

**Table 59. Electric Power Projections for Electricity Market Module Region (1 of 3)
East Central Area Reliability Coordination Agreement**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	83.84	83.84	83.84	83.83	83.66	83.10	81.30	81.30	81.30	81.28	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	-0.2%
Other Fossil Steam 2/	3.73	3.75	3.75	3.75	3.75	3.75	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	-0.2%
Combined Cycle	0.47	0.47	0.47	0.47	0.47	2.59	3.85	5.78	7.66	9.33	11.24	12.45	14.24	15.77	16.45	18.22	19.65	20.55	21.62	22.78	23.94	24.87	22.0%
Combustion Turbine/Diesel	6.67	10.07	11.97	13.38	13.63	14.74	16.78	17.48	17.45	17.59	17.71	17.82	17.88	18.58	18.77	18.88	19.06	19.42	19.76	20.38	21.31	21.31	4.0%
Nuclear Power	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	-1.9%
Pumped Storage/Other 3/	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	1.51	1.54	1.54	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.61	1.61	1.61	0.3%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Capacity	110.17	110.61	112.52	113.96	116.16	117.96	120.00	120.94	122.58	124.61	125.87	127.76	129.36	130.73	132.69	134.24	135.35	136.01	137.54	139.38	141.32	1.3%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	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 Sources 4/	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	N/A
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2.12	3.38	5.31	7.19	8.86	10.77	11.98	13.78	15.31	15.98	17.75	19.19	20.08	21.15	22.31	23.47	24.48	N/A
Combustion Turbine/Diesel	0.00	0.00	2.00	3.77	4.02	5.33	7.37	8.10	8.10	8.24	8.37	8.47	8.54	9.23	9.42	9.53	9.71	10.08	10.42	11.03	11.96	11.96	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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Unplanned Additions	0.00	0.00	2.00	3.77	6.14	8.71	12.69	15.29	16.96	19.01	20.35	22.24	23.84	25.21	27.17	28.72	29.83	31.30	32.83	34.66	36.61	36.61	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Cumulative Total Additions	0.00	0.43	2.43	4.19	6.57	9.14	13.12	15.72	17.39	19.44	20.78	22.67	24.27	25.64	27.60	29.15	30.26	31.73	33.26	35.09	37.04	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.18	0.72	2.52	2.52	2.52	2.54	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	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	0.10	0.45	0.45	0.66	0.66	0.66	0.68	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
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 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	0.00	0.00	0.10	0.46	0.61	1.39	3.33	4.99	6.02	6.04	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	N/A
Cogenerators 8/																							
Capability																							
Coal	1.42	1.42	1.42	1.42	1.42	1.42	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.40	1.40	1.40	1.40	1.40	1.40	-0.1%
Petroleum	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.2%
Natural Gas	2.83	3.39	3.40	3.44	3.50	3.54	3.59	3.63	3.68	3.72	3.77	3.82	3.87	3.92	3.97	4.02	4.08	4.13	4.20	4.26	4.33	2.1%	
Other Gaseous Fuels	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	4.4%	
Renewable Sources 4/	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	2.3%	
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	4.44	5.00	5.02	5.07	5.12	5.18	5.23	5.28	5.32	5.37	5.42	5.47	5.53	5.58	5.64	5.70	5.76	5.82	5.88	5.95	6.02	1.5%	

**Table 59. Electric Power Projections for Electricity Market Module Region (2 of 3)
East Central Area Reliability Coordination Agreement**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatthours)																							
Residential	158.61	166.08	170.96	176.07	180.33	183.82	185.64	187.81	190.14	192.79	195.49	198.06	200.70	203.49	206.53	209.78	212.53	215.28	217.99	221.00	224.08	1.7%	
Commercial/Other	130.81	144.87	148.11	152.13	155.73	158.91	162.12	165.10	167.80	170.37	172.86	175.26	177.68	180.04	183.01	185.67	188.14	190.49	192.71	195.11	197.57	1.2%	
Industrial	217.00	206.17	206.17	213.33	217.97	223.15	227.58	232.66	236.65	240.55	245.53	250.63	253.88	257.02	260.07	263.10	265.96	269.02	272.36	275.40	277.78	1.2%	
Transportation	2.30	2.36	2.41	2.72	3.01	3.28	3.51	3.72	3.93	4.14	4.35	4.55	4.75	4.94	5.13	5.21	5.16	5.09	5.01	4.92	4.83	3.8%	
Total Sales	517.73	519.58	529.65	545.04	557.03	568.97	578.85	589.29	598.52	607.86	618.23	628.51	637.01	645.69	654.73	663.76	671.78	679.96	688.07	696.42	704.25	1.6%	
Net Energy for Load (billion kilowatthours) 7/																							
Gross International Imports	3.92	2.98	1.91	7.10	7.97	7.90	6.98	6.43	6.44	6.29	6.02	6.09	6.07	6.08	5.79	6.01	5.61	5.14	4.98	4.75	2.78	-1.7%	
Gross International Exports	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.4%	
Gross Interregional Electricity Imports	5.85	5.81	5.77	5.62	5.60	5.60	5.60	5.60	5.60	5.60	5.04	4.48	3.92	3.36	2.80	2.24	1.68	1.18	0.70	0.41	0.28	-14.0%	
Gross Interregional Electricity Exports	59.39	55.47	65.90	74.40	79.20	81.04	82.95	82.21	82.61	82.81	83.39	85.20	87.39	87.10	87.91	87.76	86.57	84.58	85.46	85.74	85.79	1.9%	
Purchases from Cogenerators 8/	14.18	15.00	17.88	17.73	17.87	17.92	17.79	17.75	17.75	17.89	17.99	18.09	18.30	18.45	18.63	18.56	18.85	19.12	19.34	19.63	19.76	1.7%	
Utility Generation for Customers	588.60	587.19	605.79	625.02	641.04	655.32	668.40	678.95	688.76	698.49	710.39	722.98	734.06	742.93	753.53	762.96	770.90	778.20	785.15	797.49	807.78	1.6%	
Total Net Energy for Load	553.13	555.04	565.21	581.03	593.34	605.66	615.75	626.46	635.90	645.41	656.00	666.39	674.52	683.66	692.80	701.86	710.42	719.01	727.66	736.49	744.77	1.5%	
Generation by Fuel Type																							
(billion kilowatthours)																							
Coal	506.79	509.08	512.80	530.42	539.09	549.44	553.71	568.17	571.88	574.99	577.93	578.81	581.44	584.38	586.68	587.60	589.94	592.10	593.11	593.73	594.29	0.8%	
Petroleum	4.62	1.97	1.21	1.24	1.05	0.95	0.69	0.69	0.70	0.69	0.71	0.73	0.74	0.74	0.73	0.73	0.73	0.81	0.83	0.82	0.84	-8.2%	
Natural Gas	17.87	16.44	31.57	32.61	39.48	43.41	52.71	59.63	67.48	74.06	81.63	89.25	101.63	108.11	117.04	124.89	132.02	142.71	151.63	160.28	169.94	11.9%	
Nuclear	55.99	56.75	56.36	56.52	56.64	56.76	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	-1.7%
Pumped Storage/Other 3/	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	N/A	
Renewable Sources 4/	4.66	4.73	5.89	6.08	6.63	6.71	6.25	6.31	6.37	6.32	7.57	7.51	7.47	6.79	6.07	6.58	5.02	5.02	5.01	5.08	5.08	0.4%	
Total Generation	589.91	588.95	607.82	626.86	642.89	657.16	670.23	680.79	690.60	700.33	712.23	724.81	735.90	744.77	755.37	764.70	772.74	780.03	790.00	799.33	809.62	1.6%	
Sales to Customers	588.60	587.19	605.79	625.02	641.04	655.32	668.40	678.95	688.76	698.49	710.39	722.98	734.06	742.93	753.53	762.96	770.90	778.20	785.15	797.49	807.78	1.6%	
Generation for Own Use	1.31	1.76	1.83	1.84	1.85	1.85	1.83	1.84	1.84	1.84	1.84	1.83	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.7%	
Cogenerators																							
Coal	7.33	7.25	7.42	7.54	7.66	7.82	7.98	8.11	8.08	8.07	7.99	7.99	7.99	7.99	8.03	8.06	8.02	8.07	8.07	8.06	8.05	8.04	0.5%
Petroleum	0.35	0.35	0.35	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.44	1.1%
Natural Gas	13.67	14.75	17.24	17.23	17.40	17.23	16.94	16.77	16.79	16.94	17.13	17.23	17.44	17.86	17.69	17.67	17.93	18.20	18.45	18.74	18.91	18.91	1.6%
Other Gaseous Fuels	0.28	0.28	0.28	0.43	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.49	0.50	0.52	0.53	0.53	0.54	0.55	0.57	0.59	0.61	3.9%	
Renewable Sources 4/	1.92	1.91	1.92	2.01	2.08	2.17	2.25	2.34	2.39	2.44	2.54	2.61	2.68	2.74	2.80	2.87	2.93	2.99	3.04	3.09	3.09	2.4%	
Other	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.1%	
Total	24.47	25.48	28.15	28.53	28.89	28.97	28.95	28.99	29.00	29.20	29.37	29.58	29.88	30.12	30.37	30.76	31.10	31.42	31.79	32.02	32.02	1.4%	
Sales to Utilities	14.18	15.00	17.88	17.73	17.87	17.92	17.79	17.75	17.75	17.89	17.99	18.09	18.30	18.45	18.63	18.56	18.85	19.12	19.34	19.63	19.76	1.7%	
Generation for Own Use	10.29	10.48	10.47	10.79	10.92	11.04	11.16	11.25	11.25	11.31	11.39	11.49	11.59	11.67	11.74	11.81	11.91	11.99	12.08	12.16	12.28	0.9%	
End-Use Prices																							
(2000 cents per kilowatthour)																							
Residential	7.6	7.4	7.0	6.9	6.8	6.6	7.0	6.9	6.9	6.9	6.8	6.7	6.8	6.7	6.7	6.7	6.7	6.7	6.8	6.9	6.8	6.8	-0.5%
Commercial	7.0	6.8	6.6	6.7	6.7	6.7	6.5	6.5	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.6	6.6	6.6	6.6	6.7	-0.3%
Industrial	4.4	4.2	4.1	4.2	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.4	4.5	4.6	4.6	4.6	0.3%
Transportation	6.7	6.2	6.0	5.6	5.4	5.2	5.0	5.1	5.2	5.3	5.3	5.5	5.5	5.5	5.6	5.6	5.6	5.5	5.5	5.4	5.4	5.3	-1.2%
All Sectors Average	6.1	5.9	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.7	5.8	5.7	5.6	5.6	5.7	5.8	5.9	5.9	5.9	-0.2%

**Table 59. Electric Power Projections for Electricity Market Module Region (3 of 3)
East Central Area Reliability Coordination Agreement**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatthour)																						
Generation	3.9	3.8	3.7	3.7	3.7	3.6	3.7	3.6	3.6	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.8	3.9	3.9	3.9	0.0%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-0.3%
Distribution	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.6%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	5.15	5.18	5.21	5.40	5.48	5.61	5.66	5.81	5.85	5.89	5.92	5.93	5.96	5.99	6.02	6.03	6.05	6.08	6.09	6.10	6.11	0.9%
Natural Gas	0.21	0.19	0.37	0.38	0.40	0.42	0.47	0.51	0.58	0.69	0.85	0.72	0.78	0.83	0.88	0.93	0.98	1.05	1.12	1.18	1.25	9.3%
Oil	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-8.7%
Total	5.42	5.40	5.59	5.79	5.89	6.03	6.14	6.32	6.42	6.49	6.58	6.66	6.75	6.82	6.90	6.96	7.04	7.14	7.22	7.29	7.36	1.5%
Emissions (million tons) 10/																						
Total Carbon	149.62	148.82	152.21	157.66	160.28	163.86	166.14	170.91	172.93	174.48	176.36	177.85	179.59	181.28	182.89	183.98	185.57	187.63	189.00	190.22	191.67	1.2%
Carbon Dioxide	548.59	545.88	558.11	576.10	587.69	600.84	609.19	626.68	634.06	639.75	646.67	652.10	658.50	664.69	670.61	674.58	680.41	687.98	693.02	697.46	702.80	1.2%
Sulfur Dioxide	3.23	3.20	3.38	3.25	3.11	2.93	2.87	2.77	2.76	2.73	2.60	2.38	2.35	2.38	2.36	2.36	2.35	2.35	2.33	2.27	2.28	-1.7%
Nitrogen Oxide	1.16	1.16	1.18	1.22	0.89	0.90	0.91	0.93	0.94	0.94	0.95	0.95	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.97	0.97	-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-862B. "Annual Electric Generator Report - Nonutility." 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-fuel capability.

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

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

Table 60. Electric Power Projections for Electricity Market Module Region (1 of 3)
Electric Reliability Council of Texas

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020		
Electricity Generating Capacity 1/																								
(gigawatts)																								
Coal Steam	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25		
Other Fossil Steam 2/	29.95	29.91	29.83	29.55	29.30	28.77	27.07	24.86	22.95	22.88	22.88	22.79	22.69	22.69	22.69	22.53	22.53	22.53	22.53	22.53	22.53	22.31	-1.5%	
Combined Cycle	4.01	4.01	3.98	3.96	5.04	5.91	6.74	10.42	13.20	15.28	16.54	17.76	18.07	18.73	19.76	20.47	21.01	21.50	21.96	22.50	23.07	23.07	9.1%	
Combustion Turbine/Diesel	3.12	3.12	4.40	4.77	5.13	5.54	8.77	9.67	10.51	10.86	11.22	11.30	11.45	11.74	11.92	12.02	12.09	12.15	12.20	12.31	12.39	12.39	7.1%	
Nuclear Power	4.80	4.80	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	0.0%	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	0.77	2.00	2.16	2.30	2.43	2.57	2.64	2.72	2.79	2.87	2.89	2.91	2.93	2.95	2.97	2.99	3.01	3.04	3.06	3.08	3.10	3.10	7.2%	
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.10	0.15	0.23	0.32	0.58	0.79	1.02	1.09	1.18	1.23	1.31	1.42	1.55	1.76	1.96	2.15	2.33	2.33	N/A	
Total Capacity	57.90	59.08	60.43	60.72	62.06	63.00	65.52	68.05	70.06	72.74	74.62	75.91	76.48	77.40	78.72	79.50	80.25	81.04	81.77	82.64	83.25	83.25	1.8%	
Cumulative Planned Additions 6/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Sources 4/	0.00	1.22	1.39	1.53	1.66	1.80	1.87	1.95	2.02	2.10	2.12	2.14	2.16	2.18	2.20	2.22	2.24	2.26	2.29	2.31	2.33	2.33	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Planned Additions	0.00	1.22	1.39	1.53	1.66	1.80	1.87	1.95	2.02	2.10	2.12	2.14	2.16	2.18	2.20	2.22	2.24	2.26	2.29	2.31	2.33	2.33	N/A	
Cumulative Unplanned Additions 6/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.28	2.08	2.43	2.86	6.10	6.99	7.88	8.23	8.60	8.67	8.82	9.11	9.30	9.39	9.46	9.52	9.57	9.69	9.69	9.76	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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Unplanned Additions	0.00	0.00	1.28	2.14	3.59	4.94	9.10	13.76	17.66	20.33	22.18	23.55	24.07	25.10	25.99	27.31	28.04	28.81	29.52	30.37	31.18	31.18	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.10	0.15	0.23	0.32	0.58	0.79	1.02	1.09	1.18	1.23	1.31	1.42	1.55	1.76	1.96	2.15	2.33	2.33	N/A	
Cumulative Total Additions	0.00	1.22	2.67	3.67	5.26	6.74	10.97	15.70	19.68	22.43	24.30	25.69	26.23	27.28	28.60	29.53	30.29	31.07	31.80	32.67	33.51	33.51	N/A	
Cumulative Retirements 7/																								
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.35	0.60	1.13	2.84	5.05	6.96	7.02	7.12	7.12	7.12	7.23	7.22	7.28	7.38	7.38	7.38	7.38	7.38	7.38	N/A	
Combined Cycle	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.43	0.43	0.44	0.44	0.44	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	N/A	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 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	0.00	0.00	0.11	0.82	1.07	1.81	3.32	5.53	7.48	7.65	7.55	7.64	7.64	7.74	7.74	7.90	7.98	7.98	7.98	7.98	7.98	7.98	8.12	N/A
Cogenerators 8/																								
Capability																								
Coal	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	-0.1%	
Petroleum	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	-0.1%	
Natural Gas	9.33	9.59	9.66	9.84	10.09	10.32	10.55	10.75	10.95	11.16	11.38	11.62	11.85	12.08	12.32	12.58	12.86	13.12	13.42	13.71	14.04	14.04	2.1%	
Other Gaseous Fuels	0.10	0.10	0.10	0.16	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	4.4%	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	10.06	10.32	10.39	10.62	10.87	11.10	11.34	11.54	11.74	11.95	12.18	12.42	12.66	12.90	13.14	13.41	13.68	13.95	14.25	14.56	14.89	14.89	2.0%	

Table 60. Electric Power Projections for Electricity Market Module Region (2 of 3)
Electric Reliability Council of Texas

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatt-hours)																							
Residential	100.55	103.86	105.51	108.15	111.36	113.36	114.90	116.17	117.64	119.42	121.43	123.49	125.45	127.46	129.63	131.96	134.04	136.24	138.47	140.85	143.15	1.8%	
Commercial/Other	83.57	83.45	85.11	88.14	90.88	93.18	95.56	98.09	100.65	103.33	106.07	108.74	111.03	113.99	116.00	118.00	119.25	120.27	121.37	122.42	123.42	1.9%	
Industrial	83.98	80.17	80.86	84.23	86.43	88.61	90.97	94.14	95.19	96.90	99.65	102.34	103.98	105.42	107.01	108.51	109.78	111.09	112.51	113.90	115.17	1.6%	
Transportation	0.98	1.01	1.04	1.17	1.30	1.42	1.53	1.63	1.73	1.83	1.93	2.03	2.13	2.23	2.33	2.38	2.37	2.36	2.34	2.31	2.28	4.3%	
Total Sales	269.07	267.68	272.52	282.68	289.97	296.56	302.96	310.03	315.20	321.48	329.09	336.61	342.59	348.20	353.97	359.47	364.19	368.92	373.60	378.43	383.01	1.8%	
Net Energy for Load (billion kilowatt-hours) 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	N/A	
Gross International Exports	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	4.0%	
Gross Interregional Electricity Imports	3.63	3.48	2.84	2.93	3.02	3.16	3.49	3.66	3.05	3.07	2.93	2.66	2.63	2.55	2.38	2.06	1.87	1.98	1.83	1.70	1.76	-3.6%	
Gross Interregional Electricity Exports	2.87	3.13	3.11	2.52	2.27	2.05	2.26	2.09	2.25	2.63	2.55	2.61	2.44	2.74	2.64	2.68	2.50	2.19	1.46	1.21	1.00	-5.1%	
Purchases from Cogenerators 8/	30.60	31.27	31.30	31.93	32.29	32.65	32.55	32.54	32.63	32.99	33.51	34.04	34.65	35.22	35.87	36.60	37.35	38.05	38.88	39.73	40.64	1.4%	
Utility Generation for Customers	255.23	253.35	259.08	263.21	274.96	281.02	287.64	294.54	300.58	306.99	314.60	322.05	327.56	333.10	338.35	343.57	347.80	351.07	355.19	359.30	363.94	1.8%	
Total Net Energy for Load	286.29	284.65	289.56	300.17	307.58	314.34	320.93	328.12	333.45	339.81	347.81	355.48	361.74	367.46	373.29	378.87	383.85	388.84	393.76	398.84	403.67	1.7%	
Generation by Fuel Type																							
(billion kilowatt-hours)																							
Coal	110.88	109.62	107.95	109.61	111.04	111.79	112.52	113.23	113.23	112.92	112.73	112.74	112.74	112.83	113.23	112.83	113.22	113.23	113.23	113.25	113.23	0.1%	
Petroleum	0.29	2.91	0.22	0.15	0.12	0.12	0.10	0.08	0.07	0.04	0.05	0.05	0.05	0.07	0.05	0.04	0.06	0.05	0.06	0.07	0.06	-7.4%	
Natural Gas	104.74	99.17	106.06	114.86	119.72	124.58	130.11	136.00	141.62	147.54	155.03	162.32	167.68	172.82	178.11	183.06	187.18	190.60	194.11	197.86	201.43	3.3%	
Nuclear	39.10	39.48	40.84	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	39.17	0.0%	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	1.30	3.68	5.52	5.95	6.38	6.81	7.15	7.43	7.71	8.48	8.68	8.81	8.95	9.08	8.72	9.36	8.99	9.13	9.26	9.40	9.53	10.5%	
Total Generation	256.31	254.86	260.59	269.73	278.47	282.54	289.15	296.05	302.09	308.51	316.11	323.56	329.07	334.61	339.87	345.08	349.31	353.18	356.70	360.81	364.45	1.8%	
Sales to Customers	255.23	253.35	259.08	263.21	274.96	281.02	287.64	294.54	300.58	306.99	314.60	322.05	327.56	333.10	338.35	343.57	347.80	351.07	355.19	359.30	363.94	1.8%	
Generation for Own Use	1.08	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.7%	
Cogenerators																							
Coal	2.86	2.86	2.86	2.84	2.83	2.83	2.82	2.81	2.79	2.78	2.78	2.77	2.77	2.76	2.76	2.75	2.75	2.74	2.74	2.73	2.73	-0.2%	
Petroleum	0.20	0.20	0.20	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	1.1%	
Natural Gas	56.35	58.02	59.32	62.08	63.98	65.72	66.96	68.06	69.23	70.69	72.41	74.17	75.97	77.72	79.53	81.58	83.73	85.77	88.02	90.30	92.85	2.5%	
Other Gaseous Fuels	0.16	0.16	0.16	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.27	0.27	0.28	0.29	0.29	0.30	0.31	0.32	0.33	0.34	0.34	3.9%	
Renewable Sources 4/	0.18	0.18	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29	2.5%	
Other	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.1%	
Total	60.38	63.06	63.36	66.22	68.11	69.86	71.10	72.20	73.36	74.82	76.55	78.33	80.14	81.90	83.72	85.77	87.93	89.98	92.24	94.54	97.10	2.4%	
Sales to Utilities	30.60	31.27	31.30	31.93	32.29	32.65	32.55	32.54	32.63	32.99	33.51	34.04	34.65	35.22	35.87	36.60	37.35	38.05	38.88	39.73	40.64	1.4%	
Generation for Own Use	29.78	31.79	32.06	34.29	35.82	37.21	38.55	39.66	40.72	41.83	43.04	44.29	45.49	46.68	47.85	48.17	50.58	51.93	53.37	54.81	56.46	3.3%	
End-Use Prices																							
(2000 cents per kilowatt-hour)																							
Residential	7.9	7.7	7.1	7.0	7.1	7.1	6.8	7.0	6.9	6.7	6.6	6.6	6.7	6.7	6.7	6.8	6.9	7.0	7.1	7.1	7.3	-0.4%	
Commercial	7.0	7.2	6.7	6.5	6.6	6.8	6.5	6.3	6.1	5.8	5.7	5.6	5.7	5.8	5.8	5.8	6.1	6.2	6.3	6.5	6.5	-0.4%	
Industrial	4.1	4.3	4.1	4.0	4.2	4.4	4.3	4.1	4.0	3.9	3.9	3.9	4.0	4.1	4.1	4.1	4.2	4.3	4.4	4.5	4.6	0.6%	
Transportation	6.2	6.5	6.1	6.1	6.5	6.4	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	-0.4%	
All Sectors Average	6.4	6.5	6.1	6.0	6.1	6.2	6.0	5.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.8	5.8	6.0	6.1	6.2	-0.2%	

Table 60. Electric Power Projections for Electricity Market Module Region (3 of 3)
Electric Reliability Council of Texas

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatthour)																						
Generation	4.5	4.7	4.3	4.1	4.2	4.4	4.1	4.0	3.9	3.6	3.6	3.5	3.7	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.4	-0.2%
Transmission	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4%
Distribution	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.3	-0.3%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	1.17	1.16	1.14	1.15	1.17	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	0.1%
Natural Gas	1.05	0.96	1.04	1.13	1.15	1.18	1.22	1.19	1.19	1.20	1.25	1.29	1.33	1.37	1.39	1.43	1.45	1.46	1.50	1.52	1.54	2.0%
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	-7.6%
Total	2.22	2.15	2.18	2.28	2.32	2.36	2.40	2.39	2.38	2.39	2.43	2.48	2.52	2.56	2.59	2.61	2.65	2.67	2.69	2.72	2.74	1.1%
Emissions (million tons) 10/																						
Total Carbon	50.40	49.14	49.16	50.98	51.76	52.45	53.25	53.10	53.03	53.15	53.85	54.55	55.20	55.78	56.29	56.67	57.24	57.64	58.01	58.42	58.75	0.8%
Carbon Dioxide	184.80	180.17	180.25	186.93	189.79	192.31	195.24	194.71	194.45	194.88	197.45	200.02	202.40	204.52	206.41	207.80	209.90	211.35	212.69	214.21	215.43	0.8%
Sulfur Dioxide	0.35	0.40	0.38	0.35	0.35	0.38	0.42	0.40	0.39	0.38	0.38	0.39	0.39	0.39	0.31	0.31	0.30	0.31	0.33	0.36	0.38	0.4%
Nitrogen Oxide	0.27	0.27	0.27	0.28	0.27	0.27	0.27	0.26	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	-0.6%

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-862B.

2/ Annual Electric Generator Report - Nonutility. Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

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

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

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

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

7/ Cumulative additions after December 31, 2000.

8/ Generation to meet system load by source.

9/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

EM = Estimated emissions from utilities and nonutilities (excluding cogenerators).

