

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

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

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Western Systems Coordinating Council/ N.W. Power Pool Area																								
Coal	84.31	80.55	82.37	84.17	86.10	88.14	88.26	88.43	88.71	88.71	88.83	89.08	89.50	89.62	89.89	90.10	90.48	90.91	91.46	91.99	92.80	93.60	0.5%	
Petroleum	0.17	0.25	0.25	0.19	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	-3.1%
Natural Gas	11.22	20.26	25.83	33.72	44.04	56.63	67.72	73.72	75.29	74.81	76.25	78.56	79.28	81.10	82.04	84.25	84.68	85.64	85.94	87.68	90.57	91.16	10.0%	
Nuclear	6.92	6.75	6.81	6.89	6.96	7.03	7.10	7.18	7.25	7.32	7.39	7.46	7.53	7.61	7.68	7.76	7.76	7.75	7.75	7.75	7.75	7.75	7.75	0.5%
Pumped Storage/ Other 1/	0.00	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	N/A
Renewables 2/	144.10	155.09	155.95	156.34	156.49	156.54	156.53	156.54	156.60	157.40	157.69	157.75	157.91	158.16	158.56	159.67	159.82	160.08	160.93	161.49	161.62	163.09	0.6%	
Total	246.71	262.68	270.99	281.09	293.46	308.21	319.48	325.74	327.72	328.11	330.02	332.72	334.08	336.36	338.03	341.65	342.61	344.25	345.94	348.79	352.61	355.47	1.7%	
West. Sys. Coordinating Council/ Rocky Mountain Power Area & Arizona																								
Coal	93.31	91.31	92.93	94.63	96.25	97.92	98.49	99.22	99.52	101.14	102.16	102.60	102.96	102.96	102.96	102.96	103.32	103.37	104.67	105.84	107.10	109.20	0.7%	
Petroleum	0.13	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-5.5%
Natural Gas	8.35	20.46	21.83	23.74	25.50	27.74	31.48	31.90	33.75	33.00	31.84	30.73	30.95	31.33	31.63	31.02	30.47	30.33	29.66	29.36	28.80	29.11	5.8%	
Nuclear	23.79	21.11	21.29	21.42	21.48	21.54	21.60	21.67	21.73	21.79	21.85	21.91	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	21.92	-0.4%
Pumped Storage/ Other 1/	0.41	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A
Renewables 2/	18.65	15.46	15.79	15.79	15.79	15.88	15.92	15.95	15.99	16.03	16.07	16.17	16.21	16.24	16.28	16.31	16.34	16.56	16.58	16.60	16.63	16.65	16.65	-0.5%
Total	144.63	148.35	151.86	155.59	159.03	163.08	167.49	168.74	170.98	171.96	171.92	171.40	172.04	172.44	172.78	172.20	172.05	172.18	172.83	173.72	174.45	176.87	0.9%	
Western System Coordinating Council/ California-Southern Nevada Power																								
Coal	37.06	38.36	38.88	39.52	40.15	41.44	44.46	46.30	49.33	51.59	52.74	54.54	56.77	59.30	62.85	67.14	72.24	75.82	79.10	84.90	89.69	94.43	4.3%	
Petroleum	0.90	1.08	1.09	1.08	1.04	0.97	0.92	0.75	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	-5.8%
Natural Gas	29.40	69.36	64.19	60.01	57.86	50.36	44.22	46.85	50.96	57.35	62.51	68.40	72.20	75.87	79.65	82.45	85.51	86.83	89.67	88.52	87.39	88.60	5.1%	
Nuclear	41.11	38.37	38.42	38.45	38.47	38.48	38.50	38.52	38.53	38.55	38.57	38.59	38.59	38.59	38.59	38.52	38.45	38.38	38.59	38.59	38.59	38.59	38.59	-0.3%
Pumped Storage/ Other 1/	3.07	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A
Renewables 2/	68.61	60.50	61.25	61.03	60.71	60.48	60.56	60.26	60.27	60.36	61.30	61.06	60.87	60.87	60.68	60.39	61.27	61.38	61.52	62.14	62.76	62.89	62.89	-0.4%
Total	180.15	207.23	203.37	199.65	197.79	191.29	188.21	192.23	198.89	207.64	214.91	222.36	228.21	234.42	241.55	248.29	257.26	262.19	268.66	273.93	278.21	284.31	2.1%	

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

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

N/A = Not applicable.

