

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

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

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

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

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	14.84	14.84	14.84	14.84	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.40	13.42	13.44	13.46	13.49	-0.4%
Other Fossil Steam 2/	29.52	29.32	29.27	29.20	28.28	27.05	26.89	26.21	24.88	24.78	24.72	24.72	24.62	24.62	24.52	24.43	24.13	23.29	22.52	21.12	20.43	19.38	-1.9%
Combined Cycle	1.53	3.61	3.63	3.91	4.07	4.07	5.40	5.40	6.44	6.44	8.00	8.00	9.40	10.00	10.87	11.18	11.50	12.77	13.77	14.94	15.91	16.66	11.5%
Combustion Turbine/Diesel	4.92	5.54	6.25	6.59	8.31	9.35	10.03	11.42	12.44	13.55	14.02	15.17	15.83	16.69	17.42	17.78	18.40	19.02	19.54	19.77	20.14	20.34	6.7%
Nuclear Power	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.64	0.82	1.01	1.27	1.42	1.72	1.90	2.27	2.46	2.86	2.86	2.86	2.93	2.93	2.94	2.99	3.05	3.06	3.06	3.07	3.13	3.14	7.5%
Total Capability	56.24	58.92	59.79	60.62	60.27	60.38	62.42	63.50	64.42	65.83	67.80	68.95	70.97	72.44	73.94	74.58	75.28	76.34	77.11	77.13	77.88	77.81	1.5%
Cumulative Planned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.15	0.28	0.55	0.69	0.99	1.17	1.54	1.73	2.13	2.13	2.13	2.19	2.19	2.19	2.24	2.30	2.30	2.30	2.30	2.37	2.37	N/A
Total (planned)	0.00	2.19	2.32	2.59	2.73	3.03	3.21	3.58	3.77	4.17	4.17	4.17	4.24	4.24	4.24	4.28	4.34	4.34	4.34	4.34	4.41	4.41	N/A
Cumulative Unplanned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.09	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.04	0.06	0.39	0.54	0.54	1.88	1.88	2.91	2.91	4.47	4.47	5.87	6.48	7.34	7.66	7.97	9.24	10.24	11.41	12.39	13.13	N/A
Combustion Turbine/Diesel	0.00	0.61	1.33	1.67	3.39	4.42	5.11	6.50	7.52	8.62	9.10	10.25	10.91	11.76	12.50	12.86	13.48	14.10	14.62	14.85	15.22	15.42	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.10	N/A
Total (unplanned)	0.00	0.66	1.45	2.11	3.99	5.03	7.05	8.44	10.49	11.60	13.64	14.79	16.84	18.31	19.92	20.60	21.53	23.43	24.97	26.39	27.77	28.75	N/A
Cumulative Total Additions	0.00	2.85	3.77	4.70	6.73	8.06	10.26	12.02	14.26	15.77	17.81	18.96	21.08	22.55	24.15	24.88	25.88	27.78	29.32	30.74	32.18	33.16	N/A
Cumulative Retirements	0.00	0.20	0.24	0.35	2.72	3.95	4.11	4.79	6.11	6.21	6.28	6.28	6.38	6.38	6.48	6.57	6.86	7.70	8.48	9.88	10.57	11.61	N/A
Cogenerators 6/																							
Capacity																							
Coal	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.0%
Petroleum	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Natural Gas	7.39	7.89	7.94	8.00	8.04	8.08	8.13	8.17	8.22	8.28	8.33	8.39	8.45	8.51	8.57	8.65	8.74	8.82	8.92	9.00	9.07	9.15	1.0%
Other Gaseous Fuels	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3.7%
Renewables	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	1.6%
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
Total	8.02	8.54	8.58	8.64	8.69	8.73	8.78	8.83	8.88	8.94	8.99	9.05	9.12	9.18	9.24	9.32	9.41	9.50	9.60	9.68	9.75	9.83	0.9%

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Demand (billion kilowatthours)																							
Residential	88.76	93.27	95.31	97.15	98.75	100.45	102.41	104.11	105.77	107.83	110.20	112.18	114.13	116.09	118.13	119.95	121.73	123.46	125.15	126.83	128.69	130.40	1.8%
Commercial/Other	77.02	79.73	81.61	83.18	84.24	85.35	86.99	88.25	89.41	90.94	92.73	94.05	95.76	97.25	98.57	99.45	100.12	100.75	101.21	101.45	101.78	101.80	1.3%
Industrial	79.38	79.91	79.70	81.44	83.36	84.82	86.49	87.89	89.51	90.59	91.12	91.98	92.74	93.84	95.22	96.73	98.48	99.64	100.90	101.97	103.20	104.47	1.3%
Transportation	1.14	1.18	1.21	1.25	1.38	1.51	1.64	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.60	2.59	2.58	2.56	2.54	2.51	3.7%
Total Sales	246.30	254.09	257.84	263.02	267.73	272.12	277.52	281.99	286.55	291.31	296.09	300.37	304.88	309.53	314.38	318.67	322.92	326.45	329.83	332.81	336.21	339.19	1.5%
Net Energy for Load (billion kwh) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.30	0.33	0.36	0.39	0.42	0.45	0.49	0.53	0.57	0.62	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	25.4%
Gross Interregional Elec. Imports	1.10	0.41	1.91	2.21	2.68	2.77	2.66	2.81	2.66	3.02	2.97	2.86	2.74	2.60	2.28	2.32	2.07	2.10	1.84	1.77	1.57	1.47	1.3%
Gross Interregional Elec. Exports	3.68	3.55	2.82	1.09	0.65	0.40	0.64	0.68	0.94	0.69	0.62	0.57	0.57	0.53	0.46	0.35	0.40	0.44	0.21	0.09	0.14	0.20	-12.5%
Purchases from cogenerators 6/	18.31	19.30	19.34	19.57	19.77	19.98	20.21	20.44	20.67	20.93	21.18	21.44	21.72	22.02	22.32	22.64	22.94	23.25	23.56	23.82	24.08	24.26	1.3%
Util. Generation for Customers	239.52	253.12	254.66	257.78	261.53	265.47	271.13	275.37	280.17	284.21	288.80	292.96	297.38	301.83	306.65	310.47	314.72	318.08	321.32	324.12	327.66	330.76	1.5%
Total Net Energy for Load	255.24	268.99	272.75	278.10	282.95	287.40	292.90	297.45	302.04	306.90	311.71	316.01	320.59	325.25	330.12	334.40	338.66	342.32	345.85	348.96	352.50	355.62	1.5%
Generation by Fuel Type (billion kilowatthours)																							
Coal	100.50	105.11	106.43	107.80	98.02	99.30	99.30	98.80	98.85	98.90	98.94	98.99	99.03	99.08	99.12	99.15	99.18	99.25	99.37	99.53	99.73	99.96	0.0%
Petroleum	0.12	0.26	0.37	0.33	0.37	0.33	0.30	0.27	0.26	0.26	0.23	0.18	0.15	0.15	0.15	0.14	0.12	0.10	0.09	0.09	0.08	0.08	-1.9%
Natural Gas	99.64	112.95	112.21	113.41	126.59	128.72	134.05	137.52	141.92	145.24	149.78	153.92	158.21	162.67	167.49	171.31	175.40	178.74	181.88	184.55	187.77	190.65	3.0%
Nuclear	38.69	34.41	34.64	34.79	34.87	34.94	35.01	35.08	35.15	35.22	35.29	35.36	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	35.37	-0.4%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	1.05	1.33	2.13	2.93	3.38	4.29	4.84	6.58	7.13	8.29	8.24	8.20	8.30	8.26	8.23	8.52	8.62	8.60	8.58	8.56	8.68	8.67	10.1%
Total Generation	240.00	254.06	255.78	259.27	263.22	267.58	273.49	278.24	283.31	287.90	292.49	296.65	301.07	305.53	310.35	314.49	318.69	322.05	325.29	328.09	331.63	334.73	1.5%
Sales to Customers	239.52	253.12	254.66	257.78	261.53	265.47	271.13	275.37	280.17	284.21	288.80	292.96	297.38	301.83	306.65	310.47	314.72	318.08	321.32	324.12	327.66	330.76	1.5%
Generation for Own Use	0.47	0.94	1.12	1.49	1.69	2.11	2.36	2.87	3.14	3.69	3.69	3.69	3.69	3.69	3.69	4.02	3.97	3.97	3.97	3.97	3.97	3.97	10.1%
Cogenerators																							
Coal	2.91	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.85	2.85	2.85	2.85	-0.1%
Petroleum	1.45	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.36	1.36	1.36	1.36	1.36	-0.3%
Natural Gas	50.50	50.72	51.07	51.44	51.80	52.14	52.55	52.91	53.26	53.80	54.18	54.69	55.28	55.83	56.38	57.08	57.80	58.52	59.35	60.01	60.65	61.18	0.9%
Other Gaseous Fuels	0.14	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.32	0.32	0.32	0.33	4.0%
Renewable	0.69	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.69	0.70	0.71	0.72	0.72	0.73	0.74	0.76	0.77	0.78	0.78	0.79	0.80	0.81	0.7%
Other	1.31	1.37	1.37	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.38	1.38	1.39	1.39	1.39	1.40	1.40	1.40	1.41	1.41	1.41	1.41	0.4%
Total	57.00	57.16	57.52	57.90	58.28	58.63	59.07	59.45	59.81	60.37	60.76	61.29	61.89	62.45	63.02	63.74	64.48	65.22	66.07	66.74	67.40	67.95	0.8%
Sales to Utilities	18.31	19.30	19.34	19.57	19.77	19.98	20.21	20.44	20.67	20.93	21.18	21.44	21.72	22.02	22.32	22.64	22.94	23.25	23.56	23.82	24.08	24.26	1.3%
Generation for Own Use	38.70	37.86	38.19	38.33	38.51	38.66	38.86	39.01	39.14	39.44	39.58	39.85	40.17	40.43	40.70	41.10	41.54	41.97	42.50	42.92	43.33	43.69	0.6%
End-Use Prices (1998 cents per kilowatthour)																							
Residential	7.9	7.7	7.4	7.2	7.3	7.4	7.2	7.2	7.2	7.0	6.8	6.7	6.6	6.6	6.5	6.6	6.7	6.6	6.7	6.8	6.8	6.9	-0.6%
Commercial	6.5	6.4	6.1	6.0	6.0	6.1	5.9	5.9	6.0	5.8	5.6	5.6	5.5	5.4	5.4	5.5	5.5	5.5	5.5	5.6	5.6	5.7	-0.6%
Industrial	4.0	4.0	3.9	3.8	3.9	4.0	3.9	4.0	4.1	4.1	4.0	3.9	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9	4.0	0.0%
Transportation	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	-0.2%
All Sectors Average	6.2	6.1	5.9	5.8	5.8	5.9	5.7	5.8	5.8	5.7	5.5	5.5	5.4	5.4	5.3	5.4	5.4	5.4	5.5	5.5	5.5	5.7	-0.4%

