.81	5.86	3.5%
Total	82.38	83.09	83.98	84.85	85.76	86.83	87.84	89.01	90.14	91.32	92.86	95.32	95.69	96.70	0.7%
<b>Mid-Atlantic Area Council</b>															
Coal Steam	22.91	23.19	23.90	24.66	25.40	26.21	27.01	27.84	28.66	29.57	30.52	31.48	32.88	34.66	2.0%
Other Fossil Steam 1/	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	-1.6%
Combined Cycle	13.77	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	0.6%
Combustion Turbine/ Diesel	12.03	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	0.2%
Nuclear Power	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	12.73	-0.2%
Pumped Storage/Other 2/	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	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	N/A
Renewable Sources 3/	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.32	0.6%
Total	71.07	71.82	72.65	73.53	74.40	75.35	76.29	77.26	78.22	79.29	80.41	81.53	83.10	84.57	0.8%
<b>Mid-America Interconnected Network</b>															
Coal Steam	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	32.40	0.4%
Other Fossil Steam 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	-19.6%
Combined Cycle	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.46	6.46	6.46	6.46	6.46	6.46	0.6%
Combustion Turbine/ Diesel	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.61	14.10	14.77	15.47	16.18	16.78	18.31	0.3%
Nuclear Power	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	-0.4%
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	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	N/A
Renewable Sources 3/	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.1%
Total	68.56	68.56	68.56	68.56	68.56	68.56	68.64	68.75	69.49	70.28	71.10	71.94	72.65	72.91	0.3%
<b>Mid-Continent Area Power Pool</b>															
Coal Steam	20.00	20.18	20.43	20.76	20.98	20.98	20.98	20.98	20.99	21.16	21.16	21.29	21.66	21.96	0.6%
Other Fossil Steam 1/	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	N/A
Combined Cycle	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	1.2%
Combustion Turbine/ Diesel	8.88	8.98	8.98	8.98	8.98	8.98	9.19	9.40	9.64	9.68	10.07	10.24	10.24	10.24	1.1%
Nuclear Power	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	0.0%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 3/	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	0.3%
Total	40.57	40.86	41.14	41.48	41.71	41.75	42.00	42.25	42.57	42.84	43.30	43.66	44.05	44.37	0.7%

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Northeast Power Coordinating Council / New York</b>															
Coal Steam	3.23	3.23	3.23	3.23	3.23	3.50	3.78	4.08	4.35	4.66	5.01	5.36	5.75	6.61	2.9%
Other Fossil Steam 1/	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	-1.5%
Combined Cycle	9.34	9.51	9.72	9.95	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	1.0%
Combustion Turbine/ Diesel	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	-1.1%
Nuclear Power	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.34	-0.4%
Pumped Storage/Other 2/	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	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	N/A
Renewable Sources 3/	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.23	0.1%
Total	38.50	38.67	38.89	39.12	39.33	39.61	39.90	40.19	40.46	40.78	41.12	41.47	41.86	42.21	0.1%
<b>Northeast Power Coordinating Council / New England</b>															
Coal Steam	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.56	3.56	-0.2%
Other Fossil Steam 1/	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.93	4.93	-1.5%
Combined Cycle	11.06	11.41	11.81	12.18	12.53	12.93	13.25	13.60	13.94	14.29	14.69	14.69	14.69	14.69	1.4%
Combustion Turbine/ Diesel	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	0.4%
Nuclear Power	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	4.65	5.46	1.5%
Pumped Storage/Other 2/	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	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	N/A
Renewable Sources 3/	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.65	3.67	0.8%
Total	31.33	31.69	32.11	32.53	32.94	33.40	33.77	34.19	34.59	35.01	35.48	35.50	36.36	37.21	0.6%
<b>Southeastern Electric Reliability Council / Florida</b>															
Coal Steam	12.33	12.64	13.50	14.13	15.19	15.85	16.50	17.00	17.00	17.58	17.69	18.05	19.53	20.83	2.8%
Other Fossil Steam 1/	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	-0.7%
Combined Cycle	22.73	23.45	23.62	24.15	24.15	24.29	24.29	24.42	24.55	24.55	24.55	24.55	24.55	24.55	0.7%
Combustion Turbine/ Diesel	10.97	11.09	11.23	11.23	11.44	11.91	12.48	13.02	14.21	15.07	15.48	15.54	15.54	15.69	1.8%
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	4.84	5.81	5.81	5.81	1.6%
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	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	N/A
Renewable Sources 3/	0.69	0.69	0.74	0.78	0.78	0.86	0.91	1.00	1.11	1.11	1.19	1.30	1.30	1.43	3.3%
Total	59.42	60.63	61.92	63.18	64.49	65.92	67.24	68.57	70.07	71.58	73.20	74.77	76.33	77.98	1.3%
<b>Southeastern Electric Reliability Council / excluding Flor</b>															
Coal Steam	73.29	73.29	74.65	76.40	78.06	79.84	83.34	86.58	90.33	94.30	98.41	101.88	105.03	108.30	1.7%
Other Fossil Steam 1/	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.52	14.44	-1.0%
Combined Cycle	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	41.61	0.3%
Combustion Turbine/ Diesel	24.99	24.99	25.16	26.47	27.86	29.35	29.47	29.96	30.06	30.06	30.06	30.81	31.94	32.90	0.2%
Nuclear Power	39.16	41.85	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	43.35	1.1%
Pumped Storage/Other 2/	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	7.04	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	N/A
Renewable Sources 3/	12.64	12.64	12.64	12.64	12.64	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.84	0.1%
Total	213.25	215.94	218.97	222.08	225.19	228.57	232.26	236.06	239.98	244.14	248.45	252.88	257.24	261.63	0.9%
<b>Southwest Power Pool</b>															
Coal Steam	21.31	21.31	21.56	22.26	22.96	23.73	24.42	25.16	25.93	26.71	27.48	28.40	29.05	29.77	1.3%
Other Fossil Steam 1/	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	-0.6%
Combined Cycle	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	0.4%
Combustion Turbine/ Diesel	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.18	5.18	5.40	5.46	-1.3%
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	N/A
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	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	N/A
Renewable Sources 3/	4.24	4.25	4.25	4.25	4.25	4.26	4.26	4.26	4.26	4.27	4.27	4.27	4.27	4.28	0.4%

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source (gigawatts)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Total</b>	<b>55.69</b>	<b>55.69</b>	<b>55.95</b>	<b>56.65</b>	<b>57.36</b>	<b>58.13</b>	<b>58.82</b>	<b>59.56</b>	<b>60.33</b>	<b>61.14</b>	<b>62.03</b>	<b>62.99</b>	<b>63.89</b>	<b>64.68</b>	<b>0.4%</b>
<b>Western Electricity Coordinating Council / Northwest Po</b>															
Coal Steam	12.63	13.55	13.81	13.96	14.89	15.67	16.54	17.42	18.14	18.88	19.75	19.84	19.84	19.84	2.3%
Other Fossil Steam 1/	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	-10.0%
Combined Cycle	6.78	6.78	7.48	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	1.6%
Combustion Turbine/ Diesel	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.21	2.99	3.85	4.68	2.4%
Nuclear Power	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	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	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	N/A
Renewable Sources 3/	37.07	37.15	37.18	37.24	37.25	37.25	37.26	37.27	37.27	37.28	37.33	37.33	37.34	37.35	0.2%
<b>Total</b>	<b>60.15</b>	<b>61.19</b>	<b>62.22</b>	<b>63.36</b>	<b>64.34</b>	<b>65.17</b>	<b>66.09</b>	<b>67.03</b>	<b>67.90</b>	<b>68.81</b>	<b>69.96</b>	<b>71.00</b>	<b>72.02</b>	<b>73.02</b>	<b>1.0%</b>
<b>Western Electricity Coordinating Council / Rocky Mount</b>															
<b>Arizona-New Mexico-Southern Nevada Power Area</b>															
Coal Steam	21.47	22.60	23.74	24.97	26.15	27.47	28.82	30.18	31.53	32.89	34.32	35.78	37.09	38.57	3.5%
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	-5.9%
Combined Cycle	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85	0.9%
Combustion Turbine/ Diesel	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	-0.4%
Nuclear Power	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	0.2%
Pumped Storage/Other 2/	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	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	N/A
Renewable Sources 3/	6.81	6.81	6.82	6.82	6.82	6.83	6.83	6.83	6.84	6.84	6.84	6.89	6.90	6.90	0.4%
<b>Total</b>	<b>56.72</b>	<b>57.85</b>	<b>58.99</b>	<b>60.23</b>	<b>61.41</b>	<b>62.73</b>	<b>64.09</b>	<b>65.45</b>	<b>66.83</b>	<b>68.22</b>	<b>69.73</b>	<b>71.31</b>	<b>72.69</b>	<b>74.25</b>	<b>1.6%</b>
<b>Western Electricity Coordinating Council / California</b>															
Coal Steam	10.25	11.14	12.14	13.26	14.30	15.33	16.52	17.73	18.86	19.95	21.08	22.12	23.25	24.26	7.2%
Other Fossil Steam 1/	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	-0.6%
Combined Cycle	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	0.7%
Combustion Turbine/ Diesel	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.38	6.38	6.47	0.2%
Nuclear Power	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	0.0%
Pumped Storage/Other 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	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	N/A
Renewable Sources 3/	18.75	18.81	18.86	18.87	18.88	19.01	19.02	19.07	19.19	19.24	19.30	19.40	19.41	19.47	0.8%
<b>Total</b>	<b>72.77</b>	<b>73.74</b>	<b>74.82</b>	<b>75.97</b>	<b>77.04</b>	<b>78.22</b>	<b>79.44</b>	<b>80.72</b>	<b>82.03</b>	<b>83.37</b>	<b>84.76</b>	<b>86.19</b>	<b>87.53</b>	<b>88.87</b>	<b>1.3%</b>

Table 77. Electricity Generation Capacity by Electricity Market Module Region and Source  
(gigawatts)

1/ Includes oil-, gas-, and dual-fired capacity.

