

Appendix A

Summary Results for the Reference and Competitive Scenarios

Table A1. Total Energy Supply and Disposition Summary
(Quadrillion Btu per Year, Unless Otherwise Noted)

| | 2000 | | 2005 | | 2010 | | 2015 | | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|--|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive | |
| Production | | | | | | | | | |
| Crude Oil & Lease Condensate | 13.31 | 13.31 | 12.30 | 12.31 | 11.85 | 11.81 | 11.32 | 11.26 | |
| Natural Gas Plant Liquids | 2.43 | 2.40 | 2.72 | 2.71 | 2.99 | 2.85 | 3.21 | 3.10 | |
| Dry Natural Gas | 18.86 | 18.63 | 21.52 | 21.36 | 23.86 | 22.75 | 25.90 | 24.93 | |
| Coal | 22.97 | 23.63 | 24.22 | 23.63 | 25.10 | 23.96 | 26.68 | 25.34 | |
| Nuclear Power | 7.24 | 7.41 | 7.04 | 7.06 | 6.19 | 6.21 | 4.56 | 4.27 | |
| Renewable Energy | 6.73 | 7.14 | 6.98 | 8.00 | 7.29 | 8.90 | 7.53 | 9.54 | |
| Other | 0.53 | 0.53 | 0.57 | 0.56 | 0.57 | 0.57 | 0.65 | 0.59 | |
| Total | 72.06 | 73.05 | 75.36 | 75.64 | 77.84 | 77.05 | 79.87 | 79.04 | |
| Imports | | | | | | | | | |
| Crude Oil | 19.58 | 19.53 | 21.74 | 21.54 | 23.85 | 23.88 | 24.88 | 24.95 | |
| Petroleum Products | 5.80 | 5.42 | 6.60 | 6.33 | 7.63 | 7.24 | 8.72 | 8.41 | |
| Natural Gas | 3.43 | 3.33 | 3.72 | 3.44 | 4.38 | 4.18 | 4.99 | 4.86 | |
| Other Imports | 0.87 | 0.85 | 0.65 | 0.65 | 0.51 | 0.50 | 0.46 | 0.46 | |
| Total | 29.68 | 29.13 | 32.71 | 31.95 | 36.36 | 35.79 | 39.05 | 38.68 | |
| Exports | | | | | | | | | |
| Petroleum | 2.06 | 2.04 | 2.05 | 2.04 | 2.12 | 2.12 | 2.03 | 2.01 | |
| Natural Gas | 0.19 | 0.19 | 0.21 | 0.21 | 0.24 | 0.24 | 0.27 | 0.27 | |
| Coal | 2.14 | 2.14 | 2.21 | 2.21 | 2.27 | 2.27 | 2.31 | 2.31 | |
| Total | 4.39 | 4.37 | 4.48 | 4.47 | 4.63 | 4.63 | 4.60 | 4.58 | |
| Discrepancy | -0.26 | -0.13 | -0.31 | -0.37 | -0.45 | -0.44 | -0.45 | -0.49 | |
| Consumption | | | | | | | | | |
| Petroleum Products | 39.37 | 38.89 | 41.51 | 41.04 | 44.38 | 43.83 | 46.30 | 45.81 | |
| Natural Gas | 22.10 | 21.76 | 24.99 | 24.53 | 27.90 | 26.59 | 30.54 | 29.44 | |
| Coal | 21.05 | 21.90 | 22.41 | 21.77 | 23.17 | 22.04 | 24.80 | 23.45 | |
| Nuclear Power | 7.24 | 7.41 | 7.04 | 7.06 | 6.19 | 6.21 | 4.56 | 4.27 | |
| Renewable Energy | 6.73 | 7.15 | 6.98 | 8.01 | 7.30 | 8.91 | 7.55 | 9.56 | |
| Other | 0.60 | 0.58 | 0.35 | 0.34 | 0.19 | 0.19 | 0.12 | 0.12 | |
| Total | 97.09 | 97.69 | 103.30 | 102.70 | 109.10 | 107.80 | 113.90 | 112.60 | |
| Net Imports - Petroleum | 23.32 | 22.91 | 26.28 | 25.82 | 29.36 | 29.00 | 31.57 | 31.35 | |
| Resource Prices (1997 dollars per unit) | | | | | | | | | |
| World Oil Price (\$ per bbl) | 13.97 | 13.97 | 19.25 | 19.25 | 21.30 | 21.30 | 21.91 | 21.91 | |
| Gas Wellhead Price(\$ / Mcf) | 1.98 | 1.92 | 2.08 | 1.96 | 2.40 | 2.18 | 2.47 | 2.25 | |
| Coal Minemouth Price (\$ / ton) | 15.97 | 15.72 | 15.11 | 14.90 | 14.10 | 14.26 | 13.22 | 13.27 | |
| Delivered Prices to Electric Generators (1997 \$/MMBtu) | | | | | | | | | |
| Distillate Oil | 3.81 | 3.85 | 4.83 | 4.80 | 5.17 | 5.09 | 5.30 | 5.24 | |
| Residual Oil | 2.15 | 2.12 | 2.95 | 2.84 | 3.07 | 2.94 | 3.18 | 3.03 | |
| Natural Gas | 2.46 | 2.39 | 2.73 | 2.59 | 3.02 | 2.78 | 3.08 | 2.87 | |
| Coal | 1.21 | 1.20 | 1.13 | 1.13 | 1.06 | 1.05 | 0.98 | 0.98 | |

Table A2. Macroeconomic Indicators

(Billion 1992 Chain-Weighted Dollars, Unless Otherwise Noted)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| GDP Implicit Price Deflator (index 1992=1.000) | 1.172 | 1.172 | 1.31 | 1.31 | 1.487 | 1.487 | 1.743 | 1.743 |
| Real Gross Domestic Product | 7828 | 7828 | 8771 | 8771 | 9896 | 9896 | 10802 | 10802 |
| Real Consumption | 5393 | 5393 | 5978 | 5978 | 6754 | 6754 | 7522 | 7522 |
| Real Investment | 1379 | 1379 | 1622 | 1622 | 1918 | 1918 | 2141 | 2141 |
| Real Government Spending | 1341 | 1341 | 1445 | 1445 | 1588 | 1588 | 1680 | 1680 |
| Real Disposable Personal Income | 5620 | 5620 | 6313 | 6313 | 7171 | 7171 | 8009 | 8009 |
| Index of Manufacturing Gross Output (index 1987=1.000) | 1.416 | 1.415 | 1.594 | 1.594 | 1.811 | 1.810 | 1.978 | 1.977 |
| AA Utility Bond Rate (percent) | 6.12 | 6.12 | 6.27 | 6.27 | 6.17 | 6.17 | 6.83 | 6.83 |
| Real Utility Bond Rate (percent) | 4.46 | 4.46 | 4.1 | 4.1 | 3.48 | 3.48 | 3.48 | 3.48 |
| Population w/Armed Forces Overseas (millions of people) | 275.2 | 275.2 | 286.5 | 286.5 | 298.3 | 298.3 | 310.7 | 310.7 |

Note: The macroeconomic variables do not change between cases because feedback from the macroeconomic module was not included.

Table A3. National Electricity Results

| | 2000 | | 2005 | | 2010 | | 2015 | |
|---|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand by Sector (BkWh) | | | | | | | | |
| Residential | 1135 | 1174 | 1229 | 1263 | 1325 | 1352 | 1434 | 1466 |
| Commercial | 1073 | 1103 | 1150 | 1160 | 1236 | 1219 | 1321 | 1299 |
| Industrial | 1037 | 1037 | 1104 | 1063 | 1189 | 1092 | 1255 | 1135 |
| Transportation | 17 | 17 | 29 | 29 | 43 | 43 | 53 | 53 |
| Total | 3261 | 3330 | 3512 | 3515 | 3794 | 3706 | 4065 | 3954 |
| Generation by Ownership (BkWh) | | | | | | | | |
| Utility | 3139 | 3217 | 3127 | 3115 | 2931 | 2963 | 2830 | 2887 |
| EWG | 79 | 74 | 373 | 376 | 871 | 694 | 1251 | 1016 |
| NonTraditional Cogeneration | 143 | 144 | 143 | 144 | 142 | 144 | 142 | 144 |
| Traditional Cogen Sold to Utilities | 27 | 28 | 28 | 39 | 30 | 81 | 31 | 92 |
| International Imports | 56 | 54 | 28 | 28 | 11 | 11 | 3 | 2 |
| Total | 3443 | 3517 | 3699 | 3702 | 3984 | 3893 | 4257 | 4141 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 1841 | 1932 | 1960 | 1945 | 2034 | 2012 | 2207 | 2153 |
| Gas | 365 | 330 | 604 | 540 | 930 | 671 | 1193 | 913 |
| Oil | 125 | 85 | 62 | 25 | 37 | 11 | 30 | 13 |
| Hydro | 310 | 310 | 311 | 312 | 312 | 319 | 312 | 322 |
| Nuclear | 678 | 694 | 659 | 661 | 580 | 581 | 427 | 400 |
| Geothermal | 16 | 16 | 16 | 18 | 18 | 20 | 19 | 21 |
| Refuse | 23 | 23 | 24 | 24 | 26 | 26 | 27 | 27 |
| Wood Steam ¹ | 10 | 57 | 11 | 104 | 11 | 106 | 11 | 93 |
| Solar Thermal | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind | 6 | 6 | 7 | 20 | 8 | 66 | 8 | 117 |
| Solar PV | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Total | 3375 | 3453 | 3655 | 3651 | 3957 | 3816 | 4237 | 4061 |
| Traditional Renewable Cogen (BkWh) | 41 | 41 | 44 | 45 | 49 | 51 | 53 | 54 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Imports (Economy) | 218 | 303 | 207 | 307 | 215 | 284 | 210 | 279 |
| Inter-regional | 135 | 171 | 111 | 149 | 111 | 124 | 114 | 126 |
| Intra-regional | 83 | 133 | 97 | 158 | 104 | 160 | 96 | 154 |
| Imports (Firm) | 56 | 54 | 28 | 28 | 11 | 11 | 3 | 2 |
| Energy Consumption by Fuel Type and Total (Quads) | | | | | | | | |
| Coal | 18.90 | 19.76 | 20.19 | 19.60 | 20.89 | 19.86 | 22.48 | 21.26 |
| Gas | 3.62 | 3.27 | 5.23 | 4.52 | 7.12 | 5.10 | 8.68 | 6.64 |
| Nuclear | 7.21 | 7.37 | 7.00 | 7.03 | 6.16 | 6.18 | 4.54 | 4.25 |
| Oil | 1.31 | 0.90 | 0.64 | 0.26 | 0.40 | 0.12 | 0.32 | 0.14 |
| Total | 31.04 | 31.30 | 33.06 | 31.40 | 34.57 | 31.26 | 36.01 | 32.28 |
| End of Year Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 34.47 | 33.97 | 70.15 | 72.93 | 132.83 | 117.67 | 190.18 | 162.13 |
| Coal | 310.27 | 310.27 | 300.08 | 300.83 | 301.49 | 302.17 | 314.50 | 305.62 |
| Combustion Turbines | 71.67 | 68.69 | 108.20 | 113.68 | 146.77 | 136.48 | 170.60 | 169.07 |
| Fuel Cells | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Hydro | 79.01 | 79.01 | 79.34 | 79.34 | 79.40 | 79.40 | 79.40 | 79.40 |
| Nuclear | 94.84 | 94.84 | 88.96 | 85.49 | 76.65 | 73.18 | 56.37 | 50.11 |
| Other Fossil | 138.83 | 138.83 | 98.52 | 99.30 | 50.59 | 71.79 | 45.65 | 68.54 |
| Pumped Storage | 21.52 | 21.52 | 21.52 | 21.52 | 21.52 | 21.52 | 21.52 | 21.52 |
| Geothermal | 3.06 | 3.07 | 2.81 | 3.15 | 2.98 | 3.42 | 3.19 | 3.50 |
| Refuse | 3.68 | 3.68 | 3.88 | 3.88 | 4.13 | 4.13 | 4.27 | 4.27 |
| Wood Steam | 2.09 | 2.09 | 2.02 | 2.29 | 2.00 | 2.68 | 2.00 | 2.70 |
| Solar Thermal | 0.37 | 0.37 | 0.42 | 0.42 | 0.44 | 0.44 | 0.48 | 0.48 |
| Wind | 2.80 | 2.80 | 3.24 | 7.80 | 3.40 | 26.92 | 3.49 | 46.38 |
| Solar PV | 0.04 | 0.04 | 0.14 | 0.14 | 0.30 | 0.30 | 0.46 | 0.46 |
| Total | 762.66 | 759.18 | 779.28 | 790.77 | 822.51 | 840.11 | 892.11 | 914.20 |