OM = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 61. Electric Power Projections for Electricity Market Module Region (1 of 3)
Mid-Atlantic Area Council**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/																							
(gigawatts)																							
Coal Steam	10.19	18.99	18.99	18.99	18.99	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	0.0%
Other Fossil Steam 2/	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	N/A
Combined Cycle	1.87	2.47	2.47	2.47	3.45	3.67	4.86	6.01	7.11	7.95	7.81	8.63	9.10	9.58	10.27	10.88	11.49	12.04	12.60	12.99	13.45	10.4%	
Combustion Turbine/Diesel	8.82	8.82	9.96	10.76	10.68	11.71	11.86	12.31	12.37	12.54	12.87	12.87	12.87	13.55	13.89	14.38	14.56	14.85	14.85	14.85	14.85	2.6%	
Nuclear Power	12.98	12.98	13.03	13.03	13.03	13.03	13.03	11.92	11.92	11.92	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	-0.7%
Pumped Storage/Other 3/	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	N/A	
Fuel Cells	0.00	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.25	N/A	
Renewable Sources 4/	1.78	1.81	1.88	1.95	2.02	2.09	2.16	2.22	2.28	2.33	2.39	2.44	2.49	2.55	2.60	2.66	2.71	2.71	2.71	2.71	2.71	2.71	2.2%
Distributed Generation 5/	0.00	0.00	0.00	0.04	0.11	0.31	0.55	0.79	1.00	1.20	1.39	1.58	1.78	1.94	2.12	2.30	2.48	2.65	2.82	2.98	3.12	N/A	
Total Capacity	54.09	54.54	55.82	56.74	57.73	59.18	60.94	61.75	63.20	64.09	64.33	65.32	66.16	67.56	68.84	70.17	71.21	72.22	72.95	73.65	74.28	1.6%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combined Cycle	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	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	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	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	N/A	
Fuel Cells	0.00	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.25	N/A	
Renewable Sources 4/	0.00	0.05	0.12	0.19	0.26	0.33	0.40	0.46	0.52	0.57	0.62	0.68	0.73	0.78	0.84	0.89	0.95	0.95	0.95	0.95	0.95	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Planned Additions	0.00	0.65	0.74	0.82	0.91	0.99	1.07	1.15	1.23	1.31	1.39	1.47	1.54	1.61	1.67	1.74	1.80	1.80	1.80	1.80	1.80	N/A	
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.97	1.99	2.39	3.54	4.63	5.98	5.34	6.05	6.63	7.11	7.80	8.40	9.02	9.57	10.13	10.51	10.98	N/A	
Combustion Turbine/Diesel	0.00	0.00	1.14	1.94	2.25	3.28	3.43	3.89	3.94	4.11	4.45	4.45	4.45	5.12	5.47	5.95	6.14	6.43	6.43	6.43	6.43	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	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	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Unplanned Additions	0.00	0.00	1.14	1.98	3.23	4.68	6.37	8.21	9.58	10.39	11.17	12.09	12.84	14.17	15.39	16.66	17.63	18.64	19.37	20.07	20.68	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.04	0.11	0.31	0.55	0.79	1.00	1.20	1.39	1.58	1.78	1.94	2.12	2.30	2.48	2.65	2.82	2.98	3.12	N/A	
Cumulative Total Additions	0.00	0.65	1.88	2.80	4.24	5.67	7.44	9.36	10.81	11.70	12.56	13.55	14.38	15.78	17.06	18.40	19.44	20.45	21.18	21.88	22.49	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.20	0.20	0.20	0.20	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	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	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	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	1.11	1.11	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	N/A	
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	0.00	0.20	0.20	0.20	0.59	0.64	0.64	1.74	1.74	1.74	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	N/A	
Cogenerators 8/																							
Capability																							
Coal	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.09	1.09	1.09	0.0%	
Petroleum	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	0.47	0.47	0.47	0.47	-0.1%	
Natural Gas	3.04	3.07	3.07	3.09	3.12	3.14	3.16	3.18	3.20	3.23	3.25	3.27	3.30	3.32	3.35	3.37	3.40	3.43	3.46	3.48	3.52	0.7%	
Other Gaseous Fuels	0.13	0.13	0.13	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.26	0.28	0.27	0.27	0.28	0.29	0.30	4.4%	
Renewable Sources 4/	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.1%	
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	N/A	
Total	4.84	4.87	4.87	4.96	4.99	5.01	5.04	5.06	5.09	5.11	5.14	5.17	5.20	5.23	5.26	5.30	5.33	5.36	5.40	5.44	5.48	0.6%	

**Table 61. Electric Power Projections for Electricity Market Module Region (2 of 3)
Mid-Atlantic Area Council**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatthours)																							
Residential	83.46	86.82	89.48	92.61	94.20	95.61	96.74	97.85	98.93	99.95	100.91	101.89	102.88	104.17	105.47	106.80	107.87	109.05	110.25	111.55	112.85	1.52%	
Commercial/Other	103.29	106.99	109.22	112.58	115.60	118.37	121.25	124.06	126.82	129.63	132.19	134.84	137.48	140.32	142.68	144.83	146.74	148.59	150.37	152.11	153.78	2.0%	
Industrial	68.18	65.16	65.76	66.37	67.55	68.71	69.53	70.52	71.57	72.67	73.98	75.32	76.61	77.91	79.24	80.59	81.94	83.29	84.64	85.99	87.34	1.1%	
Transportation	1.38	1.41	1.44	1.62	1.80	1.96	2.09	2.22	2.34	2.46	2.58	2.70	2.82	2.93	3.04	3.09	3.06	3.02	2.97	2.92	2.86	3.7%	
Total Sales	246.30	250.38	255.90	263.19	269.15	274.64	279.61	284.65	289.66	294.61	299.66	304.76	309.39	314.24	318.98	323.36	327.12	330.99	334.63	338.37	341.81	1.7%	
Net Energy for Load (billion kilowatthours) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Gross Interregional Electricity Imports	38.52	35.08	38.73	38.24	38.43	38.79	37.04	39.52	40.63	42.26	44.26	42.52	42.90	42.36	42.14	42.64	44.28	43.65	43.70	44.62	45.78	0.9%	
Gross Interregional Electricity Exports	17.29	15.62	16.95	15.41	16.84	16.32	17.29	16.82	16.34	15.44	13.92	12.87	12.14	12.21	11.86	14.11	14.66	14.56	14.76	15.31	15.69	-0.5%	
Purchases from Cogenerators 8/	18.46	18.37	18.27	18.48	18.63	18.72	18.81	18.90	18.98	19.06	19.15	19.26	19.37	19.48	19.60	19.72	19.84	19.96	20.11	20.26	20.42	0.5%	
Utility Generation for Customers	225.64	231.99	235.16	241.54	248.78	253.52	261.34	263.08	268.95	269.46	271.10	276.90	280.35	285.84	290.42	296.35	299.11	303.57	307.43	310.84	313.67	1.7%	
Total Net Energy for Load	265.32	269.42	275.22	282.85	289.00	294.71	299.89	305.08	310.22	315.35	320.59	325.80	330.49	335.47	340.30	344.60	348.56	352.63	356.49	360.41	364.17	1.6%	
Generation by Fuel Type																							
(billion kilowatthours)																							
Coal	110.68	112.06	115.01	119.30	122.53	126.39	130.90	135.34	135.40	135.81	136.59	136.43	136.63	137.09	137.25	137.75	137.86	138.05	138.23	138.48	139.68	1.2%	
Petroleum	5.65	7.36	1.41	1.30	1.04	0.81	0.76	0.60	0.53	0.47	0.51	0.54	0.56	0.56	0.53	0.55	0.55	0.57	0.58	0.59	0.64	-10.3%	
Natural Gas	7.44	9.59	14.13	15.56	19.20	19.90	23.21	28.08	31.26	33.06	37.84	43.45	46.38	51.10	55.24	60.24	62.68	66.77	70.38	72.45	74.98	12.2%	
Nuclear	101.88	103.04	103.73	102.70	102.75	102.80	102.84	95.10	95.10	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	-0.6%	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	8.22	7.73	9.05	10.90	11.50	11.82	11.75	12.03	12.64	12.91	13.14	13.36	13.60	13.83	14.06	14.30	14.52	14.81	14.61	14.81	14.60	2.9%	
Total Generation	233.88	239.77	243.33	249.77	257.06	261.84	269.71	271.49	275.36	277.87	279.51	285.31	288.76	294.25	298.83	304.76	307.52	311.68	315.84	319.25	322.08	1.6%	
Sales to Customers	225.64	231.99	235.16	241.54	248.78	253.52	261.34	263.08	268.95	269.46	271.10	276.90	280.35	285.84	290.42	296.35	299.11	303.57	307.43	310.84	313.67	1.7%	
Generation for Own Use	8.24	8.18	8.17	8.23	8.28	8.32	8.37	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	0.1%	
Cogenerators																							
Coal	5.83	5.74	5.60	5.63	5.70	5.70	5.71	5.72	5.70	5.69	5.68	5.67	5.67	5.67	5.67	5.67	5.66	5.66	5.66	5.66	5.66	-0.1%	
Petroleum	0.99	1.03	0.99	1.05	1.05	1.05	1.06	1.06	1.08	1.08	1.08	1.08	1.09	1.10	1.10	1.11	1.11	1.12	1.13	1.14	1.15	0.8%	
Natural Gas	17.81	17.99	18.07	18.42	18.66	18.89	19.11	19.30	19.49	19.69	19.91	20.14	20.36	20.59	20.81	21.06	21.32	21.58	21.86	22.14	22.45	1.2%	
Other Gaseous Fuels	0.62	0.62	0.62	0.94	0.94	0.95	0.98	0.98	0.99	1.02	1.04	1.07	1.09	1.12	1.15	1.16	1.18	1.21	1.24	1.28	1.32	3.9%	
Renewable Sources 4/	0.83	0.83	0.83	0.85	0.86	0.88	0.90	0.92	0.92	0.93	0.95	0.97	0.98	1.00	1.01	1.03	1.04	1.06	1.07	1.08	1.09	1.4%	
Other	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.1%	
Total	26.36	26.51	26.40	27.17	27.51	27.77	28.05	28.27	28.46	28.69	28.94	29.22	29.50	29.77	30.04	30.31	30.62	30.92	31.25	31.59	31.97	1.0%	
Sales to Utilities	18.46	18.37	18.27	18.48	18.63	18.72	18.81	18.90	18.98	19.06	19.15	19.26	19.37	19.48	19.60	19.72	19.84	19.96	20.11	20.26	20.42	0.5%	
Generation for Own Use	7.90	8.13	8.13	8.69	8.88	9.05	9.24	9.37	9.48	9.63	9.79	9.96	10.12	10.28	10.44	10.60	10.78	10.95	11.14	11.33	11.55	1.9%	
End-Use Prices																							
(2000 cents per kilowatthour)																							
Residential	9.8	9.2	8.1	8.4	8.5	8.3	8.1	8.1	8.2	8.2	8.4	8.6	8.6	8.6	8.6	8.6	8.6	8.7	8.7	8.8	8.9	-0.5%	
Commercial	8.7	8.2	7.0	7.4	7.5	7.2	7.0	7.0	7.0	7.0	7.3	7.4	7.5	7.5	7.5	7.5	7.5	7.5	7.7	7.7	7.9	-0.5%	
Industrial	6.7	6.3	5.3	5.6	5.8	5.5	5.3	5.3	5.3	5.3	5.5	5.7	5.7	5.8	5.8	5.8	5.8	5.8	5.9	6.0	6.1	-0.4%	
Transportation	8.6	7.9	6.9	6.7	6.8	6.1	5.9	6.0	6.1	6.3	6.5	6.7	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.8	-1.2%	
All Sectors Average	8.6	8.1	7.0	7.4	7.4	7.2	7.0	7.0	7.0	7.0	7.3	7.4	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.7	7.8	-0.9%	

**Table 61. Electric Power Projections for Electricity Market Module Region (3 of 3)
Mid-Atlantic Area Council**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatthour)																						
Generation	5.5	5.2	4.2	4.4	4.5	4.3	4.1	4.1	4.0	4.1	4.3	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.7	4.8	4.9	-0.6%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-0.4%
Distribution	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.4	-0.2%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	1.10	1.11	1.14	1.19	1.22	1.26	1.30	1.35	1.35	1.36	1.36	1.36	1.36	1.36	1.38	1.38	1.38	1.39	1.39	1.40	1.40	1.2%
Natural Gas	0.07	0.09	0.14	0.15	0.17	0.18	0.20	0.23	0.24	0.25	0.29	0.34	0.35	0.39	0.41	0.44	0.46	0.46	0.46	0.51	0.52	10.6%
Oil	0.07	0.08	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10.4%
Total	1.23	1.28	1.29	1.35	1.40	1.45	1.51	1.59	1.60	1.62	1.66	1.70	1.72	1.77	1.80	1.83	1.85	1.89	1.90	1.92	1.94	2.3%
Emissions (million tons) 10/																						
Total Carbon	33.36	34.30	34.36	35.80	36.99	38.20	39.72	41.50	41.72	42.02	42.89	43.52	43.86	44.75	45.21	45.91	46.12	46.63	47.07	47.54	47.87	1.8%
Carbon Dioxide	122.32	125.78	125.98	131.28	135.64	140.08	145.64	152.15	152.98	154.09	157.25	159.58	160.83	164.09	165.77	168.32	169.11	170.99	172.59	174.31	175.53	1.8%
Sulfur Dioxide	1.04	0.95	1.19	1.00	0.93	0.91	1.03	1.06	0.96	0.94	0.89	0.83	0.83	0.73	0.72	0.74	0.74	0.74	0.72	0.72	0.74	-1.7%
Nitrogen Oxide	0.23	0.24	0.24	0.25	0.20	0.20	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	0.23	-0.1%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfur liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 62. Electric Power Projections for Electricity Market Module Region (1 of 3)
Mid-America Interconnected Network**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	26.78	26.78	26.78	-0.1%	
Other Fossil Steam 2/	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	N/A	
Combined Cycle	0.31	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.76	1.11	1.23	1.38	1.65	1.87	2.08	2.33	2.55	2.76	3.01	12.0%		
Combustion Turbine/Diesel	7.98	8.39	9.49	9.93	11.12	12.48	12.73	13.72	14.32	14.53	14.56	14.56	14.56	14.92	15.78	16.63	17.59	18.45	19.32	19.32	4.5%		
Nuclear Power	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	12.21	11.43	11.43	11.43	11.43	11.43	11.43	11.43	11.43	11.43	11.43	-0.6%	
Pumped Storage/Other 3/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	0.00	1.08	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.1%	
Distributed Generation 5/	0.00	0.00	0.00	0.04	0.10	0.16	0.23	0.30	0.43	0.56	0.71	0.78	0.89	1.02	1.16	1.28	1.40	1.53	1.66	1.80	1.84	N/A	
Total Capacity	54.09	54.82	55.93	56.41	57.67	59.08	59.39	60.45	61.18	61.52	61.99	61.07	61.35	62.11	63.38	64.58	65.91	66.40	67.61	67.91	1.1%		
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combined Cycle	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	N/A	
Combustion Turbine/Diesel	0.00	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	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	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	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	N/A	
Renewable Sources 4/	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	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Planned Additions	0.00	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	N/A	
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.63	0.78	0.90	1.18	1.40	1.61	1.86	2.07	2.28	2.54	2.54	N/A	
Combustion Turbine/Diesel	0.00	0.00	1.11	1.57	2.85	4.44	4.69	5.76	6.36	6.58	6.69	6.69	6.69	6.69	7.05	7.91	8.76	9.72	10.64	11.51	11.51	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A	
Total Unplanned Additions	0.00	0.00	1.11	1.62	2.95	4.69	4.92	6.06	6.79	7.14	7.69	8.08	8.34	8.82	9.38	10.54	11.63	13.17	14.44	15.65	15.94	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.04	0.10	0.16	0.23	0.30	0.43	0.56	0.71	0.78	0.89	1.02	1.16	1.28	1.40	1.53	1.66	1.80	1.84	N/A	
Cumulative Total Additions	0.00	0.73	1.84	2.34	3.68	5.33	5.65	6.79	7.52	7.86	8.42	8.81	9.06	9.34	10.11	11.37	12.56	13.90	15.16	16.37	16.67	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.71	0.71	0.71	N/A	
Other Fossil Steam 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.01	0.03	0.11	0.34	0.34	0.43	0.43	0.43	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.58	0.58	0.58	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	N/A	
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A	
Total	0.00	0.00	0.01	0.03	0.11	0.34	0.36	0.44	0.44	0.44	0.52	1.31	2.09	2.09	2.09	2.09	2.09	2.09	2.86	2.86	2.86	N/A	
Cogenerators 8/																							
Capability	0.84	0.84	0.84	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	-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	0.03	0.03	0.03	-0.2%	
Natural Gas	0.42	0.44	0.44	0.45	0.47	0.48	0.48	0.50	0.52	0.53	0.54	0.55	0.57	0.58	0.59	0.61	0.63	0.64	0.66	0.67	0.69	2.5%	
Other Gaseous Fuels	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	4.4%	
Renewable Sources 4/	0.20	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	2.1%	
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	N/A	
Total	1.51	1.53	1.53	1.56	1.57	1.59	1.61	1.63	1.64	1.66	1.68	1.70	1.72	1.74	1.76	1.78	1.80	1.82	1.84	1.87	1.89	1.1%	

**Table 62. Electric Power Projections for Electricity Market Module Region (2 of 3)
Mid-America Interconnected Network**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatt-hours)																							
Residential	71.22	75.02	77.15	79.81	81.38	82.81	83.77	84.70	85.71	86.89	88.10	89.27	90.46	91.70	93.08	94.55	95.80	97.03	98.24	99.59	100.97	1.8%	
Commercial/Other	75.03	78.14	79.66	81.71	83.59	85.20	86.76	88.16	89.35	90.45	91.49	92.51	93.54	94.66	95.94	97.21	98.40	99.51	100.56	101.70	102.87	1.6%	
Industrial	84.65	80.44	81.24	83.31	85.14	87.25	89.04	91.07	92.63	94.11	96.06	97.97	99.18	100.31	101.44	102.56	103.61	104.76	106.00	107.14	107.99	1.2%	
Transportation	1.06	1.08	1.10	1.24	1.38	1.50	1.61	1.70	1.79	1.89	1.98	2.07	2.16	2.25	2.33	2.36	2.34	2.31	2.27	2.23	2.18	3.7%	
Total Sales	231.95	234.68	239.16	246.07	251.49	256.86	261.17	265.63	269.48	273.34	277.63	281.82	285.33	288.93	292.77	296.69	300.15	303.61	307.07	310.65	314.01	1.5%	
Net Energy for Load (billion kilowatt-hours) 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	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	N/A	
Gross Interregional Electricity Imports	19.63	15.48	14.53	14.94	16.86	16.40	16.73	14.50	14.91	14.88	15.00	18.12	21.68	22.65	23.32	23.12	22.79	22.57	24.38	23.30	24.53	1.1%	
Gross Interregional Electricity Exports	28.37	23.78	19.16	20.12	22.81	22.48	23.88	23.74	23.29	21.10	20.14	17.79	14.93	14.67	14.02	13.75	12.72	11.55	8.96	8.07	7.18	-6.6%	
Purchases from Cogenerators 8/	1.06	1.02	1.13	1.27	1.34	1.43	1.52	1.61	1.69	1.78	1.88	1.99	2.10	2.22	2.33	2.45	2.57	2.69	2.83	2.96	3.10	5.5%	
Utility Generation for Customers	255.63	258.16	259.05	266.70	273.01	278.63	284.04	290.56	293.60	295.33	298.61	297.36	294.47	296.73	299.18	302.94	305.81	308.38	307.60	311.42	312.74	1.0%	
Total Net Energy for Load	247.94	250.88	255.55	262.79	268.41	273.98	278.40	282.93	286.91	290.90	295.35	299.68	303.33	306.50	310.82	314.75	318.44	322.10	325.84	329.61	333.20	1.5%	
Generation by Fuel Type																							
(billion kilowatt-hours)																							
Coal	148.22	155.74	155.15	162.90	168.75	174.00	180.11	186.65	188.87	190.26	191.35	193.78	195.00	195.86	196.51	197.17	197.66	198.08	193.42	193.79	194.13	1.4%	
Petroleum	3.31	0.67	0.30	0.36	0.35	0.33	0.35	0.32	0.33	0.32	0.29	0.34	0.36	0.37	0.36	0.36	0.36	0.37	0.36	0.37	0.37	-10.4%	
Natural Gas	6.78	4.06	5.90	5.51	5.49	5.58	4.76	4.56	5.04	5.16	6.07	9.18	10.73	11.88	13.46	16.00	18.27	20.36	24.19	27.60	29.56	7.5%	
Nuclear	97.63	98.23	97.46	97.65	97.84	98.02	98.21	98.40	98.59	98.78	98.97	93.24	87.51	87.70	87.89	87.95	88.00	88.01	88.01	88.01	88.01	-0.5%	
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	N/A	
Renewable Sources 4/	3.46	3.68	4.51	4.57	4.87	4.98	4.88	4.89	4.99	4.97	5.45	4.89	4.89	4.88	4.85	5.31	5.30	5.30	5.28	5.27	5.26	2.1%	
Total Generation	259.40	262.39	263.32	271.00	277.34	282.98	288.42	294.96	298.01	299.74	303.02	301.77	298.88	301.14	303.59	307.35	310.21	312.79	312.00	315.83	317.15	1.0%	
Sales to Customers	255.62	258.16	259.05	266.70	273.01	278.63	284.04	290.56	293.60	295.33	298.61	297.36	294.47	296.73	299.18	302.94	305.81	308.38	307.60	311.42	312.74	1.0%	
Generation for Own Use	3.78	4.23	4.27	4.30	4.33	4.35	4.38	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	0.8%	
Cogenerators																							
Coal	3.24	3.24	3.24	3.22	3.21	3.20	3.19	3.18	3.16	3.15	3.15	3.14	3.14	3.13	3.13	3.12	3.11	3.11	3.10	3.10	3.09	-0.2%	
Petroleum	0.45	0.45	0.45	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.55	0.55	0.55	1.1%	
Natural Gas	2.02	2.11	2.14	2.27	2.27	2.26	2.35	2.23	2.72	2.80	2.89	2.99	3.08	3.18	3.27	3.38	3.48	3.60	3.71	3.83	3.96	3.4%	
Other Gaseous Fuels	0.36	0.36	0.36	0.35	0.35	0.36	0.37	0.37	0.36	0.36	0.35	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	3.9%	
Renewable Sources 4/	1.79	1.76	1.80	1.88	1.95	2.02	2.17	2.18	2.22	2.26	2.34	2.41	2.46	2.52	2.57	2.63	2.69	2.74	2.78	2.83	2.83	2.3%	
Other	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.1%	
Total	7.96	8.02	8.09	8.52	8.68	8.85	9.02	8.17	9.24	9.38	9.53	9.72	9.89	10.06	10.22	10.38	10.56	10.74	10.93	11.12	11.32	1.8%	
Sales to Utilities	1.06	1.02	1.13	1.27	1.34	1.43	1.52	1.61	1.69	1.78	1.88	1.99	2.10	2.22	2.33	2.45	2.57	2.69	2.83	2.96	3.10	5.5%	
Generation for Own Use	6.90	7.00	6.96	7.25	7.33	7.42	7.50	7.56	7.55	7.59	7.65	7.73	7.79	7.84	7.89	7.94	8.00	8.05	8.11	8.16	8.22	0.9%	
End-Use Prices																							
(2000 cents per kilowatt-hour)																							
Residential	8.6	8.4	8.0	7.7	7.7	7.8	7.7	7.5	7.6	7.6	7.6	7.8	7.9	7.9	7.8	7.7	7.7	7.7	7.8	7.8	7.8	-0.5%	
Commercial	7.2	6.9	6.5	6.6	6.6	6.5	6.4	6.3	6.3	6.3	6.3	6.5	6.7	6.8	6.8	6.8	6.7	6.6	6.7	6.8	6.7	-0.3%	
Industrial	4.7	4.5	4.2	4.3	4.3	4.3	4.2	4.1	4.1	4.1	4.2	4.3	4.5	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.5	-0.2%	
Transportation	7.1	6.6	6.2	5.9	5.8	5.3	5.3	5.4	5.6	5.7	5.9	6.1	6.2	6.3	6.3	6.2	6.2	6.1	6.1	6.0	5.9	-0.9%	
All Sectors Average	6.7	6.5	6.2	6.2	6.2	6.1	6.1	6.1	6.0	6.0	6.0	6.1	6.3	6.4	6.3	6.3	6.2	6.2	6.3	6.3	6.3	-0.3%	

**Table 62. Electric Power Projections for Electricity Market Module Region (3 of 3)
Mid-America Interconnected Network**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatthour)																						
Generation	4.3	4.2	3.9	3.9	3.9	3.8	3.8	3.7	3.6	3.6	3.7	3.8	4.0	4.1	4.1	4.0	4.0	3.9	4.0	4.0	4.1	-0.3%
Transmission	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.6%
Distribution	1.9	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	-0.3%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	1.54	1.63	1.62	1.70	1.76	1.83	1.89	1.96	1.99	2.00	2.01	2.04	2.06	2.07	2.07	2.08	2.09	2.09	2.04	2.05	2.05	1.4%
Natural Gas	0.08	0.04	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.07	0.09	0.10	0.11	0.12	0.14	0.15	0.17	0.20	0.23	0.23	5.3%
Oil	0.04	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	-11.2%
Total	1.66	1.68	1.69	1.77	1.83	1.89	1.95	2.01	2.04	2.06	2.08	2.13	2.16	2.18	2.20	2.22	2.25	2.26	2.25	2.28	2.29	1.6%
Emissions (million tons) 10/																						
Total Carbon	46.17	46.88	46.99	49.35	51.09	52.79	54.53	56.46	57.27	57.74	58.27	59.38	60.02	60.47	60.87	61.42	61.86	62.24	61.37	61.97	62.19	1.5%
Carbon Dioxide	169.31	171.90	172.28	180.95	187.33	193.57	199.94	207.03	210.00	211.71	213.65	217.72	220.08	221.73	223.21	225.22	226.82	228.23	225.04	227.21	228.04	1.5%
Sulfur Dioxide	0.98	1.09	0.99	1.03	1.00	0.98	0.95	0.92	0.90	0.88	0.86	0.84	0.83	0.84	0.83	0.82	0.81	0.81	0.78	0.78	0.78	-1.2%
Nitrogen Oxide	0.33	0.35	0.34	0.37	0.32	0.33	0.34	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.6%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-862B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

Table 63. Electric Power Projections for Electricity Market Module Region (1 of 3)
Mid-Continent Area Power Pool

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	19.86	19.86	19.86	19.86	19.86	19.86	19.83	19.83	19.83	19.83	19.83	19.83	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	20.18	0.1%
Other Fossil Steam 2/	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	N/A
Combined Cycle	0.39	0.39	0.39	0.39	0.39	0.39	0.72	1.09	1.47	1.85	2.17	2.32	2.32	2.32	2.63	3.06	3.43	3.82	4.23	4.47	4.74	13.9%	
Combustion Turbine/Diesel	5.40	5.79	6.43	6.84	7.59	7.53	7.78	8.07	8.22	8.22	8.24	8.43	8.65	9.03	9.39	9.51	9.84	10.50	10.92	11.42	11.09	3.7%	
Nuclear Power	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.29	2.53	2.53	2.53	2.53	2.53	2.53	-2.0%	
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	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	3.25	4.09	4.24	4.28	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.33	0.5%	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.04	0.07	0.11	0.15	0.18	0.22	0.25	0.28	0.38	0.44	0.53	0.61	0.70	0.78	0.87	0.96	1.05	N/A	
Total Capacity	33.93	34.47	35.25	35.71	36.52	36.49	37.08	37.78	38.36	38.77	39.14	39.50	39.80	40.36	40.54	40.42	41.21	42.34	43.26	44.11	44.48	1.4%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A	
Combustion Turbine/Diesel	0.00	0.39	0.39	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	
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	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	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	N/A	
Renewable Sources 4/	0.00	0.15	0.29	0.33	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	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Planned Additions	0.00	0.54	0.68	1.06	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 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	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	0.33	0.70	1.08	1.46	1.78	1.93	1.93	1.93	2.24	2.57	2.97	3.43	3.84	4.26	4.58	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.64	0.72	1.47	1.54	1.79	2.08	2.24	2.24	2.25	2.44	2.66	3.04	3.40	3.52	3.85	4.51	4.93	5.43	5.89	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	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	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	N/A
Total Unplanned Additions	0.00	0.00	0.64	0.72	1.51	1.61	2.23	2.93	3.50	3.91	4.29	4.65	4.95	5.42	6.17	6.90	7.60	8.72	9.65	10.50	11.67	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.04	0.07	0.11	0.15	0.18	0.22	0.25	0.28	0.38	0.44	0.53	0.61	0.70	0.78	0.87	0.96	1.05	N/A	
Cumulative Total Additions	0.00	0.54	1.32	1.78	2.59	2.69	3.31	4.01	4.58	4.99	5.37	5.73	6.03	6.50	7.25	7.88	8.68	9.80	10.73	11.58	12.75	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	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	0.93	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	0.48	1.23	1.23	1.23	1.23	1.23	1.23	N/A	
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	0.00	0.00	0.00	0.00	0.00	0.13	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.64	1.40	1.40	1.40	1.40	1.40	1.40	2.19	N/A
Cogenerators 8/																							
Capability	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	-0.1%	
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	-0.2%	
Natural Gas	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.07	0.08	3.8%	
Other Gaseous Fuels	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	4.4%	
Renewable Sources 4/	0.24	0.24	0.24	0.25	0.26	0.27	0.28	0.29	0.29	0.29	0.30	0.31	0.32	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.36	2.0%	
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	0.93	0.93	0.93	0.96	0.96	0.98	0.99	1.00	1.00	1.01	1.01	1.03	1.04	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	0.9%	

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**Table 63. Electric Power Projections for Electricity Market Module Region (3 of 3)
Mid-Continent Area Power Pool**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
<i>(2000 cents/kilowatthour)</i>																						
Generation	3.3	3.0	2.9	2.8	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	-1.1%
Transmission	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.6%
Distribution	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	-0.5%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	1.28	1.30	1.30	1.37	1.43	1.48	1.52	1.55	1.58	1.55	1.55	1.56	1.56	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.60	1.1%
Natural Gas	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.11	0.13	0.15	0.17	0.19	0.20	0.21	10.7%
Oil	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.5%
Total	1.31	1.34	1.34	1.41	1.48	1.52	1.56	1.60	1.61	1.60	1.62	1.63	1.65	1.68	1.69	1.71	1.73	1.75	1.77	1.78	1.81	1.6%
Emissions (million tons) 10/																						
Total Carbon	37.50	38.05	38.01	40.14	42.08	43.29	44.48	45.46	45.74	45.55	45.83	46.11	46.46	46.75	47.14	47.53	47.80	48.25	48.57	48.70	49.50	1.4%
Carbon Dioxide	137.49	139.53	139.38	147.17	154.31	158.73	163.09	166.67	167.71	167.02	168.06	169.08	170.37	171.42	172.85	174.28	175.28	176.92	178.10	178.58	181.50	1.4%
Sulfur Dioxide	0.48	0.49	0.48	0.49	0.50	0.52	0.52	0.52	0.51	0.50	0.51	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.4%
Nitrogen Oxide	0.26	0.27	0.27	0.28	0.29	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	1.0%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-862B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

OM = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

Table 64. Electric Power Projections for Electricity Market Module Region (1 of 3)
Northeast Power Coordinating Council / New York

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generating Capacity 1/																						
(gigawatts)																						
Coal Steam	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	-0.1%
Other Fossil Steam 2/	12.36	12.36	12.36	12.36	11.25	10.35	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	-1.5%
Combined Cycle	0.63	0.63	0.63	0.63	0.63	1.34	3.04	3.65	4.23	4.74	4.92	5.31	5.61	5.66	5.97	6.13	6.23	6.25	6.30	6.30	6.30	12.2%
Combustion Turbine/Diesel	3.64	3.64	3.64	3.64	3.64	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	0.8%
Nuclear Power	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	-1.1%
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	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	N/A
Renewable Sources 4/	4.55	4.63	4.78	4.85	4.92	4.99	5.13	5.13	5.13	5.13	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	0.6%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.4%
Total Capacity	31.02	31.10	31.24	31.31	30.27	30.84	31.54	32.15	32.73	33.23	33.46	33.85	34.09	34.14	33.48	33.64	33.76	33.81	33.81	33.81	33.81	0.4%
Cumulative Planned Additions 6/																						
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	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	N/A
Renewable Sources 4/	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	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	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	N/A
Cumulative Unplanned Additions 6/																						
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.71	2.41	3.02	3.60	4.10	4.29	4.68	4.98	5.03	5.24	5.50	5.62	5.67	5.67	5.67	5.67	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	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	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	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	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	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Cumulative Total Additions	0.00	0.01	0.01	0.01	0.01	1.67	3.38	3.99	4.57	5.07	5.30	5.69	5.99	6.04	6.35	6.51	6.51	6.63	6.68	6.68	6.68	N/A
Cumulative Retirements 7/																						
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	1.11	2.01	2.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	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	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	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	0.97	0.97	0.97	0.97	0.97	0.97	0.97	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	1.11	2.29	3.43	3.43	3.43	3.43	3.43	3.43	3.50	3.50	4.47	4.47	4.47	4.47	4.47	4.47	4.47	N/A
Cogenerators 8/																						
Capability																						
Coal	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-0.1%
Petroleum	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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.1%
Natural Gas	3.79	3.80	3.80	3.81	3.82	3.82	3.83	3.84	3.85	3.85	3.86	3.87	3.88	3.88	3.89	3.90	3.91	3.92	3.93	3.94	3.95	0.2%
Other Gaseous Fuels	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	4.4%
Renewable Sources 4/	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	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	N/A
Total	4.41	4.42	4.42	4.44	4.45	4.47	4.48	4.49	4.50	4.51	4.52	4.53	4.55	4.56	4.57	4.58	4.60	4.61	4.62	4.64	4.65	0.3%