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

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

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

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

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Northeast Power Coordinating Council/ New York																								
Coal Steam	4.82	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	-0.2%
Other Fossil Steam 1/	12.33	12.33	12.33	12.33	10.74	9.67	9.20	8.45	8.45	8.45	8.45	8.45	8.45	8.34	8.34	7.18	7.18	7.18	7.18	7.08	7.08	7.08	6.70	-2.7%
Combined Cycle	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.62	1.62	2.42	2.42	3.13	3.81	4.12	5.04	5.55	6.45	6.58	6.58	6.58	6.62	6.62	9.0%
Combustion Turbine/ Diesel	3.71	3.71	3.71	3.71	3.71	3.70	4.46	4.46	4.85	5.11	5.35	6.18	6.47	6.51	6.60	6.66	6.67	6.70	6.70	6.70	6.70	6.70	6.70	2.7%
Nuclear Power	4.96	4.96	4.96	4.96	4.03	4.03	4.03	4.03	4.03	4.03	2.93	2.93	2.93	2.93	2.93	2.11	1.14	1.14	1.14	1.14	1.14	1.14	1.14	-6.5%
Pumped Storage/ Other 2/	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	4.60	4.59	4.67	4.81	4.88	4.95	5.02	5.17	5.17	5.17	5.17	5.18	5.18	5.18	5.19	5.19	5.20	5.20	5.20	5.20	5.20	5.21	5.21	0.6%
Total	32.69	32.52	32.59	32.73	30.28	29.29	29.63	29.03	30.06	30.32	30.26	31.09	32.09	32.71	33.10	32.13	31.67	32.60	32.73	32.64	32.64	32.30	32.30	-0.1%
Northeast Power Coordinating Council/ New England																								
Coal Steam	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.77	2.78	2.80	2.81	2.81	2.82	2.82	2.82	2.82	2.83	2.83	2.83	0.1%
Other Fossil Steam 1/	8.13	8.03	8.03	8.03	7.12	7.12	7.12	6.92	6.63	6.63	6.63	5.83	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	-1.7%
Combined Cycle	1.31	1.57	1.57	2.10	2.64	3.22	3.50	3.50	3.50	3.50	3.97	3.97	4.74	5.55	5.79	6.10	6.43	6.43	6.43	6.45	6.51	6.51	6.51	7.6%
Combustion Turbine/ Diesel	1.98	2.18	2.16	2.17	2.21	2.21	2.66	3.47	4.30	4.95	5.24	6.06	6.19	6.20	6.45	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	5.6%
Nuclear Power	4.32	4.32	4.32	4.32	4.32	4.32	4.32	3.45	3.45	3.45	3.45	3.45	3.45	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	-2.9%
Pumped Storage/ Other 2/	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	2.98	3.01	3.13	3.20	3.25	3.30	3.36	3.43	3.51	3.59	3.66	3.72	3.73	3.74	3.74	3.77	3.82	3.83	3.83	3.84	3.84	3.85	3.85	1.2%
Total	23.13	23.52	23.62	24.23	23.96	24.59	25.37	25.19	25.81	26.54	27.38	27.45	28.13	27.81	28.31	28.79	29.17	29.19	29.19	29.22	29.29	29.29	29.29	1.1%