2/ Other includes methane, propane, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

3/ Renewable sources include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators. Values represent net summer capacity, which is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Sources: 2004 and 2005: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," (preliminary). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 78. Renewable Energy Generation by Fuel  
 East Central Area Reliability Coordination Agreement - 01

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Wood and Other Biomass 4/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Total	1.63	1.64	1.64	1.64	1.64	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	4.44	4.31	3.44	3.21	2.97	2.73	2.49	2.49	2.49	2.49	2.49	2.49	2.49
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.91	0.99	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Wood and Other Biomass 4/	1.15	1.15	2.86	4.73	5.18	7.43	7.54	6.42	5.72	5.28	5.59	8.38	8.56
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.32	0.20	0.36	0.37	0.38	0.41	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Total	6.81	6.65	7.83	9.47	9.69	11.73	11.62	10.50	9.80	9.36	9.67	12.46	12.64
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	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
Wood and Other Biomass 4/	0.01	0.01	0.04	0.06	0.06	0.09	0.09	0.08	0.07	0.06	0.07	0.10	0.10
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.07	0.07	0.09	0.11	0.11	0.13	0.14	0.12	0.11	0.11	0.12	0.14	0.15
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.17
Solar Photovoltaic 5/	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
Total	0.18	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.22	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	1.28	1.24	1.27	1.29	1.30	1.30	1.32	1.35	1.38	1.42	1.45	1.47	1.50
Solar Photovoltaic 5/	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06
Total	1.63	1.52	1.55	1.58	1.59	1.61	1.64	1.67	1.70	1.74	1.77	1.79	1.83

Table 78. Renewable Energy Generation by Fuel  
 East Central Area Reliability Coordination Agreement - 01

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 78. Renewable Energy Generation by Fuel  
 East Central Area Reliability Coordination Agreement - 01

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.23	0.23	0.23	0.23	0.9%
Wood and Other Biomass 4/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	0.6%
Total	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.71	1.71	1.71	1.71	0.2%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	-2.2%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.53	1.54	1.54	1.54	1.8%
Wood and Other Biomass 4/	9.75	10.51	9.63	8.80	8.09	8.67	10.75	11.95	11.99	11.97	11.95	12.00	8.86	7.83	8.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	3.1%
Total	13.83	14.59	13.71	12.88	12.17	12.75	14.82	16.03	16.07	16.05	16.40	16.45	13.31	12.28	2.5%
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.03	0.03	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%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Wood and Other Biomass 4/	0.11	0.12	0.11	0.10	0.09	0.10	0.12	0.14	0.14	0.14	0.14	0.14	0.10	0.09	8.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	3.1%
Total	0.16	0.16	0.15	0.15	0.14	0.15	0.17	0.18	0.18	0.18	0.19	0.19	0.16	0.14	2.9%
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	1.9%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	11.2%
Total	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.28	0.30	0.31	0.33	2.6%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	1.53	1.55	1.57	1.61	1.64	1.67	1.70	1.73	1.76	1.80	1.83	1.87	1.90	1.94	1.8%
Solar Photovoltaic 5/	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.09	0.10	0.11	0.13	0.15	0.18	0.21	11.2%
Total	1.85	1.87	1.90	1.94	1.97	2.00	2.04	2.08	2.13	2.17	2.23	2.29	2.35	2.42	1.9%

Table 78. Renewable Energy Generation by Fuel  
 East Central Area Reliability Coordination Agreement - 01

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption															
(quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	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	1.5%

Table 78. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement - 01

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 78. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement - 01

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Wood and Other Biomass 4/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Total	1.63	1.64	1.64	1.64	1.64	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	4.44	4.31	3.44	3.21	2.97	2.73	2.49	2.49	2.49	2.49	2.49	2.49	2.49
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.91	0.99	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Wood and Other Biomass 4/	1.15	1.15	2.86	4.73	5.18	7.43	7.54	6.42	5.72	5.28	5.59	8.38	8.56
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.32	0.20	0.36	0.37	0.38	0.41	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Total	6.81	6.65	7.83	9.47	9.69	11.73	11.62	10.50	9.80	9.36	9.67	12.46	12.64
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	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
Wood and Other Biomass 4/	0.01	0.01	0.04	0.06	0.06	0.09	0.09	0.08	0.07	0.06	0.07	0.10	0.10
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.07	0.07	0.09	0.11	0.11	0.13	0.14	0.12	0.11	0.11	0.12	0.14	0.15
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.17
Solar Photovoltaic 5/	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
Total	0.18	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.22	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	1.28	1.24	1.27	1.29	1.30	1.30	1.32	1.35	1.38	1.42	1.45	1.47	1.50
Solar Photovoltaic 5/	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06
Total	1.63	1.52	1.55	1.58	1.59	1.61	1.64	1.67	1.70	1.74	1.77	1.79	1.83

Table 78. Renewable Energy Generation by Fuel  
 East Central Area Reliability Coordination Agreement - 01

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 78. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement - 01

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.23	0.23	0.23	0.23	0.9%
Wood and Other Biomass 4/	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	0.6%
Total	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.71	1.71	1.71	1.71	0.2%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	-2.2%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.53	1.54	1.54	1.54	1.8%
Wood and Other Biomass 4/	9.75	10.51	9.63	8.80	8.09	8.67	10.75	11.95	11.99	11.97	11.95	12.00	8.86	7.83	8.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	3.1%
Total	13.83	14.59	13.71	12.88	12.17	12.75	14.82	16.03	16.07	16.05	16.40	16.45	13.31	12.28	2.5%
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.03	0.03	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%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Wood and Other Biomass 4/	0.11	0.12	0.11	0.10	0.09	0.10	0.12	0.14	0.14	0.14	0.14	0.14	0.10	0.09	8.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	3.1%
Total	0.16	0.16	0.15	0.15	0.14	0.15	0.17	0.18	0.18	0.18	0.19	0.19	0.16	0.14	2.9%
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	1.9%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	11.2%
Total	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.28	0.30	0.31	0.33	2.6%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	1.53	1.55	1.57	1.61	1.64	1.67	1.70	1.73	1.76	1.80	1.83	1.87	1.90	1.94	1.8%
Solar Photovoltaic 5/	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.09	0.10	0.11	0.13	0.15	0.18	0.21	11.2%
Total	1.85	1.87	1.90	1.94	1.97	2.00	2.04	2.08	2.13	2.17	2.23	2.29	2.35	2.42	1.9%

Table 78. Renewable Energy Generation by Fuel  
 East Central Area Reliability Coordination Agreement - 01

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption															
(quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	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	1.5%

Table 78. Renewable Energy Generation by Fuel  
East Central Area Reliability Coordination Agreement - 01

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 79. Renewable Energy Generation by Fuel  
 Electric Reliability Council of Texas - 02

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	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
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Wind	1.27	1.85	2.46	3.77	3.92	4.07	4.22	4.36	4.51	4.66	4.80	4.95	4.95
<b>Total</b>	<b>1.88</b>	<b>2.46</b>	<b>3.07</b>	<b>4.39</b>	<b>4.54</b>	<b>4.69</b>	<b>4.84</b>	<b>4.99</b>	<b>5.13</b>	<b>5.28</b>	<b>5.43</b>	<b>5.58</b>	<b>5.58</b>
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower	0.81	0.80	0.68	0.70	0.71	0.73	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.17	0.19	0.48	0.53	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.19	0.19	0.18	0.19	0.24	0.11
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Wind	2.87	3.22	5.70	10.96	11.64	12.15	12.65	13.17	13.69	14.21	14.72	15.22	15.22
<b>Total</b>	<b>3.85</b>	<b>4.21</b>	<b>6.86</b>	<b>12.18</b>	<b>12.92</b>	<b>13.45</b>	<b>14.05</b>	<b>14.67</b>	<b>15.19</b>	<b>15.71</b>	<b>16.23</b>	<b>16.79</b>	<b>16.66</b>
<b>Energy Consumption (quadrillion Btu)</b>													
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.03	0.03	0.06	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.15	0.16	0.16
<b>Total</b>	<b>0.04</b>	<b>0.04</b>	<b>0.07</b>	<b>0.13</b>	<b>0.13</b>	<b>0.14</b>	<b>0.15</b>	<b>0.15</b>	<b>0.16</b>	<b>0.16</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>
<b>End-Use Generators 6/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</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>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower 7/	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Total</b>	<b>0.19</b>	<b>0.18</b>	<b>0.18</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.20</b>	<b>0.20</b>	<b>0.20</b>	<b>0.21</b>	<b>0.21</b>	<b>0.21</b>	<b>0.22</b>

Table 79. Renewable Energy Generation by Fuel  
 Electric Reliability Council of Texas - 02

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 79. Renewable Energy Generation by Fuel  
 Electric Reliability Council of Texas - 02

