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**Electricity Supply, Disposition, Prices, and Emissions, Early release reference  
(billion kilowatthours, unless otherwise noted)**

Supply, Disposition, and Prices	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Growth Rate (2009-2035)	
<b>Net Generation by Fuel Type</b>																														
<b>Electric Power Sector 1/ Power Only 2/</b>																														
Coal	1932	1719	1805	1761	1782	1767	1768	1753	1781	1786	1797	1816	1849	1876	1905	1932	1969	1990	2007	2022	2028	2042	2052	2061	2071	2078	2081	2092	0.80%	
Petroleum	39	32	39	38	38	38	37	38	38	38	38	39	40	40	40	40	40	41	40	41	41	41	41	41	41	41	41	41	42	1.10%
Natural Gas 3/	683	722	785	734	693	703	688	703	691	700	710	713	700	695	694	693	685	688	695	713	742	761	790	813	834	854	879	903	0.90%	
Nuclear Power	806	799	803	803	813	827	833	839	841	852	862	872	882	882	882	882	882	882	882	882	882	882	882	882	882	881	880	879	0.40%	
Pumped Storage/Other 4/	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
Renewable Sources 5/ Distributed Generation (Natural Gas)	347	380	371	407	460	470	484	496	507	512	515	518	525	526	528	531	535	542	548	546	550	552	554	558	561	563	567	569	1.60%	
<b>Total</b>	<b>3807</b>	<b>3653</b>	<b>3803</b>	<b>3743</b>	<b>3786</b>	<b>3806</b>	<b>3810</b>	<b>3830</b>	<b>3858</b>	<b>3888</b>	<b>3924</b>	<b>3958</b>	<b>3997</b>	<b>4020</b>	<b>4052</b>	<b>4081</b>	<b>4113</b>	<b>4145</b>	<b>4175</b>	<b>4207</b>	<b>4245</b>	<b>4281</b>	<b>4321</b>	<b>4357</b>	<b>4391</b>	<b>4419</b>	<b>4453</b>	<b>4488</b>	<b>0.80%</b>	
<b>Combined Heat and Power 6/</b>																														
Coal	37	30	27	26	24	26	24	25	25	26	26	26	25	28	28	29	29	29	29	29	29	29	29	30	30	32	31	31	0.10%	
Petroleum	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-9.10%	
Natural Gas	119	119	130	129	123	133	128	131	127	126	127	128	123	123	120	120	120	118	119	119	119	118	120	119	120	118	116	114	-0.20%	
Renewable Sources	4	4	3	3	3	3	3	3	3	3	3	4	4	4	3	4	4	4	4	4	4	3	3	3	4	3	3	3	-1.30%	
<b>Total</b>	<b>167</b>	<b>161</b>	<b>160</b>	<b>157</b>	<b>151</b>	<b>162</b>	<b>155</b>	<b>159</b>	<b>156</b>	<b>156</b>	<b>157</b>	<b>157</b>	<b>152</b>	<b>155</b>	<b>152</b>	<b>153</b>	<b>153</b>	<b>152</b>	<b>152</b>	<b>152</b>	<b>152</b>	<b>150</b>	<b>153</b>	<b>152</b>	<b>154</b>	<b>153</b>	<b>151</b>	<b>149</b>	<b>-0.30%</b>	