Southeastern Electric Reliability Council/ Florida																								
Coal Steam	9.46	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.75	9.76	9.78	9.82	9.90	9.97	10.07	10.07	0.3%
Other Fossil Steam 1/	14.27	13.79	13.79	13.79	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	12.02	-0.8%
Combined Cycle	4.42	4.47	4.47	5.03	5.48	6.47	7.99	9.27	10.01	10.88	11.44	12.13	12.83	14.02	15.26	16.47	17.07	17.91	18.88	19.44	19.85	20.24	20.24	7.2%
Combustion Turbine/ Diesel	5.52	5.70	5.71	5.71	6.30	6.18	6.11	6.14	6.46	6.55	6.69	6.57	6.92	7.13	7.32	7.78	7.88	7.95	8.17	8.21	8.38	8.51	8.51	2.0%
Nuclear Power	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.06	3.06	3.06	3.06	3.06	3.06	2.37	1.68	1.68	1.68	0.84	0.84	0.84	0.84	0.84	0.84	-6.7%
Pumped Storage/ Other 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	0.54	0.54	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.74	1.4%
Total	38.10	38.14	38.20	38.77	38.04	38.92	40.38	40.87	41.95	42.91	43.63	44.19	45.25	45.96	46.70	48.40	49.12	49.21	50.45	51.13	51.78	52.43	52.43	1.5%
Southeastern Electric Reliability Council/ excluding Florida																								
Coal Steam	64.52	65.24	65.44	65.44	65.44	64.77	64.86	64.88	64.60	64.64	64.68	64.77	64.88	64.97	65.09	64.74	65.15	65.48	66.38	66.82	67.46	68.84	68.84	0.3%
Other Fossil Steam 1/	3.11	3.11	3.11	3.09	3.09	3.06	3.06	3.04	3.04	2.99	2.99	2.94	2.94	2.94	2.94	2.86	2.86	2.86	2.78	2.78	2.66	2.66	2.66	-0.7%
Combined Cycle	1.82	2.17	2.17	2.32	2.32	4.59	5.96	7.87	9.74	11.99	14.06	15.57	16.62	17.61	18.49	19.63	20.35	21.57	22.56	23.47	23.86	24.20	24.20	12.5%
Combustion Turbine/ Diesel	12.41	12.86	14.03	14.42	16.08	16.34	17.67	19.01	20.39	21.98	22.82	23.13	24.72	26.23	27.88	28.73	30.88	31.96	33.21	34.21	35.54	35.77	35.77	4.9%
Nuclear Power	26.92	26.97	26.97	26.97	25.91	25.10	25.10	24.28	24.28	24.28	24.28	23.59	23.59	23.59	23.59	21.67	21.67	20.56	19.73	18.91	18.91	17.79	17.79	-1.9%
Pumped Storage/ Other 2/	6.68	6.68	6.72	6.76	6.80	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	0.1%
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	11.57	11.58	11.69	11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.79	11.80	11.81	11.81	11.82	11.84	11.87	11.90	11.92	11.92	0.1%
Total	127.02	128.61	130.14	130.70	131.34	132.42	135.22	137.66	140.64	144.48	147.44	148.62	151.38	153.98	156.64	156.28	159.57	161.08	163.34	164.89	167.17	168.02	168.02	1.3%