**Table 64. Electric Power Projections for Electricity Market Module Region (2 of 3)
Northeast Power Coordinating Council / New York**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Demand																						
(billion kilowatthours)																						
Residential	43.47	45.25	46.56	48.13	48.83	49.42	49.90	50.36	50.79	51.17	51.49	51.80	52.18	52.61	53.11	53.62	53.99	54.40	54.85	55.33	55.82	1.3%
Commercial/Other	63.81	66.32	67.15	68.96	70.52	71.90	73.34	74.68	75.96	77.15	78.28	79.36	80.37	81.34	82.16	82.58	82.77	82.90	82.98	83.01	83.00	1.3%
Industrial	25.14	23.83	24.11	24.28	24.79	25.29	25.62	26.02	26.47	26.94	27.50	28.06	28.37	28.74	29.05	29.40	29.74	30.06	30.37	30.67	30.97	1.0%
Transportation	0.90	0.92	0.94	1.05	1.16	1.26	1.35	1.42	1.49	1.57	1.64	1.71	1.78	1.85	1.91	1.94	1.91	1.88	1.85	1.81	1.77	3.4%
Total Sales	133.32	136.32	138.75	142.42	145.29	147.87	150.20	152.48	154.71	156.83	158.91	160.93	162.70	164.54	166.23	167.54	168.41	169.24	170.05	170.83	171.46	1.3%
Net Energy for Load (billion kilowatthours) 7/																						
Gross International Imports	15.58	17.84	19.10	21.38	23.79	23.84	22.57	22.11	22.38	22.07	22.64	23.00	23.14	23.54	22.98	24.46	24.45	23.91	23.44	22.88	22.02	1.7%
Gross International Exports	1.45	1.46	1.47	1.48	1.50	1.51	1.52	1.53	1.54	1.56	1.57	1.56	1.56	1.56	1.56	1.56	1.55	1.55	1.55	1.55	1.55	0.3%
Gross Interregional Electricity Imports	17.58	16.25	16.46	14.41	16.13	15.64	16.46	16.66	16.52	15.73	14.44	13.13	12.31	12.46	12.06	14.57	15.21	15.08	15.18	15.62	16.12	-0.4%
Gross Interregional Electricity Exports	9.23	5.89	4.14	6.11	5.81	7.01	8.47	8.46	8.06	8.10	7.31	6.75	6.49	6.58	6.04	4.78	4.51	4.15	3.89	3.51	1.86	-7.7%
Purchases from Cogenerators 8/	20.37	20.35	20.38	20.44	20.47	20.59	20.53	20.56	20.59	20.62	20.66	20.70	20.74	20.78	20.82	20.86	20.90	20.95	21.00	21.05	21.10	0.2%
Utility Generation for Customers	102.75	99.76	99.98	102.55	103.15	107.43	111.72	114.10	116.06	119.33	121.37	123.73	125.85	127.15	129.22	125.24	125.24	126.40	127.31	127.94	127.21	1.2%
Total Net Energy for Load	143.59	146.85	149.41	153.19	156.24	158.89	161.30	163.64	165.95	168.10	170.24	172.24	173.98	175.79	177.46	178.79	179.74	180.63	181.49	182.33	183.04	1.2%
Generation by Fuel Type																						
(billion kilowatthours)																						
Coal	22.90	23.03	22.99	23.33	23.80	24.23	24.66	25.06	24.95	24.86	24.79	24.69	24.71	24.76	24.77	24.79	24.79	24.80	24.80	24.81	24.81	0.4%
Petroleum	11.82	13.46	4.79	2.62	2.70	1.70	1.07	0.62	0.78	0.74	0.73	0.71	0.75	1.11	1.24	1.65	1.95	2.07	2.19	2.52	2.55	-7.4%
Natural Gas	10.91	10.24	14.72	18.08	17.89	22.31	26.08	28.06	29.98	33.19	34.76	37.16	38.08	39.87	41.72	43.99	43.65	44.69	45.47	45.68	45.04	7.9%
Nuclear	39.52	40.01	39.76	39.86	39.96	40.06	40.16	40.26	40.37	40.47	40.57	40.67	40.77	40.87	40.97	41.07	41.17	41.27	41.37	41.47	41.57	-0.7%
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	17.34	14.75	18.57	20.22	20.55	20.88	21.50	21.65	21.75	21.85	22.29	22.28	22.27	22.27	22.26	22.25	22.25	22.24	22.23	22.23	22.21	1.2%
Total Generation	102.48	101.50	100.83	104.31	104.89	109.19	113.49	115.88	117.84	121.12	123.15	125.51	127.59	128.90	130.97	129.99	128.99	128.14	129.05	129.59	128.96	1.2%
Sales to Customers	100.75	99.76	99.98	102.55	103.15	107.43	111.72	114.10	116.06	119.33	121.37	123.73	125.85	127.15	129.22	125.24	125.24	126.40	127.31	127.94	127.21	1.2%
Generation for Own Use	1.73	1.74	1.75	1.76	1.75	1.76	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.0%
Cogenerators																						
Coal	1.34	1.34	1.32	1.32	1.32	1.31	1.31	1.31	1.30	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28	-0.2%
Petroleum	0.27	0.27	0.27	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.9%
Natural Gas	20.57	20.82	20.63	20.70	20.76	20.89	20.85	20.90	20.94	20.98	21.03	21.08	21.13	21.18	21.22	21.26	21.33	21.39	21.45	21.51	21.58	0.2%
Other Gaseous Fuels	0.19	0.19	0.19	0.28	0.28	0.29	0.29	0.29	0.30	0.31	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.39	0.40	3.9%
Renewable Sources 4/	1.04	1.02	1.04	1.07	1.08	1.11	1.13	1.15	1.15	1.16	1.17	1.19	1.21	1.23	1.24	1.26	1.27	1.29	1.30	1.32	1.33	1.2%
Other	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1%
Total	23.46	23.49	23.51	23.72	23.79	23.86	23.93	24.00	24.04	24.10	24.16	24.24	24.32	24.39	24.46	24.54	24.62	24.69	24.78	24.87	24.96	0.3%
Sales to Utilities	20.37	20.35	20.38	20.44	20.47	20.59	20.53	20.56	20.59	20.62	20.66	20.70	20.74	20.78	20.82	20.86	20.90	20.95	21.00	21.05	21.10	0.2%
Generation for Own Use	3.08	3.13	3.12	3.27	3.32	3.36	3.40	3.43	3.44	3.47	3.51	3.55	3.58	3.62	3.65	3.68	3.71	3.75	3.79	3.82	3.86	1.1%
End-Use Prices																						
(2000 cents per kilowatthour)																						
Residential	13.4	13.7	12.8	12.1	12.1	12.0	11.7	11.5	11.4	11.5	11.6	11.7	11.7	11.7	11.8	11.9	12.0	12.0	12.0	12.0	12.0	-0.5%
Commercial	11.2	10.8	9.8	9.3	9.2	8.9	8.7	8.6	8.4	8.4	8.5	8.6	8.6	8.7	8.7	8.9	9.1	9.1	9.1	9.2	9.3	-0.9%
Industrial	4.9	4.9	4.6	4.5	4.8	4.8	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	0.7%
Transportation	10.8	10.5	9.8	8.7	8.4	7.9	7.8	7.9	8.0	8.1	8.3	8.4	8.6	8.7	8.8	8.9	8.8	8.8	8.7	8.6	8.5	-1.2%
All Sectors Average	10.7	10.7	9.9	9.4	9.4	9.2	9.0	8.9	8.8	8.8	8.9	8.9	9.0	9.0	9.1	9.2	9.3	9.4	9.4	9.4	9.4	-0.6%

**Table 64. Electric Power Projections for Electricity Market Module Region (3 of 3)
Northeast Power Coordinating Council / New York**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatt-hour)																						
Generation	5.9	5.9	5.2	4.7	4.7	4.5	4.3	4.2	4.0	4.0	4.1	4.1	4.2	4.3	4.3	4.5	4.6	4.7	4.7	4.8	4.9	-0.9%
Transmission	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	-0.5%
Distribution	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.3	3.3	-0.1%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.4%
Natural Gas	0.11	0.10	0.15	0.18	0.18	0.21	0.21	0.22	0.23	0.25	0.26	0.27	0.29	0.29	0.30	0.32	0.32	0.33	0.34	0.34	0.33	5.6%
Oil	0.12	0.14	0.05	0.03	0.03	0.02	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	0.03	0.03	-7.4%
Total	0.47	0.48	0.44	0.46	0.46	0.48	0.48	0.49	0.49	0.51	0.52	0.54	0.55	0.56	0.57	0.60	0.60	0.60	0.61	0.62	0.61	1.3%
Emissions (million tons) 10/																						
Total Carbon	11.32	11.61	10.15	10.35	10.42	10.69	10.73	10.91	11.00	11.29	11.44	11.64	11.85	12.07	12.27	12.66	12.70	12.83	12.97	13.09	13.02	0.7%
Carbon Dioxide	41.52	42.58	37.23	37.94	38.20	39.19	39.33	40.01	40.33	41.40	41.96	42.69	43.44	44.24	44.98	46.43	46.58	47.05	47.56	48.01	47.75	0.7%
Sulfur Dioxide	0.28	0.30	0.25	0.22	0.22	0.21	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-2.1%
Nitrogen Oxide	0.06	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.6%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-862B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 65. Electric Power Projections for Electricity Market Module Region (1 of 3)
Northeast Power Coordinating Council / New England**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	N/A
Other Fossil Steam 2/	7.80	7.80	7.80	7.80	7.38	7.07	7.07	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	-1.2%
Combined Cycle	4.53	5.20	5.20	5.20	5.20	6.01	6.01	6.88	7.58	7.58	7.92	8.38	8.57	8.82	9.20	9.30	9.51	9.70	9.78	9.80	10.01	4.0%	
Combustion Turbine/Diesel	1.86	1.75	1.75	1.75	1.75	1.75	1.75	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	0.6%
Nuclear Power	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	-0.8%
Pumped Storage/Other 3/	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	3.21	3.21	3.22	3.25	3.29	3.34	3.39	3.45	3.50	3.56	3.61	3.61	3.61	3.61	3.63	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.7%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.18	0.19	0.22	0.24	0.28	0.28	0.33	0.33	0.34	0.36	0.38	0.39	0.40	N/A
Total Capacity	25.53	26.10	26.10	26.14	25.75	26.30	26.39	26.88	27.64	27.75	28.16	28.65	28.86	28.47	28.88	29.07	29.23	29.40	29.59	29.73	29.85	0.8%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	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 Sources 4/	0.00	0.01	0.01	0.05	0.08	0.11	0.17	0.22	0.27	0.33	0.38	0.38	0.38	0.38	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	0.68	0.68	0.72	0.75	0.78	0.84	0.89	0.94	1.00	1.05	1.05	1.05	1.05	1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	N/A
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.80	1.68	2.35	2.38	2.71	3.17	3.36	3.62	4.00	4.10	4.36	4.49	4.57	4.65	4.81	4.81	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	N/A
Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.83	0.86	2.19	2.90	2.95	3.31	3.80	4.01	4.29	4.70	4.84	5.06	5.27	5.37	5.50	5.62	5.62	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.18	0.19	0.22	0.24	0.28	0.28	0.33	0.33	0.34	0.36	0.38	0.39	0.40	0.40	N/A
Cumulative Total Additions	0.00	0.68	0.68	0.72	0.75	1.61	1.70	3.08	3.84	3.95	4.36	4.85	5.06	5.34	5.75	5.94	6.16	6.37	6.46	6.60	6.72	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.43	0.73	0.73	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 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	0.00	0.11	0.11	0.11	0.53	0.84	0.84	1.73	1.73	1.73	1.73	1.73	1.73	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	N/A
Cogenerators 8/																							
Capability																							
Coal	0.32	0.32	0.32	0.32	0.32	0.32	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	-0.3%
Petroleum	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-0.2%
Natural Gas	2.15	2.18	2.19	2.41	2.43	2.45	2.48	2.48	2.51	2.53	2.55	2.58	2.60	2.62	2.64	2.67	2.69	2.72	2.75	2.77	2.80	2.80	1.3%
Other Gaseous Fuels	0.06	0.06	0.06	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	4.4%
Renewable Sources 4/	0.99	0.99	0.99	1.02	1.04	1.08	1.11	1.14	1.14	1.16	1.18	1.22	1.24	1.27	1.29	1.31	1.33	1.35	1.37	1.38	1.41	1.41	1.8%
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	N/A
Total	3.67	3.70	3.70	3.99	4.04	4.10	4.13	4.18	4.21	4.25	4.29	4.35	4.40	4.45	4.50	4.55	4.60	4.65	4.70	4.75	4.80	1.4%	

**Table 65. Electric Power Projections for Electricity Market Module Region (2 of 3)
Northeast Power Coordinating Council / New England**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatt-hours)																							
Residential	41.51	42.89	43.85	45.42	46.26	47.02	47.61	48.23	48.85	49.35	49.82	50.27	50.75	51.20	51.70	52.26	52.69	53.16	53.65	54.17	54.76	1.42%	
Commercial/Other	41.31	43.63	44.02	45.55	46.88	48.03	49.09	50.14	51.18	52.13	53.01	53.86	54.69	55.42	56.14	56.77	57.37	57.93	58.51	59.11	59.73	1.9%	
Industrial	26.11	24.71	24.99	25.47	25.87	26.37	26.81	27.30	27.71	28.14	28.67	29.22	29.56	29.91	30.20	30.49	30.78	31.11	31.45	31.73	31.93	1.0%	
Transportation	0.78	0.80	0.82	0.93	1.03	1.12	1.20	1.27	1.34	1.42	1.49	1.56	1.62	1.69	1.75	1.78	1.76	1.74	1.71	1.68	1.65	3.8%	
Total Sales	109.72	112.03	113.67	117.37	120.04	122.54	124.71	126.94	129.09	131.03	132.98	134.91	136.63	138.22	139.80	141.30	142.60	143.94	145.32	146.69	148.07	1.5%	
Net Energy for Load (billion kilowatt-hours) 7/																							
Gross International Imports	10.73	8.10	12.00	12.94	12.64	13.99	13.53	12.75	12.54	12.52	12.50	12.29	12.12	12.02	11.48	12.95	12.17	11.68	11.49	11.39	14.65	1.6%	
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	N/A	
Gross Interregional Electricity Imports	2.59	2.66	1.80	2.82	3.45	4.45	6.40	6.59	6.39	6.54	5.89	5.47	5.30	5.60	5.21	4.13	4.00	3.77	3.65	3.36	1.81	-1.8%	
Gross Interregional Electricity Exports	2.44	1.21	0.02	0.05	0.24	0.25	0.29	0.54	0.84	0.76	0.95	0.81	0.83	0.60	0.55	0.85	0.91	0.86	0.76	0.65	0.77	-5.6%	
Purchases from Cogenerators 8/	10.95	10.93	11.73	13.50	13.48	13.14	13.18	13.00	12.77	13.07	13.20	13.11	13.32	13.72	13.73	13.94	14.12	14.38	14.63	14.87	14.84	1.5%	
Utility Generation for Customers	97.58	101.40	98.13	98.35	101.06	101.71	102.54	105.90	109.06	110.57	113.33	115.85	117.74	118.49	120.94	122.09	124.27	126.13	127.54	129.03	128.91	1.4%	
Total Net Energy for Load	119.41	121.89	123.63	127.56	130.40	133.05	135.36	137.69	139.93	141.94	143.97	145.91	147.64	149.23	150.80	152.26	153.65	155.09	156.55	158.01	159.45	1.5%	
Generation by Fuel Type																							
(billion kilowatt-hours)																							
Coal	17.79	17.81	17.72	18.21	18.63	18.98	19.30	19.63	19.63	19.63	19.63	19.63	19.63	19.63	19.63	19.63	19.63	19.63	19.64	19.64	19.64	0.5%	
Petroleum	21.17	21.10	5.55	7.54	9.81	7.48	6.00	6.22	5.79	6.09	6.13	5.48	5.80	7.23	7.13	7.49	7.73	8.13	8.58	8.91	9.06	-4.2%	
Natural Gas	20.86	25.18	36.54	33.82	33.53	35.74	35.42	39.71	43.08	43.95	46.40	49.42	50.91	54.72	57.13	57.67	59.48	60.94	61.88	63.04	62.83	5.7%	
Nuclear	31.24	31.69	31.53	31.67	31.81	31.95	32.07	32.14	32.21	32.28	32.35	32.40	32.50	32.60	32.67	32.81	32.91	32.91	32.91	32.91	32.91	-0.5%	
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	N/A	
Renewable Sources 4/	10.88	10.11	11.21	11.53	11.65	11.94	12.11	12.31	12.51	12.71	12.91	12.97	12.97	13.03	13.19	13.25	13.24	13.24	13.24	13.24	13.24	1.0%	
Total Generation	101.95	105.88	102.54	102.77	105.44	106.09	106.92	110.07	113.24	114.74	117.51	120.02	121.91	122.66	125.11	126.26	128.45	130.31	131.71	133.21	133.09	1.3%	
Sales to Customers	97.58	101.40	98.13	98.35	101.06	101.71	102.54	105.90	109.06	110.57	113.33	115.85	117.74	118.49	120.94	122.09	124.27	126.13	127.54	129.03	128.91	1.4%	
Generation for Own Use	4.37	4.48	4.42	4.42	4.38	4.38	4.38	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	-0.2%	
Cogenerators																							
Coal	2.17	2.12	2.05	2.07	2.10	2.10	2.10	2.10	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	-0.2%	
Petroleum	1.77	2.67	1.83	2.00	2.07	2.04	2.05	2.04	2.05	2.06	2.06	2.08	2.09	2.12	2.11	2.11	2.13	2.15	2.17	2.21	2.22	1.1%	
Natural Gas	10.59	10.07	11.43	12.90	12.76	12.49	12.39	12.15	11.89	12.11	12.17	11.99	12.10	12.40	12.35	12.46	12.54	12.69	12.81	12.92	12.78	0.9%	
Other Gaseous Fuels	1.29	1.28	1.29	1.94	1.95	1.97	2.02	2.02	2.05	2.11	2.16	2.21	2.27	2.32	2.37	2.40	2.45	2.50	2.58	2.65	2.74	3.9%	
Renewable Sources 4/	5.09	4.87	5.15	5.38	5.53	5.70	5.87	6.03	6.04	6.14	6.23	6.42	6.56	6.69	6.81	6.93	7.06	7.18	7.30	7.40	7.50	2.0%	
Other	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.1%	
Total	20.87	21.08	21.81	24.37	24.46	24.27	24.49	24.40	24.17	24.55	24.76	24.85	25.18	25.69	25.78	26.06	26.33	26.67	27.01	27.33	27.39	1.3%	
Sales to Utilities	10.95	10.93	11.73	13.50	13.48	13.14	13.18	13.00	12.77	13.07	13.20	13.11	13.32	13.72	13.73	13.94	14.12	14.38	14.63	14.87	14.84	1.5%	
Generation for Own Use	10.02	10.14	10.08	10.87	10.98	11.13	11.31	11.41	11.40	11.48	11.58	11.73	11.86	11.96	12.05	12.11	12.21	12.29	12.38	12.46	12.55	1.1%	
End-Use Prices																							
(2000 cents per kilowatt-hour)																							
Residential	11.6	12.1	11.5	10.8	10.8	10.6	10.4	10.2	10.1	10.2	10.2	10.2	10.3	10.4	10.4	10.4	10.4	10.5	10.6	10.6	10.6	-0.5%	
Commercial	9.7	9.8	8.8	8.3	8.2	7.9	7.8	7.6	7.4	7.5	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.9	8.0	8.1	8.1	-0.9%	
Industrial	7.7	7.9	7.3	6.7	6.6	6.3	6.0	5.8	5.5	5.5	5.6	5.6	5.6	5.8	5.8	5.8	5.8	6.0	6.1	6.1	6.2	-1.1%	
Transportation	10.9	10.3	9.8	8.6	8.1	7.7	7.6	7.7	7.7	7.9	8.1	8.2	8.3	8.5	8.6	8.6	8.6	8.5	8.5	8.4	8.4	-1.4%	
All Sectors Average	10.0	10.3	9.5	8.8	8.9	8.6	8.4	8.2	8.0	8.1	8.1	8.1	8.1	8.3	8.3	8.3	8.4	8.4	8.5	8.6	8.6	-0.7%	

**Table 65. Electric Power Projections for Electricity Market Module Region (3 of 3)
Northeast Power Coordinating Council / New England**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatt-hour)																						
Generation	5.6	6.0	5.3	4.7	4.7	4.4	4.2	4.0	3.8	3.9	3.9	3.9	4.0	4.1	4.1	4.2	4.2	4.3	4.4	4.5	4.6	-1.1%
Transmission	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0%
Distribution	3.3	3.3	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	-0.4%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.5%
Natural Gas	0.18	0.21	0.31	0.28	0.28	0.29	0.29	0.31	0.33	0.34	0.35	0.37	0.38	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	4.9%
Oil	0.22	0.21	0.05	0.07	0.10	0.07	0.08	0.08	0.06	0.06	0.06	0.05	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	-4.3%
Total	0.57	0.59	0.54	0.54	0.56	0.55	0.55	0.57	0.58	0.59	0.61	0.62	0.63	0.68	0.69	0.70	0.71	0.72	0.74	0.75	0.74	1.4%
Emissions (million tons) 10/																						
Total Carbon	12.83	13.10	11.03	11.23	11.80	11.51	11.69	11.80	12.01	12.20	12.47	12.63	12.85	13.63	13.85	13.98	14.23	14.48	14.70	14.90	14.87	0.7%
Carbon Dioxide	47.04	48.04	40.45	41.19	43.28	42.22	42.86	43.27	44.04	44.75	45.71	46.29	47.13	49.89	50.78	51.25	52.18	53.09	53.88	54.65	54.51	0.7%
Sulfur Dioxide	0.24	0.25	0.16	0.17	0.18	0.16	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	-1.5%
Nitrogen Oxide	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-1.0%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-862B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

CEM = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

Table 66. Electric Power Projections for Electricity Market Module Region (1 of 3)
Florida Reliability Coordinating Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/																							
(gigawatts)																							
Coal Steam	10.31	10.31	10.84	10.84	9.72	9.72	9.72	9.72	9.72	9.80	9.80	9.90	9.90	9.90	9.90	10.04	10.28	10.54	11.01	11.52	0.6%		
Other Fossil Steam 2/	13.06	12.75	11.87	11.14	11.08	11.01	11.01	11.01	11.01	10.92	10.92	10.92	10.88	10.68	10.68	10.68	10.18	10.18	10.18	10.18	10.18	-1.2%	
Combined Cycle	4.28	4.63	5.65	6.66	8.05	9.45	10.76	12.44	13.83	15.06	16.22	17.42	18.57	19.67	20.79	21.58	22.38	23.24	24.08	24.65	25.21	9.3%	
Combustion Turbine/Diesel	6.20	6.73	7.51	8.03	8.15	8.26	8.48	8.52	8.77	9.20	9.42	9.32	9.32	9.70	10.05	10.67	11.07	11.70	12.32	12.91	13.28	3.9%	
Nuclear Power	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	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	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	N/A	
Renewable Sources 4/	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.64	0.4%	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.02	0.05	0.08	0.08	0.14	0.21	0.27	0.27	0.23	0.36	0.42	0.49	0.56	0.63	0.70	0.77	0.85	N/A	
Total Capacity	38.33	38.81	40.35	40.15	41.51	42.97	44.53	46.24	47.98	49.87	51.23	52.33	53.50	54.81	56.35	57.73	59.22	60.53	62.33	64.03	65.57	2.7%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combined Cycle	0.00	0.25	0.71	0.71	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	N/A
Combustion Turbine/Diesel	0.00	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	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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	0.79	1.24	1.24	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	N/A
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.32	0.56	0.82	1.29	1.78	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.93	2.32	3.63	5.31	6.70	7.93	9.09	10.29	11.44	12.54	13.68	14.85	15.25	16.11	16.95	17.52	18.08	18.08	N/A
Combustion Turbine/Diesel	0.00	0.00	0.79	1.31	1.49	1.80	1.95	2.07	2.34	2.76	3.25	3.25	3.25	3.64	3.99	4.51	5.00	5.64	6.28	6.84	7.21	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.05	N/A
Total Unplanned Additions	0.00	0.00	0.79	1.31	2.44	3.97	5.66	7.45	9.21	11.09	12.81	14.01	15.18	16.73	18.26	19.65	21.14	22.95	24.75	26.45	27.99	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.02	0.05	0.08	0.08	0.14	0.21	0.27	0.27	0.23	0.36	0.42	0.49	0.56	0.63	0.70	0.77	0.85	N/A	
Cumulative Total Additions	0.00	0.79	2.03	2.56	5.16	6.69	8.38	10.17	11.92	13.81	15.53	16.73	17.90	19.44	20.98	22.36	23.86	25.67	27.47	29.17	30.71	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	N/A	
Other Fossil Steam 2/	0.00	0.21	0.21	0.55	0.61	0.69	0.69	0.69	0.69	0.69	0.77	0.77	0.77	1.01	1.01	1.01	1.01	1.52	1.52	1.52	1.52	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	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.01	0.01	0.07	0.07	0.21	0.28	0.30	0.30	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 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	0.00	0.21	0.22	0.56	1.80	1.87	2.01	2.08	2.10	2.10	2.45	2.56	2.56	2.79	2.79	2.79	2.79	3.30	3.30	3.30	3.30	N/A	
Cogenerators 8/																							
Capability																							
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	N/A	
Petroleum	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.02%	
Natural Gas	1.13	1.15	1.15	1.17	1.19	1.21	1.23	1.25	1.26	1.28	1.30	1.32	1.34	1.38	1.38	1.40	1.42	1.44	1.47	1.48	1.52	1.5%	
Other Gaseous Fuels	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.4%	
Renewable Sources 4/	0.26	0.26	0.26	0.27	0.28	0.29	0.30	0.32	0.32	0.33	0.33	0.35	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.42	0.42	2.5%	
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	N/A	
Total	2.22	2.25	2.25	2.28	2.31	2.34	2.38	2.40	2.42	2.45	2.48	2.51	2.54	2.57	2.59	2.62	2.66	2.69	2.72	2.75	2.79	1.1%	