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

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

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.12	1.15	1.17	1.21	1.26	1.31	1.32	1.33	1.34	1.35	1.35	1.35	1.34	1.35	1.35	1.37	1.38	1.38	1.38	1.39	1.39	1.39	1.0%
Natural Gas	0.08	0.15	0.15	0.17	0.19	0.20	0.22	0.27	0.31	0.35	0.35	0.43	0.46	0.47	0.51	0.57	0.66	0.68	0.73	0.75	0.75	0.76	10.6%
Oil	0.11	0.06	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-11.1%
Total	1.31	1.35	1.37	1.42	1.48	1.54	1.57	1.63	1.67	1.71	1.71	1.79	1.82	1.83	1.87	1.95	2.05	2.07	2.13	2.15	2.15	2.16	2.3%
Emissions(million short tons) 9/																							
Carbon Dioxide	125.55	130.46	132.34	136.66	142.33	147.39	149.77	153.83	156.74	159.22	159.40	163.91	165.02	166.19	168.57	173.77	179.93	181.47	185.05	186.36	186.67	187.16	1.8%
Sulfur Dioxide	1.48	1.27	1.05	0.79	0.64	0.63	0.60	0.58	0.57	0.57	0.61	0.53	0.51	0.51	0.52	0.51	0.52	0.53	0.52	0.55	0.54	0.56	-4.4%
Nitrogen Oxide	0.30	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.9%

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	27.69	27.66	27.66	27.66	27.66	27.66	27.66	27.66	27.66	27.70	27.70	28.44	28.89	29.26	29.66	30.07	30.31	30.44	30.79	30.65	31.38	31.65	0.6%
Other Fossil Steam 2/	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Combined Cycle	0.31	0.31	0.31	0.31	0.31	0.31	0.42	0.42	0.42	0.42	1.78	2.48	2.97	3.18	3.67	3.91	4.06	4.16	4.47	4.84	5.03	5.12	13.5%
Combustion Turbine/Diesel	7.56	10.33	11.54	12.75	14.08	15.28	16.94	18.36	20.35	21.43	21.82	21.94	22.10	22.25	22.59	22.39	22.44	22.74	22.04	22.32	22.53	22.59	5.1%
Nuclear Power	12.72	12.77	12.77	12.77	12.77	12.77	12.77	12.00	12.00	12.00	12.00	12.00	11.22	11.22	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	-1.1%
Pumped Storage/Other 3/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.82	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.87	0.88	0.88	0.92	0.93	0.6%
Total Capability	53.14	55.95	57.17	58.37	59.70	60.90	62.67	63.32	65.31	66.44	68.19	69.74	70.07	70.80	70.88	71.32	71.79	72.32	72.29	72.81	73.96	74.40	1.5%
Cumulative Planned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Total (planned)	0.00	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	N/A
Cumulative Unplanned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.78	1.23	1.60	2.00	2.42	2.66	2.79	3.15	3.70	4.43	4.70	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10	1.47	2.17	2.66	2.87	3.36	3.59	3.75	3.85	4.15	4.53	4.72	4.81	4.81	N/A
Combustion Turbine/Diesel	0.00	2.35	3.56	4.78	6.10	7.30	9.10	10.59	12.59	13.67	14.06	14.18	14.33	14.48	14.83	14.89	14.94	15.24	15.66	15.94	16.14	16.20	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.09	0.09	N/A
Total (unplanned)	0.00	2.35	3.56	4.78	6.10	7.30	9.21	10.71	12.70	13.82	15.58	17.13	18.23	18.96	20.19	20.91	21.37	21.91	23.00	24.22	25.37	25.81	N/A
Cumulative Total Additions	0.00	2.53	3.74	4.96	6.28	7.48	9.39	10.89	12.88	14.00	15.76	17.31	18.41	19.14	20.37	21.09	21.55	22.09	23.18	24.40	25.55	25.99	N/A
Cumulative Retirements	0.00	0.03	0.03	0.04	0.04	0.04	0.17	1.02	1.02	1.02	1.02	1.02	1.80	1.80	2.95	3.22	3.22	3.22	4.34	5.04	5.04	5.04	N/A
Cogenerators 6/																							
Capacity																							
Coal	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.0%
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Natural Gas	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	1.1%
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.7%
Renewables	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	1.5%
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
Total	1.39	1.41	1.42	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.48	1.49	1.50	1.51	1.51	1.53	1.54	1.54	1.55	1.56	1.57	1.58	0.6%

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.47	1.60	1.68	1.74	1.82	1.89	1.91	1.93	1.95	1.97	1.98	2.00	2.04	2.06	2.11	2.14	2.17	2.19	2.20	2.19	2.23	2.25	2.0%
Natural Gas	0.07	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.11	1.8%
Oil	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.5%
Total	1.56	1.63	1.70	1.76	1.84	1.91	1.93	1.95	1.97	1.99	2.02	2.06	2.10	2.13	2.20	2.23	2.27	2.29	2.31	2.31	2.35	2.37	1.9%
Emissions(million short tons) 9/																							
Carbon Dioxide	150.59	167.85	175.06	181.30	189.73	196.68	198.88	201.10	203.04	204.76	207.64	210.29	214.25	217.31	223.67	227.06	230.50	232.36	234.07	233.48	237.58	239.92	2.1%
Sulfur Dioxide	1.02	0.97	1.06	1.08	1.13	1.17	1.17	1.18	1.06	0.84	1.21	0.80	0.80	0.81	0.82	0.83	0.83	0.84	0.84	0.83	0.84	0.87	-0.7%
Nitrogen Oxide	0.47	0.40	0.43	0.44	0.46	0.48	0.49	0.49	0.50	0.51	0.51	0.51	0.51	0.51	0.52	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.6%

