

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Generation by Fuel Type											
Electric Power Sector 1/ Power Only 2/											
Coal	1852	1875	1944	1947	2002	2057	2110	2131	2173	2201	2222
Petroleum	113	77	95	51	62	61	64	71	68	62	69
Natural Gas 3/	427	450	420	504	505	524	537	577	597	642	681
Nuclear Power	769	780	762	779	791	794	795	796	791	794	800
Pumped Storage/Other	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
Renewable Sources 4/	259	304	339	374	379	383	389	392	396	400	405
Distributed Generation (Natural Gas)	0	0	0	0	0	0	0	0	0	0	0
Non-Utility Generation for Own Use	-20	-34	-39	-40	-40	-40	-40	-40	-37	-37	-37
Total	3391	3443	3512	3606	3690	3770	3845	3918	3977	4054	4129
Combined Heat and Power 5/											
Coal	31	32	28	29	30	32	33	33	33	33	33
Petroleum	6	6	2	0	0	0	1	1	1	1	2
Natural Gas	128	148	152	157	159	161	166	170	176	174	175
Renewable Sources	4	5	4	4	4	4	4	4	4	4	4
Non-Utility Generation for Own Use	-9	-11	-24	-24	-24	-24	-24	-24	-24	-24	-24
Total	160	183	163	166	170	173	180	184	191	188	189
Net Available to the Grid	3551	3626	3674	3773	3860	3944	4025	4102	4167	4242	4318
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	6	5	5	5	8	9	10	10	11	12	13
Natural Gas	83	84	84	86	89	94	97	100	105	109	114
Other Gaseous Fuels 7/	4	5	6	6	8	8	8	9	9	9	10
Renewable Sources 4/	29	30	31	32	34	35	36	37	38	39	40
Other 8/	9	11	11	11	11	11	11	11	11	11	11
Total	151	157	158	162	172	178	183	188	195	202	208
Other End-Use Generators 9/	3	4	4	4	4	4	5	5	5	5	5
Generation for Own Use	-129	-134	-134	-136	-144	-147	-149	-152	-155	-158	-161
Total Sales to the Grid	25	27	28	31	32	35	38	41	45	48	52
Total Electricity Generation	3734	3831	3900	4003	4100	4191	4276	4359	4428	4510	4593
Net Imports	22	22	40	30	32	29	28	28	29	31	32
Electricity Sales by Sector											
Residential	1203	1268	1282	1302	1319	1338	1360	1386	1405	1428	1450
Commercial	1197	1208	1213	1254	1296	1335	1372	1408	1443	1480	1517
Industrial	964	994	978	1003	1030	1053	1073	1089	1103	1120	1140

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	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Transportation	22	22	23	23	24	24	25	25	26	26	27
Total	3386	3492	3495	3582	3669	3750	3830	3909	3977	4055	4133
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	8.7	8.4	8.5	8.3	8.2	8.1	8.0	8.0	8.0	7.9	7.9
Commercial	8.0	7.8	7.6	7.4	7.2	7.0	6.9	6.9	7.0	7.0	7.0
Industrial	5.2	5.0	4.8	4.7	4.6	4.6	4.5	4.6	4.6	4.6	4.5
Transportation	7.4	7.2	7.3	7.1	6.9	6.7	6.6	6.6	6.7	6.7	6.7
All Sectors Average	7.4	7.2	7.1	7.0	6.8	6.7	6.6	6.6	6.7	6.6	6.6
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.8	4.6	4.6	4.4	4.3	4.2	4.2	4.1	4.2	4.1	4.1
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	10.63	10.54	10.62	10.80	10.18	9.90	10.13	10.30	9.93	9.90	9.86
Nitrogen Oxide (million tons)	4.75	4.39	3.70	3.23	3.28	3.36	3.43	3.46	3.48	3.50	3.52
Mercury (tons)	49.14	50.95	50.87	49.95	50.12	50.78	52.14	52.26	52.33	52.20	52.81

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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Generation by Fuel Type											
Electric Power Sector 1/ Power Only 2/											
Coal	2244	2265	2288	2318	2353	2395	2435	2493	2560	2634	2724
Petroleum	82	88	96	103	101	100	92	87	82	87	82
Natural Gas 3/	717	755	791	814	854	891	935	961	972	962	959
Nuclear Power	803	806	809	812	814	816	816	816	816	816	816
Pumped Storage/Other	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
Renewable Sources 4/	408	412	416	420	423	426	429	434	442	448	450
Distributed Generation (Natural Gas)	0	1	1	1	1	2	2	3	3	4	4
Non-Utility Generation for Own Use	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
Total	4206	4279	4352	4423	4500	4583	4663	4747	4829	4906	4989
Combined Heat and Power 5/											
Coal	33	34	34	34	34	33	33	33	33	33	33
Petroleum	2	3	4	5	4	4	3	3	2	3	3
Natural Gas	176	173	168	165	165	161	163	161	159	156	154
Renewable Sources	4	4	4	4	4	4	4	4	4	4	4
Non-Utility Generation for Own Use	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24
Total	191	189	185	183	183	179	179	177	175	172	169
Net Available to the Grid	4397	4468	4538	4606	4683	4762	4842	4924	5004	5077	5159
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	13	14	14	15	15	15	16	17	17	17	17
Natural Gas	118	121	125	129	133	137	142	147	153	158	163
Other Gaseous Fuels 7/	10	10	10	11	11	11	12	12	12	12	12
Renewable Sources 4/	41	43	44	45	46	47	48	49	50	51	52
Other 8/	11	11	11	11	11	11	11	11	11	11	11
Total	215	220	226	231	237	243	250	257	264	271	277
Other End-Use Generators 9/	5	5	5	5	5	5	5	5	5	6	6
Generation for Own Use	-164	-167	-170	-173	-176	-179	-182	-186	-190	-193	-197
Total Sales to the Grid	55	58	61	63	66	69	73	76	80	83	86
Total Electricity Generation	4678	4755	4830	4904	4987	5071	5159	5247	5335	5415	5503
Net Imports	31	31	30	32	30	27	24	20	21	17	13
Electricity Sales by Sector											
Residential	1474	1490	1510	1531	1554	1571	1592	1615	1641	1657	1678
Commercial	1552	1587	1621	1653	1684	1718	1754	1792	1828	1862	1895
Industrial	1159	1180	1197	1216	1235	1256	1276	1292	1310	1327	1348