Table 66. Electric Power Projections for Electricity Market Module Region (2 of 3)
Florida Reliability Coordinating Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatthours)																							
Residential	84.90	98.54	101.95	105.79	108.25	110.49	112.29	114.10	115.96	117.86	119.80	121.86	124.01	126.25	128.58	130.96	133.09	135.35	137.59	139.96	142.37	2.0%	
Commercial/Other	69.82	71.89	74.47	77.25	79.89	82.39	85.00	87.66	90.36	93.12	95.92	98.80	101.77	104.84	108.05	111.27	114.46	117.67	120.86	124.06	127.20	3.0%	
Industrial	16.77	15.92	16.05	16.50	16.84	17.19	17.51	17.88	18.20	18.53	18.91	19.37	19.70	20.03	20.33	20.61	20.90	21.19	21.52	21.82	22.09	1.4%	
Transportation	0.75	0.78	0.80	0.91	1.01	1.11	1.20	1.28	1.36	1.45	1.53	1.62	1.70	1.79	1.87	1.91	1.91	1.90	1.88	1.86	1.84	4.6%	
Total Sales	182.24	187.13	193.26	200.45	205.99	211.17	216.00	220.92	225.88	230.96	236.16	241.65	247.18	252.91	258.80	264.75	270.36	276.11	281.85	287.71	293.49	2.4%	
Net Energy for Load (billion kilowatthours) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Gross Interregional Electricity Imports	29.22	28.23	35.82	39.60	38.73	36.75	37.84	38.61	38.84	35.76	33.28	31.71	30.06	28.37	26.52	25.58	25.18	23.93	21.74	20.12	18.85	-2.2%	
Gross Interregional Electricity Exports	0.26	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Purchases from Cogenerators 8/	9.37	9.27	9.14	9.22	9.32	9.36	9.39	9.44	9.46	9.50	9.53	9.59	9.64	9.69	9.75	9.81	9.86	9.93	9.99	10.06	10.13	0.4%	
Utility Generation for Customers	157.19	163.40	162.25	166.00	172.40	179.66	183.52	187.77	194.71	200.97	208.75	215.83	223.05	230.49	238.32	245.39	251.71	258.94	267.10	274.83	281.96	3.0%	
Total Net Energy for Load	195.53	200.66	207.21	214.83	220.45	225.77	230.75	235.82	241.02	246.22	251.56	257.13	262.75	268.56	274.59	280.77	286.76	292.79	298.84	305.00	310.94	2.3%	
Generation by Fuel Type																							
(billion kilowatthours)																							
Coal	69.95	68.28	70.37	72.68	67.40	68.78	70.10	71.44	71.44	72.83	72.03	72.03	72.03	72.52	72.52	72.52	73.56	75.36	77.31	80.82	84.55	1.0%	
Petroleum	23.33	28.72	12.31	11.23	11.85	11.58	10.34	8.44	7.90	7.39	7.03	7.10	7.24	7.20	7.31	7.41	7.16	7.12	7.15	7.04	7.27	-5.7%	
Natural Gas	31.08	32.24	45.58	47.54	58.12	64.06	68.01	72.81	80.13	85.56	93.65	100.66	107.72	115.50	122.88	129.83	135.33	140.75	146.92	151.21	154.12	8.3%	
Nuclear	31.02	31.35	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	0.0%	
Pumped Storage/Other 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	3.68	3.68	3.77	4.33	4.78	4.79	4.80	4.81	4.95	5.07	5.68	5.69	5.69	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.41	1.9%	
Total Generation	158.06	164.27	163.12	166.87	173.26	180.52	184.37	188.63	195.57	201.83	209.61	216.89	223.90	231.35	239.18	246.25	252.57	259.80	267.69	275.69	282.82	3.0%	
Sales to Customers	157.19	163.40	162.25	166.00	172.40	179.66	183.52	187.77	194.71	200.97	208.75	215.83	223.05	230.49	238.32	245.39	251.71	258.94	267.10	274.83	281.96	3.0%	
Generation for Own Use	0.87	0.87	0.87	0.87	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	-0.1%	
Cogenerators																							
Coal	5.06	4.96	4.79	4.81	4.87	4.87	4.86	4.86	4.85	4.84	4.83	4.83	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	-0.2%	
Petroleum	0.30	0.30	0.30	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.36	1.0%	
Natural Gas	5.40	5.45	5.46	5.53	5.58	5.62	5.67	5.71	5.75	5.79	5.83	5.86	5.92	5.97	6.01	6.06	6.12	6.17	6.23	6.28	6.35	0.8%	
Other Gaseous Fuels	0.22	0.22	0.22	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.37	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.46	0.47	3.9%	
Renewable Sources 4/	0.97	0.97	0.97	1.01	1.05	1.10	1.14	1.19	1.19	1.22	1.24	1.29	1.33	1.37	1.40	1.43	1.47	1.50	1.54	1.56	1.59	2.5%	
Other	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	0.1%	
Total	12.44	12.39	12.24	12.51	12.66	12.75	12.85	12.94	12.97	13.04	13.11	13.22	13.31	13.41	13.49	13.58	13.68	13.78	13.88	13.99	14.09	0.6%	
Sales to Utilities	9.37	9.27	9.14	9.22	9.32	9.36	9.39	9.44	9.46	9.50	9.53	9.59	9.64	9.69	9.75	9.81	9.86	9.93	9.99	10.06	10.13	0.4%	
Generation for Own Use	3.07	3.12	3.11	3.29	3.34	3.40	3.46	3.50	3.51	3.54	3.58	3.63	3.67	3.71	3.75	3.78	3.82	3.85	3.89	3.93	3.97	1.3%	
End-Use Prices																							
(2000 cents per kilowatthour)																							
Residential	8.4	8.5	8.1	7.8	7.8	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.6	7.7	7.6	-0.5%	
Commercial	6.9	7.1	6.8	6.6	6.7	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	-0.1%	
Industrial	5.2	5.3	5.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	5.0	4.9	4.9	4.9	4.9	-0.3%	
Transportation	7.2	7.3	6.9	6.2	5.9	5.6	5.6	5.8	6.1	6.4	6.6	6.7	6.9	7.0	7.1	7.1	7.1	7.0	6.8	6.7	6.5	-0.7%	
All Sectors Average	7.6	7.6	7.3	7.1	7.2	7.2	7.1	7.1	7.2	7.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.1	7.1	-0.4%	

**Table 66. Electric Power Projections for Electricity Market Module Region (3 of 3)
Florida Reliability Coordinating Council**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Prices by Service Category																							
(2000 cents/kilowatthour)																							
Generation	4.9	5.1	4.8	4.5	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	-0.5%	
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	1.0%
Distribution	2.2	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.4%
Fuel Consumption (quadrillion Btu) 9/																							
Coal	0.69	0.69	0.71	0.73	0.67	0.69	0.70	0.71	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.75	0.77	0.80	0.83	0.9%	
Natural Gas	0.30	0.31	0.45	0.47	0.53	0.57	0.59	0.61	0.65	0.67	0.73	0.77	0.81	0.86	0.91	0.96	0.99	1.02	1.06	1.09	1.11	6.7%	
Oil	0.24	0.29	0.13	0.11	0.12	0.12	0.11	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07	-5.7%	
Total	1.23	1.29	1.29	1.32	1.33	1.37	1.39	1.40	1.44	1.47	1.52	1.56	1.61	1.66	1.71	1.75	1.80	1.85	1.90	1.96	2.01	2.5%	
Emissions (million tons) 10/																							
Total Carbon	29.67	31.09	29.92	30.66	30.15	31.10	31.46	31.73	32.29	32.90	33.49	34.20	34.93	35.62	36.62	37.39	38.16	39.15	40.28	41.52	42.72	1.8%	
Carbon Dioxide	109.51	113.98	109.70	112.49	110.54	114.05	116.35	118.34	118.38	120.63	122.81	125.41	128.09	131.34	134.26	137.08	139.93	143.54	147.68	152.24	156.66	1.8%	
Sulfur Dioxide	0.38	0.41	0.32	0.31	0.27	0.27	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-1.6%	
Nitrogen Oxide	0.21	0.22	0.20	0.21	0.19	0.19	0.19	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	-0.6%	

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 67. Electric Power Projections for Electricity Market Module Region (1 of 3)
Southeastern Electric Reliability Council**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	69.70	69.80	69.75	69.43	69.43	69.43	69.43	69.32	69.72	70.02	70.41	71.96	71.61	71.72	72.55	73.51	74.88	75.48	76.89	78.41	78.41	0.6%	
Other Fossil Steam 2/	19.01	19.01	18.98	18.16	18.14	19.13	19.10	19.10	19.05	19.01	18.83	18.79	18.79	18.48	18.48	18.48	18.29	18.29	18.18	18.18	18.18	-0.2%	
Combined Cycle	7.25	8.17	8.32	8.32	10.53	10.97	14.11	19.58	23.96	28.77	31.44	32.82	34.90	36.43	38.26	40.03	41.31	42.60	43.78	45.06	46.00	9.7%	
Combustion Turbine/Diesel	18.49	21.04	21.28	21.47	21.52	21.85	23.33	23.42	24.29	24.64	24.92	25.07	25.02	26.72	29.15	30.95	32.93	34.66	36.42	37.90	38.95	3.5%	
Nuclear Power	31.82	31.88	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	30.86	30.86	30.86	30.86	30.86	30.86	30.86	-0.2%	
Pumped Storage/Other 3/	6.40	6.74	6.78	6.82	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	0.3%	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	11.66	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.75	11.77	11.79	11.95	12.03	12.24	12.37	12.37	12.37	12.37	12.42	0.3%	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.23	0.45	0.67	0.88	1.10	1.32	1.54	1.74	1.74	N/A	
Total Capacity	165.33	168.40	168.71	168.79	171.07	171.84	176.43	181.88	187.08	192.84	195.84	197.75	200.49	204.37	207.73	212.44	217.09	221.43	225.39	229.67	233.44	1.7%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Combined Cycle	0.00	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	N/A	
Combustion Turbine/Diesel	0.00	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Pumped Storage/Other 3/	0.00	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	0.30	N/A	
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Renewable Sources 4/	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	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Planned Additions	0.00	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	N/A	
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.70	1.09	1.74	2.29	2.91	3.74	4.70	5.87	7.18	8.59	10.11	N/A	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	N/A	
Combined Cycle	0.00	0.00	0.00	0.00	2.21	2.86	5.78	11.26	15.64	20.46	23.13	24.51	26.58	28.12	29.94	31.72	33.00	34.59	35.46	36.74	37.68	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.28	0.50	0.56	1.99	3.16	3.37	4.23	4.85	5.20	5.89	7.33	9.15	11.57	13.38	15.35	17.15	18.92	20.45	21.50	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.12	0.28	0.36	0.57	0.70	0.70	0.70	0.70	0.75	N/A	
Total Unplanned Additions	0.00	0.00	0.28	0.50	2.78	4.25	8.95	14.63	19.87	25.71	29.03	31.64	35.92	39.91	45.15	49.36	54.51	59.11	63.58	68.91	71.79	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.23	0.45	0.67	0.88	1.10	1.32	1.54	1.74	1.74	N/A	
Cumulative Total Additions	0.00	2.77	3.05	3.27	5.55	7.02	11.72	17.40	22.65	28.48	31.80	34.42	38.69	42.68	47.92	52.63	57.28	61.88	66.36	70.78	74.56	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.62	0.62	0.62	0.62	1.13	1.13	1.13	N/A	
Other Fossil Steam 2/	0.00	0.00	0.00	0.17	0.19	0.20	0.23	0.23	0.28	0.28	0.32	0.50	0.54	0.54	0.85	0.85	0.85	1.04	1.04	1.14	1.14	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	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.04	0.07	0.08	0.77	0.86	0.98	0.98	1.25	1.32	1.86	3.34	3.46	3.46	3.46	3.46	3.53	3.53	3.58	3.58	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	1.07	1.07	1.07	1.07	N/A	
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	0.00	0.00	0.06	0.24	0.27	0.98	1.09	1.30	1.37	1.63	1.76	2.46	3.99	4.11	5.99	5.99	5.98	6.25	6.76	6.91	6.91	N/A	
Cogenerators 8/																							
Capability																							
Coal	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.52	2.32	2.29	2.29	2.29	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	-0.5%	
Petroleum	0.51	0.51	0.51	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	-0.1%	
Natural Gas	5.60	6.11	6.18	6.35	6.59	6.81	7.03	7.22	7.41	7.61	7.83	8.05	8.27	8.50	8.72	8.98	9.24	9.49	9.77	10.05	10.36	3.1%	
Other Gaseous Fuels	0.16	0.16	0.16	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.37	0.38	0.44	4.4%	
Renewable Sources 4/	3.55	3.55	3.56	3.69	3.80	3.95	4.09	4.23	4.25	4.34	4.43	4.57	4.69	4.79	4.89	4.98	5.09	5.19	5.28	5.36	5.44	2.2%	
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	N/A	
Total	12.35	12.87	12.94	13.33	13.68	14.04	14.41	14.74	14.96	15.05	15.33	15.71	16.05	16.38	16.72	17.07	17.44	17.80	18.18	18.56	18.96	2.2%	

**Table 67. Electric Power Projections for Electricity Market Module Region (3 of 3)
Southeastern Electric Reliability Council**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatt-hour)																						
Generation	3.9	3.9	3.8	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.3	3.3	3.3	3.4	3.4	3.4	-0.6%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4%
Distribution	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.3%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	4.46	4.45	4.52	4.62	4.72	4.83	4.88	5.08	5.09	5.12	5.13	5.16	5.21	5.25	5.25	5.30	5.38	5.45	5.50	5.58	5.67	1.2%
Natural Gas	0.66	0.66	0.65	0.61	0.61	0.60	0.60	0.56	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	5.7%
Oil	0.10	0.15	0.05	0.06	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-5.8%
Total	5.22	5.26	5.42	5.69	5.68	5.78	5.92	6.05	6.15	6.29	6.40	6.53	6.67	6.80	6.92	7.07	7.23	7.35	7.47	7.60	7.73	2.0%
Emissions (million tons) 10/																						
Total Carbon	138.03	138.72	141.29	145.61	148.15	151.25	154.97	158.32	160.07	162.70	164.58	167.10	169.86	172.50	174.49	177.54	181.06	184.01	186.47	189.63	192.79	1.7%
Carbon Dioxide	506.12	508.84	518.07	533.89	543.22	554.57	568.21	580.49	586.94	596.98	603.48	612.70	622.82	632.81	639.78	650.98	663.89	674.71	683.73	695.32	706.89	1.7%
Sulfur Dioxide	3.29	3.07	3.29	3.33	3.17	3.14	3.01	2.96	2.94	2.85	2.99	2.68	2.72	2.80	2.80	2.78	2.79	2.77	2.84	2.87	2.82	-0.6%
Nitrogen Oxide	0.53	0.94	0.96	0.98	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	-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-862B. "Annual Electric Generator Report - Nonutility." 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-fuel capability.

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

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 68. Electric Power Projections for Electricity Market Module Region (1 of 3)
Southwest Power Pool**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	21.20	21.20	21.20	21.20	21.20	21.20	21.20	20.67	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	-0.2%
Other Fossil Steam 2/	13.69	13.61	13.52	13.44	13.36	12.00	11.37	11.06	11.03	11.03	11.03	10.99	10.98	10.94	10.94	10.94	10.94	10.89	10.89	10.89	10.89	10.89	-1.3%
Combined Cycle	1.78	2.94	2.94	2.94	3.41	4.05	4.75	6.74	7.86	8.58	9.29	10.00	10.85	11.15	11.70	11.93	12.62	13.08	13.59	14.06	14.62	11.1%	
Combustion Turbine/Diesel	4.63	4.64	4.64	4.72	3.60	4.15	5.05	5.20	5.30	5.42	5.55	5.66	5.66	5.77	5.91	6.02	6.12	6.24	6.33	6.45	6.45	1.7%	
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/	0.50	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 Sources 4/	2.47	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.60	2.60	2.60	2.60	2.61	2.61	2.61	2.61	2.62	2.62	2.62	2.62	2.62	0.3%
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Capacity	45.46	46.66	46.56	46.57	45.84	45.66	46.65	47.94	46.65	49.49	50.34	51.12	51.98	52.34	53.03	53.37	54.16	54.75	55.30	55.89	56.45	1.1%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	N/A
Combustion Turbine/Diesel	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	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 Sources 4/	0.00	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	1.28	1.28	1.28	1.28	1.28	1.29	1.29	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31	1.32	N/A
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.47	1.11	1.81	3.00	4.52	5.64	6.35	7.06	7.91	8.21	8.76	8.99	9.68	10.14	10.65	11.11	11.67	11.67	N/A
Combustion Turbine/Diesel	0.00	0.00	0.00	0.23	0.28	0.95	1.87	2.02	2.12	2.23	2.37	2.48	2.48	2.59	2.73	2.84	2.94	3.06	3.15	3.27	3.27	3.27	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Unplanned Additions	0.00	0.00	0.00	0.23	0.75	2.08	3.68	5.62	7.03	7.87	8.72	9.53	10.38	10.80	11.49	11.83	12.61	13.20	13.80	14.39	14.95	14.95	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Cumulative Total Additions	0.00	1.28	1.28	1.52	2.03	3.35	4.97	7.11	8.32	9.16	10.01	10.83	11.68	12.10	12.79	13.13	13.92	14.51	15.11	15.70	16.26	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	N/A
Other Fossil Steam 3/	0.00	0.00	0.10	0.17	0.25	1.64	2.26	2.58	2.81	2.81	2.81	2.84	2.86	2.70	2.70	2.70	2.70	2.70	2.70	2.75	2.75	2.75	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	0.16	1.32	1.45	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 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	0.00	0.00	0.10	0.33	1.57	3.00	3.72	4.57	6.07	6.07	6.07	6.11	6.13	6.16	6.16	6.16	6.16	6.16	6.16	6.22	6.22	6.22	N/A
Cogenerators 8/																							
Capability																							
Coal	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	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	0.80	0.82	0.83	0.85	0.87	0.89	0.90	0.92	0.94	0.96	0.97	0.99	1.01	1.03	1.05	1.07	1.10	1.12	1.14	1.17	1.20	1.20	2.0%
Other Gaseous Fuels	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.4%
Renewable Sources 4/	0.33	0.33	0.33	0.34	0.36	0.37	0.39	0.40	0.40	0.41	0.42	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.53	2.4%
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	1.59	1.61	1.62	1.65	1.68	1.72	1.75	1.78	1.80	1.83	1.86	1.89	1.92	1.95	1.98	2.02	2.05	2.08	2.12	2.15	2.19	1.6%	

**Table 68. Electric Power Projections for Electricity Market Module Region (2 of 3)
Southwest Power Pool**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatthours)																							
Residential	59.25	61.26	62.65	64.72	65.96	67.10	67.92	68.63	69.41	70.32	71.32	72.41	73.49	74.61	75.78	77.06	78.10	79.37	80.55	81.82	83.06	1.7%	
Commercial/Other	60.13	61.23	62.33	64.34	66.22	67.83	69.42	71.03	72.59	74.16	75.76	77.39	78.91	80.37	81.82	83.17	84.39	85.54	86.57	87.62	88.60	2.0%	
Industrial	51.06	48.72	49.13	50.91	52.17	53.49	54.81	56.49	57.25	58.25	59.75	61.23	62.14	62.97	63.85	64.69	65.43	66.20	67.05	67.85	68.55	1.5%	
Transportation	0.66	0.68	0.70	0.79	0.88	0.96	1.03	1.10	1.16	1.23	1.30	1.36	1.43	1.49	1.55	1.58	1.57	1.56	1.55	1.55	1.53	1.50	4.2%
Total Sales	171.10	171.89	174.82	180.76	185.23	189.37	193.17	197.25	200.41	203.95	208.14	212.40	215.97	219.43	223.00	226.50	229.58	232.67	235.72	238.82	241.72	1.7%	
Net Energy for Load (billion kilowatthours) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Gross Interregional Electricity Imports	20.38	18.64	16.81	17.84	18.36	17.82	18.41	18.10	17.41	17.31	15.56	13.38	11.94	11.50	10.12	8.85	7.59	6.77	5.07	4.60	4.38	-7.4%	
Gross Interregional Electricity Exports	23.73	23.59	23.81	22.91	22.28	21.19	21.37	21.83	21.14	20.52	19.38	18.90	18.57	18.13	17.18	15.43	14.57	13.06	11.75	10.41	10.19	-4.1%	
Purchases from Cogenerators 8/	4.73	4.72	4.71	4.81	4.90	4.97	5.03	5.10	5.17	5.25	5.34	5.44	5.54	5.66	5.76	5.87	5.99	6.11	6.22	6.35	6.48	1.6%	
Utility Generation for Customers	183.92	186.18	191.35	195.62	199.03	203.06	206.35	211.25	214.52	217.57	222.46	228.37	232.92	236.48	240.40	243.36	246.83	249.92	252.82	255.14	258.09	1.7%	
Total Net Energy for Load	185.50	185.96	189.06	195.37	200.02	204.46	208.42	212.61	215.95	219.61	223.98	228.29	231.83	235.50	239.10	242.66	245.85	249.14	252.37	255.68	258.76	1.7%	
Generation by Fuel Type																							
(billion kilowatthours)																							
Coal	137.93	139.81	139.21	143.20	146.82	149.92	153.05	152.34	148.81	148.82	148.82	148.86	148.86	148.87	148.87	148.87	148.87	148.88	148.89	148.89	148.89	0.4%	
Petroleum	0.83	2.97	0.95	0.94	0.98	1.02	0.97	0.77	0.76	0.70	0.64	0.70	0.73	0.81	0.80	0.84	0.82	0.85	0.87	0.87	0.95	0.7%	
Natural Gas	30.75	30.66	36.12	36.17	35.92	36.90	37.20	43.01	49.81	52.93	57.76	63.67	68.19	71.65	75.58	78.50	81.98	84.42	87.91	90.22	93.08	5.7%	
Nuclear	9.79	9.89	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	9.79	0.0%	
Pumped Storage/Other 3/	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	N/A	
Renewable Sources 4/	4.73	4.17	5.39	5.64	5.63	5.64	5.45	5.45	5.45	5.55	5.46	5.46	5.47	5.47	5.47	5.47	5.48	5.48	5.49	5.49	5.49	0.8%	
Total Generation	183.99	186.25	191.42	195.69	199.10	203.13	206.42	211.32	214.58	217.64	222.53	228.44	232.99	236.65	240.47	243.43	246.90	249.99	252.89	255.21	258.15	1.7%	
Sales to Customers	183.92	186.18	191.35	195.62	199.03	203.06	206.35	211.25	214.52	217.57	222.46	228.37	232.92	236.48	240.40	243.36	246.83	249.92	252.82	255.14	258.09	1.7%	
Generation for Own Use	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	N/A	
Cogenerators																							
Coal	3.45	3.39	3.29	3.33	3.36	3.36	3.36	3.36	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.34	3.34	3.34	3.34	-0.2%	
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	1.1%	
Natural Gas	3.62	3.78	3.84	3.99	4.08	4.18	4.27	4.36	4.44	4.53	4.63	4.74	4.84	4.95	5.06	5.17	5.29	5.40	5.52	5.65	5.80	2.4%	
Other Gaseous Fuels	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.9%	
Renewable Sources 4/	2.20	2.20	2.20	2.21	2.39	2.50	2.60	2.71	2.77	2.83	2.94	3.03	3.11	3.19	3.26	3.34	3.42	3.49	3.56	3.62	3.62	2.5%	
Other	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.1%	
Total	8.41	9.51	9.48	9.77	9.99	10.19	10.39	10.56	10.81	10.97	11.19	11.38	11.57	11.75	11.94	12.14	12.33	12.52	12.72	12.92	13.12	1.6%	
Sales to Utilities	4.73	4.72	4.71	4.81	4.90	4.97	5.03	5.10	5.17	5.25	5.34	5.44	5.54	5.66	5.76	5.87	5.99	6.11	6.22	6.35	6.48	1.6%	
Generation for Own Use	4.68	4.80	4.77	4.96	5.09	5.23	5.36	5.47	5.48	5.55	5.63	5.74	5.83	5.91	5.99	6.06	6.15	6.23	6.30	6.37	6.44	1.6%	
End-Use Prices																							
(2000 cents per kilowatthour)																							
Residential	6.2	6.1	5.9	5.8	5.8	5.7	6.4	6.6	6.7	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0	7.0	0.6%	
Commercial	5.2	5.1	5.5	5.4	5.4	5.5	5.5	5.6	5.7	5.8	5.8	5.9	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	0.7%	
Industrial	3.4	3.4	3.7	3.6	3.6	3.7	3.7	3.7	3.8	3.8	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.1	4.1	0.9%	
Transportation	5.0	5.2	5.1	4.6	4.5	4.4	4.3	4.6	4.8	5.1	5.2	5.4	5.4	5.5	5.6	5.6	5.5	5.5	5.4	5.3	5.2	0.3%	
All Sectors Average	5.0	4.9	5.1	5.0	5.0	5.1	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.8	0.7%	

**Table 68. Electric Power Projections for Electricity Market Module Region (3 of 3)
Southwest Power Pool**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Prices by Service Category																							
<i>(2000 cents/kilowatthour)</i>																							
Generation	2.4	2.5	2.7	2.6	2.6	2.7	3.0	3.0	3.1	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.5	3.5	3.6	3.6	2.1%
Transmission	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1%
Distribution	2.1	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	-1.3%
Fuel Consumption (quadrillion Btu) 9/																							
Coal	1.45	1.46	1.47	1.51	1.55	1.59	1.62	1.62	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	0.4%
Natural Gas	0.32	0.31	0.36	0.36	0.35	0.35	0.34	0.36	0.41	0.43	0.46	0.51	0.53	0.56	0.59	0.61	0.63	0.64	0.66	0.68	0.68	0.69	4.0%
Oil	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.4%
Total	1.78	1.80	1.84	1.88	1.91	1.94	1.97	1.99	2.00	2.02	2.05	2.09	2.12	2.15	2.18	2.20	2.22	2.23	2.26	2.27	2.29	2.29	1.3%
Emissions (million tons) 10/																							
Total Carbon	47.16	47.59	48.11	49.29	50.19	51.14	52.01	52.36	52.12	52.45	52.99	53.71	54.15	54.58	54.99	55.36	55.66	55.91	56.27	56.46	56.74	0.9%	
Carbon Dioxide	172.91	174.48	176.41	180.74	184.03	187.52	190.70	192.00	191.12	192.32	194.32	196.83	198.55	200.15	201.61	202.98	204.10	204.99	206.31	207.00	208.06	0.9%	
Sulfur Dioxide	0.43	0.47	0.46	0.48	0.49	0.50	0.51	0.50	0.49	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.2%
Nitrogen Oxide	0.29	0.28	0.28	0.29	0.29	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.2%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-862B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMN = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

Table 69. Electric Power Projections for Electricity Market Module Region (1 of 3)
Western Systems Coordinating Council / Northwest Power Pool Area

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/																							
(gigawatts)																							
Coal Steam	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.99	11.24	11.66	11.92	12.69	13.69	14.67	15.80	17.00	18.07	18.91	2.9%	
Other Fossil Steam 2/	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	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	-3.2%	
Combined Cycle	1.64	1.64	1.64	1.64	3.02	3.86	3.86	5.84	7.63	9.23	10.54	11.59	12.11	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	10.7%	
Combustion Turbine/Diesel	1.11	1.11	2.04	2.81	2.81	2.81	4.04	4.01	4.01	4.20	4.28	4.28	4.15	4.47	4.96	5.60	5.98	6.09	6.09	6.09	6.33	9.1%	
Nuclear Power	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	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	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	N/A	
Renewable Sources 4/	38.10	36.41	36.41	36.58	36.65	36.80	36.94	37.10	37.19	37.47	37.57	37.66	37.69	38.32	38.47	38.63	38.71	38.90	39.03	39.16	39.28	0.4%	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.05	0.27	0.49	0.56	0.62	0.83	1.04	1.27	1.51	1.74	1.93	2.16	2.38	N/A	
Total Capacity	51.73	52.04	52.97	53.91	55.36	56.36	57.75	59.48	61.38	63.88	65.64	67.30	68.29	69.76	71.38	73.42	75.12	76.75	78.27	79.70	81.12	2.3%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	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	N/A	
Renewable Sources 4/	0.00	0.31	0.31	0.48	0.54	0.70	0.72	0.88	0.86	0.90	1.07	1.10	1.28	1.31	1.51	1.54	1.58	1.58	1.59	1.60	1.60	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total Planned Additions	0.00	0.31	0.31	0.48	0.54	0.70	0.72	0.88	0.90	1.07	1.10	1.28	1.31	1.51	1.54	1.58	1.58	1.59	1.60	1.60	1.61	N/A	
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.50	0.91	1.18	1.48	1.94	2.94	3.93	5.06	6.26	7.33	8.16	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	N/A	
Combined Cycle	0.00	0.00	0.00	0.00	1.38	2.22	2.22	4.20	5.96	7.67	8.90	9.95	10.47	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.92	1.70	1.70	1.70	2.93	2.93	2.93	3.12	3.20	3.20	3.20	3.53	4.02	4.66	5.02	5.15	5.15	5.15	5.38	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.19	0.29	0.40	0.50	0.60	0.73	0.85	0.98	1.10	1.23	1.35	1.48	1.60	N/A	
Total Unplanned Additions	0.00	0.00	0.92	1.70	3.08	3.92	5.30	7.27	8.15	11.27	13.24	14.71	15.81	17.08	18.68	20.67	22.37	23.99	25.51	26.93	28.34	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.05	0.27	0.49	0.56	0.62	0.83	1.04	1.27	1.51	1.74	1.93	2.16	2.38	N/A	
Cumulative Total Additions	0.00	0.31	1.23	2.18	3.62	4.62	6.01	8.15	10.05	12.35	14.34	16.00	17.12	18.59	20.22	22.25	23.98	25.58	27.10	28.53	29.95	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	N/A	
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	N/A	
Combustion Turbine/Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	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	N/A	
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A	
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.41	0.41	0.43	0.43	0.43	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	N/A	
Cogenerators 8/																							
Capability	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%	
Coal	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.2%	
Natural Gas	0.65	0.66	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.83	1.2%	
Other Gaseous Fuels	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4.4%	
Renewable Sources 4/	0.59	0.59	0.59	0.62	0.64	0.66	0.69	0.71	0.72	0.73	0.75	0.77	0.79	0.81	0.83	0.84	0.86	0.88	0.90	0.91	0.92	2.2%	
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	N/A	
Total	1.41	1.43	1.43	1.47	1.50	1.53	1.56	1.60	1.61	1.63	1.66	1.69	1.72	1.75	1.77	1.80	1.83	1.86	1.89	1.91	1.94	1.6%	

Table 69. Electric Power Projections for Electricity Market Module Region (2 of 3)
Western Systems Coordinating Council / Northwest Power Pool Area