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	20.86	21.35	21.35	21.35	20.73	20.73	20.73	20.70	20.70	20.70	20.71	20.72	20.73	20.74	20.76	20.78	20.80	20.83	20.85	20.88	20.90	20.90	0.0%
Other Fossil Steam 2/	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	N/A
Combined Cycle	0.43	0.43	0.43	0.43	0.43	0.88	0.92	1.35	1.35	1.68	2.10	2.47	2.87	3.16	3.39	3.70	4.01	4.43	4.59	4.77	4.86	4.95	11.8%
Combustion Turbine/Diesel	6.07	6.14	6.30	6.84	7.31	7.63	8.29	8.94	9.40	9.94	10.06	10.14	10.43	10.58	11.03	11.26	11.82	12.33	12.74	12.94	13.24	13.42	3.7%
Nuclear Power	3.75	3.79	3.79	3.79	3.32	2.54	2.54	2.54	2.54	2.54	2.54	1.96	1.96	1.96	1.58	1.04	1.04	1.04	1.04	1.04	1.04	1.04	-5.7%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	3.74	4.15	4.32	4.51	4.52	4.52	4.53	4.54	4.55	4.56	4.56	4.57	4.58	4.58	4.58	4.59	4.59	4.60	4.60	4.60	4.60	4.61	0.9%
Total Capability	35.47	36.47	36.81	37.53	36.92	36.92	37.63	38.68	39.15	40.04	40.57	40.46	41.17	41.63	41.94	41.97	42.86	43.82	44.42	44.82	45.25	45.54	1.1%
Cumulative Planned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.40	0.48	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	N/A
Total (planned)	0.00	0.41	0.48	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	N/A
Cumulative Unplanned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.06	0.08	0.10	0.13	0.15	0.18	0.20	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.45	0.49	0.92	0.92	1.25	1.67	2.04	2.44	2.73	2.96	3.27	3.58	4.00	4.16	4.34	4.43	4.52	N/A
Combustion Turbine/Diesel	0.00	0.03	0.20	0.73	1.21	1.53	2.19	2.88	3.34	3.88	3.99	4.07	4.37	4.52	4.97	5.20	5.76	6.27	6.68	6.88	7.18	7.36	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.00	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	N/A
Total (unplanned)	0.00	0.03	0.30	0.84	1.32	2.10	2.81	3.93	4.40	5.28	5.82	6.29	7.00	7.46	8.16	8.72	9.61	10.57	11.17	11.57	11.99	12.28	N/A
Cumulative Total Additions	0.00	0.44	0.78	1.50	1.98	2.75	3.47	4.59	5.06	5.94	6.48	6.94	7.66	8.11	8.81	9.38	10.27	11.22	11.83	12.23	12.65	12.94	N/A
Cumulative Retirements	0.00	0.00	0.00	0.00	1.09	1.87	1.87	1.94	1.94	1.94	1.94	2.52	2.52	2.52	2.90	3.44	3.44	3.44	3.44	3.44	3.44	3.44	N/A
Cogenerators 6/																							
Capacity																							
Coal	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.0%
Petroleum	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.0%
Other Gaseous Fuels	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	3.7%
Renewables	0.23	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.31	0.31	1.4%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0%
Total	0.93	0.95	0.96	0.97	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.01	1.02	1.03	1.03	1.03	1.04	1.04	1.05	1.05	0.6%

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Demand (billion kilowatthours)																							
Residential	50.47	54.85	55.57	56.21	56.85	57.47	58.37	59.00	59.65	60.26	60.98	61.64	62.38	63.18	63.88	64.59	65.21	65.85	66.49	67.16	67.92	68.71	1.4%
Commercial/Other	36.94	40.01	40.69	41.25	41.70	42.20	42.92	43.42	43.92	44.45	45.02	45.50	46.18	46.79	47.25	47.63	47.84	48.07	48.24	48.37	48.52	48.63	1.3%
Industrial	56.13	57.76	57.77	58.80	60.23	61.34	62.55	63.25	64.07	64.73	65.14	65.78	66.27	67.06	68.03	69.06	69.97	70.50	71.17	71.91	72.83	73.81	1.3%
Transportation	0.79	0.85	0.87	0.89	0.98	1.07	1.15	1.22	1.29	1.35	1.42	1.48	1.55	1.61	1.67	1.72	1.75	1.74	1.72	1.69	1.67	1.64	3.4%
Total Sales	144.32	153.47	154.89	157.15	159.77	162.08	164.99	166.88	168.92	170.79	172.56	174.41	176.37	178.63	180.83	183.00	184.77	186.15	187.61	189.14	190.94	192.78	1.3%
Net Energy for Load (billion kwh) 7/																							
Gross International Imports	12.59	7.76	7.18	6.38	6.38	6.38	2.00	2.00	2.00	1.84	1.68	1.52	1.36	1.20	1.04	0.88	0.72	0.56	0.40	0.24	0.08	0.00	N/A
Gross International Exports	1.53	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.83	1.67	1.51	1.35	1.19	1.03	0.87	0.72	0.56	0.40	0.24	0.08	0.00	N/A
Gross Interregional Elec. Imports	12.05	9.53	8.71	8.38	8.39	8.39	5.17	4.72	4.98	4.30	3.75	3.47	3.25	2.69	2.24	1.98	2.04	1.59	1.49	1.16	0.99	1.05	-10.5%
Gross Interregional Elec. Exports	27.42	26.49	26.45	26.47	25.19	24.49	19.71	20.00	19.59	19.31	19.13	18.45	17.22	17.67	16.90	16.01	12.13	13.12	13.09	12.93	11.44	10.90	-4.1%
Purchases from cogenerators 6/	0.30	0.19	0.20	0.23	0.25	0.28	0.31	0.33	0.36	0.39	0.41	0.44	0.46	0.49	0.52	0.55	0.57	0.60	0.63	0.66	0.68	0.71	4.0%
Util. Generation for Customers	162.77	171.85	175.01	178.11	179.05	181.43	184.01	186.65	188.02	190.19	192.76	194.90	195.40	197.52	198.56	199.38	205.58	208.15	209.57	211.17	211.54	212.62	1.2%
Total Net Energy for Load	158.76	160.86	162.66	164.64	166.90	170.00	169.79	171.71	173.78	175.57	177.80	180.37	181.90	183.03	184.43	185.90	196.08	197.23	198.60	200.06	201.77	203.49	1.1%
Generation by Fuel Type (billion kilowatthours)																							
Coal	121.14	126.87	129.75	133.53	135.16	141.62	144.76	145.45	146.00	146.45	147.01	147.42	148.47	148.60	149.03	149.45	150.52	150.62	150.91	151.21	151.51	151.80	1.0%
Petroleum	0.94	0.40	0.35	0.29	0.27	0.27	0.34	0.28	0.31	0.31	0.32	0.29	0.29	0.28	0.28	0.31	0.31	0.27	0.27	0.25	0.25	0.28	-5.3%
Natural Gas	1.79	2.30	1.44	1.05	0.96	2.64	3.43	5.43	6.12	7.83	9.73	12.20	15.33	17.31	19.66	22.72	29.19	31.67	32.79	34.10	34.16	34.92	14.5%
Nuclear	25.41	26.28	26.28	26.28	25.68	19.87	18.40	18.36	18.41	18.39	18.46	17.70	13.97	13.97	12.22	9.50	8.15	8.15	8.15	8.15	8.15	8.15	-5.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	14.48	17.97	19.15	19.83	19.86	19.90	19.95	20.00	20.04	20.09	20.13	20.16	20.20	20.22	20.25	20.27	20.29	20.31	20.33	20.33	20.34	20.35	1.6%
Total Generation	163.76	173.81	176.96	180.98	181.93	184.30	186.88	189.52	190.89	193.06	195.64	197.77	198.27	200.39	201.44	202.25	208.45	211.03	212.44	214.05	214.41	215.50	1.3%
Sales to Customers	162.77	171.85	175.01	178.11	179.05	181.43	184.01	186.65	188.02	190.19	192.76	194.90	195.40	197.52	198.56	199.38	205.58	208.15	209.57	211.17	211.54	212.62	1.2%
Generation for Own Use	0.99	1.95	1.95	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	5.0%
Cogenerators																							
Coal	2.88	2.83	2.83	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.82	2.82	2.82	2.82	-0.1%
Petroleum	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.9%
Natural Gas	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.1%
Other Gaseous Fuels	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	4.0%
Renewable	0.99	0.99	1.01	1.03	1.05	1.08	1.10	1.11	1.13	1.14	1.16	1.17	1.18	1.19	1.21	1.23	1.24	1.26	1.27	1.28	1.29	1.30	1.3%
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	3.98	3.95	3.98	4.00	4.03	4.05	4.07	4.09	4.10	4.12	4.13	4.15	4.15	4.17	4.18	4.20	4.22	4.23	4.24	4.26	4.27	4.29	0.3%
Sales to Utilities	0.30	0.19	0.20	0.23	0.25	0.28	0.31	0.33	0.36	0.39	0.41	0.44	0.46	0.49	0.52	0.55	0.57	0.60	0.63	0.66	0.68	0.71	4.0%
Generation for Own Use	3.67	3.76	3.78	3.78	3.77	3.77	3.76	3.75	3.74	3.73	3.72	3.71	3.69	3.68	3.66	3.66	3.65	3.63	3.62	3.60	3.59	3.58	-0.1%
End-Use Prices (1998 cents per kilowatthour)																							
Residential	7.3	6.9	6.9	6.8	6.8	6.8	6.5	6.5	6.5	6.5	6.5	6.6	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.1	-0.8%
Commercial	6.5	6.1	6.1	6.0	6.0	5.9	5.7	5.7	5.7	5.7	5.7	5.7	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.3	-0.9%
Industrial	4.3	4.1	4.1	4.0	4.0	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.4	3.4	-1.1%
Transportation	5.6	5.3	5.2	5.2	5.1	5.0	4.9	4.9	4.9	4.8	4.8	4.8	4.7	4.6	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.3	-1.3%
All Sectors Average	5.9	5.6	5.6	5.5	5.5	5.5	5.2	5.2	5.2	5.2	5.2	5.3	5.3	5.1	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	-0.9%