Table A3. National Electricity Results (Continued)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|---|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Cumulative Retirements from 1995 (MW) | | | | | | | | |
| Combined Cycle | 0.00 | 0.00 | 3.26 | 0.26 | 6.01 | 1.42 | 6.05 | 1.42 |
| Coal | 0.23 | 0.23 | 16.05 | 13.42 | 22.83 | 14.77 | 23.69 | 15.29 |
| Combustion Turbines | 0.07 | 0.07 | 1.78 | 0.95 | 2.22 | 1.40 | 2.63 | 1.35 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Nuclear | 5.90 | 5.90 | 11.78 | 15.25 | 24.09 | 27.56 | 44.37 | 50.63 |
| Other Fossil | 0.99 | 0.99 | 41.30 | 39.46 | 88.17 | 66.97 | 93.11 | 70.22 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal | 0.00 | 0.00 | 0.42 | 0.42 | 0.64 | 0.64 | 0.88 | 0.88 |
| Refuse | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood Steam | 0.00 | 0.00 | 0.29 | 0.01 | 0.38 | 0.22 | 0.38 | 0.22 |
| Solar Thermal | 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 | 0.07 | 0.00 | 0.07 | 0.00 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 7.25 | 7.25 | 74.94 | 69.83 | 144.46 | 113.02 | 171.23 | 140.06 |
| Cumulative Additions from 1995 (MW) | | | | | | | | |
| Combined Cycle | 2.99 | 2.48 | 41.92 | 41.70 | 107.36 | 87.61 | 164.74 | 132.07 |
| Coal | 0.80 | 0.80 | 6.43 | 4.55 | 14.61 | 7.23 | 28.49 | 11.21 |
| Combustion Turbines | 11.76 | 8.77 | 50.00 | 54.64 | 89.01 | 77.89 | 113.25 | 110.44 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.51 | 0.51 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 |
| Nuclear | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 |
| Pumped Storage | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 |
| Geothermal | 0.06 | 0.06 | 0.23 | 0.57 | 0.62 | 1.06 | 1.07 | 1.38 |
| Refuse | 0.17 | 0.17 | 0.38 | 0.38 | 0.62 | 0.62 | 0.77 | 0.77 |
| Wood Steam | 0.14 | 0.14 | 0.35 | 0.35 | 0.42 | 0.95 | 0.42 | 0.97 |
| Solar Thermal | 0.02 | 0.02 | 0.06 | 0.06 | 0.09 | 0.09 | 0.12 | 0.12 |
| Wind | 0.93 | 0.93 | 1.36 | 5.92 | 1.60 | 25.04 | 1.68 | 44.51 |
| Solar PV | 0.02 | 0.02 | 0.13 | 0.13 | 0.29 | 0.29 | 0.45 | 0.45 |
| Total | 20.50 | 17.02 | 104.53 | 111.98 | 218.29 | 204.45 | 314.66 | 305.58 |
| Emissions from Electric Generators (thousand short tons, except Carbon in million metric tons) | | | | | | | | |
| Carbon | 566 | 575 | 608 | 575 | 648 | 587 | 710 | 646 |
| SO ₂ | 10223 | 10320 | 9774 | 9746 | 8997 | 9024 | 9067 | 9053 |
| NO _x | 4226 | 4368 | 3548 | 3529 | 3458 | 3448 | 3539 | 3625 |
| Total US Carbon Emissions | 1533 | 1541 | 1646 | 1613 | 1756 | 1697 | 1868 | 1808 |

¹ Includes co-firing as well as direct combustion.

Table A3. National Electricity Results (Continued)

| Electricity Prices (1997 Dollars/MWh) | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| National Cost of Generation² | | | | | | | | |
| Residential | 43.4 | 24.4 | 41.1 | 24.0 | 38.4 | 22.1 | 35.0 | 22.3 |
| Commercial | 45.1 | 25.5 | 42.2 | 25.3 | 39.2 | 23.0 | 36.0 | 23.2 |
| Industrial | 29.7 | 22.9 | 29.1 | 22.4 | 28.5 | 20.6 | 26.9 | 21.1 |
| Total | 39.5 | 24.3 | 37.6 | 23.9 | 35.5 | 21.9 | 32.7 | 22.2 |
| Stranded Costs | | | | | | | | |
| Net Generating Assets | | | | | | | | |
| Residential | n/a | 4.2 | n/a | 3.6 | n/a | 3.0 | n/a | -0.3 |
| Commercial | n/a | 3.8 | n/a | 3.2 | n/a | 2.7 | n/a | -0.2 |
| Industrial | n/a | 2.4 | n/a | 2.0 | n/a | 1.7 | n/a | -0.2 |
| Total | n/a | 3.5 | n/a | 2.9 | n/a | 2.5 | n/a | -0.3 |
| Regulatory | | | | | | | | |
| Residential | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 |
| Commercial | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 |
| Industrial | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 |
| Total | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 |
| Other Cost Considerations | | | | | | | | |
| Decommissioning | | | | | | | | |
| Residential | 1.3 | 1.3 | 1.1 | 1.1 | 0.9 | 0.9 | 0.7 | 0.7 |
| Commercial | 1.2 | 1.1 | 1.0 | 0.9 | 0.8 | 0.8 | 0.6 | 0.6 |
| Industrial | 0.8 | 0.8 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 |
| Total | 1.1 | 1.1 | 0.9 | 0.9 | 0.7 | 0.8 | 0.6 | 0.6 |
| Renewable Portfolio Standard Premium | | | | | | | | |
| Residential | n/a | 0.8 | n/a | 1.6 | n/a | 1.8 | n/a | 1.8 |
| Commercial | n/a | 0.8 | n/a | 1.6 | n/a | 1.8 | n/a | 1.8 |
| Industrial | n/a | 0.8 | n/a | 1.6 | n/a | 1.8 | n/a | 1.8 |
| Total | n/a | 0.8 | n/a | 1.6 | n/a | 1.8 | n/a | 1.8 |
| Ancillary Services | | | | | | | | |
| Residential | n/a | 0.7 | n/a | 2.7 | n/a | 3.7 | n/a | 4.3 |
| Commercial | n/a | 0.7 | n/a | 2.7 | n/a | 3.8 | n/a | 4.3 |
| Industrial | n/a | 0.7 | n/a | 2.4 | n/a | 3.4 | n/a | 3.9 |
| Total | n/a | 0.7 | n/a | 2.6 | n/a | 3.6 | n/a | 4.2 |
| Final Delivered Prices | | | | | | | | |
| Generation | | | | | | | | |
| Residential | 45.5 | 28.1 | 42.9 | 30.1 | 39.9 | 29.2 | 36.1 | 29.6 |
| Commercial | 47.0 | 28.9 | 43.8 | 31.2 | 40.5 | 29.9 | 36.9 | 30.3 |
| Industrial | 31.0 | 25.7 | 30.2 | 27.5 | 29.4 | 26.7 | 27.6 | 27.5 |
| Total | 41.3 | 27.6 | 39.1 | 29.7 | 36.7 | 28.6 | 33.6 | 29.2 |
| Transmission | | | | | | | | |
| Residential | 7.3 | 7.5 | 8.0 | 8.0 | 7.5 | 7.4 | 7.0 | 6.9 |
| Commercial | 5.8 | 6.0 | 6.2 | 6.1 | 5.7 | 5.6 | 5.4 | 5.2 |
| Industrial | 3.5 | 3.6 | 4.0 | 4.0 | 3.8 | 3.8 | 3.6 | 3.5 |
| Total | 5.6 | 5.8 | 6.2 | 6.2 | 5.8 | 5.7 | 5.4 | 5.4 |
| Distribution³ | | | | | | | | |
| Residential | 28.9 | 33.0 | 30.2 | 31.4 | 30.7 | 29.1 | 30.5 | 25.4 |
| Commercial | 19.3 | 23.1 | 19.7 | 21.2 | 19.6 | 19.2 | 19.5 | 16.2 |
| Industrial | 9.6 | 11.9 | 10.2 | 11.4 | 10.7 | 10.7 | 10.8 | 8.9 |
| Total | 19.6 | 23.1 | 20.5 | 22.0 | 20.9 | 20.4 | 20.9 | 17.7 |
| Total Delivered Prices | | | | | | | | |
| Residential | 81.7 | 68.5 | 81.1 | 69.5 | 78.1 | 65.6 | 73.6 | 61.8 |
| Commercial | 72.1 | 57.9 | 69.7 | 58.5 | 65.8 | 54.6 | 61.9 | 51.7 |
| Industrial | 44.0 | 41.2 | 44.4 | 42.9 | 43.9 | 41.1 | 42.0 | 39.9 |
| Total | 66.5 | 56.5 | 65.8 | 57.8 | 63.3 | 54.7 | 60.0 | 52.2 |

² Generation cost is cost-of-service for the Reference Case and marginal cost for Competitive Case.

³ Includes net stranded generating asset recovery charge in the Competitive Case.

Table A3. National Electricity Results (Continued)

Electricity Expenditures (Billion 1997 Dollars)

Actual Expenditures

| | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Residential | 92.7 | 80.4 | 99.7 | 87.8 | 103.5 | 88.7 | 105.5 | 90.7 |
| Commercial | 77.4 | 63.9 | 80.1 | 67.9 | 81.3 | 66.5 | 81.7 | 67.1 |
| Industrial | 45.6 | 42.7 | 49.0 | 45.6 | 52.2 | 44.9 | 52.7 | 45.3 |
| Total ⁴ | 216.9 | 188.2 | 231.0 | 203.2 | 240.1 | 202.8 | 243.8 | 206.4 |
| Normalized Expenditures to Reference Case Demands | | | | | | | | |
| Residential | 92.7 | 77.7 | 99.7 | 85.4 | 103.5 | 86.9 | 105.5 | 88.7 |
| Commercial | 77.4 | 62.2 | 80.1 | 67.3 | 81.3 | 67.5 | 81.7 | 68.3 |
| Industrial | 45.6 | 42.7 | 49.0 | 47.3 | 52.2 | 48.9 | 52.7 | 50.1 |
| Total ⁴ | 216.9 | 184.3 | 231.0 | 203.1 | 240.1 | 207.6 | 243.8 | 212.2 |

⁴ Includes "Other"

Stranded Generating Assets - Net at Company Level (Billion 1997 Dollars)

| Region | Surplus | Stranded |
|----------------|---------|----------|
| ECAR | 1.04 | 16.56 |
| ERCOT | 0.15 | 12.96 |
| MAAC | 0.28 | 7.78 |
| MAIN | 0.17 | 10.13 |
| MAPP | 0.11 | 2.35 |
| NEPX | 0.20 | 5.81 |
| NYPP | 0.01 | 6.89 |
| FRCC/FL | 0.31 | 3.08 |
| SERC | 1.38 | 13.32 |
| SPP/N | 0.61 | 1.35 |
| SPP/SE | 0.67 | 5.45 |
| SPP/WC | 0.75 | 0.15 |
| WSCC/AZN | 0.32 | 1.46 |
| WSCC/CNV | 1.75 | 3.29 |
| WSCC/NWP | 6.42 | 1.53 |
| WSCC/RMPA | 0.98 | 0.37 |
| National Total | 15.15 | 92.47 |