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

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Southwest Power Pool																							
Coal Steam	27.53	27.53	27.53	27.53	27.53	27.04	27.04	27.04	26.51	26.03	26.03	26.03	26.00	26.00	25.98	25.99	26.00	26.03	26.06	26.04	26.11	26.19	-0.2%
Other Fossil Steam 1/	30.58	30.58	30.50	30.42	29.36	28.49	27.53	26.92	26.61	26.58	26.58	26.58	26.58	26.58	26.58	26.34	26.34	26.34	26.34	26.34	26.34	26.34	-0.7%
Combined Cycle	1.30	1.74	2.16	3.50	3.50	4.58	5.48	6.29	7.26	8.19	9.20	9.68	10.09	10.40	11.20	12.08	13.10	14.19	14.91	15.50	16.35	16.72	12.3%
Combustion Turbine/ Diesel	5.19	5.40	6.07	6.07	7.39	7.87	9.01	9.19	10.16	11.25	11.67	12.21	12.99	13.90	14.58	15.22	16.28	16.80	17.63	18.05	18.63	18.86	6.0%
Nuclear Power	5.95	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	5.20	4.26	4.26	4.26	3.40	3.40	3.40	-2.5%
Pumped Storage/ Other 2/	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	2.84	2.84	2.92	2.92	2.93	2.93	2.95	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07	0.3%
Total	73.90	74.63	75.72	76.98	77.24	77.46	78.54	78.94	80.04	81.58	83.02	84.04	85.19	86.44	87.90	88.36	89.52	91.17	92.76	92.90	94.40	95.09	1.2%
Western Systems Coordinating Council/ N.W. Power Pool Area																							
Coal Steam	11.61	11.61	11.61	11.61	11.61	11.61	11.62	11.65	11.68	11.68	11.70	11.73	11.79	11.80	11.84	11.88	11.94	12.01	12.09	12.16	12.27	12.37	0.3%
Other Fossil Steam 1/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	N/A
Combined Cycle	1.78	2.13	2.48	3.68	4.80	6.71	8.34	9.63	9.63	9.68	9.81	10.02	10.05	10.13	10.23	10.60	10.78	11.15	11.32	11.95	12.60	12.95	9.4%
Combustion Turbine/ Diesel	1.53	1.88	2.40	2.47	2.95	3.29	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.73	3.74	3.74	3.74	4.2%
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	N/A
Pumped Storage/ Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	35.51	35.50	35.63	35.69	35.72	35.74	35.76	35.78	35.80	35.92	35.98	36.00	36.04	36.08	36.15	36.31	36.35	36.40	36.52	36.61	36.64	36.85	0.2%
Total	52.63	53.34	54.32	55.66	57.29	59.56	61.53	62.86	62.92	63.08	63.29	63.56	63.68	63.82	64.03	64.60	64.88	65.36	65.87	66.67	67.46	68.11	1.2%
Western Systems Coordinating Council/ Rocky Mountain Power Area & Arizona																							
Coal Steam	13.26	13.26	13.27	13.28	13.28	13.30	13.38	13.48	13.51	13.73	13.87	13.93	13.98	13.98	13.98	13.98	14.03	14.03	14.21	14.37	14.54	14.82	0.5%
Other Fossil Steam 1/	2.60	2.60	2.60	2.60	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	-0.4%
Combined Cycle	0.99	1.19	1.70	2.23	2.73	3.65	4.59	4.59	4.59	4.94	5.02	5.08	5.08	5.08	5.08	5.08	5.08	5.12	5.13	5.18	5.21	5.26	7.9%
Combustion Turbine/ Diesel	3.44	3.54	3.55	3.55	3.77	3.75	3.75	4.40	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.04	5.04	5.15	5.17	5.35	5.36	2.0%
Nuclear Power	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	N/A
Pumped Storage/ Other 2/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	4.36	4.45	4.50	4.50	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.58	4.59	4.60	4.61	4.62	4.63	4.66	4.67	4.68	4.68	4.69	0.3%
Total	28.34	28.72	29.29	29.83	30.33	31.26	32.28	33.04	33.72	34.30	34.53	34.66	34.72	34.73	34.74	34.75	34.81	34.90	35.21	35.44	35.84	36.18	1.1%
Western Systems Coordinating Council/ California-Southern Nevada Power																							
Coal Steam	5.43	5.43	5.43	5.43	5.43	5.52	5.93	6.18	6.59	6.89	7.04	7.29	7.59	7.93	8.40	8.98	9.67	10.15	10.59	11.37	12.01	12.65	3.9%
Other Fossil Steam 1/	20.40	20.32	20.32	20.32	20.24	20.24	20.24	20.22	20.14	20.14	19.98	19.92	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	-0.1%
Combined Cycle	2.29	2.29	2.29	2.29	2.60	4.34	5.44	6.49	6.82	7.65	8.28	8.95	8.98	9.03	9.17	9.32	9.64	9.83	10.08	10.32	10.45	10.55	7.2%
Combustion Turbine/ Diesel	3.01	3.01	3.00	3.00	3.85	3.86	4.11	4.13	4.24	4.42	4.63	4.96	5.43	6.04	6.43	7.00	7.19	7.66	8.23	8.54	8.80	8.96	5.1%
Nuclear Power	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	N/A
Pumped Storage/ Other 2/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	16.34	16.52	16.62	16.54	16.44	16.35	16.36	16.27	16.27	16.29	16.42	16.33	16.25	16.26	16.17	16.12	16.25	16.27	16.30	16.39	16.48	16.51	0.0%
Total	56.33	56.42	56.52	56.43	57.42	59.16	60.93	62.14	62.91	64.24	65.20	66.31	66.99	68.00	68.92	70.17	71.50	72.66	73.95	75.37	76.50	77.42	1.5%

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

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

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

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding cogenerators). Net summer capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load. The historical data used for the projections were the most available as of July 31, 1999. At that time, most regional data for 1998 were not available.