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	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	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.09	0.14	0.20	0.20	0.20	0.20	0.24	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	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	0.04	22.4%
Wind	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.0%
<b>Total</b>	<b>5.59</b>	<b>5.59</b>	<b>5.59</b>	<b>5.59</b>	<b>5.60</b>	<b>5.64</b>	<b>5.64</b>	<b>5.69</b>	<b>5.75</b>	<b>5.80</b>	<b>5.81</b>	<b>5.81</b>	<b>5.81</b>	<b>5.86</b>	<b>3.5%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	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	-0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.62	0.62	0.62	4.9%
Wood and Other Biomass 4/	0.22	0.20	0.21	0.20	0.21	0.82	0.96	1.30	1.57	1.99	2.00	1.93	1.87	2.09	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	N/A
Wind	15.22	15.21	15.20	15.20	15.20	15.20	15.21	15.21	15.21	15.21	15.21	15.21	15.21	15.21	6.4%
<b>Total</b>	<b>16.81</b>	<b>16.79</b>	<b>16.80</b>	<b>16.80</b>	<b>16.82</b>	<b>17.42</b>	<b>17.58</b>	<b>17.92</b>	<b>18.20</b>	<b>18.63</b>	<b>18.64</b>	<b>18.58</b>	<b>18.52</b>	<b>18.75</b>	<b>6.2%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.9%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	6.4%
<b>Total</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>	<b>0.18</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>6.1%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	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	1.9%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.2%
<b>Total</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>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	1.8%
Solar Photovoltaic 5/	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	0.03	11.2%
<b>Total</b>	<b>0.22</b>	<b>0.22</b>	<b>0.23</b>	<b>0.23</b>	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>	<b>0.25</b>	<b>0.25</b>	<b>0.26</b>	<b>0.27</b>	<b>0.27</b>	<b>0.28</b>	<b>0.29</b>	<b>1.9%</b>

Table 79. Renewable Energy Generation by Fuel  
 Electric Reliability Council of Texas - 02

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%

Table 79. Renewable Energy Generation by Fuel  
Electric Reliability Council of Texas - 02

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 80 Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council - 03

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.66	0.67	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.76	0.76	0.76
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.07	0.07	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
<b>Total</b>	<b>1.97</b>	<b>1.98</b>	<b>2.14</b>	<b>2.14</b>	<b>2.14</b>	<b>2.14</b>	<b>2.14</b>	<b>2.14</b>	<b>2.14</b>	<b>2.14</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower	5.21	3.71	4.74	4.70	4.65	4.61	4.56	4.56	4.56	4.56	4.56	4.56	4.56
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	3.75	3.98	4.21	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.69	4.69	4.69
Wood and Other Biomass 4/	0.20	0.20	0.71	2.96	2.73	3.19	3.19	3.38	3.35	3.76	3.04	3.36	3.48
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.15	0.07	0.30	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
<b>Total</b>	<b>9.32</b>	<b>7.97</b>	<b>9.95</b>	<b>12.41</b>	<b>12.14</b>	<b>12.55</b>	<b>12.51</b>	<b>12.70</b>	<b>12.67</b>	<b>13.08</b>	<b>12.73</b>	<b>13.05</b>	<b>13.17</b>
<b>Energy Consumption (quadrillion Btu)</b>													
Conventional Hydropower	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass 4/	0.00	0.00	0.01	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.11</b>	<b>0.10</b>	<b>0.12</b>	<b>0.14</b>	<b>0.14</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>0.17</b>
<b>End-Use Generators 6/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10
Solar Photovoltaic 5/	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
<b>Total</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>	<b>0.12</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>	<b>0.13</b>	<b>0.13</b>	<b>0.13</b>	<b>0.14</b>
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower 7/	0.10	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	0.61	0.59	0.60	0.61	0.61	0.62	0.62	0.64	0.65	0.67	0.68	0.70	0.71
Solar Photovoltaic 5/	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>Total</b>	<b>0.77</b>	<b>0.72</b>	<b>0.73</b>	<b>0.75</b>	<b>0.75</b>	<b>0.76</b>	<b>0.77</b>	<b>0.79</b>	<b>0.81</b>	<b>0.82</b>	<b>0.84</b>	<b>0.85</b>	<b>0.86</b>

Table 80 Renewable Energy Generation by Fuel  
 Mid-Atlantic Area Council - 03

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 80 Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council - 03

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.5%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.16	7.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	4.0%
<b>Total</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.18</b>	<b>2.32</b>	<b>0.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	0.8%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.70	4.70	4.70	4.70	4.70	0.7%
Wood and Other Biomass 4/	3.47	3.97	4.00	3.92	4.20	4.16	3.92	4.61	4.73	4.71	4.73	4.73	4.62	5.20	13.9%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	7.4%
<b>Total</b>	<b>13.16</b>	<b>13.66</b>	<b>13.69</b>	<b>13.61</b>	<b>13.89</b>	<b>13.85</b>	<b>13.61</b>	<b>14.30</b>	<b>14.42</b>	<b>14.40</b>	<b>14.43</b>	<b>14.43</b>	<b>14.32</b>	<b>14.90</b>	<b>2.5%</b>
<b>Energy Consumption (quadrillion Btu)</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	0.8%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.7%
Wood and Other Biomass 4/	0.05	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	15.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	7.4%
<b>Total</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</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>2.7%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	1.9%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	11.2%
<b>Total</b>	<b>0.14</b>	<b>0.14</b>	<b>0.14</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>	<b>0.16</b>	<b>0.16</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>	<b>0.18</b>	<b>0.19</b>	<b>0.20</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	0.72	0.73	0.74	0.76	0.77	0.79	0.80	0.82	0.83	0.85	0.87	0.88	0.90	0.92	1.8%
Solar Photovoltaic 5/	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.10	11.2%
<b>Total</b>	<b>0.88</b>	<b>0.89</b>	<b>0.90</b>	<b>0.92</b>	<b>0.93</b>	<b>0.95</b>	<b>0.97</b>	<b>0.99</b>	<b>1.01</b>	<b>1.03</b>	<b>1.06</b>	<b>1.08</b>	<b>1.11</b>	<b>1.14</b>	<b>1.9%</b>

Table 80 Renewable Energy Generation by Fuel  
 Mid-Atlantic Area Council - 03

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030	
Energy Consumption (quadrillion Btu)																
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.5%

Table 80 Renewable Energy Generation by Fuel  
Mid-Atlantic Area Council - 03

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 81 Renewable Energy Generation by Fuel  
Mid-America Interconnected Network - 04

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.23	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.05	0.12	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Total	0.99	1.05	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	3.41	3.13	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	1.18	1.19	1.54	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Wood and Other Biomass 4/	0.05	0.01	0.02	0.03	0.31	0.98	1.09	1.24	2.19	1.81	1.70	1.19	0.64
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.10	0.09	0.57	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Total	4.75	4.41	5.31	5.92	6.21	6.87	6.98	7.13	8.08	7.71	7.59	7.08	6.53
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.07
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19
Solar Photovoltaic 5/	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
Total	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.20	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	1.15	1.11	1.14	1.16	1.16	1.17	1.18	1.21	1.24	1.27	1.30	1.32	1.35
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	1.47	1.36	1.39	1.42	1.43	1.44	1.47	1.50	1.53	1.56	1.59	1.61	1.64

Table 81 Renewable Energy Generation by Fuel  
Mid-America Interconnected Network - 04

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 81 Renewable Energy Generation by Fuel  
Mid-America Interconnected Network - 04

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	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	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.2%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	5.5%
<b>Total</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.40</b>	<b>1.1%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	0.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.2%
Wood and Other Biomass 4/	2.23	2.54	2.11	2.24	1.80	1.37	2.16	2.94	2.95	2.84	2.81	2.29	2.76	2.14	25.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	10.6%
<b>Total</b>	<b>8.13</b>	<b>8.43</b>	<b>8.00</b>	<b>8.14</b>	<b>7.69</b>	<b>7.27</b>	<b>8.06</b>	<b>8.83</b>	<b>8.84</b>	<b>8.73</b>	<b>8.70</b>	<b>8.19</b>	<b>8.65</b>	<b>8.03</b>	<b>2.4%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.2%
Wood and Other Biomass 4/	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	26.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.6%
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.08</b>	<b>0.09</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.09</b>	<b>0.10</b>	<b>0.09</b>	<b>2.5%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	1.9%
Solar Photovoltaic 5/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.08	0.09	11.2%
<b>Total</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.27</b>	<b>0.28</b>	<b>0.28</b>	<b>0.29</b>	<b>0.30</b>	<b>0.31</b>	<b>0.32</b>	<b>0.33</b>	<b>0.34</b>	<b>0.36</b>	<b>0.38</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	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	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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	0.0%
Wood and Other Biomass 4/	1.37	1.39	1.42	1.44	1.47	1.50	1.52	1.55	1.58	1.61	1.65	1.68	1.71	1.74	1.8%
Solar Photovoltaic 5/	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.12	0.14	0.16	0.19	11.2%
<b>Total</b>	<b>1.66</b>	<b>1.68</b>	<b>1.71</b>	<b>1.74</b>	<b>1.77</b>	<b>1.80</b>	<b>1.84</b>	<b>1.87</b>	<b>1.91</b>	<b>1.95</b>	<b>2.00</b>	<b>2.06</b>	<b>2.11</b>	<b>2.17</b>	<b>1.9%</b>

Table 81 Renewable Energy Generation by Fuel  
Mid-America Interconnected Network - 04

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption															
(quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	1.5%

Table 81 Renewable Energy Generation by Fuel  
Mid-America Interconnected Network - 04

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 82 Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool - 05