Table A4. Regional Results for the East Central Area Reliability Coordination Agreement (ECAR)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 515 | 525 | 546 | 546 | 583 | 569 | 617 | 601 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 471 | 490 | 491 | 491 | 476 | 482 | 506 | 508 |
| Gas | 18 | 14 | 31 | 26 | 105 | 62 | 123 | 77 |
| Oil | 4 | 2 | 4 | 0 | 4 | 0 | 4 | 0 |
| Hydro | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Nuclear | 52 | 53 | 54 | 48 | 29 | 24 | 16 | 17 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wood Steam ¹ | 2 | 13 | 2 | 25 | 2 | 24 | 2 | 26 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 551 | 575 | 585 | 593 | 620 | 597 | 655 | 635 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 2.17 | 2.17 | 4.29 | 3.88 | 13.11 | 8.67 | 18.90 | 11.60 |
| Coal | 84.51 | 84.51 | 76.63 | 76.78 | 73.20 | 75.97 | 73.20 | 75.97 |
| Combustion Turbines | 7.76 | 7.40 | 17.25 | 19.29 | 25.83 | 25.64 | 28.92 | 30.90 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 |
| Nuclear | 7.59 | 7.59 | 7.59 | 6.59 | 4.09 | 3.09 | 1.99 | 1.99 |
| Other Fossil | 3.66 | 3.66 | 2.33 | 3.52 | 2.33 | 3.52 | 2.33 | 3.52 |
| Pumped Storage | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.11 | 0.11 | 0.12 | 0.12 | 0.14 | 0.14 | 0.15 | 0.15 |
| Wood Steam | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.18 | 0.00 | 0.83 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 111.10 | 110.74 | 113.51 | 115.50 | 124.00 | 122.50 | 130.79 | 130.26 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 1051 | 1098 | 811 | 816 | 784 | 790 | 831 | 836 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 0 | 0 | 1 | 1 | 4 | 1 | 5 | 2 |
| Inter-regional Exports (economy) | 11 | 24 | 15 | 24 | 15 | 13 | 18 | 21 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 40.1 | 21.7 | 37.9 | 24.1 | 34.7 | 24.1 | 31.1 | 24.5 |
| Commercial | 43.9 | 22.4 | 40.2 | 24.7 | 36.2 | 25.0 | 32.4 | 25.5 |
| Industrial | 28.0 | 20.8 | 27.5 | 23.0 | 26.7 | 22.9 | 24.7 | 23.2 |
| Total | 36.3 | 21.5 | 34.3 | 23.8 | 31.8 | 23.9 | 28.8 | 24.2 |
| Transmission | | | | | | | | |
| Residential | 6.7 | 6.5 | 8.4 | 8.1 | 7.1 | 6.9 | 6.1 | 6.0 |
| Commercial | 5.2 | 5.1 | 6.3 | 6.1 | 5.3 | 5.1 | 4.7 | 4.5 |
| Industrial | 3.2 | 3.1 | 4.0 | 3.9 | 3.5 | 3.5 | 3.1 | 3.0 |
| Total | 4.9 | 4.8 | 6.1 | 5.9 | 5.1 | 5.1 | 4.5 | 4.5 |
| Distribution ³ | | | | | | | | |
| Residential | 25.3 | 30.4 | 25.9 | 28.5 | 25.9 | 25.9 | 25.4 | 21.5 |
| Commercial | 16.9 | 22.0 | 17.0 | 20.0 | 16.7 | 17.8 | 16.5 | 13.8 |
| Industrial | 8.4 | 11.5 | 9.0 | 11.0 | 9.4 | 10.3 | 9.4 | 7.8 |
| Total | 16.1 | 20.5 | 16.6 | 19.3 | 16.7 | 17.6 | 16.6 | 14.2 |
| Total Delivered Prices | | | | | | | | |
| Residential | 72.1 | 59.4 | 72.2 | 61.4 | 67.7 | 57.7 | 62.6 | 52.8 |
| Commercial | 66.0 | 50.3 | 63.4 | 51.5 | 58.2 | 48.6 | 53.6 | 44.4 |
| Industrial | 39.6 | 36.3 | 40.5 | 38.6 | 39.6 | 37.4 | 37.1 | 34.7 |
| Total | 57.3 | 47.6 | 57.0 | 49.7 | 53.7 | 47.2 | 49.9 | 43.5 |

Table A5. Regional Results for the Electric Reliability Council of Texas (ERCOT)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 231 | 237 | 251 | 252 | 274 | 266 | 296 | 287 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 114 | 118 | 117 | 117 | 117 | 118 | 118 | 118 |
| Gas | 89 | 88 | 106 | 99 | 130 | 104 | 150 | 121 |
| Oil | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
| Hydro | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nuclear | 35 | 36 | 36 | 37 | 36 | 37 | 36 | 37 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wood Steam ¹ | 0 | 3 | 0 | 6 | 0 | 6 | 0 | 6 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 7 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 242 | 248 | 262 | 263 | 286 | 273 | 308 | 293 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 3.29 | 3.28 | 12.50 | 11.08 | 19.50 | 17.39 | 22.96 | 20.93 |
| Coal | 15.77 | 15.77 | 16.10 | 15.93 | 16.10 | 15.93 | 16.24 | 15.93 |
| Combustion Turbines | 4.55 | 3.59 | 7.05 | 6.17 | 8.32 | 7.96 | 11.81 | 10.67 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Nuclear | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 | 4.80 |
| Other Fossil | 29.77 | 29.77 | 22.52 | 22.88 | 14.97 | 17.56 | 12.34 | 17.20 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.06 | 0.06 | 0.08 | 0.08 | 0.11 | 0.11 | 0.13 | 0.13 |
| Wood Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.19 | 0.19 | 0.19 | 0.55 | 0.12 | 2.23 | 0.12 | 2.87 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.03 |
| Total | 58.94 | 57.97 | 63.76 | 62.02 | 64.45 | 66.52 | 68.94 | 73.07 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 310 | 319 | 257 | 261 | 240 | 235 | 239 | 234 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inter-regional Exports (economy) | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 52.3 | 31.0 | 50.9 | 30.9 | 47.5 | 30.9 | 42.1 | 31.0 |
| Commercial | 50.1 | 30.8 | 47.8 | 30.9 | 44.1 | 30.8 | 40.2 | 31.1 |
| Industrial | 32.6 | 29.6 | 33.6 | 29.4 | 33.4 | 29.5 | 30.9 | 29.8 |
| Total | 45.3 | 30.5 | 44.4 | 30.4 | 41.9 | 30.4 | 38.0 | 30.7 |
| Transmission | | | | | | | | |
| Residential | 4.4 | 4.6 | 4.5 | 4.5 | 4.4 | 4.3 | 4.1 | 4.0 |
| Commercial | 3.2 | 3.3 | 3.2 | 3.1 | 3.0 | 2.9 | 2.9 | 2.8 |
| Industrial | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| Total | 3.2 | 3.3 | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.0 |
| Distribution ³ | | | | | | | | |
| Residential | 18.8 | 29.1 | 20.6 | 27.0 | 21.1 | 24.8 | 20.5 | 16.6 |
| Commercial | 11.3 | 18.3 | 12.3 | 16.7 | 12.4 | 15.0 | 12.3 | 9.9 |
| Industrial | 6.2 | 10.9 | 7.1 | 10.3 | 7.7 | 9.6 | 7.6 | 6.2 |
| Total | 12.4 | 20.0 | 13.8 | 18.7 | 14.2 | 17.3 | 14.0 | 11.7 |
| Total Delivered Prices | | | | | | | | |
| Residential | 75.4 | 65.5 | 76.0 | 63.1 | 73.0 | 60.7 | 66.7 | 52.3 |
| Commercial | 64.6 | 53.3 | 63.2 | 51.5 | 59.5 | 49.5 | 55.4 | 44.4 |
| Industrial | 40.7 | 43.3 | 42.7 | 42.4 | 43.1 | 41.7 | 40.5 | 38.5 |
| Total | 60.9 | 54.7 | 61.5 | 53.1 | 59.3 | 51.6 | 55.1 | 46.0 |

Table A6. Regional Results for the Mid-Atlantic Area Council (MAAC)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 248 | 254 | 264 | 264 | 281 | 275 | 297 | 290 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 127 | 130 | 124 | 123 | 110 | 124 | 117 | 132 |
| Gas | 18 | 16 | 44 | 50 | 90 | 63 | 135 | 106 |
| Oil | 10 | 5 | 5 | 2 | 4 | 3 | 4 | 4 |
| Hydro | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Nuclear | 89 | 91 | 90 | 93 | 82 | 84 | 47 | 31 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Wood Steam ¹ | 0 | 3 | 0 | 6 | 0 | 6 | 0 | 6 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 9 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 254 | 253 | 272 | 282 | 295 | 291 | 311 | 296 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 3.70 | 3.70 | 7.31 | 8.09 | 14.53 | 10.85 | 22.92 | 16.63 |
| Coal | 20.30 | 20.30 | 19.95 | 19.95 | 16.97 | 19.79 | 16.84 | 19.79 |
| Combustion Turbines | 9.39 | 9.39 | 12.05 | 13.05 | 14.83 | 14.31 | 17.55 | 16.45 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| Nuclear | 12.19 | 12.19 | 12.19 | 12.19 | 9.97 | 9.97 | 6.23 | 4.04 |
| Other Fossil | 8.96 | 8.96 | 3.95 | 5.26 | 2.37 | 5.26 | 2.37 | 5.26 |
| Pumped Storage | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
| Wood Steam | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 1.20 | 0.00 | 3.57 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 58.26 | 58.26 | 59.17 | 62.27 | 62.39 | 65.10 | 69.62 | 69.45 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 300 | 293 | 201 | 197 | 169 | 193 | 178 | 211 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 6 | 14 | 4 | 3 | 1 | 2 | 0 | 10 |
| Inter-regional Exports (economy) | 0 | 2 | 1 | 11 | 3 | 9 | 3 | 8 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 55.0 | 30.5 | 49.3 | 33.8 | 44.2 | 31.1 | 40.8 | 32.6 |
| Commercial | 52.1 | 31.4 | 47.1 | 35.0 | 42.4 | 32.1 | 39.1 | 33.7 |
| Industrial | 42.2 | 29.0 | 38.8 | 32.3 | 36.4 | 29.6 | 34.8 | 31.1 |
| Total | 50.4 | 30.4 | 45.6 | 33.8 | 41.4 | 31.0 | 38.5 | 32.6 |
| Transmission | | | | | | | | |
| Residential | 7.1 | 6.8 | 8.1 | 7.3 | 7.5 | 6.9 | 7.1 | 6.6 |
| Commercial | 5.6 | 5.3 | 6.3 | 5.6 | 5.8 | 5.3 | 5.5 | 5.2 |
| Industrial | 4.0 | 3.8 | 4.5 | 4.0 | 4.2 | 3.8 | 4.0 | 3.7 |
| Total | 5.7 | 5.4 | 6.5 | 5.8 | 6.0 | 5.5 | 5.7 | 5.4 |
| Distribution ³ | | | | | | | | |
| Residential | 36.3 | 40.9 | 37.3 | 38.6 | 37.9 | 35.2 | 38.7 | 31.6 |
| Commercial | 24.4 | 28.8 | 25.0 | 27.1 | 25.5 | 24.6 | 26.0 | 21.2 |
| Industrial | 14.5 | 17.4 | 14.9 | 16.3 | 15.1 | 14.9 | 15.5 | 12.7 |
| Total | 25.9 | 30.1 | 26.8 | 28.6 | 27.2 | 26.2 | 28.0 | 23.2 |
| Total Delivered Prices | | | | | | | | |
| Residential | 98.4 | 79.0 | 94.6 | 80.4 | 89.5 | 73.8 | 86.6 | 71.4 |
| Commercial | 82.1 | 66.3 | 78.5 | 68.4 | 73.7 | 62.7 | 70.6 | 60.7 |
| Industrial | 60.6 | 51.0 | 58.1 | 53.3 | 55.7 | 49.0 | 54.3 | 48.1 |
| Total | 82.0 | 66.8 | 78.9 | 69.0 | 74.6 | 63.5 | 72.2 | 61.8 |