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatt-hours)																							
Residential	73.50	74.48	74.73	77.06	78.79	80.95	81.79	82.81	83.67	84.54	85.48	86.57	88.13	89.87	91.16	92.62	93.83	95.12	96.47	97.93	99.43	1.52%	
Commercial/Other	73.14	73.63	73.88	76.73	79.95	83.15	86.08	88.82	91.43	94.08	96.85	99.72	102.97	106.36	109.52	112.59	115.61	118.63	121.70	124.83	127.95	2.8%	
Industrial	84.72	82.85	82.46	86.75	88.79	91.05	92.95	95.12	97.05	98.92	101.25	103.61	105.43	107.33	108.93	110.39	112.25	114.15	116.49	118.47	120.25	1.8%	
Transportation	1.30	1.34	1.38	1.56	1.74	1.90	2.05	2.19	2.32	2.46	2.60	2.74	2.88	3.01	3.14	3.22	3.22	3.21	3.19	3.16	3.13	4.5%	
Total Sales	232.66	232.31	232.46	242.10	249.28	256.66	262.88	268.96	274.48	280.00	286.18	292.64	299.39	306.27	312.75	318.83	324.91	331.10	337.84	344.39	350.76	2.1%	
Net Energy for Load (billion kilowatt-hours) 7/																							
Gross International Imports	7.62	9.04	2.60	3.02	4.53	9.14	6.11	4.77	1.63	1.63	1.47	1.31	1.14	0.98	0.82	0.65	0.49	0.33	0.16	0.08	0.00	N/A	
Gross International Exports	10.01	10.01	9.96	9.52	13.24	13.28	13.29	13.32	13.34	13.37	12.43	11.47	10.50	9.53	8.56	7.60	6.63	5.66	4.70	4.21	3.73	-4.6%	
Gross Interregional Electricity Imports	28.23	41.32	26.19	25.08	23.29	19.23	18.11	18.12	17.92	17.89	16.23	14.41	12.58	10.87	9.06	7.35	5.75	4.32	2.83	1.75	1.00	-15.4%	
Gross Interregional Electricity Exports	30.45	28.16	34.29	39.30	37.54	35.86	34.31	35.79	34.17	34.43	29.81	30.28	29.61	29.69	29.30	29.37	27.70	26.72	27.10	26.98	26.51	-0.7%	
Purchases from Cogenerators 8/	4.13	4.09	4.16	4.22	4.28	4.35	4.41	4.55	4.61	4.69	4.76	4.85	4.94	5.03	5.13	5.23	5.33	5.43	5.55	5.66	5.77	1.7%	
Utility Generation for Customers	251.61	234.42	261.72	277.14	296.95	292.48	301.54	310.69	318.14	324.38	328.76	334.78	342.07	350.02	357.21	364.28	369.84	375.88	384.20	391.47	398.08	2.3%	
Total Net Energy for Load	251.13	250.71	250.42	260.63	268.28	276.07	282.59	289.02	294.79	300.49	306.08	313.63	320.63	327.68	334.35	340.55	347.08	353.56	360.74	367.78	374.62	2.0%	
Generation by Fuel Type																							
(billion kilowatt-hours)																							
Coal	80.62	81.12	78.97	79.44	80.47	80.95	81.43	81.90	81.90	83.71	85.62	88.69	90.66	96.35	103.78	111.11	119.51	128.46	136.42	142.62	2.9%		
Petroleum	2.50	3.59	0.64	0.47	0.44	0.29	0.25	0.12	0.08	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-20.0%	
Natural Gas	18.94	24.23	24.84	31.73	40.01	44.82	51.92	60.25	66.69	71.43	71.15	75.69	78.67	83.14	83.14	81.55	78.63	75.20	73.52	71.73	71.10	6.8%	
Nuclear	7.80	7.84	7.93	8.00	8.07	8.14	8.21	8.28	8.35	8.42	8.49	8.56	8.63	8.70	8.77	8.77	8.77	8.77	8.77	8.77	8.77	0.6%	
Pumped Storage/Other 3/	-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 Sources 4/	142.84	118.61	150.41	158.59	159.06	159.58	160.82	161.24	162.00	163.27	164.27	165.55	166.69	168.24	169.57	170.69	171.75	172.70	173.68	174.69	175.63	1.0%	
Total Generation	252.46	235.28	262.57	278.01	287.83	293.36	302.43	311.58	319.02	324.96	327.64	335.67	342.95	350.90	358.09	365.17	370.72	376.74	385.08	392.36	398.96	2.3%	
Sales to Customers	251.61	234.42	261.72	277.14	296.95	292.48	301.54	310.69	318.14	324.38	328.76	334.78	342.07	350.02	357.21	364.28	369.84	375.88	384.20	391.47	398.08	2.3%	
Generation for Own Use	0.86	0.86	0.85	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.1%	
Cogenerators																							
Coal	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.47	-0.2%	
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	1.1%	
Natural Gas	5.17	5.27	5.27	5.42	5.52	5.61	5.71	5.82	5.90	5.99	6.08	6.17	6.26	6.36	6.45	6.56	6.67	6.77	6.89	7.01	7.14	1.6%	
Other Gaseous Fuels	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	3.9%	
Renewable Sources 4/	2.35	2.32	2.36	2.46	2.53	2.63	2.72	2.84	2.84	2.89	2.94	3.04	3.12	3.18	3.25	3.31	3.38	3.45	3.51	3.57	3.62	2.2%	
Other	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.1%	
Total	8.17	8.24	8.28	8.54	8.72	8.91	9.09	9.32	9.40	9.54	9.69	9.88	10.05	10.21	10.37	10.54	10.72	10.89	11.07	11.25	11.43	1.7%	
Sales to Utilities	4.13	4.09	4.16	4.22	4.28	4.35	4.41	4.55	4.61	4.69	4.76	4.85	4.94	5.03	5.13	5.23	5.33	5.43	5.55	5.66	5.77	1.7%	
Generation for Own Use	4.04	4.14	4.12	4.32	4.44	4.56	4.68	4.77	4.79	4.85	4.92	5.03	5.11	5.18	5.24	5.31	5.39	5.46	5.53	5.59	5.66	1.7%	
End-Use Prices																							
(2000 cents per kilowatt-hour)																							
Residential	6.1	6.4	6.4	5.8	5.9	6.0	6.0	6.2	6.3	6.5	6.6	6.6	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6	0.4%	
Commercial	5.6	6.1	5.9	5.3	5.4	5.4	5.4	5.5	5.7	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	0.1%	
Industrial	3.2	3.3	3.3	3.0	3.0	3.1	3.1	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	0.2%	
Transportation	5.4	5.8	5.7	4.8	4.5	4.4	4.3	4.5	4.6	5.0	5.2	5.3	5.4	5.5	5.6	5.6	5.5	5.4	5.3	5.2	5.0	-0.4%	
All Sectors Average	4.9	5.2	5.2	4.6	4.7	4.8	4.8	4.9	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.2	5.2	5.2	5.2	0.3%	

**Table 69. Electric Power Projections for Electricity Market Module Region (3 of 3)
Western Systems Coordinating Council / Northwest Power Pool Area**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
<i>(2000 cents/kilowatthour)</i>																						
Generation	2.5	2.9	2.8	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	0.7%
Transmission	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.5%
Distribution	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.6%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	0.85	0.86	0.84	0.84	0.85	0.86	0.86	0.87	0.87	0.87	0.89	0.90	0.93	0.95	1.00	1.07	1.13	1.21	1.29	1.36	1.42	2.6%
Natural Gas	0.17	0.23	0.24	0.31	0.36	0.38	0.44	0.48	0.51	0.53	0.51	0.53	0.55	0.58	0.58	0.57	0.55	0.52	0.51	0.50	0.49	5.3%
Oil	0.03	0.04	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	-20.2%
Total	1.05	1.13	1.09	1.15	1.21	1.25	1.31	1.35	1.38	1.40	1.39	1.44	1.48	1.53	1.58	1.64	1.68	1.73	1.80	1.86	1.91	3.0%
Emissions (million tons) 10/																						
Total Carbon	27.79	29.09	27.85	28.94	30.09	30.67	31.74	32.45	32.95	33.26	33.44	34.38	35.51	36.52	38.02	39.79	41.36	43.17	45.32	47.23	48.79	2.9%
Carbon Dioxide	101.90	106.85	102.11	106.12	110.33	112.45	116.36	118.97	120.82	121.95	122.62	126.06	130.19	133.90	139.40	145.91	151.66	158.28	166.19	173.17	179.91	2.9%
Sulfur Dioxide	0.16	0.15	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-2.2%
Nitrogen Oxide	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	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-860B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 70. Electric Power Projections for Electricity Market Module Region (2 of 3)
Western Systems Coordinating Council / Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatthours)																							
Residential	51.52	54.21	55.41	57.69	59.94	60.11	61.07	62.12	63.21	64.36	65.56	66.81	68.12	69.48	70.87	72.40	73.79	75.28	76.78	78.33	79.92	2.2%	
Commercial/Other	57.83	60.13	60.80	63.17	65.10	66.97	68.97	71.13	73.41	75.90	78.53	81.17	83.85	86.50	89.25	91.96	94.71	97.45	100.23	102.98	105.72	3.1%	
Industrial	33.61	32.83	32.69	33.35	34.18	35.07	35.84	36.70	37.45	38.19	39.12	40.06	40.79	41.56	42.27	42.98	43.67	44.42	45.26	46.04	46.76	1.7%	
Transportation	0.65	0.67	0.70	0.80	0.89	0.98	1.07	1.15	1.23	1.31	1.39	1.47	1.55	1.64	1.72	1.77	1.78	1.78	1.78	1.78	1.77	5.1%	
Total Sales	143.61	147.84	149.59	155.00	159.11	163.14	166.95	171.10	175.29	179.76	184.60	189.51	194.32	199.15	204.11	209.10	213.96	218.92	224.04	229.12	234.16	2.5%	
Net Energy for Load (billion kilowatthours) 7/																							
Gross International Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Gross Interregional Electricity Imports	22.52	21.25	22.07	23.16	22.13	21.28	20.83	20.89	20.81	19.84	17.76	15.62	14.21	12.83	11.11	9.67	8.29	6.95	4.55	3.87	3.13	-9.4%	
Gross Interregional Electricity Exports	48.81	45.08	43.07	43.14	44.26	47.50	49.36	49.88	47.85	45.29	40.93	36.91	33.80	30.49	26.70	23.16	20.17	17.30	14.85	13.82	12.96	-6.4%	
Purchases from Cogenerators 8/	6.20	6.19	6.19	6.22	6.23	6.25	6.27	6.28	6.30	6.32	6.34	6.36	6.38	6.41	6.43	6.45	6.48	6.51	6.53	6.56	6.59	0.3%	
Utility Generation for Customers	177.65	179.80	178.90	183.65	190.03	198.28	204.60	209.39	211.89	215.11	217.95	220.91	224.39	227.44	230.49	233.53	237.08	241.42	246.16	251.22	256.47	1.9%	
Total Net Energy for Load	157.55	162.16	164.09	169.88	174.14	178.30	182.34	186.68	191.14	195.99	201.12	206.19	211.18	216.18	221.32	226.49	231.68	236.98	242.40	247.84	253.23	2.4%	
Generation by Fuel Type																							
(billion kilowatthours)																							
Coal	114.15	113.29	112.02	114.12	115.94	124.88	132.00	137.90	146.67	152.34	155.92	156.81	161.68	165.38	168.12	172.73	176.81	181.38	186.34	192.00	197.25	2.8%	
Petroleum	1.69	1.81	0.16	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-16.8%	
Natural Gas	22.64	27.51	26.49	28.59	33.16	32.68	31.66	30.54	24.29	21.83	20.96	23.06	21.65	21.03	21.26	19.47	18.82	18.40	17.98	17.06	16.70	-1.5%	
Nuclear	22.73	22.95	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	0.0%	
Pumped Storage/Other 3/	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A	
Renewable Sources 4/	17.16	15.02	18.26	18.86	18.86	18.86	18.86	18.86	18.86	18.87	18.98	18.94	18.94	18.89	18.89	19.03	19.07	19.20	19.32	19.59	19.88	0.7%	
Total Generation	178.33	180.54	179.63	184.38	190.76	199.00	205.33	210.11	212.61	215.64	218.67	221.64	225.11	228.16	231.21	234.25	237.80	242.14	246.89	251.95	257.20	1.8%	
Sales to Customers	177.65	179.80	178.90	183.65	190.03	198.28	204.60	209.39	211.89	215.11	217.95	220.91	224.39	227.44	230.49	233.53	237.08	241.42	246.16	251.22	256.47	1.9%	
Generation for Own Use	0.68	0.74	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	0.3%	
Cogenerators																							
Coal	0.62	0.61	0.60	0.60	0.61	0.61	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	-0.2%	
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	0.03	0.03	0.03	1.1%	
Natural Gas	6.62	6.67	6.68	6.75	6.80	6.84	6.89	6.93	6.97	7.01	7.06	7.10	7.15	7.20	7.24	7.30	7.35	7.40	7.46	7.52	7.58	0.7%	
Other Gaseous Fuels	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.9%	
Renewable Sources 4/	0.13	0.13	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	2.5%	
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	N/A	
Total	7.42	7.46	7.46	7.55	7.61	7.66	7.71	7.76	7.85	7.90	7.95	8.00	8.06	8.11	8.16	8.22	8.28	8.34	8.41	8.48	8.56	0.7%	
Sales to Utilities	6.20	6.19	6.19	6.22	6.23	6.25	6.27	6.28	6.30	6.32	6.34	6.36	6.38	6.41	6.43	6.45	6.48	6.51	6.53	6.56	6.59	0.3%	
Generation for Own Use	1.22	1.27	1.27	1.34	1.38	1.41	1.45	1.48	1.50	1.52	1.55	1.59	1.62	1.65	1.68	1.71	1.74	1.77	1.81	1.84	1.88	2.2%	
End-Use Prices																							
(2000 cents per kilowatthour)																							
Residential	8.0	7.8	7.7	7.7	8.2	8.3	8.3	8.3	8.4	8.4	8.3	8.5	8.4	8.5	8.4	8.4	8.3	8.3	8.3	8.3	8.3	0.1%	
Commercial	6.8	6.6	6.7	6.8	7.4	7.3	7.3	7.2	7.1	7.1	6.9	7.1	7.1	7.3	7.2	7.2	7.1	7.1	7.1	7.0	7.0	0.1%	
Industrial	4.7	4.6	4.6	4.7	5.1	5.0	5.0	4.9	4.8	4.7	4.7	4.8	4.8	4.9	4.8	4.8	4.7	4.7	4.7	4.7	4.7	0.0%	
Transportation	7.0	7.1	7.3	6.7	6.4	6.1	6.1	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.0	6.9	6.8	6.7	6.6	6.5	-0.4%	
All Sectors Average	6.7	6.6	6.6	6.7	7.2	7.2	7.2	7.1	7.1	7.0	7.0	7.1	7.1	7.2	7.1	7.1	7.0	7.0	7.0	7.0	7.0	0.2%	

**Table 70. Electric Power Projections for Electricity Market Module Region (3 of 3)
Western Systems Coordinating Council / Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Prices by Service Category																							
<i>(2000 cents/kilowatthour)</i>																							
Generation	3.9	3.9	3.9	3.9	4.4	4.3	4.3	4.2	4.1	4.0	4.0	4.1	4.1	4.3	4.2	4.2	4.1	4.1	4.0	4.1	4.1	0.2%	
Transmission	0.8	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.1%	
Distribution	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.4%	
Fuel Consumption (quadrillion Btu) 9/																							
Coal	1.20	1.19	1.18	1.20	1.22	1.30	1.37	1.43	1.51	1.56	1.60	1.60	1.65	1.68	1.71	1.75	1.79	1.83	1.87	1.92	1.97	2.5%	
Natural Gas	0.25	0.29	0.27	0.25	0.21	0.26	0.27	0.25	0.20	0.18	0.17	0.19	0.18	0.18	0.18	0.16	0.16	0.15	0.15	0.14	0.14	-2.9%	
Oil	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17.3%	
Total	1.47	1.50	1.45	1.45	1.53	1.59	1.64	1.68	1.71	1.74	1.77	1.80	1.83	1.86	1.89	1.91	1.94	1.98	2.02	2.07	2.11	1.5%	
Emissions (million tons) 10/																							
Total Carbon	38.44	38.86	37.74	38.70	39.47	41.51	43.33	44.68	46.15	47.36	48.22	48.81	49.91	50.82	51.59	52.55	53.54	54.69	55.95	57.33	58.67	2.1%	
Carbon Dioxide	140.95	142.49	138.39	141.90	144.73	152.22	158.86	163.83	169.20	173.65	176.81	178.97	183.01	186.35	189.15	192.69	196.33	200.54	205.15	210.20	215.13	2.1%	
Sulfur Dioxide	0.20	0.20	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%	
Nitrogen Oxide	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.7%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-862B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 71. Electric Power Projections for Electricity Market Module Region (1 of 3)
Western Systems Coordinating Council / California**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	5.00	0.1%
Other Fossil Steam 2/	19.14	19.14	19.14	19.14	19.14	19.14	19.14	19.00	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	-0.4%
Combined Cycle	1.41	1.41	1.41	1.41	2.81	4.81	4.81	4.81	7.02	9.37	11.94	14.54	16.05	16.13	17.09	18.37	19.83	21.31	22.55	23.21	24.29	24.85	16.4%
Combustion Turbine/Diesel	2.64	2.68	3.77	5.09	5.09	5.07	7.08	7.04	7.04	7.04	7.04	8.29	9.22	10.37	11.38	12.32	13.29	14.50	16.02	17.44	19.10	10.4%	
Nuclear Power	5.33	5.33	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	0.0%
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 Sources 4/	15.84	15.91	16.72	17.07	17.30	17.64	17.84	17.65	17.68	17.78	17.78	17.79	17.90	17.98	18.03	18.07	18.10	18.13	18.16	18.22	18.28	18.28	0.7%
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.06	0.06	0.13	0.24	0.55	0.55	0.55	0.66	1.13	1.41	1.70	2.03	2.37	2.70	3.03	3.34	3.64	N/A	
Total Capacity	53.01	53.12	55.05	56.76	58.40	60.72	62.66	63.55	66.25	68.92	71.53	73.59	75.99	78.45	81.09	83.85	86.67	89.48	92.03	94.89	97.56	3.1%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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
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 Sources 4/	0.00	0.07	0.69	1.23	1.57	1.91	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.95	1.96	1.96	1.97	1.98	1.98	1.99	1.99	2.00	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	0.11	0.93	1.27	1.61	1.95	1.96	1.96	1.97	1.97	1.98	1.98	1.99	1.99	2.00	2.01	2.01	2.02	2.03	2.04	2.04	N/A	
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	1.40	3.40	3.40	5.60	7.96	10.53	13.13	15.65	14.72	15.88	16.96	18.42	19.90	21.14	21.80	22.88	23.44	24.48	N/A	
Combustion Turbine/Diesel	0.00	0.00	1.09	2.41	2.41	4.47	4.47	4.47	4.47	4.47	4.47	5.72	6.65	7.80	8.81	9.75	10.72	11.93	13.45	14.87	16.53	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 Sources 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.12	0.13	0.22	0.30	0.35	0.38	0.40	0.43	0.45	0.50	0.55	N/A	
Total Unplanned Additions	0.00	0.00	1.09	2.47	3.87	5.97	8.00	10.31	13.00	15.67	18.27	20.34	22.73	25.19	27.82	30.57	33.38	36.20	38.73	41.58	44.24	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.06	0.06	0.06	0.13	0.24	0.55	0.55	0.55	0.66	1.13	1.41	1.70	2.03	2.37	2.70	3.03	3.34	3.64	N/A	
Cumulative Total Additions	0.00	0.11	2.02	3.74	5.48	7.82	9.96	12.27	14.97	17.64	20.25	22.32	24.71	27.18	29.81	32.58	35.39	38.22	40.76	43.62	46.28	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.14	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	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	0.02	0.07	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	N/A
Total	0.00	0.00	0.00	0.00	0.11	0.13	0.32	0.79	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	N/A
Cogenerators 8/																							
Capability																							
Coal	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.0%
Petroleum	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	-0.1%
Natural Gas	4.95	5.40	5.43	5.49	5.58	5.86	5.74	5.81	5.88	5.96	6.04	6.12	6.20	6.38	6.37	6.46	6.56	6.65	6.75	6.86	6.97	1.7%	
Other Gaseous Fuels	0.08	0.08	0.08	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.19	4.4%
Renewable Sources 4/	0.18	0.18	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.28	2.1%
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	5.80	6.25	6.27	6.39	6.48	6.57	6.66	6.74	6.81	6.89	6.98	7.08	7.17	7.26	7.35	7.45	7.55	7.66	7.77	7.88	8.01	1.6%	

**Table 71. Electric Power Projections for Electricity Market Module Region (2 of 3)
Western Systems Coordinating Council / California**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-	
Electricity Demand																							
(billion kilowatt-hours)																							
Residential	76.90	76.67	76.28	76.31	80.09	81.89	83.21	84.06	84.67	85.23	85.89	86.73	88.21	89.86	90.99	92.21	93.14	94.13	95.18	96.37	97.61	1.2%	
Commercial/Other	108.25	106.85	106.74	110.82	116.27	121.88	126.37	130.45	134.06	137.59	141.22	145.09	149.77	154.99	159.21	163.44	167.48	171.54	175.68	179.89	184.28	2.2%	
Industrial	64.06	62.67	62.38	66.93	68.45	70.17	71.60	73.28	74.72	76.13	77.90	79.68	81.05	82.47	83.57	84.52	85.58	87.40	89.28	90.78	92.10	1.6%	
Transportation	1.52	1.56	1.60	1.81	2.00	2.19	2.35	2.49	2.64	2.79	2.94	3.09	3.24	3.38	3.52	3.69	3.59	3.56	3.54	3.50	3.45	4.2%	
Total Sales	250.73	247.74	247.00	257.86	266.80	276.02	283.52	290.29	296.11	301.74	307.95	314.60	322.26	330.10	337.30	343.77	350.18	356.64	363.68	370.64	377.44	2.1%	
Net Energy for Load (billion kilowatt-hours) 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	N/A	
Gross International Exports	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	1.2%	
Gross Interregional Electricity Imports	57.29	50.88	56.55	60.29	59.77	61.39	62.39	64.00	69.78	57.16	49.54	48.32	46.17	45.24	42.69	40.30	37.32	34.90	34.07	33.54	32.76	-2.6%	
Gross Interregional Electricity Exports	16.83	25.10	12.20	11.01	8.47	7.98	7.88	7.98	7.98	7.98	7.18	6.43	5.61	4.81	4.00	3.20	2.40	1.61	0.81	0.41	0.01	-31.2%	
Purchases from Cogenerators 8/	28.31	28.67	28.43	28.74	28.94	29.13	29.36	29.56	29.79	30.04	30.30	30.59	30.88	31.18	31.49	31.81	32.14	32.49	32.87	33.27	33.68	0.9%	
Utility Generation for Customers	206.10	216.61	197.68	204.13	211.47	219.05	225.84	231.16	241.16	249.31	262.30	269.33	278.42	286.43	295.33	303.28	312.05	320.30	327.59	334.84	342.14	2.6%	
Total Net Energy for Load	273.57	269.83	269.19	280.83	290.35	300.18	308.15	315.24	321.20	326.92	333.30	340.14	348.20	356.37	363.83	370.51	377.45	384.41	392.05	399.57	406.91	2.0%	
Generation by Fuel Type																							
(billion kilowatt-hours)																							
Coal	37.54	37.11	36.42	36.97	37.43	37.62	37.82	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	0.1%	
Petroleum	2.09	3.20	1.14	1.36	1.42	1.38	1.59	0.81	0.76	0.55	0.53	0.50	0.53	0.49	1.45	1.15	1.62	0.47	0.81	4.04	2.07	-0.1%	
Natural Gas	71.43	87.23	59.23	62.37	68.23	74.44	80.38	86.04	86.75	103.34	116.35	123.27	131.43	138.41	146.11	154.01	161.96	170.99	177.60	181.06	189.16	5.0%	
Nuclear	42.79	43.33	44.46	43.15	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	0.0%	
Pumped Storage/Other 3/	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A	
Renewable Sources 4/	56.71	50.21	60.99	64.84	65.75	66.97	67.37	67.56	68.33	68.34	68.34	68.13	69.76	70.18	70.39	70.80	70.81	71.01	71.44	71.86	71.86	1.2%	
Total Generation	210.12	220.64	201.79	208.28	215.60	223.18	229.86	236.07	245.07	253.22	266.21	273.24	282.33	290.34	299.24	307.19	315.96	324.21	331.50	338.75	346.05	2.5%	
Sales to Customers	206.10	216.61	197.68	204.13	211.47	219.05	225.84	231.16	241.16	249.31	262.30	269.33	278.42	286.43	295.33	303.28	312.05	320.30	327.59	334.84	342.14	2.6%	
Generation for Own Use	4.02	4.03	4.11	4.16	4.13	4.13	4.13	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	-0.1%	
Cogenerators																							
Coal	1.59	1.57	1.54	1.55	1.56	1.56	1.56	1.56	1.55	1.55	1.55	1.55	1.55	1.55	1.54	1.54	1.54	1.54	1.54	1.54	1.54	-0.2%	
Petroleum	0.69	1.06	0.59	0.65	0.65	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.74	0.82	0.86	0.78	0.80	0.70	0.74	0.93	0.81	0.8%	
Natural Gas	38.20	39.00	39.35	40.45	41.25	41.98	42.73	43.37	44.02	44.69	45.43	46.19	46.89	47.56	48.27	48.19	50.05	51.01	51.91	52.67	53.64	1.7%	
Other Gaseous Fuels	0.46	0.46	0.46	0.70	0.71	0.73	0.73	0.74	0.76	0.78	0.79	0.82	0.84	0.85	0.86	0.89	0.90	0.93	0.95	0.96	0.98	3.9%	
Renewable Sources 4/	1.14	1.14	1.14	1.19	1.22	1.27	1.31	1.35	1.38	1.38	1.41	1.45	1.49	1.52	1.55	1.58	1.62	1.65	1.68	1.71	1.74	2.1%	
Other	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.1%	
Total	42.45	43.81	43.46	44.91	45.76	46.54	47.36	48.04	48.70	49.42	50.20	51.03	51.84	52.65	53.46	54.33	55.26	56.17	57.17	58.28	59.28	1.7%	
Sales to Utilities	28.31	28.67	28.43	28.74	28.94	29.13	29.36	29.56	29.79	30.04	30.30	30.59	30.88	31.18	31.49	31.81	32.14	32.49	32.87	33.27	33.68	0.9%	
Generation for Own Use	14.14	14.94	15.03	16.17	16.82	17.41	18.00	18.48	18.91	19.38	19.90	20.44	20.96	21.47	21.97	22.52	23.12	23.69	24.30	24.90	25.60	3.0%	
End-Use Prices																							
(2000 cents per kilowatt-hour)																							
Residential	11.1	14.8	14.4	13.2	12.2	11.4	11.2	11.2	11.3	11.3	11.3	11.3	10.7	10.6	10.5	10.5	10.6	10.6	10.6	10.6	10.6	-0.2%	
Commercial	11.2	14.7	13.4	12.1	11.1	10.3	10.0	9.9	10.0	10.0	10.0	10.0	9.3	9.2	9.2	9.2	9.2	9.3	9.3	9.2	9.2	-1.0%	
Industrial	7.5	9.9	8.6	7.7	7.0	6.5	6.3	6.3	6.3	6.4	6.3	6.3	5.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	-1.3%	
Transportation	10.9	10.4	10.1	8.9	8.3	7.8	7.5	7.7	8.0	8.3	8.5	8.7	8.8	8.9	9.0	9.0	8.9	8.7	8.5	8.2	8.0	-1.5%	
All Sectors Average	10.2	13.5	12.4	11.3	10.4	9.6	9.4	9.4	9.4	9.4	9.4	9.4	8.8	8.7	8.7	8.7	8.7	8.8	8.8	8.8	8.8	-0.8%	

Table 71. Electric Power Projections for Electricity Market Module Region (3 of 3)
Western Systems Coordinating Council / California

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
<i>(2000 cents/kilowatthour)</i>																						
Generation	6.5	10.0	8.9	7.6	6.7	6.0	5.7	5.6	5.6	5.5	5.5	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	-15%
Transmission	0.9	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8%
Distribution	2.9	2.7	2.8	2.9	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	-0.1%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	0.38	0.38	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.2%
Natural Gas	0.72	0.89	0.59	0.63	0.68	0.68	0.74	0.75	0.80	0.81	0.88	0.93	0.99	1.04	1.08	1.13	1.17	1.23	1.27	1.29	1.35	3.2%
Oil	0.02	0.03	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	-1.8%
Total	1.13	1.30	0.97	1.02	1.05	1.08	1.14	1.15	1.20	1.21	1.27	1.33	1.38	1.43	1.48	1.52	1.57	1.62	1.66	1.71	1.75	2.2%
Emissions (million tons) 10/																						
Total Carbon	22.83	25.57	20.16	20.94	21.60	22.04	23.08	23.16	23.94	24.09	25.18	26.02	26.93	27.73	28.61	29.25	30.05	30.79	31.59	32.39	33.19	1.9%
Carbon Dioxide	83.71	93.77	73.92	76.77	79.21	80.82	84.63	84.91	87.78	88.34	92.34	95.41	98.73	101.69	104.89	107.25	110.20	112.91	115.84	118.77	121.71	1.9%
Sulfur Dioxide	0.09	0.09	0.08	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-1.3%
Nitrogen Oxide	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.5%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