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	2.89	2.89	2.89	2.89	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	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
Wood and Other Biomass 4/	0.20	0.20	0.20	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	1.44	1.94	2.03	2.19	2.20	2.22	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Total	4.67	5.18	5.28	5.49	5.52	5.54	5.55	5.55	5.55	5.55	5.55	5.55	5.55
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	8.49	7.52	9.98	10.74	11.52	12.26	13.00	13.00	13.00	13.00	13.00	13.00	13.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.69	0.63	0.86	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Wood and Other Biomass 4/	0.15	0.24	0.85	1.12	1.37	1.51	1.44	1.36	1.42	1.44	1.45	1.82	1.84
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	2.32	3.21	5.39	5.93	5.99	6.04	6.09	6.11	6.11	6.10	6.11	6.10	6.11
Total	11.65	11.60	17.08	18.71	19.79	20.73	21.45	21.39	21.44	21.46	21.47	21.84	21.87
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	0.09	0.08	0.10	0.11	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	0.12	0.12	0.18	0.20	0.21	0.22	0.23	0.22	0.23	0.23	0.23	0.23	0.23
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.15	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.17
Solar Photovoltaic 5/	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
Total	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.12	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	0.70	0.68	0.69	0.71	0.71	0.71	0.72	0.74	0.76	0.78	0.79	0.81	0.82
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.89	0.83	0.85	0.86	0.87	0.88	0.90	0.91	0.93	0.95	0.97	0.98	1.00

Table 82 Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool - 05

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 82 Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool - 05

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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	0.3%
Wood and Other Biomass 4/	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	1.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	0.6%
<b>Total</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>5.55</b>	<b>0.3%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	2.2%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	1.5%
Wood and Other Biomass 4/	2.24	2.42	2.37	1.70	1.66	1.71	1.79	2.22	2.25	2.27	2.17	2.31	1.61	1.37	7.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	6.10	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.10	2.6%
<b>Total</b>	<b>22.26</b>	<b>22.44</b>	<b>22.40</b>	<b>21.72</b>	<b>21.69</b>	<b>21.73</b>	<b>21.81</b>	<b>22.25</b>	<b>22.28</b>	<b>22.29</b>	<b>22.19</b>	<b>22.34</b>	<b>21.63</b>	<b>21.40</b>	<b>2.5%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	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	2.2%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.5%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	7.9%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	2.6%
<b>Total</b>	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>	<b>0.23</b>	<b>0.24</b>	<b>0.23</b>	<b>0.23</b>	<b>2.5%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	1.9%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.08	11.2%
<b>Total</b>	<b>0.23</b>	<b>0.23</b>	<b>0.24</b>	<b>0.24</b>	<b>0.25</b>	<b>0.25</b>	<b>0.26</b>	<b>0.26</b>	<b>0.27</b>	<b>0.28</b>	<b>0.29</b>	<b>0.31</b>	<b>0.32</b>	<b>0.34</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	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%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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	0.0%
Wood and Other Biomass 4/	0.84	0.85	0.86	0.88	0.90	0.91	0.93	0.95	0.96	0.98	1.00	1.02	1.04	1.06	1.8%
Solar Photovoltaic 5/	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.10	0.12	11.2%
<b>Total</b>	<b>1.01</b>	<b>1.03</b>	<b>1.04</b>	<b>1.06</b>	<b>1.08</b>	<b>1.10</b>	<b>1.12</b>	<b>1.14</b>	<b>1.16</b>	<b>1.19</b>	<b>1.22</b>	<b>1.25</b>	<b>1.28</b>	<b>1.32</b>	<b>1.9%</b>

Table 82 Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool - 05

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	1.5%

Table 82 Renewable Energy Generation by Fuel  
Mid-Continent Area Power Pool - 05

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 83 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New York - 06

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.33	0.33	0.33
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.05	0.19	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Total	6.88	7.02	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.16	7.16	7.16
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	23.89	23.77	32.42	31.88	31.47	30.96	30.47	30.47	30.47	30.47	30.47	30.47	30.47
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	2.04	2.28	1.79	1.81	1.81	1.81	1.81	1.81	1.81	1.81	2.03	2.03	2.03
Wood and Other Biomass 4/	0.26	0.26	0.20	1.61	1.71	1.67	1.52	1.32	1.28	1.08	1.13	1.11	1.25
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.12	0.09	0.63	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Total	26.30	26.40	35.04	35.97	35.66	35.11	34.47	34.27	34.23	34.03	34.30	34.28	34.42
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	0.25	0.24	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Wood and Other Biomass 4/	0.00	0.00	0.00	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.28	0.28	0.37	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.37	0.37	0.37
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.35	0.34	0.35	0.35	0.35	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.41
Solar Photovoltaic 5/	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
Total	0.44	0.41	0.42	0.43	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.49	0.50

Table 83 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New York - 06

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 83 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New York - 06

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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	0.6%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.10	4.2%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	1.7%
<b>Total</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.16</b>	<b>7.23</b>	<b>0.1%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	30.47	1.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	-0.4%
Wood and Other Biomass 4/	1.29	1.24	1.24	1.24	1.19	1.17	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.22	6.3%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	8.4%
<b>Total</b>	<b>34.46</b>	<b>34.41</b>	<b>34.41</b>	<b>34.41</b>	<b>34.36</b>	<b>34.34</b>	<b>34.41</b>	<b>34.41</b>	<b>34.41</b>	<b>34.41</b>	<b>34.41</b>	<b>34.42</b>	<b>34.42</b>	<b>34.41</b>	<b>1.1%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	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	1.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.4%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	8.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.4%
<b>Total</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>1.1%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.9%
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	11.2%
<b>Total</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>	<b>0.09</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Wood and Other Biomass 4/	0.42	0.42	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	1.8%
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.06	11.2%
<b>Total</b>	<b>0.50</b>	<b>0.51</b>	<b>0.52</b>	<b>0.53</b>	<b>0.54</b>	<b>0.55</b>	<b>0.56</b>	<b>0.57</b>	<b>0.58</b>	<b>0.59</b>	<b>0.61</b>	<b>0.62</b>	<b>0.64</b>	<b>0.66</b>	<b>1.9%</b>

Table 83 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New York - 06

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.5%

Table 83 Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council/New York - 06

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 84 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New England - 07

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.57	0.57	0.57
Wood and Other Biomass 4/	0.63	0.65	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.01	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Total	3.00	3.04	3.09	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.57	3.57	3.57
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	6.81	6.89	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	3.94	4.16	3.70	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.95	3.95	3.95
Wood and Other Biomass 4/	2.59	2.74	3.16	3.43	3.08	2.90	2.72	2.49	2.57	2.69	3.19	3.23	3.10
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.02	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
Total	13.36	13.80	13.16	14.91	14.56	14.38	14.20	13.97	14.05	14.17	14.91	14.94	14.82
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.03	0.03	0.06	0.06	0.05	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.04
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	0.15	0.16	0.17	0.19	0.18	0.17	0.17	0.16	0.17	0.17	0.18	0.18	0.17
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	0.54	0.52	0.53	0.54	0.54	0.55	0.55	0.57	0.58	0.60	0.61	0.62	0.64
Solar Photovoltaic 5/	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08
Total	0.67	0.65	0.67	0.69	0.70	0.72	0.74	0.75	0.77	0.79	0.80	0.81	0.83
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.46	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Wood and Other Biomass 4/	2.69	2.59	2.65	2.70	2.71	2.72	2.76	2.82	2.89	2.96	3.02	3.08	3.14
Solar Photovoltaic 5/	0.02	0.03	0.04	0.06	0.07	0.09	0.11	0.12	0.12	0.12	0.12	0.12	0.13
Total	3.42	3.18	3.24	3.31	3.33	3.36	3.42	3.49	3.56	3.63	3.70	3.75	3.82

Table 84 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New England - 07

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05

Table 84 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New England - 07

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.2%
Wood and Other Biomass 4/	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.76	0.76	0.6%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.48	0.50	18.3%
<b>Total</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.57</b>	<b>3.65</b>	<b>3.67</b>	<b>0.8%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	-0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.96	3.96	3.96	-0.2%
Wood and Other Biomass 4/	3.12	3.18	3.12	3.18	3.21	3.25	3.41	3.41	3.40	3.44	3.53	3.62	4.26	4.30	1.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.60	1.67	22.2%
<b>Total</b>	<b>14.84</b>	<b>14.90</b>	<b>14.84</b>	<b>14.90</b>	<b>14.93</b>	<b>14.97</b>	<b>15.13</b>	<b>15.13</b>	<b>15.12</b>	<b>15.16</b>	<b>15.25</b>	<b>15.34</b>	<b>16.10</b>	<b>16.20</b>	<b>0.6%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	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	-0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.2%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	2.8%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	22.2%
<b>Total</b>	<b>0.17</b>	<b>0.18</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>0.19</b>	<b>0.19</b>	<b>0.8%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	0.65	0.66	0.67	0.68	0.70	0.71	0.72	0.74	0.75	0.77	0.78	0.80	0.82	0.83	1.9%
Solar Photovoltaic 5/	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.13	0.14	0.16	0.18	0.21	0.25	0.29	11.2%
<b>Total</b>	<b>0.84</b>	<b>0.85</b>	<b>0.87</b>	<b>0.89</b>	<b>0.91</b>	<b>0.92</b>	<b>0.95</b>	<b>0.98</b>	<b>1.01</b>	<b>1.04</b>	<b>1.08</b>	<b>1.13</b>	<b>1.17</b>	<b>1.24</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	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	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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	0.0%
Wood and Other Biomass 4/	3.19	3.24	3.29	3.36	3.42	3.49	3.55	3.61	3.68	3.76	3.84	3.91	3.99	4.06	1.8%
Solar Photovoltaic 5/	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.19	0.22	0.24	0.28	0.32	0.38	0.44	11.2%
<b>Total</b>	<b>3.87</b>	<b>3.92</b>	<b>3.98</b>	<b>4.05</b>	<b>4.12</b>	<b>4.19</b>	<b>4.27</b>	<b>4.36</b>	<b>4.45</b>	<b>4.55</b>	<b>4.67</b>	<b>4.79</b>	<b>4.91</b>	<b>5.05</b>	<b>1.9%</b>