Table A7. Regional Results for the Mid-America Interconnected Network, Inc. (MAIN)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 222 | 228 | 235 | 237 | 250 | 247 | 264 | 261 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 149 | 148 | 150 | 153 | 162 | 161 | 172 | 178 |
| Gas | 3 | 2 | 6 | 3 | 12 | 4 | 23 | 7 |
| Oil | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Nuclear | 87 | 88 | 89 | 85 | 85 | 82 | 72 | 75 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Steam ¹ | 0 | 5 | 0 | 8 | 0 | 9 | 0 | 9 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 244 | 248 | 250 | 254 | 264 | 259 | 272 | 274 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 0.29 | 0.29 | 1.24 | 0.60 | 2.77 | 1.61 | 4.88 | 2.78 |
| Coal | 27.81 | 27.81 | 25.11 | 27.02 | 25.11 | 26.88 | 25.29 | 26.88 |
| Combustion Turbines | 6.00 | 4.87 | 13.73 | 15.22 | 17.14 | 18.27 | 18.94 | 20.87 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Nuclear | 13.11 | 13.11 | 13.11 | 11.57 | 12.34 | 10.80 | 9.51 | 9.51 |
| Other Fossil | 4.76 | 4.76 | 2.46 | 1.93 | 0.29 | 1.40 | 0.29 | 1.40 |
| Pumped Storage | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 |
| Wood Steam | 0.04 | 0.04 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 53.35 | 52.22 | 57.05 | 57.76 | 59.07 | 60.37 | 60.34 | 62.85 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 320 | 319 | 235 | 236 | 254 | 241 | 267 | 277 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 5 | 2 | 9 | 3 | 10 | 4 | 15 | 8 |
| Inter-regional Exports (economy) | 13 | 8 | 11 | 7 | 12 | 8 | 10 | 13 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 51.6 | 24.3 | 50.3 | 27.8 | 45.1 | 27.4 | 39.0 | 28.6 |
| Commercial | 47.3 | 24.8 | 46.1 | 28.2 | 41.4 | 27.9 | 36.3 | 29.5 |
| Industrial | 33.0 | 23.0 | 33.7 | 26.5 | 32.0 | 25.9 | 28.9 | 27.2 |
| Total | 43.5 | 24.0 | 42.9 | 27.5 | 39.1 | 27.0 | 34.4 | 28.3 |
| Transmission | | | | | | | | |
| Residential | 5.5 | 5.8 | 6.8 | 6.8 | 5.7 | 5.7 | 4.9 | 4.9 |
| Commercial | 4.0 | 4.1 | 4.7 | 4.7 | 4.0 | 4.0 | 3.5 | 3.5 |
| Industrial | 2.5 | 2.6 | 3.1 | 3.2 | 2.8 | 2.8 | 2.4 | 2.5 |
| Total | 4.0 | 4.1 | 4.8 | 4.9 | 4.1 | 4.2 | 3.6 | 3.6 |
| Distribution ³ | | | | | | | | |
| Residential | 28.7 | 35.6 | 29.6 | 33.9 | 29.2 | 30.8 | 28.6 | 24.8 |
| Commercial | 17.0 | 23.2 | 17.6 | 21.8 | 17.5 | 19.7 | 17.3 | 14.7 |
| Industrial | 9.9 | 14.6 | 10.7 | 14.0 | 11.1 | 13.1 | 11.0 | 9.3 |
| Total | 18.2 | 24.2 | 19.1 | 23.1 | 19.1 | 21.2 | 18.9 | 16.4 |
| Total Delivered Prices | | | | | | | | |
| Residential | 85.8 | 66.5 | 86.7 | 69.3 | 80.0 | 64.7 | 72.4 | 59.0 |
| Commercial | 68.2 | 52.9 | 68.5 | 55.5 | 63.0 | 52.3 | 57.1 | 48.3 |
| Industrial | 45.3 | 41.1 | 47.5 | 44.4 | 45.9 | 42.5 | 42.3 | 39.6 |
| Total | 65.7 | 53.2 | 66.8 | 56.2 | 62.3 | 53.1 | 56.9 | 49.0 |

Table A8. Regional Results for the Mid-continent Area Power Pool (MAPP)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 141 | 145 | 150 | 152 | 161 | 160 | 171 | 169 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 111 | 117 | 125 | 132 | 131 | 139 | 135 | 152 |
| Gas | 2 | 2 | 4 | 2 | 10 | 4 | 25 | 9 |
| Oil | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nuclear | 24 | 24 | 12 | 12 | 11 | 11 | 8 | 0 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Wood Steam ¹ | 0 | 3 | 1 | 8 | 1 | 8 | 1 | 4 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 12 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 153 | 161 | 158 | 169 | 170 | 178 | 185 | 190 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 0.42 | 0.42 | 0.75 | 0.57 | 1.57 | 1.86 | 4.38 | 2.65 |
| Coal | 21.68 | 21.68 | 20.29 | 20.94 | 20.26 | 20.92 | 20.29 | 20.92 |
| Combustion Turbines | 4.97 | 4.97 | 5.69 | 5.72 | 7.82 | 7.41 | 8.87 | 9.39 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 |
| Nuclear | 3.35 | 3.35 | 1.57 | 1.57 | 1.03 | 1.03 | 1.03 | 0.00 |
| Other Fossil | 0.61 | 0.61 | 0.30 | 0.56 | 0.30 | 0.56 | 0.30 | 0.56 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.20 | 0.20 | 0.23 | 0.23 | 0.27 | 0.27 | 0.29 | 0.29 |
| Wood Steam | 0.11 | 0.11 | 0.21 | 0.23 | 0.13 | 0.23 | 0.13 | 0.23 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.52 | 0.52 | 0.68 | 0.68 | 0.68 | 0.69 | 0.68 | 4.28 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 35.27 | 35.27 | 33.13 | 33.90 | 35.46 | 36.37 | 39.37 | 41.70 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 235 | 247 | 262 | 288 | 277 | 294 | 284 | 315 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 2 | 1 | 8 | 1 | 8 | 1 | 6 | 1 |
| Inter-regional Exports (economy) | 7 | 8 | 7 | 9 | 9 | 12 | 12 | 16 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 36.0 | 17.8 | 34.3 | 21.7 | 32.9 | 22.4 | 28.6 | 23.7 |
| Commercial | 35.5 | 18.0 | 33.0 | 22.2 | 31.0 | 22.9 | 27.9 | 24.3 |
| Industrial | 25.8 | 16.9 | 25.6 | 20.3 | 25.2 | 20.9 | 23.6 | 23.0 |
| Total | 31.9 | 17.5 | 30.6 | 21.3 | 29.4 | 21.9 | 26.5 | 23.5 |
| Transmission | | | | | | | | |
| Residential | 8.9 | 9.1 | 8.6 | 8.8 | 7.8 | 8.1 | 7.2 | 7.3 |
| Commercial | 6.5 | 6.7 | 6.0 | 6.2 | 5.3 | 5.5 | 5.0 | 5.0 |
| Industrial | 4.3 | 4.4 | 4.3 | 4.4 | 4.0 | 4.1 | 3.8 | 3.7 |
| Total | 6.6 | 6.8 | 6.3 | 6.5 | 5.8 | 6.0 | 5.4 | 5.4 |
| Distribution ³ | | | | | | | | |
| Residential | 25.7 | 29.0 | 26.5 | 27.7 | 27.0 | 26.0 | 26.3 | 22.5 |
| Commercial | 16.8 | 18.1 | 16.8 | 16.6 | 16.6 | 15.2 | 16.5 | 13.7 |
| Industrial | 10.1 | 10.7 | 10.6 | 10.4 | 11.0 | 9.9 | 11.0 | 9.2 |
| Total | 17.6 | 19.6 | 18.2 | 18.6 | 18.5 | 17.6 | 18.4 | 15.7 |
| Total Delivered Prices | | | | | | | | |
| Residential | 70.5 | 56.8 | 69.3 | 58.9 | 67.8 | 57.3 | 62.1 | 54.1 |
| Commercial | 58.8 | 43.6 | 55.7 | 45.7 | 52.9 | 44.3 | 49.3 | 43.7 |
| Industrial | 40.2 | 32.9 | 40.5 | 35.8 | 40.2 | 35.7 | 38.5 | 36.5 |
| Total | 56.1 | 44.7 | 55.1 | 47.2 | 53.8 | 46.2 | 50.2 | 45.3 |

Table A9. Regional Results for the Northeast Power Coordinating Council/ New England Power Exchange (NEPX)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 115 | 117 | 121 | 121 | 128 | 125 | 135 | 133 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 20 | 22 | 20 | 22 | 19 | 20 | 18 | 16 |
| Gas | 24 | 22 | 50 | 43 | 62 | 60 | 82 | 79 |
| Oil | 25 | 24 | 8 | 7 | 8 | 1 | 2 | 1 |
| Hydro | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Nuclear | 29 | 30 | 26 | 27 | 21 | 22 | 17 | 13 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| Wood Steam ¹ | 3 | 3 | 4 | 5 | 4 | 5 | 4 | 4 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 5 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 114 | 114 | 120 | 115 | 127 | 121 | 136 | 131 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 2.13 | 2.13 | 5.60 | 4.93 | 7.91 | 7.89 | 11.10 | 10.84 |
| Coal | 3.05 | 3.05 | 2.84 | 3.05 | 2.84 | 3.05 | 2.84 | 3.05 |
| Combustion Turbines | 1.78 | 1.78 | 1.78 | 1.78 | 2.08 | 1.83 | 2.69 | 2.91 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| Nuclear | 4.32 | 4.32 | 2.78 | 2.78 | 2.78 | 2.78 | 2.28 | 1.16 |
| Other Fossil | 8.14 | 8.14 | 7.12 | 5.45 | 1.88 | 1.84 | 1.11 | 0.87 |
| Pumped Storage | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.63 | 0.63 | 0.65 | 0.65 | 0.67 | 0.67 | 0.67 | 0.67 |
| Wood Steam | 0.76 | 0.76 | 0.54 | 0.81 | 0.60 | 0.67 | 0.60 | 0.67 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.02 | 0.02 | 0.12 | 0.19 | 0.27 | 0.45 | 0.27 | 1.83 |
| Solar PV | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.05 | 0.05 | 0.05 |
| Total | 24.49 | 24.49 | 25.11 | 23.33 | 22.75 | 22.90 | 25.28 | 25.72 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 76 | 78 | 44 | 48 | 39 | 34 | 29 | 25 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 0 | 3 | 0 | 5 | 2 | 2 | 1 | 0 |
| Inter-regional Exports (economy) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 63.7 | 35.4 | 59.0 | 37.0 | 51.3 | 36.7 | 43.2 | 32.1 |
| Commercial | 62.0 | 35.4 | 57.9 | 37.3 | 49.9 | 37.7 | 42.0 | 32.4 |
| Industrial | 51.3 | 34.0 | 48.8 | 35.4 | 43.3 | 34.8 | 37.1 | 30.7 |
| Total | 60.1 | 35.1 | 56.2 | 36.7 | 48.8 | 36.5 | 41.3 | 31.8 |
| Transmission | | | | | | | | |
| Residential | 10.7 | 10.7 | 10.5 | 10.2 | 9.8 | 9.2 | 9.2 | 8.7 |
| Commercial | 9.1 | 9.1 | 9.0 | 8.7 | 8.4 | 7.8 | 7.9 | 7.3 |
| Industrial | 6.8 | 6.9 | 6.9 | 6.6 | 6.5 | 6.1 | 6.2 | 5.7 |
| Total | 9.2 | 9.2 | 9.2 | 8.9 | 8.6 | 8.1 | 8.1 | 7.6 |
| Distribution ³ | | | | | | | | |
| Residential | 38.8 | 46.6 | 41.1 | 44.2 | 41.2 | 40.9 | 41.5 | 34.8 |
| Commercial | 29.0 | 36.2 | 30.6 | 34.0 | 30.7 | 31.4 | 31.1 | 25.9 |
| Industrial | 18.4 | 23.4 | 19.5 | 22.0 | 19.9 | 20.6 | 20.2 | 17.0 |
| Total | 30.5 | 37.5 | 32.4 | 35.6 | 32.7 | 33.1 | 33.3 | 28.1 |
| Total Delivered Prices | | | | | | | | |
| Residential | 113.2 | 93.5 | 110.6 | 92.2 | 102.2 | 87.6 | 93.8 | 76.2 |
| Commercial | 100.0 | 81.5 | 97.5 | 80.7 | 89.0 | 77.7 | 81.0 | 66.3 |
| Industrial | 76.6 | 65.1 | 75.2 | 64.8 | 69.7 | 62.2 | 63.5 | 54.0 |
| Total | 99.9 | 82.6 | 97.8 | 82.0 | 90.1 | 78.5 | 82.6 | 68.1 |