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

Sources: 1998 utility: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report, 1997." Other 1998 and Projections: EIA, AEO2000 National Energy Modeling System run AEO2K.D100199A.

**Table 76. Renewable Resources Consumption/Displacement by Region and Source for Electricity (3 of 3)
(Trillion Btu)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998- 2020
WSSCC/ CNV																							
Conventional Hydropower	515.19	432.82	432.68	432.49	432.25	432.12	431.91	431.73	431.59	431.40	431.18	431.05	430.86	430.64	430.52	430.30	430.12	429.97	429.75	429.59	429.46	429.23	-0.8%
Geothermal 1/	269.34	275.29	297.27	290.16	283.51	279.06	282.06	274.28	274.96	279.39	307.79	301.46	297.09	311.32	292.24	284.08	310.11	313.12	317.29	335.36	352.96	356.69	1.3%
MSW	34.75	39.74	39.95	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	40.73	0.7%
Biomass 2/	21.66	13.50	13.50	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	-2.0%
Solar Thermal 3/	9.18	9.16	9.16	9.20	9.24	9.28	9.32	9.47	9.58	9.69	9.77	9.84	9.92	9.99	10.11	10.22	10.33	10.41	10.52	10.64	10.75	10.86	0.8%
Solar Photovoltaic 3/	0.02	0.28	0.40	0.53	0.66	0.76	0.86	1.02	1.17	1.33	1.49	1.65	1.87	2.09	2.30	2.63	2.95	3.27	3.60	3.92	4.24	4.57	27.8%
Wind	33.41	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	37.21	0.5%
United States																							
Conventional Hydropower	3256.6	3081.3	3081.8	3084.4	3087.7	3089.0	3090.3	3094.3	3093.9	3092.6	3091.4	3089.1	3087.4	3086.3	3085.3	3084.1	3083.0	3082.3	3080.6	3079.4	3078.6	3077.3	-0.3%
Geothermal 1/	394.81	404.88	439.20	444.67	443.78	442.88	446.43	440.04	441.22	470.76	507.28	508.83	511.73	543.94	527.53	553.10	584.46	601.69	633.46	669.64	691.18	740.15	2.9%
MSW	284.45	283.73	360.08	373.87	382.94	395.29	407.64	424.37	438.70	459.84	474.45	490.13	508.85	528.68	538.47	548.59	552.74	560.16	564.66	567.19	569.41	571.41	3.2%
Biomass 2/	61.10	86.59	106.20	108.20	108.36	124.08	135.24	147.68	159.11	153.29	165.23	181.31	178.15	184.08	175.64	170.06	162.48	169.07	173.06	164.16	169.18	167.54	4.7%
Solar Thermal 3/	9.18	9.16	9.19	9.26	9.33	9.74	9.81	9.99	10.46	10.66	11.07	11.25	11.45	11.65	11.92	12.31	12.58	12.81	13.08	13.34	13.61	13.91	1.9%
Solar Photovoltaic 3/	0.03	0.34	0.47	0.59	0.96	1.33	1.81	2.31	2.81	3.31	4.06	4.70	5.48	6.25	7.03	7.96	8.87	9.77	10.70	11.60	12.50	13.41	31.8%
Wind	34.84	57.78	61.41	70.16	73.67	79.88	84.10	92.13	97.52	106.80	109.55	112.57	116.05	118.54	119.41	119.61	122.06	122.64	122.92	122.92	124.30	124.30	6.0%

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

2/ Include projections for energy crops beginning in 2010.

3/ Grid connected generation only.

Btu = British Thermal Unit.

MSW = Municipal solid waste.