Table 84 Renewable Energy Generation by Fuel  
 Northeast Power Coordinating Council/New England - 07

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	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	1.5%

Table 84 Renewable Energy Generation by Fuel  
Northeast Power Coordinating Council/New England - 07

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 85 Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council - 08

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity (gigawatts)</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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.44	0.44	0.44	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Wood and Other Biomass 4/	0.14	0.14	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.64	0.64	0.67	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower	0.26	0.24	0.20	0.15	0.11	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	3.31	3.22	2.77	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87
Wood and Other Biomass 4/	0.44	0.49	1.97	2.14	3.01	2.85	3.07	2.88	2.47	2.40	2.39	2.40	2.24
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.02	3.95	4.93	5.16	5.98	5.78	5.95	5.76	5.35	5.28	5.27	5.29	5.13
<b>Energy Consumption (quadrillion Btu)</b>													
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	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
Wood and Other Biomass 4/	0.00	0.00	0.03	0.04	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.05	0.07	0.08	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
<b>End-Use Generators 6/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.24	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower 7/	0.14	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	0.82	0.80	0.81	0.83	0.83	0.83	0.85	0.87	0.89	0.91	0.93	0.94	0.96
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
Total	1.05	0.97	0.99	1.01	1.02	1.03	1.05	1.07	1.09	1.12	1.13	1.15	1.17

Table 85 Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council - 08

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02

Table 85 Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council - 08

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</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	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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	0.1%
Wood and Other Biomass 4/	0.17	0.17	0.22	0.27	0.27	0.35	0.39	0.49	0.59	0.59	0.67	0.78	0.78	0.91	7.7%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
<b>Total</b>	<b>0.69</b>	<b>0.69</b>	<b>0.74</b>	<b>0.78</b>	<b>0.78</b>	<b>0.86</b>	<b>0.91</b>	<b>1.00</b>	<b>1.11</b>	<b>1.11</b>	<b>1.19</b>	<b>1.30</b>	<b>1.30</b>	<b>1.43</b>	<b>3.3%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-10.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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	-0.5%
Wood and Other Biomass 4/	2.52	2.72	2.98	3.21	3.21	4.03	4.49	5.26	6.09	6.05	6.70	7.42	7.44	8.46	12.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
<b>Total</b>	<b>5.41</b>	<b>5.60</b>	<b>5.87</b>	<b>6.10</b>	<b>6.10</b>	<b>6.92</b>	<b>7.37</b>	<b>8.14</b>	<b>8.97</b>	<b>8.94</b>	<b>9.58</b>	<b>10.31</b>	<b>10.32</b>	<b>11.35</b>	<b>4.3%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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%
Wood and Other Biomass 4/	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.09	0.10	0.10	0.11	13.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
<b>Total</b>	<b>0.09</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>	<b>0.13</b>	<b>0.13</b>	<b>0.13</b>	<b>0.14</b>	<b>0.14</b>	<b>0.15</b>	<b>4.3%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.29	0.30	1.9%
Solar Photovoltaic 5/	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	11.2%
<b>Total</b>	<b>0.30</b>	<b>0.30</b>	<b>0.31</b>	<b>0.32</b>	<b>0.32</b>	<b>0.33</b>	<b>0.34</b>	<b>0.35</b>	<b>0.36</b>	<b>0.37</b>	<b>0.39</b>	<b>0.40</b>	<b>0.42</b>	<b>0.44</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	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	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	0.98	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.18	1.20	1.22	1.25	1.8%
Solar Photovoltaic 5/	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.07	0.07	0.09	0.10	0.12	0.14	11.2%
<b>Total</b>	<b>1.19</b>	<b>1.20</b>	<b>1.22</b>	<b>1.24</b>	<b>1.27</b>	<b>1.29</b>	<b>1.31</b>	<b>1.34</b>	<b>1.37</b>	<b>1.40</b>	<b>1.43</b>	<b>1.47</b>	<b>1.51</b>	<b>1.55</b>	<b>1.9%</b>

Table 85 Renewable Energy Generation by Fuel  
 Florida Reliability Coordinating Council - 08

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.5%

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 86 Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council - 09

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	12.08	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.19	0.20	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.26	0.26	0.26
Wood and Other Biomass 4/	0.16	0.16	0.16	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.03	0.03	0.03	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Total	12.46	12.44	12.47	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.64	12.64	12.64
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	36.52	33.56	35.01	34.90	34.83	34.73	34.62	34.62	34.62	34.62	34.62	34.62	34.62
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	1.25	1.21	1.42	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.76	1.76	1.76
Wood and Other Biomass 4/	1.28	1.19	2.89	5.81	8.84	15.08	17.73	19.08	17.33	18.33	18.56	18.11	18.14
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.05	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Total	39.05	35.97	39.36	42.64	45.60	51.74	54.29	55.63	53.89	54.89	55.35	54.91	54.94
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	0.38	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.01	0.01	0.03	0.06	0.10	0.16	0.19	0.22	0.20	0.20	0.20	0.20	0.20
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.41	0.37	0.41	0.45	0.48	0.55	0.57	0.60	0.58	0.58	0.59	0.59	0.59
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	2.52	2.42	2.48	2.53	2.54	2.55	2.59	2.65	2.72	2.79	2.85	2.91	2.97
Solar Photovoltaic 5/	0.07	0.10	0.13	0.17	0.22	0.27	0.34	0.35	0.35	0.36	0.37	0.37	0.38
Total	3.11	3.04	3.13	3.22	3.28	3.34	3.45	3.52	3.60	3.68	3.74	3.80	3.87
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	2.90	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	1.54	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Wood and Other Biomass 4/	16.79	16.21	16.57	16.87	16.95	17.01	17.24	17.63	18.10	18.53	18.91	19.26	19.66
Solar Photovoltaic 5/	0.14	0.19	0.26	0.35	0.45	0.55	0.70	0.72	0.73	0.75	0.76	0.77	0.79
Total	21.36	19.85	20.27	20.67	20.84	21.01	21.40	21.80	22.28	22.72	23.11	23.48	23.89

Table 86 Renewable Energy Generation by Fuel  
 Southeastern Electric Reliability Council - 09

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	0.22	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.28	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31

Table 86 Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council - 09

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	12.06	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	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	0.27	1.1%
Wood and Other Biomass 4/	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	0.29	2.5%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.14	0.14	0.14	0.14	0.14	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.23	8.7%
Total	12.64	12.64	12.64	12.64	12.64	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.84	0.1%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	34.62	0.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.77	1.77	1.5%
Wood and Other Biomass 4/	18.15	16.80	17.00	16.20	15.88	16.92	16.62	17.01	16.92	17.48	17.35	17.31	16.65	17.62	11.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.42	0.42	0.42	0.42	0.42	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.73	24.6%
Total	54.94	53.60	53.80	53.00	52.67	53.88	53.58	53.96	53.88	54.43	54.31	54.28	53.62	54.75	1.7%
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.1%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.5%
Wood and Other Biomass 4/	0.21	0.19	0.20	0.19	0.18	0.19	0.19	0.20	0.19	0.20	0.20	0.20	0.19	0.20	12.0%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.6%
Total	0.59	0.58	0.58	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.59	0.59	0.58	0.59	1.8%
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	3.02	3.06	3.12	3.19	3.25	3.31	3.38	3.44	3.51	3.58	3.66	3.73	3.81	3.88	1.9%
Solar Photovoltaic 5/	0.39	0.39	0.41	0.43	0.45	0.48	0.53	0.59	0.66	0.74	0.86	1.00	1.15	1.36	11.2%
Total	3.93	3.98	4.06	4.14	4.23	4.32	4.43	4.55	4.69	4.84	5.04	5.25	5.48	5.77	2.6%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	0.0%
Wood and Other Biomass 4/	19.96	20.24	20.60	21.01	21.41	21.80	22.19	22.59	23.04	23.50	23.99	24.45	24.92	25.38	1.8%
Solar Photovoltaic 5/	0.80	0.82	0.85	0.89	0.93	0.98	1.08	1.21	1.34	1.50	1.75	2.03	2.35	2.78	11.2%
Total	24.21	24.50	24.89	25.34	25.79	26.22	26.72	27.25	27.83	28.45	29.18	29.92	30.71	31.60	1.9%

Table 86 Renewable Energy Generation by Fuel  
 Southeastern Electric Reliability Council - 09

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	0.26	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.33	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.37	0.38	1.5%

Table 86 Renewable Energy Generation by Fuel  
Southeastern Electric Reliability Council - 09

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 87. Renewable Energy Generation by Fuel  
Southwest Power Pool - 10