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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Transportation	27	28	28	29	30	30	31	31	32	33	33
Total	4212	4285	4357	4429	4502	4576	4653	4730	4811	4879	4955
End-Use Prices 10/ (2002 cents per kilowatthc											
Residential	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Commercial	7.1	7.0	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.3
Industrial	4.6	4.6	4.6	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Transportation	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.9	6.8
All Sectors Average	6.7	6.7	6.8	6.8	6.9	6.8	6.9	6.8	6.9	6.9	6.9
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.2	4.2	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5
Transmission	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Distribution	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	9.37	9.15	9.09	8.95	8.95	8.95	8.94	8.95	8.94	8.94	8.94
Nitrogen Oxide (million tons)	3.54	3.56	3.57	3.60	3.63	3.65	3.64	3.65	3.67	3.66	3.68
Mercury (tons)	52.84	52.45	52.45	52.65	53.24	53.19	53.02	53.17	53.59	53.74	53.72

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
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	2023	2024	2025	2002- 2025
Generation by Fuel Type				
Electric Power Sector 1/ Power Only 2/				
Coal	2830	2891	2975	2.0%
Petroleum	75	78	77	0.0%
Natural Gas 3/	948	969	969	3.4%
Nuclear Power	816	816	816	0.2%
Pumped Storage/Other	-9	-9	-9	0.3%
Renewable Sources 4/	452	456	460	1.8%
Distributed Generation (Natural Gas)	5	5	5	N/A
Non-Utility Generation for Own Use	-37	-37	-37	0.4%
Total	5079	5169	5257	1.9%
Combined Heat and Power 5/				
Coal	33	33	33	0.1%
Petroleum	2	2	2	-3.8%
Natural Gas	150	150	149	0.0%
Renewable Sources	4	4	4	-0.7%
Non-Utility Generation for Own Use	-24	-24	-24	3.6%
Total	165	166	164	-0.5%
Net Available to the Grid	5244	5335	5421	1.8%
End-Use Sector Generation				
Combined Heat and Power 6/				
Coal	21	21	21	0.0%
Petroleum	17	17	18	5.6%
Natural Gas	169	175	181	3.4%
Other Gaseous Fuels 7/	13	13	13	4.3%
Renewable Sources 4/	52	53	54	2.6%
Other 8/	11	11	11	0.0%
Total	284	291	299	2.8%
Other End-Use Generators 9/	6	6	7	1.9%
Generation for Own Use	-201	-206	-210	2.0%
Total Sales to the Grid	88	92	95	5.6%
Total Electricity Generation	5595	5693	5787	1.8%
Net Imports	11	9	8	-4.6%
Electricity Sales by Sector				
Residential	1701	1729	1747	1.4%
Commercial	1929	1965	2003	2.2%
Industrial	1372	1395	1422	1.6%

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	2023	2024	2025	2002- 2025
Transportation	34	35	35	2.1%
Total	5036	5123	5207	1.8%
End-Use Prices 10/ (2002 cents per kilowatthc				
Residential	8.1	8.1	8.1	-0.2%
Commercial	7.2	7.3	7.3	-0.3%
Industrial	4.7	4.8	4.8	-0.2%
Transportation	6.8	6.8	6.8	-0.2%
All Sectors Average	6.8	6.9	6.9	-0.2%
Prices by Service Category 10/ (2002 cents per kilowatthour)				
Generation	4.5	4.5	4.5	-0.1%
Transmission	0.7	0.7	0.7	0.9%
Distribution	1.7	1.7	1.7	-0.7%
Electric Power Sector Emissions 1/				
Sulfur Dioxide (million tons)	8.94	8.95	8.95	-0.7%
Nitrogen Oxide (million tons)	3.71	3.73	3.75	-0.7%
Mercury (tons)	53.87	53.97	54.37	0.3%

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
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1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Includes plants that only produce electricity.

3/ Includes electricity generation from fuel cells.

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

5/ Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report NAICS code 22).

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors.

7/ Other gaseous fuels include refinery and still gas.

8/ Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

9/ Other end-use generators include small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

10/ Prices represent average revenue per kilowatthour.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 power only and combined heat and power generation, sales to utilities, net imports, residential, industrial, and total electricity sales, and emissions: Energy Information Administration (EIA), Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003) and supporting databases. 2001 and 2002 commercial and transportation electricity sales: EIA estimates based on Oak Ridge National Laboratory, Transportation Energy Data Book 21 (Oak Ridge, TN, November 2001). 2001 and 2002 prices: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.