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

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

**Table 77. Renewable Resources, Generating Capacity by EMM Region and Source (1 of 3)
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
ECAR																								
Conventional Hydropower	1.32	1.33	1.33	1.33	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	0.2%	
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
MSW	0.07	0.07	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	3.7%
Biomass 2/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	1.56	1.57	1.60	1.60	1.65	1.65	1.66	1.66	1.67	1.67	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.70	0.4%
ERCOT																								
Conventional Hydropower	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	N/A
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.00	0.00	0.09	0.14	0.17	0.22	0.26	0.33	0.37	0.44	0.44	0.44	0.44	0.44	0.44	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	24.1%
Biomass 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	17.8%
Wind	0.12	0.30	0.40	0.62	0.73	0.98	1.12	1.42	1.57	1.90	1.90	1.90	1.96	1.96	1.96	1.96	2.02	2.02	2.02	2.02	2.09	2.09	2.09	14.0%
Total	0.64	0.82	1.01	1.27	1.42	1.72	1.90	2.27	2.46	2.86	2.86	2.86	2.93	2.93	2.94	2.99	3.05	3.06	3.06	3.07	3.13	3.14	3.14	7.5%
MAAC																								
Conventional Hydropower	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	N/A
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.47	0.47	0.53	0.53	0.55	0.56	0.57	0.59	0.63	0.69	0.77	0.87	0.99	1.14	1.14	1.14	1.14	1.19	1.19	1.19	1.19	1.19	1.19	4.3%
Biomass 2/	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.12	0.18	0.26	0.36	0.48	0.63	0.63	0.63	0.63	0.68	0.68	0.68	0.68	0.68	0.68	15.2%
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.06	0.10	0.14	0.20	0.28	0.36	0.36	0.36	0.36	0.39	0.39	0.39	0.39	0.39	0.39	N/A
Total	1.70	1.71	1.77	1.77	1.80	1.83	1.86	1.91	2.01	2.16	2.37	2.64	2.96	3.34	3.34	3.34	3.34	3.46	3.46	3.46	3.46	3.46	3.46	3.3%
MAIN																								
Conventional Hydropower	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.1%
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Biomass 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.08	0.08	0.08	20.0%
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.6%
Total	0.82	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.86	0.87	0.88	0.88	0.92	0.93	0.93	0.6%
MAPP																								
Conventional Hydropower	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	3.38	0.0%
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.10	0.10	0.20	0.21	0.22	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	5.2%
Biomass 2/	0.12	0.12	0.19	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	3.2%
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.15	0.55	0.55	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	7.3%
Total	3.74	4.15	4.32	4.51	4.52	4.52	4.53	4.54	4.55	4.56	4.56	4.57	4.58	4.58	4.58	4.59	4.59	4.60	4.60	4.60	4.60	4.61	4.61	0.9%

**Table 77. Renewable Resources, Generating Capacity by EMM Region and Source (2 of 3)
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
NPCC/ NY																								
Conventional Hydropower	4.32	4.32	4.39	4.53	4.60	4.67	4.75	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	0.6%
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.6%
Biomass 2/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	4.60	4.59	4.67	4.81	4.88	4.95	5.02	5.17	5.17	5.17	5.17	5.18	5.18	5.18	5.19	5.19	5.20	5.20	5.20	5.20	5.20	5.21	5.21	0.6%
NPCC/ NE																								
Conventional Hydropower	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	N/A
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.48	0.49	0.55	0.57	0.58	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.64	0.65	0.66	0.67	0.67	0.68	0.69	0.69	0.70	0.70	0.70	1.7%
Biomass 2/	0.72	0.73	0.75	0.76	0.78	0.79	0.81	0.83	0.85	0.87	0.89	0.90	0.90	0.90	0.90	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	1.1%
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.02	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.34	0.38	0.42	0.42	0.42	0.42	0.43	0.46	0.46	0.46	0.46	0.46	0.46	0.46	17.7%
Total	2.98	3.01	3.13	3.20	3.25	3.30	3.36	3.43	3.51	3.59	3.66	3.72	3.73	3.74	3.74	3.77	3.82	3.83	3.83	3.84	3.84	3.84	3.85	1.2%
SERC/ STV/ Florida																								
Conventional Hydropower	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.3%
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.47	0.47	0.53	0.54	0.54	0.55	0.56	0.57	0.58	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.65	1.5%
Biomass 2/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	1.8%
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.54	0.54	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.74	1.4%
SERC/ STV/ excluding Florida																								
Conventional Hydropower	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	11.23	0.0%
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.19	0.19	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	4.0%
Biomass 2/	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.18	0.20	0.23	0.25	0.25	2.3%
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	11.57	11.58	11.69	11.70	11.71	11.72	11.73	11.74	11.75	11.76	11.77	11.78	11.79	11.79	11.80	11.81	11.81	11.82	11.84	11.87	11.90	11.92	11.92	0.1%
SPP																								
Conventional Hydropower	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	N/A
Geothermal 1/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MSW	0.00	0.00	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	N/A
Biomass 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	N/A
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	2.84	2.84	2.92	2.92	2.93	2.93	2.95	2.95	2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07	3.07	0.3%