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

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

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

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

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

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

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

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

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

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

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

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Electricity Generating Capacity 1/ (gigawatts)																								
Coal Steam	9.46	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.75	9.76	9.78	9.82	9.90	9.97	10.07	0.3%	
Other Fossil Steam 2/	14.27	13.79	13.79	13.79	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	-0.8%	
Combined Cycle	4.42	4.47	4.47	5.03	5.48	6.47	7.99	9.27	10.01	10.88	11.44	12.13	12.83	14.02	15.26	16.47	17.07	17.91	18.88	19.44	19.85	20.24	7.2%	
Combustion Turbine/Diesel	5.52	5.70	5.71	5.71	6.30	6.18	6.11	6.14	6.46	6.55	6.69	6.57	6.92	7.13	7.32	7.78	7.88	7.95	8.17	8.21	8.38	8.51	2.0%	
Nuclear Power	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.06	3.06	3.06	3.06	3.06	3.06	2.37	1.68	1.68	1.68	0.84	0.84	0.84	0.84	0.84	-6.7%	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	0.54	0.54	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	1.4%	
Total Capability	38.10	38.14	38.20	38.77	38.04	38.92	40.38	40.87	41.95	42.91	43.63	44.19	45.25	45.96	46.70	48.40	49.12	49.21	50.45	51.13	51.78	52.43	1.5%	
Cumulative Planned Additions 5/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Combined Cycle	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total (planned)	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	N/A	
Cumulative Unplanned Additions 5/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.08	0.16	0.23	0.33	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Combined Cycle	0.00	0.00	0.00	0.10	0.55	1.50	3.03	4.31	5.05	5.92	6.48	7.17	7.87	9.05	10.29	11.51	12.11	12.95	13.92	14.48	14.89	15.28	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.01	0.60	0.63	0.65	0.67	0.99	1.11	1.25	1.39	1.85	2.06	2.25	2.71	2.81	2.88	3.10	3.14	3.31	3.45	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	0.00	0.00	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.17	0.18	0.18	0.20	N/A	
Total (unplanned)	0.00	0.00	0.06	0.19	1.22	2.22	3.76	5.08	6.15	7.14	7.86	8.69	9.85	11.26	12.69	14.39	15.11	16.04	17.28	17.96	18.61	19.25	N/A	
Cumulative Total Additions	0.00	0.00	0.06	0.64	1.68	2.67	4.22	5.53	6.61	7.60	8.31	9.15	10.31	11.71	13.15	14.85	15.56	16.49	17.73	18.41	19.07	19.71	N/A	
Cumulative Retirements	0.00	0.32	1.48	1.49	3.26	3.40	3.48	4.31	4.31	4.34	4.34	4.60	4.71	5.40	6.09	6.09	6.09	6.93	6.93	6.93	6.93	6.93	N/A	
Cogenerators 6/																								
Capacity																								
Coal	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	N/A	
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%	
Natural Gas	1.16	1.17	1.17	1.17	1.18	1.18	1.18	1.19	1.19	1.20	1.20	1.20	1.21	1.21	1.22	1.22	1.23	1.23	1.24	1.25	1.25	1.26	0.4%	
Other Gaseous Fuels	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.7%	
Renewables	0.50	0.50	0.51	0.52	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.67	0.68	0.68	1.5%	
Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3.0%	
Total	2.38	2.40	2.42	2.43	2.45	2.46	2.48	2.49	2.51	2.52	2.53	2.55	2.56	2.57	2.58	2.60	2.62	2.63	2.65	2.66	2.67	2.69	0.5%	