Table A10. Regional Results for the Northeast Power Coordinating Council/ New York Power Pool (NYPP)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 140 | 143 | 148 | 149 | 157 | 155 | 164 | 163 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 12 | 27 | 20 | 28 | 25 | 27 | 27 | 27 |
| Gas | 44 | 34 | 61 | 43 | 82 | 72 | 95 | 82 |
| Oil | 26 | 13 | 13 | 2 | 2 | 1 | 2 | 1 |
| Hydro | 29 | 29 | 31 | 31 | 32 | 32 | 32 | 32 |
| Nuclear | 34 | 35 | 27 | 22 | 14 | 9 | 8 | 9 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Wood Steam ¹ | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 147 | 141 | 155 | 130 | 157 | 144 | 166 | 156 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 4.62 | 4.62 | 5.77 | 5.75 | 11.30 | 10.03 | 15.20 | 11.69 |
| Coal | 3.98 | 3.98 | 3.98 | 3.76 | 3.82 | 3.73 | 3.68 | 3.73 |
| Combustion Turbines | 4.10 | 4.10 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 4.63 | 4.63 | 4.91 | 4.91 | 4.96 | 4.96 | 4.96 | 4.96 |
| Nuclear | 4.91 | 4.91 | 3.11 | 2.18 | 2.03 | 1.10 | 1.10 | 1.10 |
| Other Fossil | 12.39 | 12.39 | 8.40 | 8.73 | 1.21 | 3.15 | 1.21 | 3.15 |
| Pumped Storage | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Wood Steam | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.07 | 0.04 | 0.07 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.18 | 0.01 | 0.57 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 36.28 | 36.28 | 31.92 | 31.09 | 29.06 | 28.91 | 31.90 | 30.95 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 56 | 67 | 54 | 43 | 42 | 36 | 44 | 38 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 0 | 12 | 2 | 28 | 9 | 17 | 6 | 10 |
| Inter-regional Exports (economy) | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 0 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 68.3 | 32.1 | 63.9 | 32.4 | 60.0 | 30.8 | 53.0 | 28.0 |
| Commercial | 65.8 | 33.4 | 60.9 | 34.0 | 59.1 | 32.4 | 52.8 | 29.3 |
| Industrial | 33.5 | 29.3 | 32.8 | 29.5 | 34.3 | 28.2 | 30.8 | 25.6 |
| Total | 59.3 | 32.0 | 55.2 | 32.3 | 53.2 | 30.6 | 47.3 | 27.7 |
| Transmission | | | | | | | | |
| Residential | 18.2 | 19.4 | 17.5 | 18.0 | 16.1 | 16.0 | 15.6 | 15.4 |
| Commercial | 14.5 | 15.5 | 13.9 | 14.2 | 12.9 | 12.8 | 12.5 | 12.2 |
| Industrial | 8.0 | 8.6 | 8.4 | 8.7 | 8.7 | 8.7 | 8.6 | 8.4 |
| Total | 14.5 | 15.5 | 14.1 | 14.5 | 13.3 | 13.3 | 12.9 | 12.8 |
| Distribution ³ | | | | | | | | |
| Residential | 48.9 | 58.3 | 48.7 | 53.5 | 48.3 | 47.7 | 48.1 | 40.7 |
| Commercial | 37.5 | 45.5 | 37.3 | 41.0 | 37.1 | 36.6 | 37.0 | 31.3 |
| Industrial | 11.7 | 17.8 | 13.1 | 17.2 | 14.5 | 16.5 | 14.7 | 12.3 |
| Total | 36.0 | 44.1 | 36.4 | 40.6 | 36.4 | 36.6 | 36.5 | 31.3 |
| Total Delivered Prices | | | | | | | | |
| Residential | 135.4 | 110.6 | 130.1 | 104.6 | 124.4 | 95.3 | 116.6 | 84.8 |
| Commercial | 117.8 | 95.3 | 112.2 | 89.9 | 109.1 | 82.5 | 102.3 | 73.4 |
| Industrial | 53.1 | 56.5 | 54.3 | 56.1 | 57.5 | 54.1 | 54.0 | 47.0 |
| Total | 109.7 | 92.4 | 105.8 | 88.2 | 102.8 | 81.2 | 96.8 | 72.4 |

Table A11. Regional Results for the Florida Reliability Coordinating (FRCC)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 176 | 180 | 193 | 193 | 211 | 208 | 230 | 225 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 64 | 73 | 86 | 85 | 107 | 97 | 135 | 107 |
| Gas | 44 | 36 | 66 | 65 | 82 | 83 | 84 | 103 |
| Oil | 34 | 22 | 9 | 5 | 4 | 2 | 3 | 2 |
| Hydro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nuclear | 29 | 29 | 29 | 29 | 22 | 23 | 12 | 13 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Wood Steam ¹ | 0 | 2 | 0 | 3 | 0 | 4 | 0 | 2 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 175 | 167 | 194 | 193 | 219 | 213 | 239 | 233 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 5.59 | 5.15 | 11.04 | 10.23 | 14.48 | 16.13 | 16.65 | 21.13 |
| Coal | 9.94 | 9.94 | 13.18 | 12.27 | 15.71 | 13.21 | 19.57 | 14.22 |
| Combustion Turbines | 5.88 | 5.59 | 8.95 | 9.82 | 11.66 | 10.86 | 12.35 | 11.26 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nuclear | 3.82 | 3.82 | 3.82 | 3.82 | 3.01 | 3.01 | 1.68 | 1.68 |
| Other Fossil | 13.32 | 13.32 | 8.59 | 8.75 | 4.17 | 5.29 | 4.17 | 5.29 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Wood Steam | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Solar Thermal | 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 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 39.38 | 38.65 | 46.42 | 45.73 | 49.87 | 49.33 | 55.26 | 54.41 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 226 | 219 | 166 | 174 | 148 | 166 | 144 | 169 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 11 | 23 | 10 | 11 | 4 | 5 | 3 | 3 |
| Inter-regional Exports (economy) | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 45.2 | 31.4 | 44.1 | 34.1 | 42.4 | 32.9 | 39.8 | 32.7 |
| Commercial | 41.6 | 31.8 | 40.9 | 34.8 | 40.0 | 33.4 | 38.0 | 33.2 |
| Industrial | 37.5 | 29.5 | 37.5 | 32.0 | 36.7 | 31.0 | 34.9 | 30.8 |
| Total | 43.0 | 31.4 | 42.2 | 34.2 | 40.9 | 32.9 | 38.6 | 32.7 |
| Transmission | | | | | | | | |
| Residential | 7.0 | 7.1 | 7.1 | 7.0 | 6.8 | 6.6 | 6.7 | 6.5 |
| Commercial | 5.1 | 5.3 | 5.0 | 4.9 | 4.6 | 4.5 | 4.4 | 4.3 |
| Industrial | 3.7 | 3.8 | 3.7 | 3.7 | 3.5 | 3.4 | 3.5 | 3.3 |
| Total | 5.9 | 6.1 | 5.9 | 5.9 | 5.6 | 5.5 | 5.5 | 5.3 |
| Distribution ³ | | | | | | | | |
| Residential | 28.8 | 31.4 | 31.3 | 31.4 | 32.3 | 29.7 | 32.3 | 28.0 |
| Commercial | 19.0 | 21.0 | 19.0 | 19.5 | 18.2 | 17.4 | 17.4 | 15.5 |
| Industrial | 10.5 | 12.4 | 11.1 | 11.8 | 11.2 | 10.9 | 11.4 | 9.8 |
| Total | 23.1 | 25.5 | 24.4 | 24.9 | 24.6 | 23.2 | 24.4 | 21.5 |
| Total Delivered Prices | | | | | | | | |
| Residential | 80.9 | 70.8 | 82.4 | 73.3 | 81.5 | 69.9 | 78.8 | 67.8 |
| Commercial | 65.8 | 58.9 | 64.9 | 60.0 | 62.7 | 56.0 | 59.9 | 53.7 |
| Industrial | 51.7 | 46.5 | 52.2 | 48.3 | 51.5 | 46.1 | 49.8 | 44.5 |
| Total | 72.0 | 63.7 | 72.5 | 65.7 | 71.1 | 62.3 | 68.5 | 60.3 |

Table A12. Regional Results for the Southeastern Electric Reliability Council (SERC)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 581 | 588 | 631 | 621 | 687 | 653 | 741 | 697 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 378 | 391 | 412 | 378 | 426 | 416 | 454 | 449 |
| Gas | 10 | 10 | 27 | 46 | 87 | 44 | 178 | 110 |
| Oil | 4 | 2 | 4 | 1 | 5 | 2 | 5 | 2 |
| Hydro | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| Nuclear | 187 | 192 | 183 | 189 | 166 | 171 | 106 | 103 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Wood Steam ¹ | 1 | 11 | 1 | 17 | 1 | 15 | 1 | 17 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 618 | 645 | 666 | 670 | 723 | 688 | 783 | 722 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 3.01 | 3.01 | 5.03 | 9.33 | 15.31 | 12.78 | 31.82 | 26.32 |
| Coal | 65.78 | 65.78 | 62.71 | 62.64 | 62.64 | 62.53 | 63.24 | 62.04 |
| Combustion Turbines | 13.34 | 13.15 | 20.51 | 21.07 | 27.69 | 25.22 | 31.87 | 33.83 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 11.87 | 11.87 | 11.93 | 11.93 | 11.93 | 11.93 | 11.93 | 11.93 |
| Nuclear | 25.47 | 25.47 | 24.71 | 24.71 | 21.34 | 21.34 | 14.27 | 13.44 |
| Other Fossil | 3.15 | 3.15 | 2.77 | 3.07 | 2.72 | 2.98 | 2.57 | 2.89 |
| Pumped Storage | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.29 | 0.29 | 0.34 | 0.34 | 0.39 | 0.39 | 0.42 | 0.42 |
| Wood Steam | 0.17 | 0.17 | 0.17 | 0.16 | 0.17 | 0.16 | 0.17 | 0.16 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.31 | 0.00 | 0.62 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 130.59 | 130.40 | 135.67 | 140.85 | 149.70 | 145.15 | 163.79 | 159.16 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 768 | 808 | 618 | 585 | 639 | 645 | 674 | 705 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 6 | 5 | 13 | 5 | 11 | 9 | 9 | 11 |
| Inter-regional Exports (economy) | 14 | 31 | 17 | 24 | 16 | 16 | 20 | 9 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 39.3 | 26.1 | 34.9 | 26.8 | 32.5 | 27.0 | 30.8 | 29.1 |
| Commercial | 42.4 | 26.4 | 37.1 | 27.1 | 34.3 | 27.6 | 32.5 | 29.5 |
| Industrial | 27.5 | 23.9 | 25.4 | 24.6 | 24.9 | 24.7 | 24.8 | 27.1 |
| Total | 35.9 | 25.4 | 32.1 | 26.1 | 30.3 | 26.4 | 29.2 | 28.5 |
| Transmission | | | | | | | | |
| Residential | 6.0 | 6.0 | 7.7 | 7.3 | 7.5 | 7.2 | 6.7 | 6.5 |
| Commercial | 4.5 | 4.4 | 5.6 | 5.1 | 5.4 | 5.1 | 4.9 | 4.6 |
| Industrial | 2.8 | 2.8 | 3.7 | 3.5 | 3.6 | 3.4 | 3.3 | 3.1 |
| Total | 4.5 | 4.4 | 5.7 | 5.4 | 5.5 | 5.4 | 5.0 | 4.9 |
| Distribution ³ | | | | | | | | |
| Residential | 27.0 | 30.1 | 28.9 | 29.6 | 30.3 | 28.0 | 30.8 | 25.4 |
| Commercial | 14.5 | 18.3 | 15.2 | 17.3 | 15.6 | 15.8 | 16.1 | 13.2 |
| Industrial | 8.2 | 9.9 | 8.9 | 9.7 | 9.6 | 9.3 | 10.0 | 8.2 |
| Total | 16.9 | 19.8 | 18.1 | 19.5 | 19.0 | 18.6 | 19.6 | 16.6 |
| Total Delivered Prices | | | | | | | | |
| Residential | 72.3 | 63.0 | 71.5 | 64.5 | 70.2 | 62.9 | 68.3 | 61.6 |
| Commercial | 61.4 | 49.9 | 57.9 | 50.3 | 55.4 | 49.3 | 53.5 | 48.0 |
| Industrial | 38.4 | 37.3 | 38.0 | 38.5 | 38.1 | 38.2 | 38.0 | 39.1 |
| Total | 57.2 | 50.4 | 55.9 | 51.8 | 54.9 | 51.1 | 53.8 | 50.7 |