**Table 77. Renewable Resources, Generating Capacity by EMM Region and Source (3 of 3)
(Gigawatts)**

	1998	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
WSSC/ NWP																								
Conventional Hydropower	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.07	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	0.0%
Geothermal 1/	0.23	0.23	0.29	0.34	0.36	0.36	0.36	0.36	0.36	0.47	0.50	0.52	0.55	0.58	0.63	0.77	0.79	0.82	0.94	1.01	1.03	1.22	1.22	7.8%
MSW	0.04	0.04	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	7.4%
Biomass 2/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.15	0.15	N/A
Wind	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	N/A
Total	35.51	35.50	35.63	35.69	35.72	35.74	35.76	35.78	35.80	35.92	35.98	36.00	36.04	36.08	36.15	36.31	36.35	36.40	36.52	36.61	36.64	36.85	36.85	0.2%
WSSC/ RA																								
Conventional Hydropower	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	N/A
Geothermal 1/	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.40	0.40	0.40	0.40	0.40	0.40	0.5%
MSW	0.00	0.00	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	18.2%
Biomass 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	21.3%
Wind	0.01	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	12.3%
Total	4.36	4.45	4.50	4.50	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.58	4.59	4.60	4.61	4.62	4.63	4.66	4.67	4.68	4.68	4.69	4.69	0.3%
WSSC/ CNV																								
Conventional Hydropower	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	N/A
Geothermal 1/	2.29	2.36	2.46	2.35	2.25	2.15	2.16	2.05	2.05	2.06	2.18	2.08	1.99	1.99	1.89	1.83	1.94	1.95	1.97	2.04	2.12	2.13	2.13	-0.3%
MSW	0.26	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	1.3%
Biomass 2/	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.1%
Solar Thermal 3/	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.6%
Solar Photovoltaic 3/	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.17	13.7%
Wind	1.68	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	0.1%
Total	16.34	16.52	16.62	16.54	16.44	16.35	16.36	16.27	16.27	16.29	16.42	16.33	16.25	16.26	16.17	16.12	16.25	16.27	16.30	16.39	16.48	16.51	16.51	0.0%
United States																								
Conventional Hydropower	77.71	77.72	77.79	77.94	78.06	78.13	78.21	78.35	78.35	78.35	78.35	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	0.0%
Geothermal 1/	2.89	2.96	3.11	3.05	2.97	2.88	2.89	2.79	2.79	2.90	3.05	2.98	2.91	2.95	2.90	2.98	3.11	3.18	3.31	3.46	3.55	3.75	3.75	1.2%
MSW	2.49	2.58	3.27	3.40	3.48	3.59	3.70	3.86	3.99	4.19	4.33	4.47	4.65	4.83	4.87	4.96	5.00	5.08	5.11	5.13	5.15	5.17	5.17	3.4%
Biomass 2/	1.76	1.78	1.87	1.94	1.96	1.99	2.01	2.05	2.11	2.19	2.29	2.41	2.53	2.68	2.68	2.69	2.71	2.77	2.80	2.83	2.90	2.93	2.93	2.3%
Solar Thermal 3/	0.33	0.33	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.48	1.7%
Solar Photovoltaic 3/	0.01	0.01	0.02	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.35	0.38	0.42	0.45	0.49	0.52	0.52	18.4%
Wind	1.99	2.74	2.90	3.27	3.43	3.71	3.89	4.24	4.47	4.87	4.97	5.07	5.20	5.29	5.29	5.30	5.40	5.42	5.42	5.42	5.49	5.49	5.49	4.7%
Total	87.19	88.13	89.29	89.96	90.27	90.70	91.13	91.74	92.20	93.02	93.54	93.84	94.25	94.73	94.76	95.00	95.33	95.61	95.84	96.08	96.37	96.67	96.67	0.5%

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

2/ Include projections for energy crops beginning in 2010.

3/ Grid connected generation only.

Btu = British Thermal Unit.

MSW = Municipal solid waste.

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

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