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Demand (billion kilowatthours)																							
Residential	84.49	85.67	87.57	89.32	91.17	93.03	94.82	96.49	98.22	100.12	102.05	103.82	105.37	106.93	108.50	110.00	111.61	113.02	114.52	115.96	117.58	119.22	1.6%
Commercial/Other	72.14	75.65	77.29	78.79	80.19	81.62	83.13	84.49	85.86	87.43	89.03	90.37	92.01	93.46	94.66	95.63	96.51	97.29	98.03	98.57	99.18	99.60	1.5%
Industrial	17.08	14.15	14.17	14.42	14.78	15.07	15.38	15.62	15.85	16.08	16.24	16.45	16.65	16.91	17.22	17.52	17.82	18.01	18.26	18.49	18.76	19.03	0.5%
Transportation	0.84	0.88	0.90	0.93	1.03	1.13	1.23	1.32	1.40	1.48	1.56	1.64	1.72	1.80	1.88	1.96	2.01	2.01	2.00	1.99	1.97	1.95	3.9%
Total Sales	174.54	176.34	179.93	183.46	187.16	190.85	194.56	197.92	201.32	205.10	208.88	212.29	215.76	219.11	222.26	225.12	227.94	230.32	232.81	235.00	237.49	239.80	1.5%
Net Energy for Load (billion kwh) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Elec. Imports	22.40	28.51	32.42	35.18	37.40	36.68	31.99	29.14	27.95	27.36	29.15	28.00	27.56	26.00	25.59	20.86	18.40	19.36	17.60	16.06	14.45	13.60	-2.2%
Gross Interregional Elec. Exports	5.56	0.68	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-29.6%
Purchases from cogenerators 6/	8.86	10.02	10.04	10.10	10.16	10.23	10.27	10.32	10.37	10.42	10.47	10.52	10.58	10.63	10.69	10.75	10.80	10.86	10.92	10.97	11.03	11.08	1.0%
Util. Generation for Customers	168.47	149.73	148.90	149.75	151.31	155.73	164.09	170.25	174.82	179.23	181.30	185.87	189.80	194.67	198.21	205.65	210.86	212.39	216.68	220.36	224.53	227.77	1.4%
Total Net Energy for Load	194.17	187.58	191.35	195.02	198.88	202.63	206.35	209.71	213.15	217.01	220.92	224.39	227.93	231.30	234.48	237.25	240.06	242.60	245.20	247.39	250.00	252.45	1.2%
Generation by Fuel Type (billion kilowatthours)																							
Coal	60.33	66.51	66.77	67.81	69.27	70.31	70.24	70.14	70.04	70.34	70.36	69.49	69.36	69.34	69.67	69.98	70.40	70.78	71.12	71.71	72.41	73.46	0.9%
Petroleum	40.92	26.36	26.81	23.47	19.37	16.83	16.20	17.96	17.54	16.61	15.65	14.12	12.75	12.57	12.25	12.74	13.59	12.96	12.06	11.74	11.84	11.60	-5.6%
Natural Gas	32.61	24.61	22.47	25.35	29.68	35.55	44.58	53.09	59.58	64.95	67.29	74.20	79.58	87.91	95.98	105.25	109.22	115.18	122.09	125.34	128.58	131.28	6.5%
Nuclear	31.11	29.10	29.15	29.18	29.05	28.92	28.79	24.58	23.04	23.04	23.04	23.04	20.43	20.43	15.19	12.56	12.56	8.37	6.26	6.28	6.28	6.28	-7.0%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	4.00	3.65	4.20	4.43	4.41	4.59	4.76	4.94	5.09	4.76	5.43	5.49	5.54	4.90	5.59	5.59	5.56	5.58	5.62	5.75	5.88	5.61	1.6%
Total Generation	168.98	150.23	149.41	150.25	151.78	156.20	164.56	170.72	175.30	179.70	181.77	186.34	190.27	195.15	198.68	206.12	211.33	212.86	217.15	220.83	225.00	228.24	1.4%
Sales to Customers	168.47	149.73	148.90	149.75	151.31	155.73	164.09	170.25	174.82	179.23	181.30	185.87	189.80	194.67	198.21	205.65	210.86	212.39	216.68	220.36	224.53	227.77	1.4%
Generation for Own Use	0.50	0.50	0.50	0.50	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	-0.3%
Cogenerators																							
Coal	4.87	4.68	4.69	4.71	4.73	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	-0.1%
Petroleum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.9%
Natural Gas	5.26	6.62	6.64	6.65	6.67	6.69	6.71	6.73	6.74	6.77	6.79	6.81	6.84	6.87	6.90	6.93	6.97	7.00	7.04	7.08	7.11	7.13	1.4%
Other Gaseous Fuels	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	4.0%
Renewable	3.09	2.67	2.73	2.79	2.85	2.91	2.97	3.01	3.06	3.10	3.14	3.18	3.21	3.24	3.28	3.33	3.38	3.42	3.45	3.48	3.52	3.56	0.6%
Other	3.34	3.51	3.51	3.51	3.51	3.51	3.52	3.52	3.52	3.53	3.53	3.54	3.55	3.55	3.56	3.57	3.58	3.59	3.60	3.60	3.61	3.62	0.4%
Total	16.61	17.52	17.62	17.71	17.81	17.90	17.99	18.05	18.12	18.20	18.26	18.33	18.40	18.46	18.54	18.64	18.73	18.81	18.89	18.96	19.04	19.11	0.6%
Sales to Utilities	8.86	10.02	10.04	10.10	10.16	10.23	10.27	10.32	10.37	10.42	10.47	10.52	10.58	10.63	10.69	10.75	10.80	10.86	10.92	10.97	11.03	11.08	1.0%
Generation for Own Use	7.75	7.51	7.58	7.61	7.65	7.68	7.71	7.73	7.75	7.78	7.78	7.81	7.82	7.83	7.85	7.89	7.93	7.95	7.97	7.99	8.01	8.03	0.2%
End-Use Prices (1998 cents per kilowatthour)																							
Residential	7.7	7.9	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.5	7.6	7.6	7.6	7.6	7.5	7.5	7.4	-0.1%
Commercial	6.0	6.3	6.2	6.1	6.0	6.0	5.9	5.9	5.9	5.9	5.8	5.7	5.7	5.6	5.6	5.6	5.5	5.6	5.5	5.4	5.3	5.3	-0.6%
Industrial	4.6	4.8	4.7	4.7	4.6	4.6	4.5	4.6	4.6	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.1	-0.5%
Transportation	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	-0.6%
All Sectors Average	6.7	6.9	6.8	6.7	6.7	6.7	6.6	6.6	6.7	6.6	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	-0.3%

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Demand (billion kilowatthours)																							
Residential	213.08	216.38	220.49	224.25	228.26	232.22	236.03	239.57	243.23	247.25	251.39	255.14	258.51	261.89	265.29	268.61	272.01	275.05	278.16	281.16	284.71	288.24	1.4%
Commercial/Other	153.58	156.61	160.20	163.47	166.55	169.71	173.08	176.15	179.17	182.59	186.13	189.10	192.72	195.91	198.57	200.77	202.61	204.32	205.86	206.98	208.29	209.19	1.4%
Industrial	203.86	199.36	199.59	203.22	208.22	212.28	216.72	220.02	223.40	226.54	228.79	231.74	234.46	238.13	242.37	246.66	250.82	253.57	257.00	260.21	263.99	267.83	1.2%
Transportation	2.72	2.76	2.84	2.91	3.24	3.55	3.85	4.11	4.35	4.59	4.84	5.09	5.33	5.57	5.81	6.04	6.17	6.15	6.12	6.07	6.00	5.93	3.6%
Total Sales	573.25	575.12	583.12	593.85	606.27	617.76	629.68	639.85	650.15	660.98	671.15	681.07	691.02	701.50	712.05	722.07	731.62	739.09	747.14	754.43	762.99	771.18	1.4%
Net Energy for Load (billion kwh) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross Interregional Elec. Imports	42.71	34.92	32.72	33.81	31.65	27.59	26.84	24.41	23.89	21.89	21.69	21.89	22.51	22.49	21.32	22.09	22.24	22.58	21.54	20.08	22.11	21.58	-3.1%
Gross Interregional Elec. Exports	60.68	77.63	80.53	78.62	79.08	79.39	74.05	69.88	69.50	67.76	69.69	65.28	62.69	60.14	57.31	53.45	49.09	47.97	43.85	40.62	38.56	38.09	-2.1%
Purchases from cogenerators 6/	6.22	7.05	7.12	7.35	7.58	7.81	8.00	8.19	8.37	8.54	8.75	8.93	9.15	9.35	9.57	9.80	10.03	10.25	10.47	10.69	10.92	11.15	2.7%
Util. Generation for Customers	630.28	645.31	658.40	666.31	681.44	697.27	704.81	713.25	723.66	734.62	746.80	752.13	758.84	766.81	775.58	780.88	785.81	792.02	797.22	802.91	807.67	816.18	1.2%
Total Net Energy for Load	618.52	609.65	617.70	628.85	641.59	653.27	665.60	675.97	686.42	697.29	707.56	717.68	727.81	738.51	749.16	759.31	769.00	776.88	785.38	793.06	802.14	810.82	1.2%
Generation by Fuel Type (billion kilowatthours)																							
Coal	372.53	397.19	411.52	421.04	436.19	441.78	445.52	449.49	451.62	452.56	456.96	452.00	453.50	455.53	458.44	458.72	465.22	468.45	476.67	482.46	488.25	498.71	1.3%
Petroleum	6.05	3.16	2.31	1.81	1.77	1.26	1.42	1.44	1.51	1.17	1.08	0.98	1.02	0.95	0.86	1.22	1.56	1.18	1.09	1.43	1.31	1.30	-6.8%
Natural Gas	12.04	19.54	17.19	15.89	16.13	25.05	33.10	42.09	52.26	63.09	71.02	82.73	92.12	97.92	104.99	114.53	123.73	128.91	133.69	140.57	143.76	143.38	11.9%
Nuclear	204.12	190.37	190.84	191.19	191.32	191.37	185.96	181.83	179.62	179.36	179.16	177.14	173.52	173.22	172.82	168.52	157.68	155.04	147.14	140.58	136.27	134.57	-1.9%
Pumped Storage/Other 3/	-1.99	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-10.8%
Renewable 4/	37.95	35.65	37.13	36.96	36.61	38.39	39.40	38.98	39.21	39.01	39.16	39.85	39.26	39.77	39.05	38.46	38.19	39.01	39.21	38.44	38.66	38.80	0.1%
Total Generation	630.70	645.74	658.82	666.73	681.87	697.69	705.23	713.67	724.07	735.03	747.21	752.54	759.25	767.22	775.99	781.28	786.22	792.43	797.63	803.32	808.08	816.59	1.2%
Sales to Customers	630.28	645.31	658.40	666.31	681.44	697.27	704.81	713.25	723.66	734.62	746.80	752.13	758.84	766.81	775.58	780.88	785.81	792.02	797.22	802.91	807.67	816.18	1.2%
Generation for Own Use	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	-0.2%
Cogenerators																							
Coal	7.92	8.11	8.14	8.21	8.25	8.30	8.30	8.29	8.29	8.27	8.29	8.27	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.27	8.27	8.27	0.2%
Petroleum	0.77	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.93	0.94	0.94	0.95	0.96	0.96	0.97	0.98	0.98	0.99	1.00	1.2%
Natural Gas	2.27	2.77	2.79	2.81	2.83	2.85	2.87	2.89	2.91	2.94	2.96	2.99	3.02	3.05	3.08	3.12	3.16	3.20	3.25	3.28	3.32	3.35	1.8%
Other Gaseous Fuels	0.67	1.25	1.25	1.25	1.26	1.27	1.28	1.29	1.29	1.33	1.33	1.35	1.38	1.40	1.41	1.45	1.47	1.49	1.53	1.55	1.57	1.58	4.0%
Renewable	20.04	18.66	19.08	19.45	19.88	20.27	20.67	20.98	21.28	21.58	21.82	22.11	22.28	22.51	22.80	23.14	23.48	23.70	23.91	24.13	24.38	24.66	0.9%
Other	0.86	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.4%
Total	32.53	32.59	33.06	33.52	34.02	34.48	34.93	35.27	35.59	35.94	36.23	36.55	36.81	37.10	37.43	37.87	38.27	38.56	38.87	39.14	39.46	39.79	0.9%
Sales to Utilities	6.22	7.05	7.12	7.35	7.58	7.81	8.00	8.19	8.37	8.54	8.75	8.93	9.15	9.35	9.57	9.80	10.03	10.25	10.47	10.69	10.92	11.15	2.7%
Generation for Own Use	26.32	25.53	25.94	26.17	26.44	26.68	26.93	27.08	27.22	27.40	27.48	27.62	27.67	27.75	27.87	28.06	28.24	28.31	28.40	28.45	28.54	28.64	0.4%
End-Use Prices (1998 cents per kilowatthour)																							
Residential	7.1	7.0	6.9	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.7	-0.2%
Commercial	6.2	6.1	6.0	5.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	-0.3%
Industrial	4.0	4.0	3.9	3.9	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.6	3.5	3.6	-0.5%
Transportation	4.6	4.8	4.7	4.7	4.6	4.6	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	-0.6%
All Sectors Average	5.7	5.7	5.6	5.5	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.4	5.4	5.4	-0.3%