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Wind	0.38	1.26	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Total	3.01	3.89	4.23	4.23	4.23	4.23	4.23	4.23	4.24	4.24	4.24	4.24	4.24
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	7.60	6.64	6.16	6.16	6.15	6.14	6.13	6.13	6.13	6.13	6.13	6.13	6.13
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.06	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.00	0.00	0.00	0.34	0.58	0.53	0.66	0.74	1.45	1.61	1.94	2.11	2.54
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04
Wind	1.20	1.14	4.08	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43
Total	8.86	7.83	10.26	10.95	11.18	11.13	11.25	11.33	12.05	12.21	12.54	12.72	13.15
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	0.09	0.08	0.11	0.11	0.12	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.14
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.29	0.28	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.32	0.33	0.34	0.34
Solar Photovoltaic 5/	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Total	0.36	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.43	0.44	0.45
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.33	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	1.93	1.86	1.90	1.93	1.94	1.95	1.98	2.02	2.08	2.12	2.17	2.21	2.25
Solar Photovoltaic 5/	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Total	2.45	2.28	2.32	2.37	2.39	2.41	2.45	2.50	2.55	2.61	2.65	2.69	2.74

Table 87. Renewable Energy Generation by Fuel  
 Southwest Power Pool - 10

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04

Table 87. Renewable Energy Generation by Fuel  
Southwest Power Pool - 10

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	N/A
Wind	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.0%
Total	4.24	4.25	4.25	4.25	4.25	4.26	4.26	4.26	4.26	4.27	4.27	4.27	4.27	4.28	0.4%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	-0.3%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-3.4%
Wood and Other Biomass 4/	2.33	2.54	2.60	2.20	2.50	2.04	1.66	1.71	1.72	1.72	1.73	1.44	1.45	1.34	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.12	N/A
Wind	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	5.6%
Total	12.95	13.17	13.24	12.84	13.15	12.69	12.32	12.37	12.39	12.40	12.42	12.13	12.14	12.04	1.7%
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	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%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.4%
Wood and Other Biomass 4/	0.03	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	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	5.6%
Total	0.13	0.14	0.14	0.13	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	1.8%
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.35	0.36	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.42	0.42	0.43	0.44	0.45	1.9%
Solar Photovoltaic 5/	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.16	11.2%
Total	0.46	0.46	0.47	0.48	0.49	0.50	0.51	0.53	0.54	0.56	0.59	0.61	0.64	0.67	2.6%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	2.29	2.32	2.36	2.41	2.45	2.50	2.54	2.59	2.64	2.69	2.75	2.80	2.86	2.91	1.8%
Solar Photovoltaic 5/	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.14	0.15	0.17	0.20	0.23	0.27	0.32	11.2%
Total	2.78	2.81	2.85	2.91	2.96	3.01	3.06	3.12	3.19	3.26	3.35	3.43	3.52	3.62	1.9%

Table 87. Renewable Energy Generation by Fuel  
 Southwest Power Pool - 10

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.5%

Table 87. Renewable Energy Generation by Fuel  
Southwest Power Pool - 10

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 88 Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	34.13	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.15	34.28
Geothermal 2/	0.18	0.18	0.26	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30
Municipal Waste 3/	0.08	0.08	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.15	0.15
Wood and Other Biomass 4/	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
Solar Thermal	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
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03
Wind	0.79	1.16	1.75	1.94	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.99
Total	35.43	35.82	36.53	36.74	36.78	36.79	36.79	36.79	36.80	36.80	36.81	36.86	37.02
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	121.19	120.87	128.07	124.63	129.87	134.96	140.13	145.34	145.34	145.34	145.34	145.34	146.23
Geothermal 2/	1.42	1.70	1.59	1.93	2.13	2.17	2.20	2.20	2.20	2.20	2.20	2.23	2.25
Municipal Waste 3/	0.35	0.37	0.60	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	1.04	1.04
Wood and Other Biomass 4/	1.13	1.11	1.33	1.58	1.65	1.63	1.64	1.89	1.72	1.86	2.01	2.12	2.12
Solar Thermal	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
Solar Photovoltaic 5/	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08
Wind	1.55	1.58	4.55	6.23	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.41
Total	125.64	125.63	136.14	135.17	140.77	145.89	151.11	156.56	156.41	156.56	156.72	157.14	158.15
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	1.25	1.24	1.32	1.28	1.34	1.39	1.44	1.49	1.49	1.49	1.49	1.49	1.50
Geothermal 2/	0.03	0.04	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Municipal Waste 3/	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.02	0.02	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
Total	1.31	1.31	1.43	1.43	1.49	1.54	1.60	1.65	1.64	1.65	1.65	1.65	1.67
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wood and Other Biomass 4/	0.32	0.31	0.31	0.32	0.32	0.32	0.33	0.34	0.35	0.35	0.36	0.37	0.38
Solar Photovoltaic 5/	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
Total	0.40	0.39	0.40	0.41	0.42	0.42	0.44	0.45	0.46	0.47	0.48	0.48	0.49
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	0.24	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	1.40	1.36	1.39	1.41	1.42	1.42	1.44	1.48	1.51	1.55	1.58	1.61	1.64
Solar Photovoltaic 5/	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07
Total	1.79	1.66	1.70	1.73	1.74	1.76	1.79	1.82	1.86	1.90	1.93	1.96	2.00

Table 88 Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03

Table 88 Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	34.28	0.0%
Geothermal 2/	0.30	0.30	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	2.3%
Municipal Waste 3/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	2.6%
Wood and Other Biomass 4/	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.34	0.34	0.34	0.34	1.3%
Solar Thermal	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	0.04	N/A
Solar Photovoltaic 5/	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.10	40.5%
Wind	2.04	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.4%
<b>Total</b>	<b>37.07</b>	<b>37.15</b>	<b>37.18</b>	<b>37.24</b>	<b>37.25</b>	<b>37.25</b>	<b>37.26</b>	<b>37.27</b>	<b>37.27</b>	<b>37.28</b>	<b>37.33</b>	<b>37.33</b>	<b>37.34</b>	<b>37.35</b>	<b>0.2%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	146.23	0.8%
Geothermal 2/	2.26	2.26	2.39	2.44	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	1.5%
Municipal Waste 3/	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.06	4.3%
Wood and Other Biomass 4/	2.12	2.04	2.07	2.47	2.56	2.53	2.55	2.55	2.55	2.56	3.05	3.38	3.35	3.36	4.5%
Solar Thermal	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.11	N/A
Solar Photovoltaic 5/	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	N/A
Wind	6.60	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.0%
<b>Total</b>	<b>158.36</b>	<b>158.55</b>	<b>158.73</b>	<b>159.19</b>	<b>159.34</b>	<b>159.33</b>	<b>159.37</b>	<b>159.38</b>	<b>159.40</b>	<b>159.42</b>	<b>159.94</b>	<b>160.29</b>	<b>160.28</b>	<b>160.31</b>	<b>1.0%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	0.8%
Geothermal 2/	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	2.0%
Municipal Waste 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.3%
Wood and Other Biomass 4/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.05	6.1%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	6.0%
<b>Total</b>	<b>1.67</b>	<b>1.67</b>	<b>1.67</b>	<b>1.68</b>	<b>1.68</b>	<b>1.68</b>	<b>1.68</b>	<b>1.68</b>	<b>1.68</b>	<b>1.68</b>	<b>1.69</b>	<b>1.70</b>	<b>1.70</b>	<b>1.70</b>	<b>1.0%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 4/	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	1.9%
Solar Photovoltaic 5/	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.11	0.13	0.15	0.17	11.2%
<b>Total</b>	<b>0.50</b>	<b>0.51</b>	<b>0.51</b>	<b>0.53</b>	<b>0.54</b>	<b>0.55</b>	<b>0.56</b>	<b>0.58</b>	<b>0.60</b>	<b>0.62</b>	<b>0.64</b>	<b>0.67</b>	<b>0.70</b>	<b>0.73</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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	0.0%
Wood and Other Biomass 4/	1.67	1.69	1.72	1.76	1.79	1.82	1.86	1.89	1.93	1.97	2.01	2.05	2.09	2.12	1.8%
Solar Photovoltaic 5/	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.10	0.11	0.13	0.15	0.17	0.20	0.23	11.2%
<b>Total</b>	<b>2.03</b>	<b>2.05</b>	<b>2.08</b>	<b>2.12</b>	<b>2.16</b>	<b>2.19</b>	<b>2.24</b>	<b>2.28</b>	<b>2.33</b>	<b>2.38</b>	<b>2.44</b>	<b>2.50</b>	<b>2.57</b>	<b>2.64</b>	<b>1.9%</b>

Table 88 Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/Northwest Power Pool Area - 11

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption															
(quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	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	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.5%

Table 88 Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/Northwest Power Pool Area - 11