<b>Total Net Generation</b>	<b>3974</b>	<b>3814</b>	<b>3963</b>	<b>3901</b>	<b>3937</b>	<b>3967</b>	<b>3965</b>	<b>3989</b>	<b>4014</b>	<b>4044</b>	<b>4081</b>	<b>4115</b>	<b>4149</b>	<b>4175</b>	<b>4204</b>	<b>4234</b>	<b>4266</b>	<b>4296</b>	<b>4328</b>	<b>4360</b>	<b>4397</b>	<b>4431</b>	<b>4474</b>	<b>4509</b>	<b>4545</b>	<b>4572</b>	<b>4604</b>	<b>4637</b>	<b>0.80%</b>	
Less Direct Use	35	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	-0.20%	
<b>Net Available to the Grid</b>	<b>3939</b>	<b>3779</b>	<b>3930</b>	<b>3867</b>	<b>3903</b>	<b>3934</b>	<b>3931</b>	<b>3956</b>	<b>3981</b>	<b>4011</b>	<b>4048</b>	<b>4082</b>	<b>4116</b>	<b>4142</b>	<b>4171</b>	<b>4201</b>	<b>4233</b>	<b>4263</b>	<b>4295</b>	<b>4326</b>	<b>4364</b>	<b>4398</b>	<b>4441</b>	<b>4476</b>	<b>4512</b>	<b>4539</b>	<b>4571</b>	<b>4604</b>	<b>0.80%</b>	
<b>End-Use Generation 7/</b>																														
Coal	19	23	23	23	23	23	23	31	32	33	33	34	35	36	38	40	42	44	46	49	52	55	58	62	65	68	71	74	4.60%	
Petroleum	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	-0.30%	
Natural Gas	80	90	104	116	124	131	138	143	148	152	155	158	162	166	169	173	177	182	187	193	199	206	214	222	230	238	245	253	4.00%	
Other Gaseous Fuels 8/	11	11	11	11	14	15	15	15	15	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	1.40%	
Renewable Sources 9/	34	36	41	46	50	55	57	63	66	69	72	76	83	90	100	109	119	129	136	144	147	148	148	149	150	151	152	153	5.80%	
Other 10/	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1.80%	
<b>Total</b>	<b>149</b>	<b>167</b>	<b>184</b>	<b>201</b>	<b>217</b>	<b>230</b>	<b>238</b>	<b>258</b>	<b>268</b>	<b>274</b>	<b>281</b>	<b>290</b>	<b>301</b>	<b>313</b>	<b>327</b>	<b>343</b>	<b>359</b>	<b>376</b>	<b>391</b>	<b>407</b>	<b>419</b>	<b>430</b>	<b>442</b>	<b>454</b>	<b>466</b>	<b>478</b>	<b>490</b>	<b>502</b>	<b>4.30%</b>	
Less Direct Use	120	135	150	163	176	186	193	208	216	220	225	229	235	241	248	255	264	274	285	296	306	315	325	334	344	354	363	373	4.00%	
<b>Total Sales to the Grid</b>	<b>29</b>	<b>31</b>	<b>35</b>	<b>38</b>	<b>41</b>	<b>44</b>	<b>46</b>	<b>50</b>	<b>52</b>	<b>54</b>	<b>57</b>	<b>61</b>	<b>66</b>	<b>72</b>	<b>80</b>	<b>87</b>	<b>95</b>	<b>102</b>	<b>106</b>	<b>111</b>	<b>113</b>	<b>115</b>	<b>117</b>	<b>120</b>	<b>122</b>	<b>124</b>	<b>127</b>	<b>129</b>	<b>5.60%</b>	
<b>Total Electricity Generation by Fuel</b>																														
Coal	1987	1772	1855	1809	1829	1815	1814	1810	1837	1845	1857	1876	1909	1940	1972	2001	2040	2063	2083	2101	2109	2127	2140	2152	2166	2177	2184	2197	0.80%	
Petroleum	46	41	45	44	43	43	42	43	43	43	43	45	45	45	45	45	46	46	46	46	46	46	46	46	46	46	47	47	0.50%	