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	27.53	27.53	27.53	27.53	27.53	27.04	27.04	27.04	26.51	26.03	26.03	26.03	26.00	25.98	25.99	26.00	26.03	26.06	26.04	26.11	26.19	26.19	-0.2%
Other Fossil Steam 2/	30.58	30.58	30.50	30.42	29.36	28.49	27.53	26.92	26.61	26.58	26.58	26.58	26.58	26.58	26.34	26.34	26.34	26.34	26.34	26.34	26.34	26.34	-0.7%
Combined Cycle	1.30	1.74	2.16	3.50	3.50	4.58	5.48	6.29	7.26	8.19	9.20	9.68	10.09	10.40	11.20	12.08	13.10	14.19	14.91	15.50	16.35	16.72	12.3%
Combustion Turbine/Diesel	5.19	5.40	6.07	6.07	7.39	7.87	9.01	9.19	10.16	11.25	11.67	12.21	12.99	13.90	14.58	15.22	16.28	16.80	17.63	18.05	18.63	18.86	6.0%
Nuclear Power	5.95	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	5.20	4.26	4.26	4.26	3.40	3.40	3.40	-2.5%
Pumped Storage/Other 3/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	2.84	2.84	2.92	2.92	2.93	2.93	2.95	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07	0.3%
Total Capability	73.90	74.63	75.72	76.98	77.24	77.46	78.54	78.94	80.04	81.58	83.02	84.04	85.19	86.44	87.90	88.36	89.52	91.17	92.76	92.90	94.40	95.09	1.2%
Cumulative Planned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	N/A
Combustion Turbine/Diesel	0.00	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total (planned)	0.00	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	N/A
Cumulative Unplanned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.07	0.10	0.14	0.21	0.29	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.42	1.76	1.76	2.84	3.74	4.56	5.52	6.46	7.46	7.94	8.35	8.66	9.46	10.34	11.36	12.45	13.17	13.76	14.61	14.98	N/A
Combustion Turbine/Diesel	0.00	0.04	0.71	0.71	2.18	2.66	3.85	4.14	5.11	6.25	6.67	7.21	7.98	8.90	9.57	10.22	11.27	11.80	12.63	13.05	13.62	13.85	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable 4/	0.00	0.00	0.07	0.08	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	N/A
Total (unplanned)	0.00	0.04	1.20	2.54	4.02	5.60	7.69	8.81	10.75	12.83	14.27	15.30	16.49	17.73	19.23	20.77	22.87	24.51	26.10	27.16	28.66	29.35	N/A
Cumulative Total Additions	0.00	0.64	1.81	3.15	4.63	6.20	8.30	9.42	11.36	13.44	14.88	15.90	17.10	18.34	19.84	21.38	23.48	25.12	26.71	27.77	29.27	29.96	N/A
Cumulative Retirements	0.00	0.00	0.08	0.16	1.37	2.79	3.88	4.60	5.44	5.99	5.99	5.99	6.02	6.02	6.06	7.14	8.08	8.08	8.08	8.99	8.99	8.99	N/A
Cogenerators 6/																							
Capacity																							
Coal	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.0%
Petroleum	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Natural Gas	3.64	3.77	4.59	4.63	4.65	4.68	4.72	4.75	4.78	4.82	4.85	4.89	4.93	4.97	5.01	5.06	5.12	5.18	5.24	5.30	5.35	5.40	1.8%
Other Gaseous Fuels	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.7%
Renewables	1.14	1.16	1.19	1.21	1.25	1.28	1.31	1.33	1.36	1.38	1.40	1.43	1.44	1.46	1.48	1.50	1.53	1.55	1.57	1.58	1.60	1.63	1.6%
Other	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%
Total	5.45	5.60	6.45	6.51	6.57	6.63	6.70	6.75	6.81	6.87	6.93	6.99	7.04	7.10	7.16	7.24	7.33	7.40	7.49	7.56	7.63	7.70	1.6%

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

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

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Electricity Generating Capacity 1/ (gigawatts)																								
Coal Steam	11.61	11.61	11.61	11.61	11.61	11.61	11.62	11.65	11.68	11.68	11.70	11.73	11.79	11.80	11.84	11.88	11.94	12.01	12.09	12.16	12.27	12.37	0.3%	
Other Fossil Steam 2/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	N/A	
Combined Cycle	1.78	2.13	2.48	3.68	4.80	6.71	8.34	9.63	9.63	9.68	9.81	10.02	10.05	10.13	10.23	10.60	10.78	11.15	11.32	11.95	12.60	12.95	9.4%	
Combustion Turbine/Diesel	1.53	1.88	2.40	2.47	2.95	3.29	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.73	3.74	3.74	3.74	4.2%	
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	N/A	
Pumped Storage/Other 3/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	35.51	35.50	35.63	35.69	35.72	35.74	35.76	35.78	35.80	35.92	35.98	36.00	36.04	36.08	36.15	36.31	36.35	36.40	36.52	36.61	36.64	36.85	0.2%	
Total Capability	52.63	53.34	54.32	55.66	57.29	59.56	61.53	62.86	62.92	63.08	63.29	63.56	63.68	63.82	64.03	64.60	64.88	65.36	65.87	66.67	67.46	68.11	1.2%	
Cumulative Planned Additions 5/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Combined Cycle	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A	
Total (planned)	0.00	0.10	0.10	0.10	0.10	0.12	0.12	0.12	0.13	0.14	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A	
Cumulative Unplanned Additions 5/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.07	0.09	0.12	0.17	0.19	0.23	0.26	0.33	0.40	0.48	0.55	0.65	0.76	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Combined Cycle	0.00	0.26	0.61	1.81	2.93	4.84	6.47	7.75	7.75	7.80	7.94	8.15	8.18	8.26	8.36	8.73	8.91	9.28	9.45	10.08	10.73	11.07	N/A	
Combustion Turbine/Diesel	0.00	0.36	0.87	0.95	1.42	1.77	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.21	2.22	2.22	2.22	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable 4/	0.00	0.00	0.12	0.18	0.21	0.22	0.23	0.25	0.26	0.37	0.42	0.46	0.50	0.55	0.62	0.77	0.81	0.86	0.98	1.07	1.10	1.31	N/A	
Total (unplanned)	0.00	0.62	1.60	2.93	4.56	6.83	8.79	10.11	10.17	10.33	10.53	10.81	10.94	11.08	11.29	11.85	12.13	12.61	13.12	13.92	14.71	15.36	N/A	
Cumulative Total Additions	0.00	0.72	1.70	3.04	4.66	6.94	8.91	10.24	10.30	10.47	10.68	10.96	11.09	11.23	11.44	12.01	12.29	12.77	13.28	14.07	14.86	15.52	N/A	
Cumulative Retirements	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A	
Cogenerators 6/																								
Capacity																								
Coal	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%	
Petroleum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%	
Natural Gas	0.63	0.63	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	2.7%	
Other Gaseous Fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	3.7%	
Renewables	0.51	0.51	0.52	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.69	1.4%	
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.0%	
Total	1.28	1.29	1.77	1.78	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	2.0%	