Table A13. Regional Results for the Southwest Power Pool/ North (SPP/N)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 64 | 67 | 69 | 70 | 73 | 73 | 78 | 77 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 68 | 72 | 69 | 72 | 72 | 71 | 74 | 75 |
| Gas | 3 | 1 | 8 | 5 | 13 | 6 | 15 | 7 |
| Oil | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nuclear | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Steam ¹ | 0 | 1 | 0 | 4 | 0 | 4 | 0 | 1 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 80 | 84 | 87 | 90 | 95 | 92 | 99 | 98 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 0.61 | 0.61 | 1.33 | 1.30 | 2.42 | 2.02 | 3.17 | 2.42 |
| Coal | 10.56 | 10.56 | 10.49 | 10.41 | 10.43 | 10.35 | 10.53 | 10.35 |
| Combustion Turbines | 3.73 | 3.72 | 4.29 | 4.31 | 5.83 | 4.80 | 6.58 | 5.80 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nuclear | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 |
| Other Fossil | 1.89 | 1.89 | 1.07 | 0.92 | 0.68 | 0.77 | 0.68 | 0.77 |
| Pumped Storage | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 |
| Wood Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 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 | 0.51 | 0.00 | 2.02 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 18.06 | 18.04 | 18.45 | 18.21 | 20.64 | 19.74 | 22.26 | 22.65 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 164 | 170 | 140 | 143 | 146 | 136 | 147 | 139 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 3 | 2 | 2 | 2 | 1 | 3 | 2 | 3 |
| Inter-regional Exports (economy) | 13 | 13 | 15 | 16 | 18 | 17 | 18 | 20 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 37.2 | 22.1 | 38.2 | 27.8 | 37.9 | 27.2 | 34.5 | 28.1 |
| Commercial | 38.4 | 22.7 | 37.7 | 29.0 | 36.5 | 28.4 | 33.5 | 29.1 |
| Industrial | 28.0 | 20.5 | 28.6 | 25.8 | 28.7 | 25.0 | 26.7 | 26.0 |
| Total | 35.3 | 21.9 | 35.6 | 27.7 | 35.0 | 27.1 | 32.2 | 28.0 |
| Transmission | | | | | | | | |
| Residential | 5.2 | 5.5 | 5.5 | 5.8 | 4.8 | 5.3 | 4.6 | 4.7 |
| Commercial | 3.9 | 4.2 | 4.2 | 4.4 | 3.6 | 3.9 | 3.4 | 3.6 |
| Industrial | 2.3 | 2.9 | 2.4 | 2.8 | 2.0 | 2.5 | 1.9 | 2.3 |
| Total | 4.0 | 4.4 | 4.3 | 4.6 | 3.7 | 4.1 | 3.5 | 3.7 |
| Distribution ³ | | | | | | | | |
| Residential | 27.7 | 28.8 | 27.8 | 26.8 | 28.0 | 24.8 | 26.9 | 22.2 |
| Commercial | 16.7 | 18.3 | 16.6 | 16.7 | 16.6 | 15.2 | 16.3 | 13.2 |
| Industrial | 10.6 | 12.3 | 10.8 | 11.4 | 11.0 | 10.6 | 10.8 | 8.7 |
| Total | 19.5 | 21.0 | 19.6 | 19.5 | 19.7 | 18.0 | 19.2 | 15.9 |
| Total Delivered Prices | | | | | | | | |
| Residential | 70.0 | 57.2 | 71.5 | 61.2 | 70.7 | 58.0 | 65.9 | 55.7 |
| Commercial | 59.0 | 46.1 | 58.5 | 50.8 | 56.8 | 48.2 | 53.2 | 46.5 |
| Industrial | 40.8 | 36.5 | 41.7 | 40.7 | 41.7 | 38.9 | 39.4 | 37.7 |
| Total | 58.7 | 48.1 | 59.4 | 52.5 | 58.5 | 50.0 | 54.9 | 48.2 |

Table A14. Regional Results for the Southwest Power Pool/ Southeast (SPP/SE)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 128 | 131 | 139 | 139 | 152 | 146 | 163 | 156 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 49 | 52 | 50 | 52 | 51 | 51 | 53 | 52 |
| Gas | 24 | 22 | 38 | 26 | 47 | 29 | 55 | 35 |
| Oil | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Nuclear | 37 | 38 | 37 | 38 | 37 | 38 | 28 | 29 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Steam ¹ | 0 | 2 | 0 | 3 | 0 | 3 | 0 | 2 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 12 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 114 | 118 | 129 | 121 | 138 | 127 | 140 | 133 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 0.26 | 0.26 | 1.09 | 0.97 | 3.69 | 2.63 | 5.65 | 3.56 |
| Coal | 6.94 | 6.94 | 6.95 | 6.94 | 6.95 | 6.94 | 7.22 | 6.94 |
| Combustion Turbines | 0.57 | 0.54 | 1.23 | 1.23 | 4.92 | 2.37 | 6.92 | 4.74 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Nuclear | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 3.11 | 3.11 |
| Other Fossil | 18.72 | 18.72 | 13.08 | 13.42 | 6.16 | 12.24 | 6.16 | 11.95 |
| Pumped Storage | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 |
| Wood Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 1.16 | 0.00 | 4.73 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 |
| Total | 32.13 | 32.10 | 28.00 | 28.22 | 27.38 | 31.02 | 29.86 | 35.84 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 130 | 137 | 142 | 131 | 125 | 114 | 117 | 114 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 20 | 21 | 17 | 25 | 21 | 24 | 30 | 27 |
| Inter-regional Exports (economy) | 0 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 45.3 | 29.6 | 42.4 | 30.0 | 40.4 | 29.9 | 35.1 | 30.9 |
| Commercial | 48.1 | 29.5 | 43.5 | 29.9 | 40.9 | 30.0 | 36.8 | 31.1 |
| Industrial | 31.9 | 28.1 | 30.8 | 28.2 | 31.3 | 28.2 | 29.1 | 29.6 |
| Total | 40.9 | 29.0 | 38.3 | 29.3 | 37.0 | 29.3 | 33.3 | 30.5 |
| Transmission | | | | | | | | |
| Residential | 7.5 | 7.9 | 8.0 | 8.2 | 8.1 | 8.0 | 8.1 | 7.9 |
| Commercial | 6.2 | 6.4 | 6.4 | 6.3 | 6.2 | 6.0 | 6.3 | 5.9 |
| Industrial | 3.7 | 3.8 | 4.0 | 3.9 | 4.1 | 3.9 | 4.1 | 3.9 |
| Total | 5.7 | 6.0 | 6.1 | 6.2 | 6.1 | 6.0 | 6.1 | 6.0 |
| Distribution ³ | | | | | | | | |
| Residential | 23.5 | 30.9 | 23.7 | 28.2 | 24.2 | 25.5 | 23.5 | 19.4 |
| Commercial | 16.0 | 21.0 | 15.7 | 18.4 | 15.6 | 16.3 | 15.5 | 12.6 |
| Industrial | 8.6 | 12.2 | 8.8 | 10.9 | 9.2 | 10.0 | 9.1 | 7.5 |
| Total | 15.8 | 21.2 | 16.0 | 19.4 | 16.3 | 17.6 | 16.1 | 13.6 |
| Total Delivered Prices | | | | | | | | |
| Residential | 76.3 | 69.3 | 74.1 | 67.1 | 72.7 | 64.1 | 66.7 | 58.8 |
| Commercial | 70.3 | 57.8 | 65.6 | 55.3 | 62.8 | 52.9 | 58.5 | 50.3 |
| Industrial | 44.2 | 44.9 | 43.6 | 43.9 | 44.5 | 42.9 | 42.4 | 41.7 |
| Total | 62.4 | 57.0 | 60.3 | 55.5 | 59.4 | 53.7 | 55.6 | 50.8 |

Table A15. Regional Results for the Southwest Power Pool/ West Central (SPP/WC)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 88 | 91 | 96 | 96 | 105 | 102 | 113 | 109 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 69 | 73 | 72 | 74 | 73 | 74 | 74 | 75 |
| Gas | 13 | 10 | 24 | 16 | 31 | 16 | 36 | 17 |
| Oil | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Nuclear | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Steam ¹ | 0 | 3 | 0 | 4 | 0 | 4 | 0 | 3 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 7 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 89 | 93 | 102 | 100 | 111 | 102 | 118 | 110 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 1.19 | 1.19 | 2.25 | 2.20 | 3.89 | 3.25 | 5.04 | 3.84 |
| Coal | 10.30 | 10.30 | 10.93 | 10.92 | 10.93 | 10.92 | 11.09 | 10.92 |
| Combustion Turbines | 0.92 | 0.90 | 2.28 | 2.28 | 4.59 | 3.01 | 5.81 | 4.51 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 |
| Nuclear | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil | 9.66 | 9.66 | 7.72 | 7.25 | 4.23 | 5.95 | 4.23 | 4.41 |
| Pumped Storage | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Refuse | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 |
| Wood Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 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 | 0.74 | 0.00 | 2.99 |
| Solar PV | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 |
| Total | 24.59 | 24.57 | 25.72 | 25.19 | 26.19 | 26.42 | 28.73 | 29.23 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 132 | 139 | 144 | 139 | 141 | 132 | 139 | 131 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 8 | 8 | 4 | 8 | 5 | 9 | 5 | 9 |
| Inter-regional Exports (economy) | 4 | 5 | 5 | 6 | 6 | 6 | 5 | 7 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 33.1 | 24.9 | 33.7 | 27.9 | 34.1 | 27.5 | 31.7 | 28.5 |
| Commercial | 35.5 | 25.4 | 35.2 | 28.7 | 34.9 | 28.4 | 33.1 | 29.2 |
| Industrial | 26.2 | 24.0 | 26.9 | 27.3 | 28.1 | 26.7 | 27.2 | 27.8 |
| Total | 31.5 | 24.8 | 31.8 | 27.9 | 32.3 | 27.5 | 30.6 | 28.5 |
| Transmission | | | | | | | | |
| Residential | 6.5 | 6.4 | 6.4 | 5.9 | 5.7 | 5.6 | 5.7 | 5.2 |
| Commercial | 5.1 | 5.1 | 4.9 | 4.5 | 4.2 | 4.2 | 4.3 | 3.9 |
| Industrial | 3.2 | 3.1 | 3.2 | 2.9 | 2.9 | 2.8 | 2.9 | 2.6 |
| Total | 5.0 | 4.9 | 4.8 | 4.5 | 4.3 | 4.3 | 4.4 | 4.1 |
| Distribution ³ | | | | | | | | |
| Residential | 25.6 | 24.6 | 25.3 | 22.6 | 25.4 | 20.7 | 24.4 | 20.0 |
| Commercial | 16.3 | 15.4 | 16.0 | 13.9 | 15.8 | 12.6 | 15.5 | 12.5 |
| Industrial | 8.9 | 8.3 | 9.2 | 7.9 | 9.5 | 7.5 | 9.3 | 7.5 |
| Total | 17.0 | 16.3 | 17.1 | 15.3 | 17.2 | 14.2 | 16.8 | 14.0 |
| Total Delivered Prices | | | | | | | | |
| Residential | 65.2 | 56.7 | 65.4 | 57.2 | 65.2 | 54.5 | 61.7 | 54.4 |
| Commercial | 56.9 | 46.7 | 56.1 | 47.9 | 54.9 | 45.9 | 52.9 | 46.3 |
| Industrial | 38.4 | 36.3 | 39.3 | 38.8 | 40.5 | 37.7 | 39.4 | 38.6 |
| Total | 53.5 | 46.8 | 53.7 | 48.4 | 53.7 | 46.7 | 51.7 | 47.2 |