Natural Gas	882	931	1018	979	940	968	954	977	968	979	994	1000	987	986	985	989	984	991	1004	1028	1063	1087	1127	1157	1187	1212	1244	1274	1.20%	
Nuclear Power	806	799	803	803	813	827	833	839	841	852	862	872	882	882	882	882	882	882	882	882	882	882	882	882	882	881	880	879	0.40%	
Renewable Sources 5,9/ Other 11/	385	420	415	455	513	528	544	562	577	584	591	598	612	620	631	644	658	674	689	694	700	703	705	710	714	717	723	725	2.10%	
	16	18	12	12	16	16	16	16	16	16	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	-0.30%	
<b>Total Electricity Generation</b>	<b>4123</b>	<b>3981</b>	<b>4148</b>	<b>4102</b>	<b>4154</b>	<b>4197</b>	<b>4203</b>	<b>4247</b>	<b>4281</b>	<b>4318</b>	<b>4362</b>	<b>4405</b>	<b>4450</b>	<b>4488</b>	<b>4531</b>	<b>4577</b>	<b>4625</b>	<b>4672</b>	<b>4719</b>	<b>4766</b>	<b>4816</b>	<b>4861</b>	<b>4916</b>	<b>4963</b>	<b>5011</b>	<b>5050</b>	<b>5094</b>	<b>5139</b>	<b>1.00%</b>	
<b>Total Net Generation to the Grid</b>	<b>3968</b>	<b>3810</b>	<b>3965</b>	<b>3905</b>	<b>3945</b>	<b>3977</b>	<b>3977</b>	<b>4006</b>	<b>4032</b>	<b>4065</b>	<b>4104</b>	<b>4143</b>	<b>4182</b>	<b>4214</b>	<b>4251</b>	<b>4288</b>	<b>4328</b>	<b>4365</b>	<b>4401</b>	<b>4437</b>	<b>4478</b>	<b>4513</b>	<b>4558</b>	<b>4596</b>	<b>4634</b>	<b>4663</b>	<b>4697</b>	<b>4733</b>	<b>0.80%</b>	
<b>Net Imports</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>31</b>	<b>33</b>	<b>32</b>	<b>33</b>	<b>33</b>	<b>34</b>	<b>33</b>	<b>30</b>	<b>29</b>	<b>27</b>	<b>30</b>	<b>29</b>	<b>26</b>	<b>25</b>	<b>22</b>	<b>20</b>	<b>21</b>	<b>20</b>	<b>18</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>14</b>	<b>-3.40%</b>	
<b>Electricity Sales by Sector</b>																														
Residential	1380	1363	1455	1356	1366	1348	1346	1346	1355	1361	1371	1382	1392	1402	1416	1430	1448	1460	1476	1492	1511	1523	1539	1554	1573	1584	1598	1613	0.70%	
Commercial	1336	1323	1349	1355	1366	1378	1394	1413	1434	1456	1479	1502	1523	1545	1567	1588	1611	1635	1659	1685	1710	1735	1761	1786	1812	1836	1861	1885	1.40%	
Industrial	1009	882	937	971	992	1033	1023	1035	1036	1037	1039	1040	1044	1044	1041	1037	1033	1027	1020	1012	1004	999	993	988	980	973	965	957	0.30%	
Transportation	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	11	11	12	13	13	14	15	15	16	17	18	18	19	4.10%
<b>Total</b>	<b>3732</b>	<b>3575</b>	<b>3749</b>	<b>3689</b>	<b>3731</b>	<b>3766</b>	<b>3771</b>	<b>3803</b>	<b>3833</b>	<b>3863</b>	<b>3898</b>	<b>3933</b>	<b>3969</b>	<b>4002</b>	<b>4035</b>	<b>4067</b>	<b>4104</b>	<b>4135</b>	<b>4168</b>	<b>4202</b>	<b>4240</b>	<b>4271</b>	<b>4308</b>	<b>4344</b>	<b>4382</b>	<b>4410</b>	<b>4442</b>	<b>4474</b>	<b>0.90%</b>	
Direct Use	154	170	183	197	209	219	226	242	249	253	258	262	268	274	281	288	297	307	318	329	339	348	358	368	377	387	396	406	3.40%	
<b>Total Electricity Use</b>	<b>3886</b>	<b>3745</b>	<b>3932</b>	<b>3886</b>	<b>3940</b>	<b>3986</b>	<b>3997</b>	<b>4044</b>	<b>4082</b>	<b>4116</b>	<b>4156</b>	<b>4195</b>	<b>4237</b>	<b>4276</b>	<b>4315</b>	<b>4356</b>	<b>4401</b>	<b>4442</b>	<b>4485</b>	<b>4532</b>	<b>4578</b>	<b>4619</b>	<b>4666</b>	<b>4712</b>	<b>4759</b>	<b>4797</b>	<b>4838</b>	<b>4880</b>	<b>1.00%</b>	
<b>End-Use Prices</b>																														
<b>(2009 cents per kilowatthour)</b>																														
Residential	11.3	11.5	11.5	10.8	10.9	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.7	10.7	10.7	10.7	10.6	10.7	10.7	10.7	10.7	10.6	10.7	10.7	10.7	10.8	10.8	10.8	-0.20%	
Commercial	10.4	10.1	9.7	9.4	9.4	9.3	9.2	9.2	9.2	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.2	9.2	-0.30%	
Industrial	6.8	6.8	6.5	6.2	6.2	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	6.2	6.2	6.2	6.2	6.2	6.3	6.3	6.3	6.4	6.4	-0.20%	
Transportation	11.8	11.9	10.3	10.6	10.6	10.5	10.4	10.3	10.1	9.9	9.7	9.6	9.5	9.5	9.6	9.6	9.7	9.8	9.9	9.9	10	10.1	10.2	10.3	10.4	10.5	10.7	10.8	-0.40%	
<b>All Sectors Average</b>	<b>9.8</b>	<b>9.8</b>	<b>9.6</b>	<b>9.1</b>	<b>9.1</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>8.9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9.1</b>	<b>9.2</b>	<b>9.2</b>	<b>-0.20%</b>		