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Electricity Demand (billion kilowatthours)																							
Residential	69.26	77.78	79.23	80.40	81.38	82.67	84.13	85.44	86.48	87.65	89.03	90.40	91.39	92.37	93.46	94.74	95.98	97.08	98.28	99.47	100.77	102.05	1.8%
Commercial/Other	58.34	66.91	68.34	69.95	70.98	72.19	73.58	74.89	76.09	77.44	78.66	79.78	80.89	81.85	82.71	83.55	84.29	84.95	85.57	86.13	86.67	87.15	1.8%
Industrial	83.38	91.16	91.90	94.07	96.34	98.28	100.29	101.90	103.52	104.95	105.87	107.19	108.23	109.78	111.58	113.48	115.37	116.44	117.91	119.38	120.94	122.46	1.8%
Transportation	1.47	1.66	1.71	1.76	1.95	2.14	2.32	2.48	2.62	2.76	2.91	3.06	3.20	3.34	3.48	3.62	3.71	3.71	3.70	3.68	3.66	3.63	4.2%
Total Sales	212.45	237.51	241.17	246.19	250.65	255.28	260.32	264.71	268.72	272.80	276.46	280.43	283.72	287.35	291.24	295.39	299.34	302.18	305.46	308.66	312.04	315.29	1.8%
Net Energy for Load (billion kwh) 7/																							
Gross International Imports	11.24	14.25	16.56	19.99	22.58	22.69	24.54	24.79	24.19	24.48	24.01	23.74	23.40	22.48	21.78	21.46	20.98	21.41	20.79	20.76	20.35	17.14	1.9%
Gross International Exports	7.27	9.82	9.82	9.84	15.08	15.10	15.13	15.16	15.18	14.29	13.39	12.50	11.57	10.65	9.73	8.81	7.88	6.96	6.04	5.11	4.19	3.73	-3.0%
Gross Interregional Elec. Imports	21.32	21.92	21.35	21.34	20.45	20.44	18.46	18.21	18.21	16.81	15.55	14.14	12.79	11.43	10.04	8.63	7.15	5.86	4.45	2.96	1.57	0.93	-13.3%
Gross Interregional Elec. Exports	50.94	33.52	39.89	48.35	52.70	62.99	69.04	70.81	68.04	64.02	61.42	59.31	56.63	53.91	50.51	49.15	45.07	43.79	40.86	39.73	39.10	35.06	-1.7%
Purchases from cogenerators 6/	3.33	3.24	3.25	3.27	3.30	3.32	3.35	3.37	3.40	3.42	3.45	3.48	3.50	3.53	3.56	3.59	3.62	3.65	3.68	3.71	3.74	3.77	0.6%
Util. Generation for Customers	245.60	261.56	269.86	279.94	292.32	307.04	318.31	324.55	326.53	326.90	328.81	331.51	332.87	335.15	336.82	340.43	341.38	343.03	344.72	347.57	351.39	354.25	1.7%
Total Net Energy for Load	223.28	257.64	261.31	266.36	270.87	275.41	280.50	284.97	289.11	293.30	297.01	301.07	304.36	308.02	311.96	316.14	320.18	323.20	326.74	330.16	333.76	337.30	1.9%
Generation by Fuel Type (billion kilowatthours)																							
Coal	84.31	80.55	82.37	84.17	86.10	88.14	88.26	88.43	88.71	88.71	88.83	89.08	89.50	89.62	89.89	90.10	90.48	90.91	91.46	91.99	92.80	93.60	0.5%
Petroleum	0.17	0.25	0.25	0.19	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	-3.1%
Natural Gas	11.22	20.26	25.83	33.72	44.04	56.63	67.72	73.72	75.29	74.81	76.25	78.56	79.28	81.10	82.04	84.25	84.68	85.64	85.94	87.68	90.57	91.16	10.0%
Nuclear	6.92	6.75	6.81	6.89	6.96	7.03	7.10	7.18	7.25	7.32	7.39	7.46	7.53	7.61	7.68	7.76	7.76	7.75	7.75	7.75	7.75	7.75	0.5%
Pumped Storage/Other 3/	0.00	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	N/A
Renewable 4/	144.10	155.09	155.95	156.34	156.49	156.54	156.53	156.54	156.60	157.40	157.69	157.75	157.91	158.16	158.56	159.67	159.82	160.08	160.93	161.49	161.62	163.09	0.6%
Total Generation	246.71	262.68	270.99	281.09	293.46	308.21	319.48	325.74	327.72	328.11	330.02	332.72	334.08	336.36	338.03	341.65	342.61	344.25	345.94	348.79	352.61	355.47	1.7%
Sales to Customers	245.60	261.56	269.86	279.94	292.32	307.04	318.31	324.55	326.53	326.90	328.81	331.51	332.87	335.15	336.82	340.43	341.38	343.03	344.72	347.57	351.39	354.25	1.7%
Generation for Own Use	1.11	1.11	1.13	1.15	1.15	1.17	1.17	1.19	1.19	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	0.4%
Cogenerators																							
Coal	0.32	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	4.0%
Petroleum	0.48	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-14.4%
Natural Gas	3.05	2.93	2.93	2.94	2.95	2.95	2.96	2.97	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.06	3.07	3.08	3.09	3.11	3.12	0.1%
Other Gaseous Fuels	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	4.0%
Renewable	2.44	2.54	2.59	2.63	2.68	2.73	2.78	2.81	2.85	2.89	2.91	2.95	2.97	3.00	3.03	3.07	3.11	3.14	3.16	3.19	3.22	3.25	1.3%
Other	0.54	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	-1.0%
Total	6.83	6.67	6.73	6.78	6.84	6.89	6.95	6.99	7.03	7.08	7.11	7.16	7.19	7.23	7.27	7.33	7.38	7.42	7.47	7.50	7.55	7.59	0.5%
Sales to Utilities	3.33	3.24	3.25	3.27	3.30	3.32	3.35	3.37	3.40	3.42	3.45	3.48	3.50	3.53	3.56	3.59	3.62	3.65	3.68	3.71	3.74	3.77	0.6%
Generation for Own Use	3.51	3.42	3.48	3.50	3.54	3.57	3.60	3.62	3.63	3.65	3.67	3.68	3.69	3.70	3.72	3.74	3.76	3.78	3.79	3.80	3.81	3.82	0.4%
End-Use Prices (1998 cents per kilowatthour)																							
Residential	5.9	6.1	6.0	6.0	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.4	5.2	5.2	5.2	5.2	-0.6%
Commercial	5.0	5.1	5.1	5.0	5.2	5.3	5.5	5.6	5.6	5.5	5.4	5.4	5.3	5.2	5.2	5.2	5.1	5.2	5.2	5.2	5.2	5.2	0.2%
Industrial	3.3	3.4	3.3	3.3	3.5	3.5	3.6	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3	0.1%
Transportation	4.8	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	-0.8%
All Sectors Average	4.6	4.8	4.7	4.7	4.9	4.9	5.0	5.0	5.0	4.9	4.9	4.8	4.7	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.4	4.4	-0.2%

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatthour.

N/A = Not applicable.