Table A16. Regional Results for the Western Systems Coordinating Council/ Arizona-New Mexico Power Area (WSCC/AZN)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 82 | 84 | 93 | 93 | 103 | 103 | 113 | 112 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 65 | 65 | 66 | 67 | 69 | 67 | 74 | 68 |
| Gas | 5 | 5 | 9 | 8 | 17 | 6 | 21 | 12 |
| Oil | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Nuclear | 28 | 28 | 28 | 30 | 28 | 30 | 28 | 30 |
| Geothermal | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Refuse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Steam ¹ | 0 | 1 | 0 | 4 | 0 | 4 | 0 | 2 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 3 | 0 | 11 | 0 | 12 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 105 | 107 | 112 | 118 | 122 | 124 | 132 | 131 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 1.05 | 1.05 | 1.13 | 1.34 | 2.42 | 2.10 | 3.20 | 3.29 |
| Coal | 9.02 | 9.02 | 9.02 | 9.02 | 9.37 | 9.02 | 10.20 | 9.04 |
| Combustion Turbines | 1.93 | 1.93 | 2.75 | 2.70 | 3.76 | 3.15 | 4.40 | 4.24 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 |
| Nuclear | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 | 3.81 |
| Other Fossil | 2.36 | 2.36 | 2.19 | 2.34 | 2.19 | 2.34 | 2.19 | 2.34 |
| Pumped Storage | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Geothermal | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.38 |
| Refuse | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 |
| Wood Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.02 | 0.02 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Wind | 0.02 | 0.02 | 0.02 | 1.13 | 0.02 | 3.79 | 0.02 | 4.18 |
| Solar PV | 0.01 | 0.01 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 |
| Total | 20.19 | 20.19 | 21.00 | 22.43 | 23.68 | 26.32 | 25.95 | 29.06 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 147 | 146 | 153 | 151 | 152 | 143 | 151 | 143 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 0 | 0 | 1 | 2 | 2 | 1 | 2 | 1 |
| Inter-regional Exports (economy) | 35 | 33 | 22 | 29 | 18 | 21 | 15 | 16 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 54.2 | 27.6 | 48.3 | 35.1 | 45.4 | 28.9 | 41.2 | 29.6 |
| Commercial | 52.6 | 27.2 | 44.7 | 34.7 | 41.2 | 28.6 | 37.9 | 29.3 |
| Industrial | 34.6 | 25.8 | 32.3 | 33.1 | 32.2 | 27.8 | 30.5 | 28.6 |
| Total | 49.3 | 27.0 | 43.5 | 34.5 | 40.9 | 28.5 | 37.6 | 29.2 |
| Transmission | | | | | | | | |
| Residential | 4.4 | 5.9 | 6.2 | 6.4 | 6.8 | 6.8 | 7.0 | 7.0 |
| Commercial | 2.5 | 4.0 | 4.2 | 4.4 | 4.8 | 4.8 | 5.1 | 5.1 |
| Industrial | 2.1 | 3.2 | 3.2 | 3.5 | 3.8 | 3.9 | 4.0 | 4.0 |
| Total | 3.1 | 4.6 | 4.8 | 5.1 | 5.4 | 5.4 | 5.7 | 5.7 |
| Distribution ³ | | | | | | | | |
| Residential | 25.6 | 27.2 | 26.4 | 26.3 | 27.7 | 25.0 | 27.2 | 23.0 |
| Commercial | 16.7 | 18.4 | 16.9 | 17.2 | 17.6 | 16.1 | 17.6 | 14.6 |
| Industrial | 9.3 | 10.2 | 10.0 | 10.1 | 10.9 | 9.8 | 10.9 | 9.0 |
| Total | 18.6 | 20.2 | 19.3 | 19.5 | 20.3 | 18.6 | 20.3 | 17.2 |
| Total Delivered Prices | | | | | | | | |
| Residential | 84.1 | 61.5 | 80.9 | 68.5 | 79.9 | 61.4 | 75.4 | 60.1 |
| Commercial | 71.7 | 50.4 | 65.8 | 57.1 | 63.6 | 50.2 | 60.7 | 49.6 |
| Industrial | 46.1 | 40.1 | 45.5 | 47.4 | 46.9 | 42.2 | 45.3 | 42.3 |
| Total | 71.0 | 52.7 | 67.6 | 59.8 | 66.6 | 53.3 | 63.5 | 52.7 |

Table A17. Regional Results for the Western Systems Coordinating Council/ California-Southern Nevada (WSCC/CNV)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 247 | 252 | 267 | 268 | 290 | 288 | 313 | 309 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 30 | 32 | 40 | 35 | 75 | 48 | 117 | 72 |
| Gas | 55 | 54 | 111 | 93 | 128 | 103 | 111 | 115 |
| Oil | 10 | 10 | 11 | 6 | 3 | 1 | 2 | 1 |
| Hydro | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Nuclear | 32 | 34 | 32 | 34 | 32 | 34 | 32 | 34 |
| Geothermal | 12 | 12 | 12 | 13 | 12 | 14 | 12 | 13 |
| Refuse | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Wood Steam ¹ | 2 | 2 | 2 | 4 | 2 | 8 | 2 | 6 |
| Solar Thermal | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind | 4 | 4 | 4 | 10 | 5 | 12 | 5 | 12 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 189 | 191 | 256 | 237 | 300 | 262 | 324 | 296 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 3.96 | 3.91 | 9.32 | 10.27 | 15.71 | 17.51 | 16.39 | 19.13 |
| Coal | 4.16 | 4.16 | 5.47 | 4.69 | 10.19 | 6.43 | 15.84 | 9.35 |
| Combustion Turbines | 4.82 | 4.82 | 4.63 | 4.68 | 5.22 | 4.96 | 6.53 | 5.98 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 11.33 | 11.33 | 11.33 | 11.33 | 11.33 | 11.33 | 11.33 | 11.33 |
| Nuclear | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 |
| Other Fossil | 20.48 | 20.48 | 15.54 | 14.52 | 6.62 | 8.29 | 5.23 | 8.29 |
| Pumped Storage | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 |
| Geothermal | 2.51 | 2.51 | 2.25 | 2.44 | 2.17 | 2.44 | 2.08 | 2.29 |
| Refuse | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| Wood Steam | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.88 | 0.37 | 0.90 |
| Solar Thermal | 0.35 | 0.35 | 0.36 | 0.36 | 0.37 | 0.37 | 0.39 | 0.39 |
| Wind | 1.95 | 1.95 | 2.11 | 4.22 | 2.20 | 4.84 | 2.28 | 4.84 |
| Solar PV | 0.02 | 0.02 | 0.07 | 0.07 | 0.11 | 0.11 | 0.16 | 0.16 |
| Total | 58.34 | 58.29 | 59.85 | 61.35 | 62.70 | 65.57 | 69.01 | 71.05 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 78 | 78 | 77 | 69 | 61 | 51 | 57 | 52 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 68 | 71 | 24 | 42 | 13 | 34 | 11 | 23 |
| Inter-regional Exports (economy) | 0 | 0 | 1 | 0 | 9 | 1 | 7 | 4 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 56.7 | 37.5 | 58.2 | 39.9 | 54.2 | 34.5 | 48.8 | 34.0 |
| Commercial | 59.9 | 37.1 | 61.4 | 39.8 | 56.0 | 34.2 | 51.0 | 33.8 |
| Industrial | 46.7 | 36.5 | 49.7 | 38.6 | 47.2 | 33.9 | 43.2 | 33.5 |
| Total | 55.0 | 37.1 | 56.8 | 39.4 | 52.6 | 34.2 | 47.8 | 33.7 |
| Transmission | | | | | | | | |
| Residential | 9.7 | 10.1 | 9.7 | 9.7 | 9.2 | 8.9 | 8.9 | 8.5 |
| Commercial | 7.6 | 8.0 | 7.4 | 7.5 | 6.9 | 6.7 | 6.8 | 6.5 |
| Industrial | 5.0 | 5.3 | 5.1 | 5.2 | 4.9 | 4.8 | 4.9 | 4.7 |
| Total | 7.5 | 7.9 | 7.5 | 7.6 | 7.1 | 6.9 | 7.0 | 6.7 |
| Distribution ³ | | | | | | | | |
| Residential | 45.1 | 46.3 | 48.6 | 44.8 | 48.1 | 41.6 | 46.9 | 39.9 |
| Commercial | 27.8 | 28.7 | 29.3 | 27.2 | 28.8 | 24.7 | 28.7 | 23.9 |
| Industrial | 15.5 | 16.4 | 17.0 | 16.0 | 17.4 | 15.2 | 17.5 | 14.6 |
| Total | 30.0 | 31.1 | 32.1 | 30.0 | 31.9 | 27.9 | 31.6 | 26.9 |
| Total Delivered Prices | | | | | | | | |
| Residential | 111.6 | 94.7 | 116.4 | 95.2 | 111.5 | 85.7 | 104.6 | 83.1 |
| Commercial | 95.3 | 74.7 | 98.1 | 75.2 | 91.6 | 66.4 | 86.6 | 64.8 |
| Industrial | 67.2 | 59.0 | 71.8 | 60.5 | 69.5 | 54.7 | 65.5 | 53.4 |
| Total | 92.6 | 77.0 | 96.4 | 77.8 | 91.6 | 69.7 | 86.4 | 68.0 |

Table A18. Regional Results for the Western Systems Coordinating Council/ Northwest Power Pool Area (WSCC/NWP)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 233 | 237 | 254 | 254 | 277 | 273 | 300 | 294 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 77 | 84 | 81 | 81 | 82 | 81 | 88 | 84 |
| Gas | 11 | 11 | 14 | 12 | 24 | 11 | 45 | 23 |
| Oil | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Hydro | 153 | 153 | 152 | 152 | 152 | 159 | 152 | 162 |
| Nuclear | 7 | 7 | 7 | 8 | 8 | 9 | 8 | 0 |
| Geothermal | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 5 |
| Refuse | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wood Steam ¹ | 1 | 3 | 1 | 5 | 1 | 5 | 1 | 3 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 21 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 251 | 259 | 258 | 261 | 271 | 287 | 301 | 298 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 1.88 | 1.88 | 1.13 | 1.88 | 2.74 | 1.94 | 5.87 | 3.56 |
| Coal | 11.37 | 11.37 | 11.37 | 11.37 | 11.57 | 11.37 | 12.40 | 11.37 |
| Combustion Turbines | 1.29 | 1.29 | 0.90 | 1.29 | 0.91 | 1.30 | 0.73 | 1.45 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 35.03 | 35.03 | 35.03 | 35.03 | 35.03 | 35.03 | 35.03 | 35.03 |
| Nuclear | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 0.00 |
| Other Fossil | 0.72 | 0.72 | 0.42 | 0.47 | 0.42 | 0.42 | 0.42 | 0.42 |
| Pumped Storage | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 |
| Geothermal | 0.21 | 0.21 | 0.21 | 0.35 | 0.45 | 0.61 | 0.74 | 0.82 |
| Refuse | 0.11 | 0.11 | 0.13 | 0.13 | 0.17 | 0.17 | 0.19 | 0.19 |
| Wood Steam | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Solar Thermal | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Wind | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 7.98 | 0.03 | 10.17 |
| Solar PV | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.05 | 0.10 | 0.10 |
| Total | 52.20 | 52.20 | 50.80 | 52.14 | 52.94 | 60.45 | 57.10 | 63.59 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 157 | 172 | 167 | 167 | 164 | 160 | 164 | 161 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 0 | 2 | 5 | 5 | 13 | 3 | 10 | 7 |
| Inter-regional Exports (economy) | 36 | 41 | 12 | 16 | 1 | 16 | 1 | 7 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 28.1 | 21.7 | 25.1 | 22.9 | 23.9 | 22.9 | 21.9 | 22.7 |
| Commercial | 27.8 | 21.8 | 23.8 | 23.5 | 22.9 | 21.6 | 21.5 | 23.2 |
| Industrial | 19.2 | 21.6 | 17.4 | 22.7 | 17.1 | 21.2 | 16.1 | 23.1 |
| Total | 24.4 | 21.7 | 21.5 | 23.0 | 20.7 | 21.9 | 19.3 | 23.0 |
| Transmission | | | | | | | | |
| Residential | 6.7 | 7.9 | 7.3 | 8.4 | 7.2 | 7.8 | 6.9 | 7.5 |
| Commercial | 5.0 | 6.3 | 5.4 | 6.3 | 5.3 | 5.6 | 5.1 | 5.5 |
| Industrial | 3.4 | 4.5 | 4.0 | 5.0 | 3.9 | 4.6 | 3.8 | 4.5 |
| Total | 4.9 | 6.1 | 5.5 | 6.5 | 5.4 | 6.0 | 5.2 | 5.8 |
| Distribution ³ | | | | | | | | |
| Residential | 18.9 | 16.2 | 19.6 | 16.0 | 20.0 | 15.5 | 19.8 | 14.7 |
| Commercial | 12.6 | 11.2 | 12.5 | 10.2 | 12.2 | 9.3 | 12.5 | 9.1 |
| Industrial | 6.4 | 5.2 | 6.7 | 5.1 | 6.9 | 4.9 | 7.0 | 4.5 |
| Total | 12.2 | 10.6 | 12.6 | 10.2 | 12.7 | 9.8 | 12.8 | 9.4 |
| Total Delivered Prices | | | | | | | | |
| Residential | 53.7 | 46.7 | 52.0 | 48.1 | 51.0 | 47.1 | 48.5 | 45.6 |
| Commercial | 45.4 | 40.1 | 41.7 | 40.7 | 40.3 | 37.2 | 39.1 | 38.4 |
| Industrial | 29.0 | 32.2 | 28.1 | 33.5 | 27.9 | 31.4 | 26.9 | 32.8 |
| Total | 41.5 | 39.2 | 39.6 | 40.5 | 38.8 | 38.4 | 37.3 | 38.9 |