<b>(nominal cents per kilowatthour)</b>																														
Residential	11.2	11.5	11.6	11	11.2	11.5	11.7	11.9	12.1	12.3	12.5	12.7	13	13.2	13.4	13.6	13.8	14.1	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.5	16.9	17.3	1.60%	
Commercial	10.3	10.1	9.8	9.6	9.7	9.7	9.9	10.1	10.2	10.4	10.6	10.8	11	11.2	11.4	11.6	11.8	12.1	12.3	12.5	12.7	13	13.2	13.4	13.7	14.1	14.4	14.7	1.50%	
Industrial	6.8	6.8	6.5	6.3	6.4	6.4	6.5	6.7	6.8	6.9	7.1	7.2	7.4	7.5	7.6	7.8	8	8.1	8.3	8.5	8.7	8.9	9	9.2	9.5	9.7	10	10.2	1.60%	
Transportation	11.7	11.9	10.4	10.8	10.9	11.1	11.2	11.3	11.3	11.3	11.4	11.5	11.7	12	12.3	12.6	12.9	13.3	13.7	14	14.5	14.8	15.3	15.7	16.2	16.7	17.2	1.40%		
<b>All Sectors Average</b>	<b>9.7</b>	<b>9.8</b>	<b>9.7</b>	<b>9.3</b>	<b>9.4</b>	<b>9.5</b>	<b>9.6</b>	<b>9.8</b>	<b>10</b>	<b>10.2</b>	<b>10.3</b>	<b>10.5</b>	<b>10.7</b>	<b>10.9</b>	<b>11.1</b>	<b>11.3</b>	<b>11.6</b>	<b>11.8</b>	<b>12.1</b>	<b>12.3</b>	<b>12.5</b>	<b>12.8</b>	<b>13</b>	<b>13.3</b>	<b>13.6</b>	<b>14</b>	<b>14.4</b>	<b>14.7</b>	<b>1.60%</b>	
<b>Prices by Service Category</b>																														
<b>(2009 cents per kilowatthour)</b>																														
Generation	6.1	6	5.8	5.2	5.2	5.1	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	6	6	0.00%	
Transmission	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.50%
Distribution	2.9	3	3.1	3.1	3.1	3.1	3.1	3	3	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.3	-1.00%	
<b>(nominal cents per kilowatthour)</b>																														
<b>Generation</b>	<b>6.1</b>	<b>6</b>	<b>5.8</b>	<b>5.4</b>	<b>5.3</b>	<b>5.4</b>	<b>5.5</b>	<b>5.6</b>	<b>5.8</b>	<b>5.9</b>	<b>6.1</b>	<b>6.2</b>	<b>6.4</b>	<b>6.6</b>	<b>6.8</b>	<b>7</b>	<b>7.2</b>	<b>7.4</b>	<b>7.6</b>	<b>7.8</b>	<b>8</b>	<b>8.2</b>	<b>8.4</b>	<b>8.6</b>	<b>8.9</b>	<b>9.1</b>	<b>9.4</b>	<b>9.7</b>	<b>1.80%</b>	
Transmission	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	2.30%	
Distribution	2.9	3	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	0.80%	
<b>Electric Power Sector Emissions 1/</b>																														
Sulfur Dioxide (million tons)	7.62	5.72	5.64	5.05	4.41	3.84	3.76	3.76	3.7	3.58	3.57	3.56	3.76	3.81	3.95	4.02	4.23	4.25	4.31	4.27	4.14	3.99	4.02	4.01	4.09	3.88	3.77	3.83	-1.50%	
Nitrogen Oxide (million tons)	3.01	1.99	2.55	2.21	2.13	2.09	2.06	2	1.98	1.97	1.97	1.99	2.01	2	2	2	2.02	2.02	2.01	2.01	2.02	2.04	2.04	2.04	2.05	2.05	2.03	2.04	0.10%	
Mercury (tons)	45.27	40.66	40.14	37.36	36.84	36.32	36.84	27.13	26.95	26.89	27.1	27.06	27.78	28.31	28.65	28.87	29.33	29.18	29.1	28.58	29.47	29.1	29	29.28	29.29	29.15	29.02	29.39	-1.20%	

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1/ Includes electricity-only and combined heat and power 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 non-biogenic municipal waste. The U.S. Energy Information Administration estimates that in 2009 approximately 6 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See U.S. Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

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

6/ Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report North American Industry Classification System code 22).

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

8/ Includes refinery gas and still gas.

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

10/ Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

11/ Includes pumped storage, non-biogenic municipal waste, refinery gas, still gas, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2008 and 2009 are model results and may differ slightly from official EIA data reports.

Sources: 2008 and 2009 electric power sector generation; sales to utilities; net imports; electricity sales; electricity end-use prices; and emissions: U.S. Energy Information Administration (EIA), Annual Energy Review 2009, DOE/EIA-0384(2009) (Washington, DC, August 2010) and supporting databases. 2008 and 2009 prices: EIA, AEO2011 National Energy Modeling System.

Projections: EIA, AEO2011 National Energy Modeling System.