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

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

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

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

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

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

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Electricity Demand (billion kilowatthours)																								
Residential	81.04	83.02	84.27	85.27	86.04	87.20	88.57	89.82	90.78	91.84	93.21	94.60	95.53	96.48	97.55	98.82	100.03	101.10	102.26	103.39	104.65	105.87	107.13	1.2%
Commercial/Other	99.59	104.79	106.52	108.91	110.27	111.83	113.73	115.61	117.23	118.96	120.53	122.02	123.41	124.68	125.86	127.05	128.01	128.81	129.50	130.10	130.58	130.97	131.36	1.3%
Industrial	63.10	63.98	64.57	66.06	67.60	68.92	70.30	71.40	72.50	73.47	74.09	74.98	75.67	76.74	77.95	79.21	80.50	81.21	82.21	83.21	84.26	85.30	86.34	1.4%
Transportation	1.83	1.89	1.94	1.99	2.20	2.41	2.59	2.77	2.92	3.08	3.23	3.39	3.55	3.70	3.85	4.00	4.08	4.07	4.06	4.03	3.99	3.95	3.91	3.6%
Total Sales	245.56	253.68	257.30	262.23	266.12	270.35	275.19	279.60	283.43	287.34	291.07	294.99	298.17	301.60	305.20	309.08	312.61	315.19	318.02	320.73	323.48	326.08	328.79	1.3%
Net Energy for Load (billion kwh) 7/																								
Gross International Imports	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Gross International Exports	1.04	1.19	1.23	1.27	1.32	1.36	1.41	1.46	1.51	1.56	1.61	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	2.2%
Gross Interregional Elec. Imports	70.66	57.09	62.01	70.47	75.37	86.41	92.37	92.82	89.86	84.52	80.30	76.07	72.63	69.07	64.74	61.09	54.85	51.91	47.70	44.60	42.54	38.82	35.10	-2.7%
Gross Interregional Elec. Exports	13.28	14.57	11.72	11.19	10.24	10.23	8.00	8.01	8.00	7.36	6.72	6.08	5.44	4.80	4.17	3.53	2.89	2.25	1.62	0.98	0.34	0.02	-25.1%	
Purchases from cogenerators 6/	29.54	29.50	29.51	29.61	29.70	29.79	29.89	29.99	30.09	30.20	30.31	30.42	30.54	30.66	30.79	30.93	31.06	31.19	31.33	31.44	31.55	31.63	31.71	0.3%
Util. Generation for Customers	177.49	204.39	200.53	196.81	195.01	188.52	185.43	189.47	196.20	204.96	212.22	219.73	225.58	231.79	238.92	245.65	254.62	259.56	266.03	271.30	275.58	281.67	287.76	2.1%
Total Net Energy for Load	263.38	275.21	279.10	284.42	288.52	293.13	298.29	302.81	306.64	310.76	314.50	318.47	321.63	325.05	328.62	332.48	335.97	338.74	341.78	344.69	347.67	350.44	353.21	1.3%
Generation by Fuel Type (billion kilowatthours)																								
Coal	37.06	38.36	38.88	39.52	40.15	41.44	44.46	46.30	49.33	51.59	52.74	54.54	56.77	59.30	62.85	67.14	72.24	75.82	79.10	84.90	89.69	94.43	99.17	4.3%
Petroleum	0.90	1.08	1.09	1.08	1.04	0.97	0.92	0.75	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	-5.8%
Natural Gas	29.40	69.36	64.19	60.01	57.86	50.36	44.22	46.85	50.96	57.35	62.51	68.40	72.20	75.87	79.65	82.45	85.51	86.83	89.67	88.52	87.39	88.60	89.81	5.1%
Nuclear	41.11	38.37	38.42	38.45	38.47	38.48	38.50	38.52	38.53	38.55	38.57	38.59	38.59	38.59	38.59	38.59	38.52	38.45	38.38	38.59	38.59	38.59	38.59	-0.3%
Pumped Storage/Other 3/	3.07	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A
Renewable 4/	68.61	60.50	61.25	61.03	60.71	60.48	60.56	60.26	60.27	60.36	61.30	61.06	60.87	60.87	60.68	60.39	61.27	61.38	61.52	62.14	62.76	62.89	63.02	-0.4%
Total Generation	180.15	207.23	203.37	199.65	197.79	191.29	188.21	192.23	198.89	207.64	214.91	222.36	228.21	234.42	241.55	248.29	257.26	262.19	268.66	273.93	278.21	284.31	290.41	2.1%
Sales to Customers	177.49	204.39	200.53	196.81	195.01	188.52	185.43	189.47	196.20	204.96	212.22	219.73	225.58	231.79	238.92	245.65	254.62	259.56	266.03	271.30	275.58	281.67	287.76	2.1%
Generation for Own Use	2.66	2.84	2.84	2.84	2.78	2.78	2.78	2.76	2.69	2.69	2.69	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	0.0%
Cogenerators																								
Coal	3.16	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	-0.1%
Petroleum	0.03	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.22	10.1%
Natural Gas	42.76	42.06	42.20	42.36	42.51	42.65	42.83	42.98	43.12	43.34	43.50	43.71	43.96	44.19	44.43	44.73	45.04	45.35	45.69	45.97	46.24	46.42	46.60	0.4%
Other Gaseous Fuels	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	4.0%
Renewable	1.25	1.08	1.11	1.13	1.15	1.18	1.20	1.22	1.24	1.25	1.27	1.29	1.30	1.31	1.33	1.35	1.37	1.38	1.39	1.40	1.42	1.44	1.46	0.6%
Other	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%
Total	47.26	46.49	46.66	46.84	47.02	47.19	47.39	47.56	47.72	47.97	48.14	48.38	48.64	48.88	49.13	49.45	49.77	50.09	50.45	50.74	51.03	51.27	51.51	0.4%
Sales to Utilities	29.54	29.50	29.51	29.61	29.70	29.79	29.89	29.99	30.09	30.20	30.31	30.42	30.54	30.66	30.79	30.93	31.06	31.19	31.33	31.44	31.55	31.63	31.71	0.3%
Generation for Own Use	17.72	17.00	17.15	17.23	17.32	17.40	17.50	17.57	17.63	17.77	17.84	17.96	18.10	18.21	18.33	18.51	18.71	18.90	19.12	19.30	19.48	19.64	19.81	0.5%
End-Use Prices (1998 cents per kilowatthour)																								
Residential	9.9	9.6	9.5	9.4	9.5	9.4	9.3	9.3	9.5	9.7	9.7	9.8	9.9	9.9	10.0	10.0	9.9	10.0	10.0	9.9	9.9	9.8	9.8	0.0%
Commercial	9.6	9.3	9.2	8.5	8.4	8.2	7.9	7.7	7.6	7.6	7.7	7.8	7.9	8.0	8.1	8.0	8.0	8.0	7.9	7.8	7.8	7.7	7.7	-1.0%
Industrial	6.8	6.6	6.5	5.8	5.7	5.4	5.1	4.8	4.7	4.6	4.7	4.7	4.8	4.9	4.9	4.8	4.8	4.8	4.7	4.6	4.6	4.5	4.5	-1.8%
Transportation	7.0	6.8	6.7	6.6	6.5	6.3	6.2	6.1	6.2	5.9	5.9	6.0	5.9	6.0	6.0	6.0	6.0	6.1	6.1	6.0	6.0	6.0	6.0	-0.7%
All Sectors Average	9.0	8.7	8.6	8.1	8.1	7.9	7.6	7.4	7.5	7.5	7.6	7.6	7.7	7.8	7.8	7.8	7.8	7.7	7.7	7.6	7.6	7.5	7.5	-0.8%

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

5/ Cumulative additions after December 31, 1999.

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

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.

EMM = Electricity market module.

Kwh = Kilowatt-hour.

N/A = Not applicable.

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

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

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

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

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

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

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

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

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.
 3/ Other includes methane, propane gas, and blast furnace gas, hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
 4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
 5/ Cumulative additions after December 31, 1999.
 6/ Cogenerators produce electricity and another form of useful energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.
 8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators. Differs from Electric Generators in Table 2 of the Annual Energy Outlook 2000 and Tables 1 to 10 of the Supplement to the Annual Energy Outlook 2000 due to difference in definitions of electric generators.

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

O&M = Operation and maintenance.
 EMM = Electricity market module.
 Kwh = Kilowatthour.
 N/A = Not applicable.

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

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