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 89 Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/Rocky Mountain power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower	5.41	5.41	5.41	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Geothermal 2/	0.18	0.19	0.21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Municipal Waste 3/	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Thermal	0.00	0.00	0.00	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Solar Photovoltaic 5/	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05
Wind	0.64	0.66	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Total	6.29	6.32	6.59	6.77	6.77	6.78	6.78	6.79	6.79	6.79	6.80	6.80	6.81
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower	11.78	11.80	12.77	13.26	13.76	14.25	14.73	14.73	14.73	14.73	14.73	14.73	14.73
Geothermal 2/	0.85	0.88	1.45	1.61	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
Municipal Waste 3/	0.12	0.12	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Wood and Other Biomass 4/	0.00	0.00	0.08	0.09	0.19	0.19	0.20	0.14	0.15	0.25	0.34	0.38	0.38
Solar Thermal	0.00	0.00	0.00	0.22	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.46	0.46
Solar Photovoltaic 5/	0.00	0.00	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12
Wind	1.33	1.30	1.89	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18
Total	14.08	14.10	16.38	17.58	18.65	19.15	19.65	19.60	19.62	19.74	19.85	19.89	19.90
<b>Energy Consumption (quadrillion Btu)</b>													
Conventional Hydropower	0.12	0.12	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Geothermal 2/	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	0.15	0.15	0.18	0.20	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23
<b>End-Use Generators 6/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 89 Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/Rocky Mountain power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 89 Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/Rocky Mountain power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	0.0%
Geothermal 2/	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	1.1%
Municipal Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.4%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.07	0.07	0.07	4.9%
Solar Thermal	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	22.0%
Solar Photovoltaic 5/	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	6.3%
Wind	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	1.3%
<b>Total</b>	<b>6.81</b>	<b>6.81</b>	<b>6.82</b>	<b>6.82</b>	<b>6.82</b>	<b>6.83</b>	<b>6.83</b>	<b>6.83</b>	<b>6.84</b>	<b>6.84</b>	<b>6.84</b>	<b>6.89</b>	<b>6.90</b>	<b>6.90</b>	<b>0.4%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	14.73	0.9%
Geothermal 2/	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	3.1%
Municipal Waste 3/	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	1.4%
Wood and Other Biomass 4/	0.38	0.40	0.41	0.41	0.47	0.40	0.37	0.38	0.33	0.37	0.40	0.66	0.69	0.69	N/A
Solar Thermal	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.50	0.51	N/A
Solar Photovoltaic 5/	0.13	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	17.4%
Wind	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.1%
<b>Total</b>	<b>19.91</b>	<b>19.95</b>	<b>19.97</b>	<b>19.98</b>	<b>20.05</b>	<b>19.99</b>	<b>19.97</b>	<b>19.99</b>	<b>19.95</b>	<b>19.99</b>	<b>20.04</b>	<b>20.31</b>	<b>20.35</b>	<b>20.36</b>	<b>1.5%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.9%
Geothermal 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	3.1%
Municipal Waste 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	N/A
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.4%
Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.1%
<b>Total</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>	<b>1.6%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.2%
<b>Total</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>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.2%
<b>Total</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>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>1.9%</b>

Table 89 Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/Rocky Mountain power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5%

Table 89 Renewable Energy Generation by Fuel

Western Electricity Coordinating Council/Rocky Mountain power Area and Arizona-New Mexico-Southern Nevada Power Area - 12

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 90. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/California - 13

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower	10.86	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
Geothermal 2/	1.81	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.99	2.05
Municipal Waste 3/	0.33	0.33	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.54	0.54	0.54	0.54
Wood and Other Biomass 4/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Solar Thermal	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41
Solar Photovoltaic 5/	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
Wind	2.10	2.20	2.41	4.37	4.37	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38
Total	15.90	16.12	16.35	18.31	18.32	18.34	18.34	18.34	18.35	18.54	18.55	18.63	18.70
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower	33.10	37.13	35.33	36.39	37.41	38.46	39.51	39.51	39.51	39.51	39.51	39.51	39.51
Geothermal 2/	12.32	12.32	12.99	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.37	13.79
Municipal Waste 3/	1.94	2.02	2.09	2.12	2.12	2.12	2.12	2.12	2.12	3.62	3.62	3.62	3.62
Wood and Other Biomass 4/	2.45	2.52	2.36	2.43	2.53	2.59	2.39	2.26	2.41	1.78	1.73	1.78	1.81
Solar Thermal	0.57	0.54	0.70	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.73	0.73	0.74
Solar Photovoltaic 5/	0.00	0.00	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.11
Wind	4.16	3.68	5.36	11.99	12.00	12.01	12.03	12.03	12.03	12.03	12.03	12.03	12.03
Total	54.56	58.21	58.85	66.69	67.83	68.96	69.85	69.72	69.88	70.77	70.74	71.14	71.60
<b>Energy Consumption (quadrillion Btu)</b>													
Conventional Hydropower	0.34	0.38	0.36	0.37	0.38	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Geothermal 2/	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.30
Municipal Waste 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05
Wood and Other Biomass 4/	0.02	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.05	0.03	0.03	0.04	0.04
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.04	0.04	0.06	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Total	0.70	0.74	0.77	0.85	0.87	0.88	0.89	0.88	0.89	0.89	0.90	0.91	0.92
<b>End-Use Generators 6/</b>													
<b>Generating Capacity (gigawatts)</b>													
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 4/	0.19	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23
Solar Photovoltaic 5/	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.24	0.23	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29
<b>Electricity Generation (billion kilowatthours)</b>													
Conventional Hydropower 7/	0.18	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	1.03	0.99	1.01	1.03	1.04	1.04	1.05	1.08	1.11	1.13	1.16	1.18	1.20
Solar Photovoltaic 5/	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05
Total	1.31	1.21	1.24	1.26	1.27	1.28	1.31	1.33	1.36	1.39	1.41	1.43	1.46

Table 90. Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/California - 13

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood and Other Biomass 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 90. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/California - 13

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.94	10.94	10.94	10.94	10.94	10.94	0.0%
Geothermal 2/	2.10	2.15	2.20	2.20	2.20	2.28	2.28	2.32	2.37	2.42	2.47	2.52	2.52	2.57	1.2%
Municipal Waste 3/	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	2.0%
Wood and Other Biomass 4/	0.39	0.39	0.39	0.39	0.39	0.44	0.44	0.44	0.44	0.44	0.44	0.48	0.48	0.48	0.8%
Solar Thermal	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.3%
Solar Photovoltaic 5/	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13	10.0%
Wind	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	2.8%
<b>Total</b>	<b>18.75</b>	<b>18.81</b>	<b>18.86</b>	<b>18.87</b>	<b>18.88</b>	<b>19.01</b>	<b>19.02</b>	<b>19.07</b>	<b>19.19</b>	<b>19.24</b>	<b>19.30</b>	<b>19.40</b>	<b>19.41</b>	<b>19.47</b>	<b>0.8%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	39.51	39.51	39.51	39.51	39.51	39.51	39.51	39.51	39.87	39.87	39.87	39.87	39.87	39.87	0.3%
Geothermal 2/	14.24	14.65	15.05	15.21	15.28	15.66	15.79	16.10	16.39	16.74	17.13	17.51	17.67	17.98	1.5%
Municipal Waste 3/	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.64	3.66	3.68	2.4%
Wood and Other Biomass 4/	2.26	1.79	1.70	1.70	1.70	2.12	2.39	2.39	2.26	2.25	2.04	2.60	2.60	2.59	0.1%
Solar Thermal	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.79	0.79	0.80	0.81	0.81	0.82	1.7%
Solar Photovoltaic 5/	0.12	0.13	0.15	0.17	0.18	0.20	0.21	0.23	0.24	0.26	0.28	0.29	0.31	0.32	22.6%
Wind	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	4.9%
<b>Total</b>	<b>72.52</b>	<b>72.48</b>	<b>72.80</b>	<b>72.98</b>	<b>73.08</b>	<b>73.90</b>	<b>74.32</b>	<b>74.65</b>	<b>75.21</b>	<b>75.56</b>	<b>75.75</b>	<b>76.74</b>	<b>76.94</b>	<b>77.29</b>	<b>1.1%</b>
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	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	0.3%
Geothermal 2/	0.31	0.32	0.34	0.34	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	2.0%
Municipal Waste 3/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	2.4%
Wood and Other Biomass 4/	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	1.9%
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.7%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.6%
Wind	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	4.9%
<b>Total</b>	<b>0.94</b>	<b>0.95</b>	<b>0.96</b>	<b>0.96</b>	<b>0.96</b>	<b>0.98</b>	<b>0.99</b>	<b>1.00</b>	<b>1.01</b>	<b>1.02</b>	<b>1.03</b>	<b>1.05</b>	<b>1.06</b>	<b>1.07</b>	<b>1.5%</b>
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 4/	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	1.9%
Solar Photovoltaic 5/	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10	11.2%
<b>Total</b>	<b>0.30</b>	<b>0.30</b>	<b>0.31</b>	<b>0.31</b>	<b>0.32</b>	<b>0.33</b>	<b>0.34</b>	<b>0.35</b>	<b>0.36</b>	<b>0.37</b>	<b>0.38</b>	<b>0.40</b>	<b>0.42</b>	<b>0.44</b>	<b>2.6%</b>
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	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	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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	0.0%
Wood and Other Biomass 4/	1.22	1.24	1.26	1.28	1.31	1.33	1.36	1.38	1.41	1.44	1.47	1.49	1.52	1.55	1.8%
Solar Photovoltaic 5/	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.11	0.12	0.14	0.17	11.2%
<b>Total</b>	<b>1.48</b>	<b>1.50</b>	<b>1.52</b>	<b>1.55</b>	<b>1.58</b>	<b>1.60</b>	<b>1.63</b>	<b>1.67</b>	<b>1.70</b>	<b>1.74</b>	<b>1.78</b>	<b>1.83</b>	<b>1.88</b>	<b>1.93</b>	<b>1.9%</b>

Table 90. Renewable Energy Generation by Fuel  
 Western Electricity Coordinating Council/California - 13

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Energy Consumption															
(quadrillion Btu)															
Conventional Hydropower 7/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 4/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.5%

Table 90. Renewable Energy Generation by Fuel  
Western Electricity Coordinating Council/California - 13

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.