CEM = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

**Table 72. Electric Power Projections for Electricity Market Module Region (1 of 3)
United States**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generating Capacity 1/ (gigawatts)																							
Coal Steam	304.57	304.57	304.94	304.61	303.32	303.73	302.72	303.73	303.43	304.76	305.71	306.47	306.13	309.43	310.67	313.13	315.77	318.92	321.15	325.02	328.02	0.4%	
Other Fossil Steam 2/	134.96	134.54	133.46	132.56	130.61	127.43	123.59	117.77	115.79	115.72	115.59	115.28	115.23	114.86	114.54	114.38	114.38	113.69	113.63	113.53	113.31	-0.9%	
Combined Cycle	30.56	35.25	36.48	36.48	49.63	59.60	70.85	93.03	111.26	127.53	139.86	149.77	158.47	164.96	174.51	182.43	189.51	196.43	202.56	208.60	213.82	10.2%	
Combustion Turbine/Diesel	77.73	80.95	80.82	97.90	99.42	104.91	117.59	122.46	125.31	127.26	128.85	130.62	131.81	137.52	143.85	149.61	155.54	161.77	167.77	173.47	177.85	4.2%	
Nuclear Power	97.51	97.57	97.70	97.70	97.70	97.70	97.70	94.96	94.96	94.96	94.34	93.56	92.77	92.10	89.59	88.83	88.83	88.02	88.02	88.02	88.02	-0.5%	
Pumped Storage/Other 3/	19.18	19.52	19.56	19.60	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	0.1%	
Fuel Cells	0.00	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.25	35.2%	
Renewable Sources 4/	82.13	91.43	92.78	93.79	94.33	95.16	95.65	96.01	96.34	96.90	97.19	97.64	97.99	98.49	98.97	99.49	100.29	100.52	100.84	101.22	101.52	0.6%	
Distributed Generation 5/	0.00	0.00	0.00	0.25	0.47	0.86	1.50	2.19	3.24	4.15	5.08	5.92	6.90	8.08	9.54	11.09	12.68	14.33	15.96	17.52	19.05	19.05	
Total Capacity	753.64	763.83	775.77	782.83	795.36	809.08	829.31	848.88	870.07	891.06	906.43	919.09	931.14	945.30	961.54	978.81	996.55	1013.35	1029.50	1046.89	1062.19	1.7%	
Cumulative Planned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	4.69	5.14	5.14	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	N/A
Combustion Turbine/Diesel	0.00	3.34	3.34	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	N/A
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.30	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	0.30	0.30	N/A
Fuel Cells	0.00	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.25	0.25	N/A
Renewable Sources 4/	0.00	2.22	3.43	4.23	4.90	5.63	5.86	6.21	6.43	6.80	6.96	7.23	7.35	7.63	7.75	7.92	8.01	8.05	8.09	8.13	8.16	8.16	N/A
Distributed Generation 5/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	10.54	12.22	13.36	15.52	16.27	16.51	16.88	17.12	17.51	17.70	18.00	18.14	18.43	18.56	18.74	18.84	18.89	18.93	18.97	19.01	N/A	
Cumulative Unplanned Additions 6/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	1.02	1.95	2.80	3.78	5.12	6.15	6.92	8.64	9.94	11.69	14.15	16.78	19.94	23.38	27.24	31.25	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	N/A	
Combined Cycle	0.00	0.00	0.00	0.00	11.87	21.84	32.89	55.07	73.30	89.58	101.90	111.81	120.52	127.02	136.55	144.47	151.56	158.48	164.60	170.65	175.87	N/A	
Combustion Turbine/Diesel	0.00	0.00	10.03	17.76	20.99	28.17	41.15	46.41	49.34	51.57	53.58	55.99	58.80	64.63	70.96	76.72	82.65	88.95	95.02	100.77	105.94	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	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	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.15	0.26	0.46	0.61	0.79	1.02	1.24	1.59	1.92	2.31	2.62	2.90	3.09	3.42	N/A	
Total Unplanned Additions	0.00	0.00	10.03	18.01	33.33	51.71	77.64	106.42	129.93	150.88	167.33	181.42	195.67	210.91	230.34	248.35	265.99	284.52	301.76	319.26	335.53	N/A	
Distributed Generation 5/	0.00	0.00	0.00	0.25	0.47	0.86	1.50	2.19	3.24	4.15	5.08	5.92	6.90	8.08	9.54	11.09	12.68	14.33	15.96	17.52	19.05	N/A	
Cumulative Total Additions	0.00	10.54	22.24	31.37	48.84	67.99	84.15	123.30	147.05	168.39	185.03	199.42	214.01	229.34	248.90	267.09	284.83	303.20	320.69	338.23	354.54	N/A	
Cumulative Retirements 7/																							
Coal Steam	0.00	0.20	0.20	0.20	1.47	2.08	4.03	4.66	5.14	5.16	5.24	5.24	5.31	5.31	5.81	5.81	5.81	5.81	7.02	7.02	7.02	N/A	
Other Fossil Steam 2/	0.00	0.21	0.40	1.24	3.19	6.40	10.24	16.06	18.04	18.11	18.24	18.55	18.60	18.88	19.29	19.45	19.45	20.14	20.30	20.30	20.52	N/A	
Combined Cycle	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	
Combustion Turbine/Diesel	0.00	0.11	0.27	1.26	2.96	4.66	4.95	5.34	5.43	5.70	6.12	7.96	8.38	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	N/A	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	3.36	4.14	4.93	5.60	6.11	6.87	6.87	6.88	6.88	6.88	6.88	N/A	
Pumped Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A	
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	N/A	
Total	0.00	0.52	0.91	2.73	7.77	13.30	19.37	28.96	31.51	31.86	33.13	34.66	37.40	38.68	41.88	42.80	42.80	44.38	45.71	45.86	46.88	N/A	
Cogenerators 8/																							
Capability	8.91	8.91	8.91	8.90	8.89	8.88	8.86	8.85	8.84	8.63	8.59	8.59	8.59	8.59	8.59	8.58	8.58	8.58	8.58	8.58	8.57	-0.2%	
Petroleum	2.35	2.35	2.35	2.32	2.32	2.31	2.31	2.31	2.31	2.30	2.31	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	-0.1%	
Natural Gas	35.87	37.80	39.01	39.78	39.52	40.22	40.93	41.54	42.15	42.79	43.48	44.20	44.90	45.62	46.34	47.14	47.97	48.79	49.68	50.59	51.58	1.8%	
Other Gaseous Fuels	0.67	0.67	0.67	1.07	1.08	1.09	1.12	1.14	1.17	1.20	1.23	1.27	1.34	1.43	1.57	1.70	1.83	1.97	2.17	2.44	2.81	4.4%	
Renewable Sources 4/	6.76	6.77	6.79	7.02	7.23	7.50	7.76	8.01	8.06	8.22	8.38	8.65	8.86	9.04	9.22	9.39	9.58	9.76	9.93	10.08	10.23	2.1%	
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	N/A	
Total	54.56	56.50	56.72	58.08	59.03	60.00</																	

**Table 72. Electric Power Projections for Electricity Market Module Region (2 of 3)
United States**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Demand																							
(billion kilowatthours)																							
Residential	1189.16	1229.88	1259.49	1302.29	1328.27	1352.89	1370.23	1387.03	1404.19	1422.35	1441.26	1461.07	1482.65	1504.92	1528.24	1552.67	1573.62	1595.90	1617.60	1641.44	1666.55	1.7%	
Commercial/Other	1143.21	1170.15	1192.01	1231.43	1269.76	1305.13	1340.11	1374.18	1407.11	1440.00	1473.25	1506.93	1541.52	1576.41	1611.48	1644.38	1675.52	1706.09	1735.81	1764.16	1790.01	2.3%	
Industrial	1070.01	1022.27	1029.17	1062.31	1086.06	1111.50	1134.28	1161.53	1180.93	1201.71	1228.64	1256.70	1275.38	1293.71	1311.01	1327.72	1344.48	1361.67	1381.47	1399.12	1414.16	1.4%	
Transportation	15.89	16.31	16.74	16.89	20.96	22.88	24.59	26.11	27.65	29.22	30.80	32.33	33.83	35.31	36.73	37.46	37.27	36.96	36.55	36.06	35.48	4.1%	
Total Sales	3418.26	3438.61	3497.32	3614.83	3705.06	3792.21	3869.21	3948.84	4019.88	4093.27	4173.96	4257.04	4333.38	4410.35	4487.45	4562.23	4630.94	4700.42	4771.43	4842.77	4911.20	1.8%	
Net Energy for Load (billion kilowatthours) 7/																							
Gross International Imports	47.91	48.01	45.54	57.58	60.30	66.09	57.88	53.97	51.27	50.87	50.98	51.50	51.38	51.41	50.00	52.94	51.28	49.24	48.37	47.37	47.42	-0.1%	
Gross International Exports	13.00	13.07	13.10	12.75	16.55	16.67	16.80	16.93	17.08	17.20	16.38	15.41	14.44	13.47	12.50	11.53	10.57	9.60	8.63	8.14	7.66	-2.6%	
Gross Interregional Electricity Imports	304.56	291.24	293.10	308.81	315.37	310.12	314.43	317.58	311.47	304.88	288.19	276.20	267.24	259.16	247.98	239.65	231.35	218.82	209.96	204.15	200.45	-2.1%	
Gross Interregional Electricity Exports	307.84	294.63	296.39	312.49	319.26	314.10	318.69	322.32	315.73	309.10	292.41	280.37	271.51	263.46	252.22	243.94	236.74	223.29	213.48	208.70	205.07	-2.0%	
Purchases from Cogenerators 8/	161.10	163.24	168.03	173.09	175.65	177.42	179.18	180.80	182.24	184.57	187.01	189.58	192.53	195.74	198.51	205.12	208.64	212.46	216.42	216.42	220.07	1.6%	
Utility Generation for Customers	3474.12	3492.97	3551.07	3657.32	3749.26	3832.93	3919.54	4003.90	4078.59	4152.99	4232.14	4312.81	4387.01	4461.32	4537.11	4603.07	4678.18	4747.25	4818.37	4890.44	4958.90	1.8%	
Total Net Energy for Load	3666.65	3687.76	3748.25	3871.56	3964.76	4055.36	4135.54	4217.41	4290.77	4366.11	4448.51	4534.30	4612.21	4690.71	4768.88	4844.73	4917.63	4991.06	5066.06	5141.54	5214.11	1.8%	
Generation by Fuel Type																							
(billion kilowatthours)																							
Coal	1922.28	1932.77	1941.60	2000.22	2037.03	2086.43	2130.11	2177.16	2189.84	2204.95	2215.18	2224.96	2242.35	2258.07	2271.52	2291.85	2316.97	2343.59	2362.29	2392.16	2423.18	1.2%	
Petroleum	93.42	110.39	41.48	41.26	43.26	38.97	36.94	30.67	28.43	28.57	28.41	27.84	28.13	31.62	32.47	33.26	34.41	34.01	35.24	39.29	38.05	-4.4%	
Natural Gas	416.68	441.57	494.04	526.04	573.69	607.41	648.98	709.63	771.15	826.81	892.58	967.49	1025.67	1093.99	1146.74	1201.75	1246.43	1294.52	1343.26	1378.76	1414.48	6.3%	
Nuclear	752.44	763.18	761.33	757.06	757.97	758.78	759.54	741.40	740.07	740.62	736.88	731.51	726.14	722.12	718.86	707.13	707.35	701.76	701.76	701.76	701.76	-0.3%	
Pumped Storage/Other 3/	-0.87	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	-0.93	0.4%	
Renewable Sources 4/	320.54	278.67	346.36	366.54	371.04	374.55	376.41	377.85	380.44	383.89	390.65	392.17	394.42	396.07	397.08	400.95	399.20	401.12	402.56	404.52	406.87	1.2%	
Total Generation	3504.48	3525.66	3583.87	3690.30	3782.26	3865.59	3952.70	4036.74	4111.42	4184.93	4264.97	4345.64	4419.80	4494.12	4569.91	4636.87	4708.98	4780.04	4851.17	4923.23	4991.70	1.8%	
Sales to Customers	3474.12	3492.97	3551.07	3657.32	3749.26	3832.93	3919.54	4003.90	4078.59	4152.99	4232.14	4312.81	4387.01	4461.32	4537.11	4603.07	4678.18	4747.25	4818.37	4890.44	4958.90	1.8%	
Generation for Own Use	30.36	32.69	32.80	32.98	33.00	33.98	33.16	32.84	32.84	32.83	32.83	32.83	32.80	32.80	32.80	32.80	32.80	32.80	32.80	32.80	32.80	0.4%	
Cogenerators																							
Coal	46.45	46.75	46.71	47.36	48.16	48.74	49.29	49.85	49.66	49.47	49.23	49.25	49.17	49.26	49.17	49.09	49.21	49.17	49.14	49.10	49.05	0.3%	
Petroleum	8.92	10.27	8.90	9.60	9.68	9.66	9.72	9.71	9.73	9.79	9.85	9.91	10.03	10.18	10.25	10.20	10.27	10.24	10.36	10.65	10.62	0.9%	
Natural Gas	206.66	215.41	220.94	229.70	234.93	239.22	243.26	246.51	250.30	254.93	260.05	264.94	270.14	275.38	280.35	286.08	292.25	298.43	304.91	311.39	318.46	2.1%	
Other Gaseous Fuels	5.55	5.55	5.55	5.38	5.44	5.50	5.75	5.75	5.87	6.10	6.32	6.55	6.80	7.04	7.25	7.47	7.69	7.91	8.13	8.35	8.57	3.9%	
Renewable Sources 4/	36.54	36.35	37.14	38.79	40.00	41.54	42.98	44.44	44.51	45.34	46.20	47.79	49.04	50.15	51.21	52.24	53.40	54.48	55.49	56.39	57.24	2.2%	
Other	4.40	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	4.46	0.1%	
Total	310.93	318.79	323.71	338.29	345.67	352.12	358.47	363.73	367.53	373.09	378.11	385.89	392.65	399.48	405.70	412.45	420.18	427.58	435.49	443.46	451.68	1.9%	
Sales to Utilities	161.10	163.24	168.03	173.09	175.65	177.42	179.18	180.80	182.24	184.57	187.01	189.58	192.53	195.74	198.51	205.12	208.64	212.46	216.42	216.42	220.07	1.6%	
Generation for Own Use	149.84	155.55	155.68	165.20	170.02	174.69	179.29	182.93	185.29	188.52	192.10	196.32	200.12	203.74	207.19	210.93	215.06	218.93	223.03	227.04	231.60	2.2%	
End-Use Prices																							
(2000 cents per kilowatthour)																							
Residential	8.3	8.4	8.0	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.7	-0.4%	
Commercial	7.5	7.8	7.3	7.1	7.1	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.9	6.9	-0.4%	
Industrial	4.6	4.7	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	-0.2%	
Transportation	7.4	7.2	6.9	6.2	5.9	5.7	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.5	6.4	6.4	6.4	6.2	-1.0%	
All Sectors Average	6.9	7.1	6.7	6.5	6.5	6.4	6.3	6.3	6.3	6.3	6.3	6.4	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4	-0.3%	

**Table 72. Electric Power Projections for Electricity Market Module Region (3 of 3)
United States**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Prices by Service Category																						
(2000 cents/kilowatthour)																						
Generation	4.3	4.6	4.2	4.0	4.0	3.9	3.8	3.8	3.7	3.7	3.7	3.8	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9	-0.4%
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3%
Distribution	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	-0.3%
Fuel Consumption (quadrillion Btu) 9/																						
Coal	19.69	19.82	19.89	20.52	20.89	21.44	21.93	22.42	22.55	22.89	22.80	22.89	23.05	23.21	23.33	23.52	23.75	23.99	24.15	24.40	24.67	1.1%
Natural Gas	4.18	4.34	4.50	5.21	5.43	5.57	5.78	5.98	6.28	6.54	6.95	7.48	7.87	8.27	8.67	9.02	9.30	9.61	9.94	10.17	10.40	4.7%
Oil	0.93	1.08	0.96	0.95	0.97	0.92	0.90	0.23	0.22	0.21	0.21	0.20	0.21	0.23	0.24	0.24	0.25	0.25	0.26	0.29	0.28	-5.9%
Total	24.80	25.24	25.16	26.69	26.69	27.33	28.01	28.63	29.05	29.44	29.96	30.56	31.13	31.71	32.24	32.78	33.30	33.85	34.34	34.86	35.35	1.5%
Emissions (million tons) 10/																						
Total Carbon	645.32	652.82	646.99	669.67	684.08	700.52	717.11	732.84	741.23	749.20	759.03	769.90	781.13	792.71	802.82	814.03	825.38	837.43	847.58	859.40	870.80	1.5%
Carbon Dioxide	2366.17	2393.88	2372.29	2455.46	2508.29	2588.57	2629.40	2697.07	2717.83	2747.05	2783.12	2822.97	2864.14	2906.61	2943.69	2984.78	3028.37	3070.67	3107.78	3151.14	3192.93	1.5%
Sulfur Dioxide	11.04	11.09	11.29	10.99	10.59	10.39	10.34	10.14	9.94	9.85	9.70	9.95	9.95	9.85	9.95	9.95	9.95	9.95	9.95	9.95	9.95	-1.0%
Nitrogen Oxide	4.29	4.33	4.32	4.46	3.89	3.94	4.00	4.03	4.03	4.03	4.04	4.06	4.08	4.09	4.10	4.12	4.13	4.15	4.15	4.15	4.16	0.1%

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B. "Annual Electric Generator Report - Nonutility." 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 for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

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

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

6/ Cumulative additions after December 31, 2000.

7/ Generation to meet system load by source.

8/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

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

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

Q&M = Operation and maintenance.

EMM = Electricity market module.

NA = Not applicable.

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

Sources: 2000 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2000, DOE/EIA-0384(2000) (Washington, DC, August 2001).

Other 2000 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, February 2001) and EIA, AEO2002 National Energy Modeling System run aeo2002.d102001b.

Table 73. Electric Generation by Electricity Market Module Region and Source (1 of 3)
(Billion Kilowatt-hour)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
East Central Area Reliability																						
Coordination Agreement																						
Coal	506.79	509.08	512.80	530.42	539.09	549.44	553.71	568.17	571.88	574.99	577.93	578.81	581.44	584.38	586.68	587.60	589.94	592.10	593.11	593.73	594.29	0.8%
Petroleum	4.62	1.97	1.21	1.24	1.05	0.86	0.69	0.68	0.70	0.69	0.71	0.73	0.74	0.74	0.73	0.73	0.73	0.81	0.83	0.82	0.84	-8.2%
Natural Gas	17.87	16.44	31.57	32.61	39.48	43.41	52.71	59.63	67.48	74.06	81.63	93.25	101.63	108.11	117.04	124.89	132.02	142.71	151.63	160.28	169.94	11.9%
Nuclear	55.99	56.75	56.36	56.52	56.64	56.76	56.88	45.99	44.17	44.29	44.40	44.52	44.64	44.76	44.86	44.91	44.96	39.37	39.37	39.37	39.37	-1.7%
Pumped Storage/Other 1/	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	N/A
Renewables 2/	4.66	4.73	5.69	6.08	6.63	6.71	6.25	6.31	6.37	6.32	7.57	7.51	7.47	6.79	6.07	6.58	5.02	5.02	5.01	5.08	5.08	0.4%
Total	588.91	588.95	607.62	626.96	642.89	657.16	670.23	680.79	690.60	700.33	712.23	724.81	735.90	744.77	755.37	764.70	772.74	780.03	790.00	799.33	809.62	1.6%
Electric Reliability Council of Texas																						
Coal	110.88	109.82	107.95	109.61	111.04	111.79	112.52	113.23	113.23	112.92	112.73	112.74	112.74	112.93	113.23	112.83	113.22	113.23	113.23	113.23	113.23	0.1%
Petroleum	0.29	2.91	0.22	0.13	0.12	0.12	0.10	0.08	0.07	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.06	0.05	0.06	0.07	0.06	-7.4%
Natural Gas	104.74	99.17	106.06	114.85	119.72	124.58	130.11	136.00	141.67	147.54	155.03	162.32	167.66	172.82	178.11	183.06	187.18	190.62	194.11	197.98	201.43	3.3%
Nuclear	38.10	38.48	40.84	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	38.17	0.0%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	1.30	3.68	5.52	5.95	6.38	6.81	7.15	7.43	7.71	8.48	8.68	8.81	8.95	9.08	8.72	9.36	8.99	9.13	9.26	9.40	9.53	10.5%
Total	256.31	254.86	260.59	269.73	276.47	282.54	289.15	296.05	302.09	308.51	316.11	323.56	329.07	334.61	339.87	345.08	349.31	353.18	356.70	360.81	364.45	1.8%
Mid-Atlantic Area Council																						
Coal	110.68	112.86	115.01	118.30	122.53	126.39	130.90	135.34	135.81	136.59	136.43	136.63	137.09	137.25	137.75	137.86	138.05	138.23	138.48	139.48	139.68	1.2%
Petroleum	5.65	7.38	1.41	1.30	1.04	0.81	0.76	0.80	0.53	0.47	0.51	0.54	0.56	0.56	0.53	0.55	0.57	0.58	0.59	0.58	0.64	-10.3%
Natural Gas	7.44	9.59	14.13	15.55	19.20	19.90	23.21	28.08	31.26	33.06	37.84	43.45	46.38	51.10	55.24	60.34	62.68	66.77	70.38	72.45	74.98	12.2%
Nuclear	101.88	103.04	103.73	102.70	102.75	102.80	102.84	95.10	95.10	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	90.82	-0.6%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	8.22	7.73	9.05	10.90	11.50	11.82	11.75	12.03	12.64	12.91	13.14	13.38	13.60	13.83	14.06	14.30	14.52	14.61	14.61	14.61	14.60	2.9%
Total	233.88	239.77	243.33	249.77	257.08	261.84	268.71	271.49	275.38	277.87	279.51	285.31	288.76	294.25	298.63	304.76	307.52	311.98	315.84	319.25	322.08	1.6%
Mid-America Interconnected Network																						
Coal	148.22	155.74	155.15	162.90	168.75	174.00	180.11	186.65	188.87	190.28	191.35	193.78	195.00	195.86	196.51	197.17	197.68	198.08	193.42	193.79	194.13	1.4%
Petroleum	3.31	0.67	0.30	0.36	0.35	0.33	0.35	0.32	0.32	0.26	0.26	0.34	0.36	0.37	0.36	0.36	0.36	0.37	0.37	0.37	0.37	-10.4%
Natural Gas	6.78	4.06	5.90	5.51	5.49	5.58	4.76	4.56	5.04	5.16	6.67	9.18	10.73	11.88	13.46	16.00	18.27	20.36	24.19	27.60	28.56	7.5%
Nuclear	97.63	98.23	97.46	97.65	97.84	98.02	98.21	98.40	98.59	98.78	98.97	93.24	87.51	87.70	87.89	87.95	88.00	88.01	88.01	88.01	88.01	-0.5%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	3.46	3.68	4.51	4.57	4.67	4.98	4.88	4.89	4.99	4.97	5.45	4.89	4.89	4.88	4.85	5.31	5.30	5.30	5.28	5.27	5.28	2.1%
Total	259.40	262.39	263.32	271.00	277.34	282.98	288.42	294.96	298.01	299.74	303.02	301.77	298.88	301.14	303.59	307.35	310.21	312.79	312.00	315.83	317.15	1.0%
Mid-Continent Area Power Pool																						
Coal	118.19	120.05	120.06	126.42	132.13	135.77	139.16	142.43	142.81	142.06	142.50	142.79	143.07	143.33	143.51	143.68	143.69	143.65	143.93	143.93	146.63	1.1%
Petroleum	0.70	0.36	0.35	0.49	0.53	0.54	0.50	0.40	0.40	0.39	0.37	0.42	0.45	0.45	0.44	0.45	0.44	0.46	0.46	0.46	0.45	-2.2%
Natural Gas	2.71	2.63	3.24	3.32	3.71	3.56	4.55	4.54	5.81	6.56	7.68	9.24	10.78	11.85	14.67	17.53	20.08	23.95	25.87	27.33	28.84	12.6%
Nuclear	28.80	29.09	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.80	25.00	19.77	19.77	19.77	19.77	19.77	19.77	-1.9%
Pumped Storage/Other 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewables 2/	15.77	13.69	17.35	18.33	18.54	18.58	18.57	18.56	18.56	18.55	18.54	18.54	18.53	18.52	18.54	18.53	18.53	18.52	18.51	18.56	18.56	0.8%
Total	166.16	166.43	166.79	177.35	183.72	187.28	191.63	194.90	196.46	196.46	198.01	199.91	201.79	203.15	202.40	200.24	202.62	206.20	208.93	210.47	214.70	1.3%

Table 73. Electric Generation by Electricity Market Module Region and Source (3 of 3)
(Billion Kilowatthour)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Western Systems Coordinating Council/																						
Northwest Power Pool Area																						
Coal	80.62	81.12	78.97	79.44	80.47	80.95	81.43	81.90	81.90	81.90	83.71	85.62	88.69	90.66	96.35	103.78	111.11	119.51	128.46	136.42	142.62	2.9%
Petroleum	2.50	3.59	0.64	0.47	0.44	0.29	0.25	0.12	0.08	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-20.0%
Natural Gas	18.94	24.23	24.84	31.73	40.01	44.62	51.92	60.25	66.89	71.43	71.15	75.89	78.87	83.14	83.14	81.55	78.63	75.20	73.52	71.73	71.10	6.8%
Nuclear	7.80	7.84	7.93	8.00	8.07	8.14	8.21	8.28	8.35	8.42	8.49	8.56	8.63	8.70	8.77	8.77	8.77	8.77	8.77	8.77	8.77	0.6%
Pumped Storage/Other 1/	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	N/A
Renewables 2/	142.84	116.81	150.41	158.59	159.06	159.58	160.82	161.24	162.00	163.27	164.27	165.55	166.69	168.24	169.57	170.69	171.75	172.70	173.68	174.69	175.63	1.0%
Total	252.46	235.28	262.57	278.01	287.83	293.36	302.43	311.58	319.02	324.96	327.64	335.67	342.95	350.80	358.09	365.17	370.72	376.14	385.08	392.36	398.96	2.3%
Western System Coordinating Council/ Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada																						
Coal	114.15	113.29	112.02	114.12	115.94	124.88	132.00	137.90	146.67	152.34	155.92	156.81	161.68	165.38	168.12	172.73	176.81	181.38	186.34	192.00	197.25	2.8%
Petroleum	1.69	1.81	0.16	0.09	0.09	0.07	0.07	0.06	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	-16.8%
Natural Gas	22.64	27.51	26.49	28.59	33.19	32.68	31.66	30.54	24.29	21.83	20.96	23.06	21.65	21.03	21.26	19.47	18.82	18.40	17.98	17.06	16.70	-1.5%
Nuclear	22.73	22.95	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73	0.0%
Pumped Storage/Other 1/	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A
Renewables 2/	17.16	15.02	18.26	18.86	18.86	18.86	18.86	18.86	18.86	18.87	18.98	18.94	18.89	18.89	19.03	19.07	19.20	19.32	19.59	19.88	19.88	0.7%
Total	178.33	180.54	179.63	184.38	190.76	199.00	205.33	210.11	212.61	215.84	218.67	221.64	225.11	228.16	231.21	234.25	237.80	242.14	246.89	251.95	257.20	1.8%
Western System Coordinating Council/ California																						
Coal	37.54	37.11	36.42	36.97	37.43	37.62	37.82	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	0.1%
Petroleum	2.09	3.20	1.14	1.36	1.42	1.38	1.59	0.76	0.55	0.53	0.50	0.53	0.80	1.45	1.15	1.62	0.47	0.81	4.04	2.07	-0.1%	
Natural Gas	71.43	87.23	59.23	62.37	68.23	74.44	80.38	86.04	95.75	103.34	116.35	123.27	131.43	138.41	146.11	154.01	161.96	170.99	177.60	181.06	186.16	5.0%
Nuclear	42.79	43.33	44.46	43.15	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	43.19	0.0%
Pumped Storage/Other 1/	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A
Renewables 2/	56.71	50.21	60.99	64.84	65.75	66.97	67.37	67.37	67.56	68.33	68.34	68.34	69.13	69.76	70.18	70.39	70.60	70.81	71.01	71.44	71.86	1.2%
Total	210.12	220.64	201.79	208.28	215.60	223.18	229.96	235.07	245.07	253.22	266.21	273.24	282.33	290.34	299.24	307.19	315.96	324.21	331.50	338.75	346.05	2.5%

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

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

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding cogenerators). Net summer capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Source: 2000 utility generation: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Other 2000 and projections: EIA, AEO2002 National Energy Modeling System run aeo2002.e10200h.