Table A19. Regional Results for the Western Systems Coordinating Council/ Rocky Mountain Power Area (WSCC/RMPA)

| | 2000 | | 2005 | | 2010 | | 2015 | |
|--|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Reference | Competitive | Reference | Competitive | Reference | Competitive | Reference | Competitive |
| Electricity Demand (BkWh) | 51 | 52 | 58 | 58 | 64 | 64 | 71 | 70 |
| Generation by Fuel Type (BkWh) (excludes Traditional Cogen and Firm Imports) | | | | | | | | |
| Coal | 37 | 38 | 37 | 38 | 40 | 38 | 44 | 39 |
| Gas | 2 | 2 | 4 | 3 | 11 | 3 | 14 | 9 |
| Oil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydro | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nuclear | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refuse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Steam ¹ | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 |
| Solar Thermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind | 0 | 0 | 0 | 2 | 0 | 8 | 0 | 8 |
| Solar PV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 48 | 50 | 50 | 53 | 59 | 59 | 67 | 65 |
| Capacity (MW) (including NonTraditional Cogen) | | | | | | | | |
| Combined Cycle | 0.32 | 0.32 | 0.38 | 0.51 | 1.49 | 1.01 | 2.05 | 1.77 |
| Coal | 5.13 | 5.13 | 5.08 | 5.13 | 5.41 | 5.14 | 6.03 | 5.14 |
| Combustion Turbines | 0.65 | 0.65 | 1.04 | 1.00 | 2.09 | 1.30 | 2.54 | 1.99 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hydro | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 |
| Nuclear | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil | 0.24 | 0.24 | 0.06 | 0.24 | 0.06 | 0.24 | 0.06 | 0.24 |
| Pumped Storage | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 |
| Geothermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 |
| Refuse | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.04 | 0.05 | 0.05 |
| Wood Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 |
| Wind | 0.06 | 0.06 | 0.06 | 0.82 | 0.06 | 2.63 | 0.06 | 2.88 |
| Solar PV | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 |
| Total | 9.50 | 9.50 | 9.73 | 10.81 | 12.25 | 13.46 | 13.91 | 15.20 |
| Emissions (thousand short tons) | | | | | | | | |
| NOX | 76 | 80 | 77 | 79 | 76 | 76 | 76 | 76 |
| Volume of Electricity Trading (BkWh) | | | | | | | | |
| Inter-regional Imports (economy) | 6 | 6 | 11 | 9 | 9 | 8 | 8 | 10 |
| Inter-regional Exports (economy) | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 3 |
| Electricity Prices (1997\$/MWh) | | | | | | | | |
| Generation ² | | | | | | | | |
| Residential | 35.6 | 25.1 | 35.3 | 31.1 | 36.4 | 26.5 | 35.7 | 28.7 |
| Commercial | 32.7 | 25.5 | 32.4 | 31.4 | 34.0 | 26.7 | 34.0 | 28.8 |
| Industrial | 27.1 | 24.5 | 27.6 | 29.5 | 30.0 | 25.8 | 30.2 | 28.1 |
| Total | 32.6 | 25.2 | 32.5 | 30.9 | 34.1 | 26.5 | 33.9 | 28.6 |
| Transmission | | | | | | | | |
| Residential | 9.3 | 9.7 | 8.8 | 9.2 | 8.8 | 9.2 | 8.6 | 8.6 |
| Commercial | 6.8 | 7.0 | 6.6 | 6.7 | 6.6 | 6.5 | 6.6 | 6.2 |
| Industrial | 5.9 | 6.1 | 5.4 | 5.7 | 5.6 | 5.8 | 5.5 | 5.3 |
| Total | 7.6 | 7.8 | 7.2 | 7.5 | 7.3 | 7.4 | 7.2 | 7.0 |
| Distribution ³ | | | | | | | | |
| Residential | 27.4 | 26.0 | 28.5 | 25.8 | 31.1 | 25.0 | 31.0 | 25.0 |
| Commercial | 15.6 | 14.7 | 16.4 | 14.7 | 18.1 | 14.4 | 18.4 | 14.6 |
| Industrial | 9.8 | 9.5 | 10.4 | 9.6 | 11.7 | 9.6 | 11.8 | 9.3 |
| Total | 18.5 | 17.6 | 19.5 | 17.7 | 21.5 | 17.4 | 21.7 | 17.5 |
| Total Delivered Prices | | | | | | | | |
| Residential | 72.3 | 61.6 | 72.6 | 66.9 | 76.3 | 61.5 | 75.2 | 62.9 |
| Commercial | 55.1 | 48.0 | 55.3 | 53.5 | 58.8 | 48.2 | 59.1 | 50.2 |
| Industrial | 42.7 | 40.8 | 43.4 | 45.6 | 47.2 | 41.9 | 47.5 | 43.3 |
| Total | 58.6 | 51.4 | 59.2 | 56.9 | 62.9 | 52.0 | 62.9 | 53.8 |

¹ Includes co-firing as well as direct combustion.

² Generation cost is cost-of-service for the Reference Case and marginal cost for Competitive Case.

³ Includes net stranded generating asset recovery charge in the Competitive Case.

Table A20. Delivered Electricity Prices by State, 2010
(1997 Cents per Kilowatthour)

| | Average | | | Residential | | |
|----|-----------|-------------|------------|-------------|-------------|------------|
| | Reference | Competitive | Difference | Reference | Competitive | Difference |
| AL | 5.3 | 5.1 | -0.2 | 6.9 | 6.4 | -0.6 |
| AR | 5.9 | 5.2 | -0.7 | 7.3 | 6.3 | -1.0 |
| AZ | 6.6 | 5.2 | -1.4 | 7.9 | 6.0 | -1.9 |
| CA | 9.3 | 7.0 | -2.3 | 11.4 | 8.7 | -2.7 |
| CO | 6.3 | 5.1 | -1.2 | 7.7 | 6.1 | -1.6 |
| CT | 9.1 | 7.9 | -1.2 | 10.3 | 8.8 | -1.5 |
| DC | 6.8 | 6.2 | -0.6 | 7.8 | 7.0 | -0.8 |
| DE | 6.5 | 6.0 | -0.5 | 8.4 | 7.3 | -1.2 |
| FL | 7.0 | 6.2 | -0.8 | 8.1 | 7.0 | -1.1 |
| GA | 6.1 | 5.7 | -0.5 | 7.6 | 6.9 | -0.7 |
| IA | 6.0 | 4.5 | -1.6 | 7.8 | 5.6 | -2.2 |
| ID | 4.0 | 3.5 | -0.5 | 5.1 | 4.3 | -0.8 |
| IL | 6.9 | 5.7 | -1.2 | 8.9 | 7.0 | -1.9 |
| IN | 5.0 | 4.7 | -0.4 | 6.4 | 5.7 | -0.6 |
| KS | 5.8 | 5.0 | -0.9 | 7.2 | 6.0 | -1.3 |
| KY | 4.0 | 4.0 | 0.0 | 5.4 | 5.1 | -0.3 |
| LA | 5.9 | 5.3 | -0.6 | 7.2 | 6.3 | -0.9 |
| MA | 9.0 | 7.8 | -1.2 | 10.0 | 8.7 | -1.3 |
| MD | 6.6 | 6.0 | -0.6 | 7.9 | 6.9 | -1.0 |
| ME | 8.5 | 7.6 | -0.9 | 10.5 | 8.9 | -1.6 |
| MI | 6.1 | 5.1 | -0.9 | 7.3 | 6.1 | -1.2 |
| MN | 5.3 | 4.6 | -0.7 | 6.9 | 6.0 | -1.0 |
| MO | 5.7 | 4.8 | -0.8 | 6.6 | 5.5 | -1.1 |
| MS | 5.5 | 5.1 | -0.4 | 6.9 | 6.2 | -0.7 |
| MT | 3.7 | 4.1 | 0.3 | 5.3 | 5.0 | -0.3 |
| NC | 6.0 | 5.4 | -0.6 | 7.5 | 6.5 | -1.0 |
| ND | 5.2 | 5.1 | -0.2 | 6.1 | 5.8 | -0.3 |
| NE | 5.0 | 4.5 | -0.6 | 6.1 | 5.3 | -0.8 |
| NH | 9.6 | 8.1 | -1.5 | 11.0 | 9.1 | -1.9 |
| NJ | 8.3 | 6.8 | -1.5 | 9.9 | 7.9 | -1.9 |
| NM | 6.1 | 5.3 | -0.8 | 7.7 | 6.4 | -1.3 |
| NV | 6.0 | 5.3 | -0.7 | 7.2 | 6.3 | -1.0 |
| NY | 10.3 | 8.1 | -2.1 | 12.5 | 9.5 | -3.0 |
| OH | 5.6 | 4.8 | -0.8 | 7.5 | 6.1 | -1.3 |
| OK | 5.6 | 4.8 | -0.8 | 6.6 | 5.6 | -1.1 |
| OR | 3.8 | 4.0 | 0.2 | 5.0 | 4.9 | -0.1 |
| PA | 6.9 | 5.9 | -1.1 | 8.6 | 7.0 | -1.6 |
| RI | 9.2 | 7.9 | -1.2 | 10.2 | 8.8 | -1.5 |
| SC | 5.3 | 4.9 | -0.4 | 7.0 | 6.1 | -0.9 |
| SD | 5.5 | 5.3 | -0.1 | 6.4 | 6.1 | -0.3 |
| TN | 4.6 | 4.4 | -0.2 | 6.1 | 5.5 | -0.5 |
| TX | 5.9 | 5.1 | -0.8 | 7.3 | 6.1 | -1.2 |
| UT | 3.8 | 3.4 | -0.4 | 5.4 | 4.5 | -0.9 |
| VA | 5.4 | 4.9 | -0.5 | 6.6 | 5.9 | -0.7 |
| VT | 8.7 | 7.7 | -1.0 | 9.9 | 8.6 | -1.3 |
| WA | 3.8 | 3.9 | 0.1 | 5.0 | 4.7 | -0.2 |
| WI | 5.5 | 4.9 | -0.6 | 7.0 | 6.0 | -1.0 |
| WV | 4.9 | 4.4 | -0.5 | 6.1 | 5.2 | -0.9 |
| WY | 3.9 | 3.7 | -0.3 | 5.9 | 5.2 | -0.7 |