Table 91 Renewable Energy Generation by Fuel  
United States

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Electric Power Sector 1/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower	79.96	79.97	79.97	79.98	79.99	79.99	79.99	79.99	79.99	79.99	79.99	79.99	80.12
Geothermal 2/	2.17	2.28	2.38	2.45	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.54	2.61
Municipal Waste 3/	3.19	3.23	3.41	3.43	3.43	3.43	3.43	3.43	3.43	3.63	3.76	3.79	3.79
Wood and Other Biomass 4/	2.04	2.06	2.15	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
Solar Thermal	0.40	0.40	0.40	0.53	0.54	0.54	0.54	0.55	0.55	0.55	0.56	0.56	0.56
Solar Photovoltaic 5/	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.14	0.15
Wind	6.97	9.62	12.24	16.42	16.61	16.80	16.97	17.11	17.26	17.41	17.56	17.70	17.73
Total	94.75	97.59	100.59	105.07	105.30	105.51	105.69	105.85	106.01	106.37	106.67	106.94	107.18
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower	265.06	261.89	279.78	277.72	284.50	290.97	297.50	302.73	302.76	302.78	302.81	302.83	303.75
Geothermal 2/	14.81	15.12	16.25	16.80	17.26	17.31	17.34	17.34	17.35	17.35	17.35	17.73	18.17
Municipal Waste 3/	19.86	20.56	20.79	21.52	21.56	21.56	21.56	21.56	21.56	23.06	24.12	24.38	24.38
Wood and Other Biomass 4/	9.73	9.92	16.41	26.26	31.18	40.55	43.29	43.37	42.24	42.46	43.25	46.22	46.22
Solar Thermal	0.57	0.54	0.70	0.92	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.22	1.23
Solar Photovoltaic 5/	0.01	0.01	0.07	0.10	0.12	0.15	0.18	0.21	0.23	0.27	0.30	0.34	0.38
Wind	14.14	14.60	28.92	46.21	47.06	47.65	48.26	48.79	49.31	49.83	50.34	50.85	50.94
Total	324.19	322.64	362.93	389.54	402.82	419.34	429.28	435.16	434.62	436.94	439.38	443.57	445.05
<b>Energy Consumption</b> (quadrillion Btu)													
Conventional Hydropower	2.72	2.69	2.88	2.86	2.92	2.99	3.06	3.11	3.11	3.11	3.11	3.11	3.12
Geothermal 2/	0.31	0.32	0.34	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.39
Municipal Waste 3/	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.31	0.33	0.33	0.33
Wood and Other Biomass 4/	0.10	0.10	0.25	0.37	0.42	0.52	0.55	0.56	0.55	0.54	0.55	0.59	0.59
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.15	0.15	0.30	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.52	0.52	0.52
Total	3.55	3.55	4.06	4.35	4.50	4.67	4.78	4.84	4.84	4.85	4.89	4.95	4.97
<b>End-Use Generators 6/</b>													
<b>Generating Capacity</b> (gigawatts)													
Conventional Hydropower 7/	0.65	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	4.66	4.49	4.59	4.68	4.70	4.72	4.79	4.90	5.04	5.17	5.28	5.38	5.50
Solar Photovoltaic 5/	0.12	0.18	0.23	0.31	0.40	0.50	0.63	0.65	0.66	0.67	0.68	0.69	0.70
Total	5.76	5.63	5.79	5.96	6.07	6.18	6.39	6.51	6.66	6.80	6.92	7.04	7.17
<b>Electricity Generation</b> (billion kilowatthours)													
Conventional Hydropower 7/	4.99	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	2.64	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Wood and Other Biomass 4/	28.90	27.91	28.52	29.05	29.18	29.29	29.69	30.35	31.16	31.90	32.55	33.15	33.84
Solar Photovoltaic 5/	0.23	0.33	0.45	0.61	0.77	0.95	1.21	1.24	1.26	1.28	1.31	1.33	1.35
Total	36.77	34.18	34.90	35.59	35.88	36.18	36.84	37.53	38.36	39.12	39.79	40.42	41.13

Table 91 Renewable Energy Generation by Fuel  
United States

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Energy Consumption (quadrillion Btu)													
Conventional Hydropower 7/	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Waste 8/	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
Wood and Other Biomass 4/	0.37	0.36	0.37	0.37	0.38	0.38	0.38	0.39	0.40	0.41	0.42	0.43	0.43
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.48	0.45	0.46	0.47	0.47	0.47	0.47	0.48	0.49	0.50	0.51	0.52	0.53

Table 91 Renewable Energy Generation by Fuel  
United States

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
<b>Electric Power Sector 1/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower	80.12	80.12	80.12	80.12	80.12	80.12	80.12	80.12	80.18	80.18	80.18	80.18	80.18	80.18	0.0%
Geothermal 2/	2.66	2.71	2.79	2.79	2.79	2.87	2.87	2.90	2.95	3.00	3.05	3.10	3.10	3.15	1.3%
Municipal Waste 3/	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.85	3.86	3.86	3.87	0.7%
Wood and Other Biomass 4/	2.22	2.22	2.28	2.37	2.37	2.55	2.59	2.73	2.89	2.94	3.07	3.26	3.31	3.80	2.5%
Solar Thermal	0.57	0.57	0.58	0.58	0.59	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.63	1.8%
Solar Photovoltaic 5/	0.17	0.18	0.20	0.22	0.24	0.25	0.27	0.29	0.31	0.32	0.34	0.36	0.38	0.39	10.6%
Wind	17.78	17.85	17.85	17.85	17.85	17.89	17.89	17.89	17.89	17.89	17.89	17.89	17.92	17.98	2.5%
Total	107.31	107.44	107.60	107.72	107.74	108.06	108.12	108.33	108.62	108.74	108.98	109.26	109.36	110.00	0.5%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower	303.77	303.79	303.82	303.85	303.87	303.90	303.93	303.96	304.36	304.39	304.42	304.45	304.48	304.51	0.6%
Geothermal 2/	18.63	19.05	19.59	19.79	19.92	20.30	20.43	20.75	21.05	21.40	21.79	22.18	22.34	22.66	1.6%
Municipal Waste 3/	24.42	24.42	24.42	24.42	24.42	24.42	24.43	24.43	24.43	24.44	24.83	24.88	24.91	24.95	0.8%
Wood and Other Biomass 4/	50.07	50.34	49.45	47.47	46.69	49.19	52.30	56.96	58.01	58.88	59.69	60.94	57.39	58.21	7.3%
Solar Thermal	1.24	1.26	1.27	1.28	1.30	1.31	1.33	1.34	1.36	1.37	1.38	1.40	1.41	1.43	4.0%
Solar Photovoltaic 5/	0.41	0.45	0.50	0.54	0.58	0.63	0.67	0.72	0.76	0.81	0.85	0.89	0.94	0.98	22.6%
Wind	51.12	51.35	51.35	51.35	51.35	51.52	51.52	51.52	51.52	51.52	51.52	51.52	51.63	51.85	5.2%
Total	449.67	450.67	450.40	448.71	448.14	451.27	454.61	459.67	461.47	462.80	464.48	466.26	463.11	464.59	1.5%
<b>Energy Consumption (quadrillion Btu)</b>															
Conventional Hydropower	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.13	3.13	3.13	3.13	3.13	3.13	0.6%
Geothermal 2/	0.40	0.41	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	2.1%
Municipal Waste 3/	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	0.8%
Wood and Other Biomass 4/	0.64	0.64	0.63	0.61	0.60	0.63	0.67	0.72	0.72	0.73	0.74	0.76	0.72	0.72	8.2%
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.0%
Solar Photovoltaic 5/	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	22.6%
Wind	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	5.2%
Total	5.04	5.06	5.07	5.05	5.04	5.09	5.13	5.19	5.21	5.23	5.26	5.29	5.26	5.27	1.6%
<b>End-Use Generators 6/</b>															
<b>Generating Capacity (gigawatts)</b>															
Conventional Hydropower 7/	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	5.59	5.67	5.78	5.90	6.02	6.13	6.25	6.37	6.50	6.63	6.78	6.91	7.05	7.19	1.9%
Solar Photovoltaic 5/	0.72	0.73	0.76	0.80	0.84	0.89	0.98	1.10	1.22	1.36	1.59	1.84	2.13	2.52	11.2%
Total	7.27	7.37	7.51	7.66	7.82	7.99	8.20	8.43	8.69	8.97	9.33	9.72	10.15	10.68	2.6%
<b>Electricity Generation (billion kilowatthours)</b>															
Conventional Hydropower 7/	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.0%
Wood and Other Biomass 4/	34.37	34.84	35.47	36.17	36.86	37.53	38.21	38.90	39.67	40.46	41.30	42.09	42.90	43.70	1.8%
Solar Photovoltaic 5/	1.38	1.41	1.46	1.53	1.60	1.69	1.87	2.08	2.32	2.58	3.01	3.49	4.04	4.78	11.2%
Total	41.69	42.18	42.86	43.63	44.40	45.15	46.01	46.91	47.92	48.98	50.24	51.51	52.88	54.41	1.9%

Table 91 Renewable Energy Generation by Fuel  
United States

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
Energy Consumption (quadrillion Btu)															
Conventional Hydropower 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Waste 8/	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%
Wood and Other Biomass 4/	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	1.8%
Solar Photovoltaic 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	1.5%

Table 91 Renewable Energy Generation by Fuel  
United States

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

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

4/ Includes projections for energy crops after 2010.

5/ Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2004, EIA estimates that as much as 167 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2004, plus an additional 447 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006), Table 10.6 (annual PV shipments, 1989-2004). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

8/ Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

Note: Totals may not equal sum of components due to independent rounding. Data for 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 generation: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.