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
East Central Area Reliability																						
Coordination Agreement																						
Coal Steam	83.84	83.84	83.84	83.83	83.66	83.10	81.30	81.30	81.28	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	81.21	-0.2%
Other Fossil Steam 1/	3.73	3.75	3.75	3.75	3.75	3.75	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	-0.2%
Combined Cycle	0.47	0.47	0.47	0.47	0.47	2.59	3.85	5.78	7.66	9.33	11.24	12.45	14.24	15.77	16.45	18.22	19.65	20.55	21.62	22.78	23.94	24.87
Combustion Turbine/ Diesel	9.67	10.07	11.97	13.38	13.63	14.74	16.78	17.48	17.45	17.59	17.71	17.82	17.88	18.58	18.77	18.88	19.08	19.42	19.76	20.38	21.31	4.0%
Nuclear Power	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	-1.9%
Pumped Storage/Other 2/	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	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	N/A
Renewable Sources 3/	1.51	1.54	1.54	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.61	1.61	0.3%
Total	110.17	110.61	112.52	113.96	116.16	117.96	120.00	120.94	122.58	124.61	125.87	127.78	129.38	130.73	132.69	134.24	135.35	136.01	137.54	139.38	141.32	1.3%
Electric Reliability Council of Texas																						
Coal Steam	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	N/A
Other Fossil Steam 1/	29.95	29.91	29.83	29.55	29.30	28.77	27.07	24.86	22.95	22.88	22.88	22.79	22.79	22.69	22.69	22.53	22.53	22.53	22.53	22.53	22.31	-1.5%
Combined Cycle	4.01	4.01	3.98	3.98	3.98	5.04	5.91	8.74	10.42	13.20	15.28	16.54	17.76	18.07	18.73	19.76	20.47	21.01	21.50	21.96	22.50	8.1%
Combustion Turbine/ Diesel	3.12	3.12	4.40	4.77	5.13	5.54	6.77	9.67	10.51	10.88	11.22	11.30	11.45	11.74	11.92	12.02	12.09	12.15	12.20	12.31	12.39	7.1%
Nuclear Power	4.80	4.80	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	0.0%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 3/	0.77	2.00	2.16	2.30	2.43	2.57	2.64	2.72	2.79	2.87	2.89	2.91	2.93	2.95	2.97	2.99	3.01	3.04	3.06	3.08	3.10	7.2%
Total	57.80	59.08	60.43	60.72	62.08	63.00	65.52	68.05	70.06	72.74	74.62	75.91	76.46	77.40	78.72	79.50	80.25	81.04	81.77	82.64	83.25	1.8%
Mid-Atlantic Area Council																						
Coal Steam	19.19	18.99	18.99	18.99	18.99	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	0.0%
Other Fossil Steam 1/	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	N/A
Combined Cycle	1.87	2.47	2.47	2.47	3.45	3.57	4.86	6.01	7.11	7.55	7.81	8.53	9.10	9.58	10.27	10.88	11.49	12.04	12.60	12.99	13.45	10.4%
Combustion Turbine/ Diesel	8.82	8.82	8.96	10.76	10.68	11.71	11.86	12.37	12.54	12.87	12.97	12.87	12.87	13.95	13.89	14.38	14.56	14.85	14.85	14.85	14.85	2.8%
Nuclear Power	12.98	12.98	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	-0.3%
Pumped Storage/Other 2/	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	N/A
Fuel Cells	0.00	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.25	N/A
Renewable Sources 3/	1.76	1.81	1.88	1.95	2.02	2.09	2.16	2.22	2.28	2.33	2.39	2.44	2.49	2.55	2.60	2.66	2.71	2.71	2.71	2.71	2.71	2.2%
Total	54.09	54.54	55.82	56.74	57.79	59.18	60.94	61.75	63.20	64.09	64.33	65.32	66.16	67.56	68.84	70.17	71.21	72.22	72.95	73.65	74.26	1.6%
Mid-America Interconnected Network																						
Coal Steam	27.49	27.49	27.49	27.49	27.49	27.49	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48	-0.1%
Other Fossil Steam 1/	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	N/A
Combined Cycle	0.31	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	1.11	1.23	1.38	1.65	1.87	2.08	2.33	2.55	2.76	3.01	3.25	3.51	12.0%
Combustion Turbine/ Diesel	7.98	8.39	9.49	9.93	11.12	12.48	12.73	13.72	14.32	14.53	14.56	14.56	14.56	14.56	14.92	15.78	16.63	17.59	18.45	19.32	19.32	4.5%
Nuclear Power	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	-0.6%
Pumped Storage/Other 2/	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	0.90	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.1%
Total	54.09	54.82	55.93	56.41	57.67	59.08	59.39	60.45	61.18	61.52	61.99	61.59	61.07	61.35	62.11	63.38	64.56	65.91	66.40	67.61	67.91	1.1%
Mid-Continent Area Power Pool																						
Coal Steam	19.86	19.86	19.86	19.86	19.86	19.86	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	0.1%
Other Fossil Steam 1/	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	N/A
Combined Cycle	0.39	0.39	0.39	0.39	0.39	0.39	0.72	1.09	1.47	1.85	2.17	2.32	2.32	2.32	2.63	3.06	3.43	3.82	4.23	4.47	4.74	13.3%
Combustion Turbine/ Diesel	5.40	5.79	6.43	6.84	7.59	7.53	7.78	8.07	8.22	8.24	8.43	8.65	9.03	9.39	9.51	9.84	10.50	10.92	11.42	11.69	11.09	3.7%
Nuclear Power	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.29	2.53	2.53	2.53	2.53	2.53	2.53	-2.0%
Pumped Storage/Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	N/A
Renewable Sources 3/	3.95	4.09	4.24	4.28	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	0.5%
Total	33.93	34.47	35.25	35.71	36.52	36.49	37.08	37.78	38.36	38.77	39.14	39.50	39.80	40.26	40.54	40.42	41.21	42.34	43.28	44.11	44.48	1.4%

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Northeast Power Coordinating Council/																							
New York																							
Coal Steam																							
Other Fossil Steam 1/	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	-0.1%
Combined Cycle	12.36	12.36	12.36	12.36	11.25	10.35	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	-1.5%
Combustion Turbine/ Diesel	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	12.2%
Nuclear Power	3.64	3.64	3.64	3.64	3.64	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	0.8%
Pumped Storage/Other 2/	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	-1.1%
Fuel Cells	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
Renewable Sources 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
Total	4.55	4.63	4.78	4.85	4.92	4.99	5.13	5.13	5.13	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	0.6%
Northeast Power Coordinating Council/																							
New England																							
Coal Steam																							
Other Fossil Steam 1/	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	N/A
Combined Cycle	7.80	7.80	7.80	7.80	7.28	7.07	7.07	7.07	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	-1.2%
Combustion Turbine/ Diesel	4.53	5.20	5.20	5.20	5.20	6.01	6.01	6.88	7.56	7.58	7.92	8.38	8.57	8.82	9.20	9.30	9.51	9.70	9.78	9.80	10.01	10.01	4.0%
Nuclear Power	1.86	1.75	1.75	1.75	1.75	1.75	1.75	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	0.6%
Pumped Storage/Other 2/	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	-0.8%
Fuel Cells	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	N/A
Renewable Sources 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
Total	3.21	3.21	3.22	3.25	3.29	3.34	3.39	3.45	3.50	3.56	3.61	3.61	3.61	3.61	3.63	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.7%
Florida Reliability Coordinating Council																							
Coal Steam																							
Other Fossil Steam 1/	10.31	10.31	10.84	10.84	9.72	9.72	9.72	9.72	9.72	9.90	9.90	9.90	9.90	9.90	9.90	9.90	10.04	10.28	10.54	11.01	11.52	10.6%	
Combined Cycle	13.06	12.75	11.87	11.14	11.08	11.01	11.01	11.01	11.01	10.92	10.92	10.92	10.92	10.68	10.68	10.68	10.18	10.18	10.18	10.18	10.18	10.18	-1.2%
Combustion Turbine/ Diesel	4.28	4.53	5.65	5.65	6.05	6.05	6.05	6.05	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	9.3%
Nuclear Power	6.20	6.73	7.51	8.03	8.15	8.26	8.48	8.52	8.77	9.20	9.42	9.32	9.32	9.70	10.05	10.57	11.07	11.70	12.32	12.91	13.28	13.28	3.9%
Pumped Storage/Other 2/	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.64	0.64	0.4%
Southeastern Electric Reliability Council																							
Coal Steam																							
Other Fossil Steam 1/	69.70	69.80	69.75	69.43	69.43	69.43	69.43	69.32	69.32	69.72	70.02	70.41	71.06	71.61	71.72	72.55	73.51	74.68	75.48	76.89	78.41	78.41	0.6%
Combined Cycle	19.01	19.01	18.98	18.16	18.14	18.13	18.10	18.10	18.05	19.01	18.83	18.79	18.48	18.48	18.48	18.48	18.29	18.29	18.29	18.18	18.18	18.18	-0.2%
Combustion Turbine/ Diesel	7.25	8.17	8.32	10.53	10.97	14.11	19.58	23.96	28.77	31.44	32.82	34.90	36.43	38.26	40.03	41.31	42.60	43.78	45.00	46.00	46.00	46.00	9.7%
Nuclear Power	19.49	21.04	21.28	21.47	21.52	21.85	23.33	24.29	24.64	24.92	25.07	25.02	26.72	29.15	30.95	32.93	34.66	36.42	37.90	38.95	38.95	38.95	3.5%
Pumped Storage/Other 2/	31.82	31.88	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.86	-0.2%
Fuel Cells	6.40	6.74	6.78	6.82	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	0.5%
Renewable Sources 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
Total	11.66	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.75	11.77	11.77	11.79	11.95	12.03	12.24	12.37	12.37	12.37	12.42	12.42	0.3%
Southwest Power Pool																							
Coal Steam																							
Other Fossil Steam 1/	21.20	21.20	21.20	21.20	21.20	21.20	21.20	20.67	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	20.19	-0.2%
Combined Cycle	13.69	13.61	13.52	13.44	13.36	12.00	11.37	11.06	11.03	11.03	10.99	10.98	10.94	10.94	10.94	10.94	10.94	10.94	10.89	10.89	10.89	10.89	-1.1%
Combustion Turbine/ Diesel	1.78	2.94	2.94	2.94	3.41	4.05	4.75	6.74	7.86	8.58	9.29	10.00	10.85	11.15	11.70	11.93	12.62	13.08	13.59	14.06	14.62	14.62	11.1%
Nuclear Power	4.63	4.64	4.64	4.72	3.60	4.15	5.05	5.20	5.30	5.42	5.55	5.66	5.66	5.77	5.91	6.02	6.12	6.24	6.33	6.45	6.45	6.45	1.7%
Pumped Storage/Other 2/	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
Fuel Cells	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
Renewable Sources 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
Total	2.47	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.60	2.60	2.60	2.60	2.61	2.61	2.62	2.62	2.62	2.62	2.62	2.62	2.62	0.3%
Total																							
	45.46	46.66	46.56	46.57	45.84	45.66	46.65	47.94	48.65	49.49	50.34	51.12	51.96	52.34	53.03	53.37	54.16	54.75	55.30	55.89	56.45	56.45	1.1%

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Western Systems Coordinating Council/																						
Northwest Power Pool Area																						
Coal Steam	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.99	11.24	11.66	11.92	12.69	13.09	14.67	15.80	17.00	18.07	18.91	19.91	2.9%
Other Fossil Steam 1/	0.71	0.71	0.71	0.71	0.71	0.71	0.71	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	-3.2%
Combined Cycle	1.64	1.64	1.64	1.64	3.02	3.86	3.86	5.84	7.63	9.23	10.54	11.59	12.11	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	10.7%
Combustion Turbine/ Diesel	1.11	1.11	2.04	2.81	2.81	2.81	4.04	4.01	4.01	4.20	4.28	4.28	4.15	4.47	4.96	5.60	5.98	6.09	6.09	6.09	6.33	9.1%
Nuclear Power	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	N/A
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	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	N/A
Renewable Sources 3/	38.10	36.41	36.41	36.58	36.65	36.90	36.94	37.10	37.19	37.47	37.57	37.66	37.59	38.32	38.47	38.63	38.71	38.90	39.03	39.16	39.28	0.4%
Total	61.73	52.04	52.97	53.91	55.36	56.36	57.75	59.48	61.38	63.68	65.64	67.30	68.29	69.76	71.38	73.42	75.12	76.75	78.27	79.70	81.12	2.3%
Western System Coordinating Council/ Rocky																						
Mountain Power Area, Arizona, New Mexico,																						
and Southern Nevada																						
Coal Steam	15.82	15.82	15.82	15.82	15.82	16.84	17.68	18.31	19.49	20.28	20.75	20.88	21.52	22.01	22.38	23.00	23.55	24.16	24.83	25.59	26.30	2.6%
Other Fossil Steam 1/	2.79	2.79	2.79	2.79	2.79	2.79	2.75	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	-1.4%
Combined Cycle	1.98	2.90	2.90	2.90	4.22	4.92	4.92	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.0%
Combustion Turbine/ Diesel	3.17	3.17	3.94	4.70	4.70	4.70	5.62	6.61	6.61	6.61	6.61	6.61	6.61	6.61	7.10	7.16	7.58	7.65	7.88	7.88	8.38	5.0%
Nuclear Power	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	N/A
Pumped Storage/Other 2/	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	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	N/A
Renewable Sources 3/	5.83	5.93	5.93	5.93	5.93	5.94	5.94	5.94	5.95	5.95	5.95	5.95	5.96	5.96	5.96	6.02	6.05	6.09	6.17	6.25	6.33	0.3%
Total	33.04	34.07	34.84	35.64	36.96	38.68	40.44	41.80	42.99	43.75	44.27	44.40	45.11	45.67	46.71	47.61	48.78	49.64	50.86	51.80	53.17	2.4%
Western System Coordinating Council/																						
California																						
Coal Steam	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	5.0%
Other Fossil Steam 1/	19.14	19.14	19.14	19.14	19.14	19.20	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61	-0.4%
Combined Cycle	1.41	1.41	1.41	1.41	2.81	4.81	4.81	7.02	9.37	11.94	14.54	16.05	16.13	17.09	18.37	19.83	21.31	22.55	23.21	24.29	24.85	15.4%
Combustion Turbine/ Diesel	2.64	2.68	3.77	5.09	5.07	7.08	7.04	7.04	8.29	9.22	10.37	11.38	12.32	13.29	14.50	16.02	17.44	18.10	19.10	19.10	19.10	10.4%
Nuclear Power	5.33	5.33	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	0.0%
Pumped Storage/Other 2/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	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	N/A
Renewable Sources 3/	15.84	15.91	16.72	17.07	17.30	17.64	17.64	17.65	17.68	17.78	17.78	17.79	17.90	17.98	18.03	18.07	18.10	18.13	18.16	18.22	18.28	0.7%
Total	53.01	53.12	55.05	56.76	58.40	60.72	62.66	63.55	66.25	68.92	71.53	73.59	75.99	78.45	81.09	83.85	86.67	89.49	92.03	94.89	97.56	3.1%

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

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

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

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Values represent net summer capability for utilities and nonutilities (excluding cogenerators). Net summer

capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Source: 2000 utility. Energy Information Administration (EIA), Form EIA-860A, "Annual Electric Generator Report - Utility." Other 2000 and 2010 projections. EIA, AEO2002 National

Energy Modeling System run aeo2002.d102010.

Table 75. Renewable Energy Generation by Fuel (1 of 2)
East Central Area Reliability Coordination Agreement

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generators (excluding cogenerators) 1/																							
Generating Capacity (gigawatts)																							
Conventional Hydropower	1.26	1.26	1.26	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	0.2%	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.10	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	1.4%
Wood and Other Biomass 3/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.0%
Solar Thermal 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
Solar Photovoltaic 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
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	12.8%
Total	1.51	1.54	1.54	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.61	1.61	0.3%	
Electricity Generation (billion kilowatt-hours)																							
Conventional Hydropower	2.72	2.24	2.85	3.12	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.09	3.09	3.09	3.09	0.6%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.75	0.91	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.4%
Wood and Other Biomass 3/	1.19	1.58	1.85	1.96	2.53	2.61	2.15	2.21	2.28	2.22	3.48	3.42	3.37	2.70	1.98	2.49	0.93	0.93	0.93	0.93	0.93	0.93	-1.2%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	16.0%
Total	4.66	4.73	5.69	6.08	6.63	6.71	6.25	6.31	6.37	6.32	7.57	7.51	7.47	6.79	6.07	6.58	5.02	5.02	5.01	5.08	5.08	0.4%	
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	0.03	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	0.6%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.4%
Wood and Other Biomass 3/	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	-0.9%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.0%
Total	0.05	0.05	0.06	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.5%
Cogenerators 5/																							
Generating Capacity (gigawatts)																							
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 3/	0.13	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	2.2%
Total	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	2.2%	
Electricity Generation (billion kilowatt-hours)																							
Municipal Solid Waste	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	0.13	0.0%
Wood and Other Biomass 3/	1.73	1.73	1.73	1.82	1.89	1.98	2.06	2.14	2.14	2.18	2.23	2.32	2.40	2.48	2.52	2.58	2.65	2.71	2.77	2.82	2.87	2.87	2.6%
Total	1.86	1.86	1.86	1.96	2.02	2.10	2.19	2.27	2.27	2.31	2.36	2.45	2.52	2.59	2.65	2.71	2.78	2.84	2.90	2.96	3.00	2.94	
Energy Consumption (quadrillion Btu)																							
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.3%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	2.0%

Table 75. Renewable Energy Generation by Fuel (2 of 2)
East Central Area Reliability Coordination Agreement

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Other End-Use Generators 6/																							
Generating Capacity (gigawatts)																							
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Electricity Generation (billion kilowatthours)																							
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2%	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	17.6%	
Total	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	3.7%	
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2%	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2%	

1/ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators

at industrial and commercial facilities which do not produce steam for other uses.

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

3/ Includes projections for energy crops after 2010.

4/ Grid connected generation only.

Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEC999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.

Source: 1999 and 1998 generation: EIA, Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_01020015.

Table 76. Renewable Energy Generation by Fuel (1 of 2)
Electric Reliability Council of Texas

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generators (excluding cogenerators) 1/																							
Generating Capacity (gigawatts)																							
Conventional Hydropower	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.10	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.47	0.47	19.5%
Wood and Other Biomass 3/	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Solar Thermal 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
Solar Photovoltaic 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.9%
Wind	0.23	1.37	1.49	1.60	1.72	1.83	1.89	1.95	2.00	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	11.5%
Total	0.77	2.00	2.16	2.30	2.43	2.57	2.64	2.72	2.79	2.87	2.89	2.91	2.93	2.95	2.97	2.99	3.01	3.04	3.06	3.08	3.10	3.10	7.2%
Electricity Generation (billion kilowatt-hours)																							
Conventional Hydropower	0.68	0.56	0.71	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.09	0.50	0.85	1.02	1.16	1.29	1.42	1.56	1.69	1.82	1.96	2.09	2.22	2.36	2.49	2.62	2.75	2.89	3.02	3.15	3.29	3.29	19.8%
Wood and Other Biomass 3/	0.06	0.11	0.25	0.17	0.16	0.16	0.16	0.16	0.17	0.66	0.67	0.66	0.67	0.66	0.66	0.17	0.66	0.16	0.16	0.16	0.16	0.15	5.1%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	16.1%
Wind	0.47	2.51	3.70	4.00	4.31	4.61	4.80	4.95	5.10	5.24	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	12.8%
Total	1.30	3.68	5.52	5.96	6.38	6.81	7.15	7.43	7.71	8.48	8.68	8.81	8.95	9.08	9.72	9.36	9.98	9.13	9.26	9.40	9.53	10.5%	
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	19.8%
Wood and Other Biomass 3/	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	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	6.4%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1%
Wind	0.00	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	12.8%
Total	0.01	0.04	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.11	0.11	0.11	0.11	11.0%
Cogenerators 5/																							
Generating Capacity (gigawatts)																							
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wood and Other Biomass 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
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Generation (billion kilowatt-hours)																							
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 3/	0.16	0.16	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.27	0.28	2.6%
Total	0.18	0.18	0.18	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.28	0.28	2.5%

Table 76. Renewable Energy Generation by Fuel (2 of 2)
Electric Reliability Council of Texas

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Energy Consumption (quadrillion Btu)																							
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 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	2.6%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2%
Other End-Use Generators 6/																							
Generating Capability (gigawatts)																							
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Generation (billion kilowatthours)																							
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	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	17.6%
Total	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	4.9%
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

1/ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.

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

3/ Includes projections for energy crops after 2010.

4/ Grid connected generation only.

Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.

Sources: 1999 and 1998 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(99) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run aeo2002_0102010.

Table 77. Renewable Energy Generation by Fuel (1 of 2)
Mid-Atlantic Area Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generators (excluding cogenerators) 1/																							
Generating Capacity (gigawatts)																							
Conventional Hydropower	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	0.0%	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.53	0.55	0.58	0.61	0.63	0.66	0.68	0.70	0.73	0.75	0.77	0.80	0.82	0.84	0.87	0.89	0.92	0.92	0.92	0.92	0.92	0.92	2.8%
Wood and Other Biomass 3/	0.03	0.03	0.05	0.07	0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.22	0.22	0.22	10.3%
Solar Thermal 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
Solar Photovoltaic 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
Wind	0.01	0.03	0.06	0.08	0.11	0.13	0.16	0.19	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.39	0.39	0.39	0.39	0.39	0.39	19.7%
Total	1.76	1.81	1.88	1.95	2.02	2.09	2.16	2.22	2.28	2.33	2.39	2.44	2.49	2.55	2.60	2.66	2.71	2.71	2.71	2.71	2.71	2.71	2.2%
Electricity Generation (billion kilowatt-hours)																							
Conventional Hydropower	4.11	3.38	4.31	4.53	4.53	4.53	4.53	4.53	4.53	4.52	4.52	4.52	4.52	4.52	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.50	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	3.91	4.05	4.24	4.44	4.62	4.79	4.95	5.12	5.28	5.45	5.61	5.78	5.94	6.11	6.27	6.44	6.60	6.66	6.66	6.66	6.66	6.66	2.7%
Wood and Other Biomass 3/	0.20	0.25	0.41	1.76	2.11	2.18	1.87	1.90	2.27	2.31	2.32	2.32	2.33	2.34	2.35	2.36	2.36	2.38	2.38	2.37	2.37	2.37	13.2%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.04	0.10	0.17	0.24	0.31	0.39	0.47	0.56	0.62	0.68	0.74	0.80	0.86	0.93	0.99	1.05	1.07	1.07	1.07	1.07	1.07	50.6%
Total	8.22	7.73	9.05	10.90	11.50	11.82	11.75	12.03	12.64	12.91	13.14	13.36	13.60	13.83	14.06	14.30	14.52	14.61	14.61	14.61	14.60	2.9%	
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	0.04	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	2.7%
Wood and Other Biomass 3/	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	13.4%
Solar Thermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	50.6%
Total	0.10	0.09	0.11	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	3.0%
Cogenerators 5/																							
Generating Capacity (gigawatts)																							
Municipal Solid Waste	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%
Wood and Other Biomass 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	2.5%
Total	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.1%
Electricity Generation (billion kilowatt-hours)																							
Municipal Solid Waste	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	0.0%
Wood and Other Biomass 3/	0.38	0.38	0.38	0.40	0.41	0.43	0.45	0.47	0.47	0.48	0.49	0.51	0.53	0.54	0.56	0.57	0.59	0.60	0.61	0.62	0.64	2.6%	
Total	0.82	0.82	0.82	0.84	0.85	0.87	0.89	0.91	0.91	0.92	0.93	0.95	0.97	0.98	1.00	1.01	1.03	1.04	1.06	1.07	1.08	1.4%	

Table 77. Renewable Energy Generation by Fuel (2 of 2)
Mid-Atlantic Area Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-
Energy Consumption (quadrillion Btu)																						
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 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	4.8%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.5%
Other End-Use Generators 6/																						
Generating Capability (gigawatts)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.6%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.1%
Electricity Generation (billion kilowatthours)																						
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.6%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	4.9%
Energy Consumption (quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

1/ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.

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

3/ Includes projections for energy crops after 2010.

4/ Grid connected generation only.

Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.

Sources: 1999 and 1998 generation: EIA, Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run aeo2002_e102001a.

**Table 78. Renewable Energy Generation by Fuel (1 of 2)
Mid-America Interconnected Network**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generators (excluding cogenerators) 1/																						
Generating Capacity (gigawatts)																						
Conventional Hydropower	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
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.18	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Wood and Other Biomass 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
Solar Thermal 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
Solar Photovoltaic 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
Wind	0.02	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
Total	0.90	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.12	1.12	1.12	1.12	1.12	1.12	1.1%
Electricity Generation (billion kilowatt-hours)																						
Conventional Hydropower	2.29	1.89	2.40	2.53	2.53	2.53	2.53	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.51	2.51	2.51	2.51	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	1.03	1.46	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	2.11	2.11	2.11	2.11	3.6%
Wood and Other Biomass 3/	0.07	0.16	0.23	0.16	0.47	0.57	0.47	0.49	0.59	0.57	1.05	0.49	0.49	0.49	0.45	0.45	0.44	0.44	0.42	0.41	0.40	8.8%
Solar Thermal 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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.06	0.18	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	6.8%
Total	3.46	3.68	4.51	4.57	4.87	4.88	4.88	4.89	4.99	4.97	5.45	4.89	4.89	4.89	4.85	5.31	5.30	5.30	5.29	5.27	5.26	2.1%
Energy Consumption (quadrillion Btu)																						
Conventional Hydropower	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	3.6%
Wood and Other Biomass 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.2%
Solar Thermal 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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8%
Total	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	2.3%
Cogenerators 5/																						
Generating Capacity (gigawatts)																						
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 3/	0.15	0.15	0.15	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24	2.5%
Total	0.16	0.16	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26	2.5%

**Table 78. Renewable Energy Generation by Fuel (2 of 2)
Mid-America Interconnected Network**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Wood and Other Biomass ²	1.44	1.44	1.44	1.51	1.57	1.65	1.72	1.79	1.79	1.83	1.87	1.95	2.01	2.07	2.12	2.18	2.24	2.29	2.34	2.39	2.43	2.6%
Total	1.60	1.60	1.60	1.67	1.73	1.81	1.88	1.95	1.96	1.98	2.02	2.11	2.17	2.23	2.28	2.33	2.39	2.45	2.50	2.54	2.59	2.4%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.6%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.1%
Other End-Use Generators⁴																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal ²	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.6%
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.5%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.19	0.16	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	0.4%
Geothermal ²	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	17.6%
Total	0.19	0.17	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	1.4%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ²	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

Table 79. Renewable Energy Generation by Fuel (1 of 2)
Mid-Continent Area Power Pool

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generators (excluding cogenerators) 1/																						
Generating Capability (gigawatts)																						
Conventional Hydropower	3.18	3.18	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.10	0.11	0.11	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	2.0%
Wood and Other Biomass 3/	0.12	0.13	0.18	0.18	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	2.7%
Solar Thermal 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	N/A
Solar Photovoltaic 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	N/A
Wind	0.54	0.67	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.5%
Total	3.95	4.09	4.24	4.28	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.33	0.5%
Electricity Generation (billion kilowatt-hours)																						
Conventional Hydropower	13.65	11.22	14.31	15.07	15.06	15.06	15.05	15.04	15.04	15.03	15.03	15.02	15.01	15.01	15.00	14.99	14.99	14.98	14.97	14.97	14.96	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.64	0.65	0.65	0.87	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.3%
Wood and Other Biomass 3/	0.44	0.55	0.85	0.77	0.88	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	3.8%
Solar Thermal 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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	1.94	1.27	1.54	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.67	1.67	2.4%
Total	15.77	13.69	17.35	18.33	18.54	18.58	18.57	18.56	18.56	18.55	18.54	18.54	18.53	18.52	18.54	18.53	18.53	18.52	18.51	18.56	18.56	0.8%
Energy Consumption (quadrillion Btu)																						
Conventional Hydropower	0.14	0.12	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.3%
Wood and Other Biomass 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.8%
Solar Thermal 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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.4%
Total	0.17	0.14	0.18	0.18	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	0.9%
Cogenerators 5/																						
Generating Capability (gigawatts)																						
Municipal Solid Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 3/	0.17	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	2.4%
Total	0.19	0.19	0.19	0.20	0.20	0.21	0.22	0.23	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.28	0.29	0.30	2.3%

Table 79. Renewable Energy Generation by Fuel (2 of 2)
Mid-Continent Area Power Pool

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Wood and Other Biomass 3/	0.69	0.69	0.69	0.73	0.76	0.79	0.83	0.86	0.86	0.88	0.90	0.94	0.97	1.00	1.02	1.05	1.07	1.10	1.13	1.15	1.17	2.6%
Total	0.80	0.80	0.80	0.84	0.86	0.90	0.93	0.97	0.97	0.99	1.01	1.05	1.08	1.10	1.13	1.15	1.18	1.21	1.23	1.25	1.28	2.4%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass 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	0.01	0.01	0.01	0.01	2.6%
Total	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.9%
Other End-Use Generators 6/																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	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	0.02	0.02	17.6%
Total	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	1.2%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.25	0.21	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	17.6%
Total	0.25	0.21	0.26	0.27	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.6%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%

1/ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
 2/ Includes hydrothermal resources only (hot water and steam).
 3/ Includes projections for energy crops after 2010.
 4/ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

Table 80. Renewable Energy Generation by Fuel (2 of 2)
Northeast Power Coordinating Council / New York

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.0%
Wood and Other Biomass ^{3/}	0.40	0.40	0.40	0.42	0.44	0.46	0.48	0.50	0.50	0.51	0.52	0.54	0.56	0.58	0.59	0.61	0.62	0.64	0.65	0.66	0.68	2.6%
Total	0.95	0.95	0.95	0.97	0.98	1.01	1.03	1.04	1.04	1.06	1.07	1.09	1.11	1.12	1.14	1.15	1.17	1.19	1.20	1.21	1.22	1.3%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass ^{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	3.0%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.8%
Other End-Use Generators^{6/}																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	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	0.01	17.6%
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.3%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.09	0.07	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.4%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.6%
Total	0.09	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.1%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

Table 81. Renewable Energy Generation by Fuel (1 of 2)
Northeast Power Coordinating Council / New England

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generators (excluding cogenerators) 1/																							
Generating Capacity (gigawatts)																							
Conventional Hydropower	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.51	0.52	0.53	0.53	0.53	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.3%
Wood and Other Biomass 3/	0.35	0.35	0.35	0.36	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	1.2%
Solar Thermal 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
Solar Photovoltaic 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
Wind	0.01	0.01	0.01	0.04	0.06	0.09	0.13	0.17	0.21	0.25	0.29	0.29	0.29	0.29	0.31	0.36	0.36	0.36	0.36	0.36	0.36	0.36	18.3%
Total	3.21	3.21	3.22	3.25	3.29	3.34	3.39	3.45	3.50	3.56	3.61	3.61	3.61	3.61	3.63	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.7%
Electricity Generation (billion kilowatt-hours)																							
Conventional Hydropower	4.69	3.85	4.91	5.17	5.17	5.17	5.17	5.16	5.16	5.16	5.16	5.15	5.15	5.15	5.15	5.15	5.14	5.14	5.14	5.14	5.14	5.13	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	4.00	4.04	4.08	4.09	4.09	4.26	4.26	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	0.3%
Wood and Other Biomass 3/	2.17	2.18	2.19	2.19	2.24	2.29	2.37	2.45	2.53	2.61	2.70	2.72	2.72	2.72	2.72	2.77	2.79	2.79	2.79	2.79	2.79	2.79	1.3%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.03	0.03	0.03	0.08	0.15	0.22	0.32	0.43	0.55	0.66	0.78	0.82	0.82	0.82	0.88	1.01	1.04	1.04	1.04	1.04	1.04	1.04	19.6%
Total	10.88	10.11	11.21	11.53	11.65	11.84	12.11	12.31	12.51	12.71	12.91	12.97	12.97	12.97	13.03	13.19	13.25	13.24	13.24	13.24	13.24	13.24	1.0%
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.3%
Wood and Other Biomass 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	19.6%
Total	0.13	0.12	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.9%
Cogenerators 5/																							
Generating Capacity (gigawatts)																							
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Wood and Other Biomass 3/	0.68	0.68	0.66	0.69	0.71	0.74	0.77	0.79	0.80	0.81	0.83	0.86	0.88	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.05	2.4%
Total	0.70	0.70	0.70	0.73	0.76	0.79	0.81	0.84	0.84	0.86	0.87	0.91	0.93	0.95	0.97	0.99	1.02	1.04	1.06	1.08	1.09	1.09	2.2%

Table 81. Renewable Energy Generation by Fuel (2 of 2)
Northeast Power Coordinating Council / New England

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	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	0.0%
Wood and Other Biomass ^{3/}	3.46	3.46	3.46	3.63	3.76	3.93	4.09	4.25	4.33	4.43	4.61	4.75	4.88	5.00	5.12	5.25	5.37	5.48	5.59	5.68	5.78	2.5%
Total	3.78	3.78	3.78	3.94	4.07	4.25	4.40	4.56	4.56	4.65	4.74	4.92	5.06	5.19	5.31	5.43	5.56	5.69	5.80	5.90	5.99	2.3%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ^{3/}	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	2.2%
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.9%
Other End-Use Generators^{6/}																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	17.6%
Total	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.9%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	1.31	1.09	1.37	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	1.43	1.43	1.43	1.43	0.4%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	17.6%
Total	1.31	1.10	1.38	1.46	1.46	1.47	1.48	1.49	1.51	1.53	1.53	1.53	1.53	1.53	1.53	1.54	1.54	1.54	1.54	1.54	1.54	0.8%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.4%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.4%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run aeo2002_d102001b.

Table 82. Renewable Energy Generation by Fuel (1 of 2)
Florida Reliability Coordinating Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generators (excluding cogenerators) 1/																						
Generating Capability (gigawatts)																						
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	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
Wood and Other Biomass 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Thermal 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
Solar Photovoltaic 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
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.64	0.4%
Electricity Generation (billion kilowatt-hours)																						
Conventional Hydropower	0.20	0.16	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59
Wood and Other Biomass 3/	0.04	0.07	0.11	0.66	1.11	1.12	1.13	1.14	1.14	1.26	1.87	1.87	1.87	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.60	20.9%
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.69	3.68	3.77	4.33	4.78	4.79	4.80	4.81	4.85	5.07	5.68	5.69	5.69	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.41	1.8%
Energy Consumption (quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Wood and Other Biomass 3/	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Solar Thermal 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
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	1.5%
Cogenerators 5/																						
Generating Capability (gigawatts)																						
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wood and Other Biomass 3/	0.24	0.24	0.24	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.30	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.38	2.5%
Total	0.25	0.25	0.25	0.26	0.27	0.28	0.30	0.31	0.31	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.37	0.38	0.38	0.40	0.40	2.4%

Table 82. Renewable Energy Generation by Fuel (2 of 2)
Florida Reliability Coordinating Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Wood and Other Biomass ²	0.88	0.88	0.88	0.93	0.96	1.01	1.05	1.09	1.09	1.12	1.14	1.19	1.23	1.27	1.30	1.33	1.37	1.40	1.43	1.46	1.49	2.6%
Total	0.95	0.95	0.95	0.99	1.03	1.08	1.12	1.16	1.16	1.18	1.21	1.26	1.30	1.33	1.37	1.40	1.43	1.47	1.50	1.53	1.55	2.9%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ²	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.6%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.1%
Other End-Use Generators^{3/4}																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	17.6%
Total	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	9.1%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	17.6%
Total	0.02	0.02	0.02	0.02	0.02	0.02	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	4.9%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO99. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

Table 83. Renewable Energy Generation by Fuel (1 of 2)
Southeastern Electric Reliability Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generators (excluding cogenerators) 1/																						
Generating Capability (gigawatts)																						
Conventional Hydropower	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	1.0%
Wood and Other Biomass 3/	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.28	0.32	0.32	0.32	0.32	0.32	2.3%
Solar Thermal 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	N/A
Solar Photovoltaic 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	0.0%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.10	0.26	0.30	0.46	0.59	0.59	0.59	0.59	32.9%
Total	11.66	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.67	11.75	11.77	11.78	11.95	12.03	12.24	12.37	12.37	12.37	12.42	0.3%
Electricity Generation (billion kilowatt-hours)																						
Conventional Hydropower	30.17	24.80	31.58	33.26	33.25	33.24	33.22	33.21	33.20	33.18	33.17	33.16	33.14	33.13	33.11	33.10	33.09	33.07	33.06	33.05	33.03	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	1.10	1.17	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.3%
Wood and Other Biomass 3/	1.25	1.48	1.72	1.04	1.15	1.28	1.17	1.18	1.33	1.34	3.45	3.63	3.52	3.78	3.30	3.55	1.59	1.59	1.59	1.59	1.95	2.3%
Solar Thermal 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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.18	0.27	0.34	0.87	1.01	1.56	1.98	1.98	1.98	1.98	36.8%
Total	32.52	27.46	34.50	35.50	35.60	35.72	35.59	35.60	35.73	35.72	37.92	38.98	38.35	38.69	38.71	39.08	37.66	38.06	38.05	38.04	38.38	0.8%
Energy Consumption (quadrillion Btu)																						
Conventional Hydropower	0.31	0.25	0.32	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.5%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.3%
Wood and Other Biomass 3/	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	1.7%
Solar Thermal 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	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	36.8%
Total	0.34	0.29	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.39	0.40	0.40	0.40	0.40	0.41	0.39	0.40	0.40	0.40	0.40	0.8%
Cogenerators 5/																						
Generating Capability (gigawatts)																						
Municipal Solid Waste	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.0%
Wood and Other Biomass 3/	2.84	2.84	2.84	2.84	2.96	3.06	3.30	3.32	3.44	3.45	3.52	3.59	3.73	3.84	3.94	4.03	4.13	4.23	4.32	4.41	4.49	2.4%
Total	3.02	3.02	3.02	3.14	3.24	3.37	3.50	3.62	3.63	3.69	3.77	3.91	4.02	4.12	4.21	4.30	4.41	4.50	4.59	4.67	4.75	2.3%

Table 83. Renewable Energy Generation by Fuel (2 of 2)
Southeastern Electric Reliability Council

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste	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	0.0%
Wood and Other Biomass 3/	15.31	15.31	15.31	16.06	16.66	17.44	18.15	18.86	19.25	19.66	20.48	21.13	21.70	22.25	22.78	23.38	23.94	24.45	24.92	25.35	25.81	2.6%
Total	16.48	16.48	16.48	17.23	17.83	18.61	19.32	20.03	20.03	20.42	20.83	21.65	22.30	22.87	23.42	23.95	24.55	25.10	25.62	26.09	26.52	2.4%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Wood and Other Biomass 3/	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	2.3%
Total	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	2.0%
Other End-Use Generators 6/																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.01	0.02	0.03	0.03	0.05	0.06	0.08	0.10	0.13	0.17	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.25	0.25	17.6%
Total	0.53	0.54	0.55	0.56	0.57	0.58	0.60	0.63	0.66	0.69	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.78	1.9%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	1.77	1.50	1.83	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.02	0.03	0.05	0.07	0.09	0.12	0.16	0.21	0.27	0.34	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.50	0.51	17.6%
Total	1.79	1.53	1.88	1.99	2.01	2.04	2.08	2.12	2.18	2.25	2.34	2.34	2.35	2.38	2.37	2.37	2.38	2.39	2.40	2.40	2.41	1.5%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.08	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	N/A
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.4%

1/ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes projections for energy crops after 2010.
4/ Grid connected generation only.
Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

Table 84. Renewable Energy Generation by Fuel (1 of 2)
Southwest Power Pool

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020		
Electricity Generators (excluding cogenerators) 1/																								
Generating Capability (gigawatts)																								
Conventional Hydropower	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	0.0%	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wood and Other Biomass 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 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	0.00	N/A
Solar Photovoltaic 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	N/A
Wind	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	N/A
Total	2.47	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.60	2.60	2.60	2.60	2.61	2.61	2.61	2.61	2.62	2.62	2.62	2.62	2.62	0.3%	
Electricity Generation (billion kilowatt-hours)																								
Conventional Hydropower	4.66	3.83	4.88	5.14	5.14	5.14	5.13	5.13	5.13	5.13	5.13	5.12	5.12	5.12	5.12	5.11	5.11	5.11	5.11	5.10	5.10	0.5%		
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Municipal Solid Waste	0.00	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Wood and Other Biomass 3/	0.07	0.14	0.21	0.19	0.18	0.19	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100.0%	
Solar Thermal 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	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	N/A	
Wind	0.00	0.19	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	N/A
Total	4.73	4.17	5.39	5.64	5.63	5.64	5.45	5.45	5.45	5.45	5.55	5.46	5.48	5.47	5.47	5.47	5.48	5.48	5.48	5.48	5.48	5.48	0.8%	
Energy Consumption (quadrillion Btu)																								
Conventional Hydropower	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5%	
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wood and Other Biomass 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 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	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.05	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	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.8%	
Cogenerators 5/																								
Generating Capability (gigawatts)																								
Municipal Solid Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%	
Wood and Other Biomass 3/	0.29	0.29	0.29	0.30	0.31	0.33	0.34	0.35	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.47	2.5%	
Total	0.32	0.32	0.32	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.48	0.50	0.51	0.51	2.5%	

Table 84. Renewable Energy Generation by Fuel (2 of 2)
Southwest Power Pool

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatt-hours)																						
Municipal Solid Waste ¹	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Wood and Other Biomass ^{3/}	2.00	2.00	2.00	2.11	2.19	2.30	2.39	2.49	2.49	2.54	2.60	2.71	2.80	2.88	2.95	3.03	3.11	3.19	3.26	3.32	3.38	2.6%
Total	2.16	2.16	2.16	2.26	2.34	2.45	2.55	2.64	2.64	2.70	2.75	2.87	2.96	3.03	3.11	3.18	3.26	3.34	3.41	3.47	3.53	2.5%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ^{3/}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	2.6%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.2%
Other End-Use Generators^{6/}																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	17.6%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	9.1%
Electricity Generation																						
(billion kilowatt-hours)																						
Conventional Hydropower	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	17.6%
Total	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	4.9%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO99. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

Table 85. Renewable Energy Generation by Fuel (1 of 2)
Western Systems Coordinating Council / Northwest Power Pool Area

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generators (excluding cogenerators) 1/																							
Generating Capability (gigawatts)																							
Conventional Hydropower	35.64	35.64	35.64	35.64	35.64	35.64	35.64	35.64	35.64	35.64	35.62	35.62	35.62	35.62	35.62	35.62	35.62	35.62	35.62	35.62	35.62	35.62	0.0%
Geothermal 2/	0.23	0.24	0.24	0.28	0.33	0.37	0.50	0.54	0.61	0.76	0.87	1.01	1.13	1.30	1.43	1.57	1.69	1.82	1.94	2.07	2.19	12.0%	
Municipal Solid Waste	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.5%
Wood and Other Biomass 3/	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	0.1%
Solar Thermal 4/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	N/A
Solar Photovoltaic 4/	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	N/A
Wind	0.03	0.32	0.32	0.43	0.44	0.55	0.56	0.67	0.68	0.80	0.81	0.94	0.96	1.10	1.12	1.14	1.14	1.14	1.14	1.14	1.14	1.14	21.0%
Total	36.10	36.41	36.41	36.58	36.65	36.80	36.94	37.10	37.19	37.47	37.57	37.86	37.99	38.32	38.47	38.63	38.77	38.90	39.03	39.16	39.28	0.4%	
Electricity Generation (billion kilowatt-hours)																							
Conventional Hydropower	139.98	115.09	146.52	154.36	154.31	154.22	154.16	154.11	154.03	153.97	153.79	153.69	153.61	153.55	153.48	153.43	153.39	153.28	153.22	153.17	153.11	0.4%	
Geothermal 2/	1.51	1.57	1.61	1.84	2.22	2.57	3.72	3.96	4.66	5.74	6.75	7.86	8.91	10.20	11.45	12.55	13.61	14.65	15.69	16.72	17.71	13.1%	
Municipal Solid Waste	0.67	0.67	0.67	0.67	0.67	0.72	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.5%
Wood and Other Biomass 3/	0.59	0.65	0.69	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	-0.2%
Solar Thermal 4/	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	N/A	
Solar Photovoltaic	0.00	0.00	0.00	0.01	0.03	0.03	0.04	0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	N/A	
Wind	0.09	0.64	0.91	1.12	1.24	1.45	1.56	1.76	1.91	2.14	2.28	2.53	2.66	2.95	3.12	3.17	3.19	3.19	3.19	3.19	3.19	19.6%	
Total	142.84	116.61	150.41	156.68	159.06	159.58	160.92	161.24	162.00	163.27	164.27	165.55	166.69	168.24	169.57	170.69	171.75	172.70	173.68	174.69	175.63	1.0%	
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	1.44	1.18	1.51	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	0.4%	
Geothermal 2/	0.03	0.03	0.03	0.04	0.05	0.07	0.10	0.11	0.13	0.17	0.20	0.24	0.27	0.31	0.35	0.39	0.42	0.46	0.49	0.52	0.55	15.4%	
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5%
Wood and Other Biomass 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.1%
Solar Thermal 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	N/A	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Wind	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	19.6%	
Total	1.49	1.24	1.57	1.66	1.67	1.68	1.72	1.73	1.76	1.79	1.82	1.86	1.90	1.94	1.96	2.02	2.05	2.08	2.12	2.15	2.18	1.9%	
Cogenerators 5/																							
Generating Capability (gigawatts)																							
Municipal Solid Waste	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%	
Wood and Other Biomass 3/	0.53	0.53	0.53	0.55	0.57	0.59	0.61	0.64	0.64	0.65	0.66	0.69	0.71	0.73	0.74	0.76	0.77	0.79	0.81	0.82	0.83	2.3%	
Total	0.56	0.56	0.56	0.58	0.60	0.62	0.64	0.67	0.67	0.68	0.69	0.72	0.74	0.75	0.77	0.78	0.80	0.82	0.84	0.85	0.86	2.3%	

Table 85. Renewable Energy Generation by Fuel (2 of 2)
Western Systems Coordinating Council / Northwest Power Pool Area

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.02%
Wood and Other Biomass ^{3/}	2.01	2.01	2.01	2.10	2.17	2.26	2.35	2.46	2.46	2.51	2.55	2.65	2.73	2.79	2.86	2.92	2.99	3.06	3.12	3.17	3.22	2.4%
Total	2.14	2.14	2.14	2.23	2.30	2.39	2.48	2.59	2.59	2.64	2.68	2.78	2.86	2.90	2.99	3.05	3.12	3.19	3.25	3.30	3.35	2.3%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ^{3/}	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.5%
Total	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.7%
Other End-Use Generators^{6/}																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	17.6%
Total	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	4.2%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.21	0.18	0.22	0.23	0.23	0.23	0.23	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	0.4%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	17.6%
Total	0.21	0.18	0.22	0.23	0.24	0.24	0.24	0.25	0.26	0.26	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	1.5%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run aeo2002_d102001b.

Table 86. Renewable Energy Generation by Fuel (2 of 2)
Western Systems Coordinating Council / Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02%
Wood and Other Biomass ^{3/}	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	2.6%
Total	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	2.5%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ^{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	2.6%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6%
Other End-Use Generators^{6/}																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.6%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.1%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.6%
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.9%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ^{2/}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO1999. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run aeo2002_d102001b.

Table 87. Renewable Energy Generation by Fuel (1 of 2)
Western Systems Coordinating Council / California

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generators (excluding cogenerators) 1/																						
Generating Capacity (gigawatts)																						
Conventional Hydropower	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	0.0%
Geothermal 2/	2.29	2.29	2.33	2.38	2.31	2.35	2.35	2.35	2.37	2.37	2.37	2.37	2.47	2.55	2.60	2.62	2.65	2.67	2.70	2.75	2.80	1.0%
Municipal Solid Waste	0.32	0.38	0.40	0.42	0.43	0.45	0.45	0.45	0.45	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	2.7%
Wood and Other Biomass 3/	0.36	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.3%
Solar Thermal 4/	0.23	0.23	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.3%
Solar Photovoltaic 4/	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	16.2%
Wind	1.44	1.44	2.18	2.46	2.74	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.6%
Total	15.84	15.91	16.72	17.07	17.30	17.64	17.64	17.65	17.68	17.78	17.78	17.79	17.90	17.98	18.03	18.07	18.10	18.13	18.16	18.22	18.28	0.7%
Electricity Generation (billion kilowatt-hours)																						
Conventional Hydropower	30.37	32.38	41.22	43.43	43.41	43.40	43.38	43.36	43.34	43.32	43.31	43.29	43.27	43.25	43.24	43.22	43.20	43.18	43.16	43.15	43.13	0.5%
Geothermal 2/	8.63	8.98	9.20	9.54	9.55	9.89	10.00	10.00	10.21	10.21	10.21	10.21	11.00	11.62	12.04	12.25	12.46	12.66	12.87	13.29	13.70	2.2%
Municipal Solid Waste	2.29	2.67	2.81	2.95	3.06	3.17	3.20	3.20	3.20	3.98	3.99	3.99	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	2.6%
Wood and Other Biomass 3/	2.08	2.15	2.23	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	2.19	2.19	2.19	0.2%
Solar Thermal 4/	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.89	0.89	0.90	0.90	0.91	0.91	0.91	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.4%
Solar Photovoltaic	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.16	0.17	0.19	0.20	0.22	20.9%
Wind	3.28	3.26	4.64	5.65	6.63	7.41	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	4.4%
Total	66.71	69.21	69.99	64.84	65.75	66.97	67.37	67.37	67.56	68.33	68.34	68.34	69.13	69.79	70.18	70.38	70.60	70.81	71.01	71.44	71.86	1.2%
Energy Consumption (quadrillion Btu)																						
Conventional Hydropower	0.40	0.33	0.42	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.5%
Geothermal 2/	0.19	0.20	0.26	0.24	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.26	0.28	0.30	0.30	0.31	0.31	0.32	0.33	0.34	3.0%
Municipal Solid Waste	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	2.9%
Wood and Other Biomass 3/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.2%
Solar Thermal 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.4%
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.9%
Wind	0.03	0.03	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	4.4%
Total	0.70	0.64	0.75	0.80	0.81	0.84	0.84	0.84	0.85	0.86	0.86	0.86	0.88	0.90	0.92	0.92	0.93	0.93	0.94	0.95	0.96	1.6%
Cogenerators 5/																						
Generating Capacity (gigawatts)																						
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Wood and Other Biomass 3/	0.16	0.16	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.25	2.1%
Total	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.26	2.0%

Table 87. Renewable Energy Generation by Fuel (2 of 2)
Western Systems Coordinating Council / California

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste ¹	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Wood and Other Biomass ²	1.03	1.03	1.03	1.07	1.11	1.15	1.19	1.23	1.25	1.28	1.32	1.36	1.39	1.42	1.45	1.49	1.52	1.55	1.57	1.60	1.64	2.2%
Total	1.09	1.09	1.09	1.13	1.17	1.21	1.25	1.29	1.29	1.31	1.34	1.39	1.42	1.46	1.49	1.52	1.55	1.59	1.61	1.64	1.66	2.1%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Wood and Other Biomass ³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.5%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.4%
Other End-Use Generators⁴																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Geothermal ²	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.6%
Total	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.4%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.3%
Geothermal ²	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	17.6%
Total	0.05	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	2.4%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Geothermal ²	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%

¹ Includes grid-connected utilities and nonutilities other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
² Includes hydrothermal resources only (hot water and steam).
³ Includes projections for energy crops after 2010.
⁴ Grid connected generation only.
 Note: Totals may not equal sum of components due to independent rounding. Net summer capability has been estimated for nonutility generators for AEO99. Net summer capability is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
 Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEC2001 National Energy Modeling System run aec2002_d102001b.

**Table 88. Renewable Energy Capacity, Generation, and Consumption (1 of 2)
United States**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020	
Electricity Generators (excluding cogenerators) 1/																							
Generating Capacity (gigawatts)																							
Conventional Hydropower	79.29	79.36	79.51	79.63	79.71	79.78	79.92	79.92	79.92	79.92	79.90	79.90	79.90	79.90	79.90	79.90	79.90	79.90	79.90	79.90	79.90	79.90	0.0%
Geothermal 2/	2.85	2.86	2.91	2.99	2.97	3.05	3.18	3.22	3.32	3.46	3.57	3.72	3.93	4.18	4.37	4.52	4.67	4.82	4.97	5.15	5.33	3.2%	
Municipal Solid Waste	2.84	3.15	3.24	3.35	3.41	3.50	3.55	3.59	3.65	3.79	3.88	3.95	3.99	4.04	4.08	4.18	4.23	4.25	4.26	4.28	4.30	2.1%	
Wood and Other Biomass 3/	1.39	1.41	1.51	1.54	1.59	1.61	1.64	1.66	1.68	1.71	1.73	1.74	1.75	1.76	1.76	1.82	1.88	1.88	1.88	1.88	1.88	1.88	1.8%
Solar Thermal 4/	0.23	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.41	1.0%	
Solar Photovoltaic 4/	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.09	0.11	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.24	0.26	0.27	19.8%	
Wind	2.42	4.29	5.26	5.82	6.27	6.82	6.96	7.20	7.33	7.57	7.65	7.85	7.91	8.09	8.31	8.46	8.67	8.83	8.87	8.98	9.06	6.6%	
Total	89.13	91.43	92.78	93.70	94.33	95.16	95.65	96.01	96.34	96.90	97.19	97.64	97.99	98.48	98.97	99.46	99.94	100.29	100.52	100.84	101.22	0.6%	
Electricity Generation (billion kilowatt-hours)																							
Conventional Hydropower	272.33	273.99	285.38	301.03	301.17	301.26	301.68	301.60	301.48	301.35	301.14	300.98	300.86	300.76	300.64	300.54	300.47	300.31	300.19	300.11	300.00	0.5%	
Geothermal 2/	13.52	13.73	14.00	14.58	14.59	15.67	16.95	17.18	18.09	19.18	20.20	21.32	23.16	25.11	26.75	28.06	29.34	30.59	31.84	33.30	34.71	4.8%	
Municipal Solid Waste	20.15	21.81	22.96	23.72	24.26	24.90	25.27	25.58	26.03	27.11	27.78	28.32	28.63	28.94	29.27	30.05	30.35	30.55	30.69	30.83	30.98	2.2%	
Wood and Other Biomass 3/	8.37	9.61	11.08	12.31	14.34	14.96	14.00	14.35	15.20	15.99	20.86	20.30	20.16	19.18	17.46	18.84	14.77	14.79	14.76	14.74	15.32	3.1%	
Solar Thermal 4/	0.87	0.87	0.87	0.88	0.89	0.90	0.91	0.92	0.94	0.95	0.96	0.98	1.00	1.02	1.04	1.05	1.06	1.08	1.09	1.10	1.12	1.3%	
Solar Photovoltaic	0.01	0.03	0.04	0.07	0.09	0.11	0.14	0.16	0.19	0.22	0.26	0.29	0.33	0.37	0.41	0.46	0.50	0.55	0.59	0.63	0.68	22.8%	
Wind	5.30	8.64	12.05	13.96	15.30	16.74	17.49	18.05	18.52	19.09	19.45	19.98	20.28	20.68	21.50	21.95	22.71	23.28	23.40	23.79	24.07	7.9%	
Total	320.54	278.67	348.36	366.54	371.04	374.55	376.41	377.65	380.44	383.89	390.65	392.17	394.42	398.07	397.08	400.95	399.20	401.12	402.56	404.52	406.87	1.2%	
Energy Consumption (quadrillion Btu)																							
Conventional Hydropower	2.80	2.30	2.93	3.09	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.08	0.5%
Geothermal 2/	0.28	0.29	0.30	0.32	0.33	0.36	0.40	0.41	0.44	0.47	0.50	0.54	0.60	0.66	0.71	0.75	0.78	0.83	0.87	0.92	0.96	6.3%	
Municipal Solid Waste	0.28	0.30	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	2.3%	
Wood and Other Biomass 3/	0.11	0.12	0.14	0.16	0.18	0.18	0.18	0.18	0.19	0.20	0.25	0.24	0.24	0.23	0.21	0.23	0.19	0.19	0.19	0.19	0.19	2.7%	
Solar Thermal 4/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.3%	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	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	22.8%	
Wind	0.05	0.09	0.12	0.14	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.25	7.9%	
Total	3.53	3.11	3.82	4.05	4.11	4.16	4.21	4.23	4.28	4.34	4.44	4.48	4.54	4.60	4.65	4.72	4.73	4.78	4.82	4.87	4.92	1.7%	
Cogenerators 5/																							
Generating Capacity (gigawatts)																							
Municipal Solid Waste	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.0%	
Wood and Other Biomass 3/	5.26	5.26	5.26	5.49	5.89	5.92	6.15	6.37	6.38	6.51	6.64	6.90	7.10	7.28	7.45	7.62	7.81	7.98	8.15	8.29	8.43	2.4%	
Total	5.77	5.77	5.77	6.00	6.19	6.43	6.66	6.88	6.89	7.01	7.15	7.41	7.61	7.79	7.96	8.13	8.32	8.49	8.66	8.80	8.94	2.2%	

Table 88. Renewable Energy Capacity, Generation, and Consumption (2 of 2)
United States

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2000-2020
Electricity Generation																						
(billion kilowatthours)																						
Municipal Solid Waste	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	0.0%
Wood and Other Biomass 3/	29.63	29.63	29.63	31.06	32.23	33.72	35.10	36.50	37.24	38.04	39.62	40.87	41.97	43.02	44.04	45.19	46.26	47.26	48.15	48.99	52.28	2.5%
Total	32.93	32.93	32.93	34.36	35.53	37.02	38.40	39.79	39.79	40.54	41.34	42.91	44.16	45.26	46.31	47.33	48.48	49.56	50.55	51.44	52.28	2.3%
Energy Consumption																						
(quadrillion Btu)																						
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Wood and Other Biomass 3/	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	2.4%
Total	0.20	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29	1.9%
Other End-Use Generators 6/																						
Generating Capability																						
(gigawatts)																						
Conventional Hydropower	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.0%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.02	0.03	0.05	0.06	0.08	0.11	0.15	0.19	0.24	0.31	0.39	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.44	0.45	0.46	17.6%
Total	0.99	1.01	1.02	1.04	1.06	1.09	1.13	1.17	1.22	1.29	1.36	1.37	1.38	1.38	1.39	1.40	1.41	1.41	1.42	1.43	1.44	1.9%
Electricity Generation																						
(billion kilowatthours)																						
Conventional Hydropower	3.98	3.97	4.14	4.33	4.33	4.33	4.33	4.33	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.31	4.31	4.31	4.31	4.31	4.31	0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.04	0.06	0.10	0.13	0.18	0.23	0.32	0.40	0.51	0.65	0.81	0.83	0.85	0.86	0.88	0.89	0.91	0.93	0.94	0.96	0.98	17.6%
Total	4.02	3.43	4.24	4.47	4.51	4.56	4.64	4.73	4.84	4.98	5.14	5.16	5.16	5.18	5.19	5.21	5.22	5.24	5.25	5.27	5.29	1.4%
Energy Consumption																						
(quadrillion Btu)																						
Conventional Hydropower	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4%
Geothermal 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4%

1/ Includes grid-connected utilities and nonutilites other than cogenerators. These nonutility facilities include small power producers, exempt wholesale generators and generators at industrial and commercial facilities which do not produce steam for other uses.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes projections for energy crops after 2010.
4/ Grid connected generation only.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO1999. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 1998 and 1999 generation: EIA, Annual Energy Review 1999, DOE/EIA-0349(98) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run aeo2002_d102001b.