

Table 1. 2006 Summary Statistics

| Item | Value | U.S. Rank |
|--|------------------|-----------|
| Alaska | | |
| NERC Region(s)..... | | -- |
| Primary Energy Source..... | | Gas |
| Net Summer Capacity (megawatts) | 1,884 | 48 |
| Electric Utilities..... | 1,736 | 39 |
| Independent Power Producers & Combined Heat and Power..... | 148 | 49 |
| Net Generation (megawatthours)..... | 6,674,197 | 49 |
| Electric Utilities..... | 6,068,520 | 40 |
| Independent Power Producers & Combined Heat and Power..... | 605,677 | 46 |
| Emissions (thousand metric tons) | | |
| Sulfur Dioxide | 4 | 48 |
| Nitrogen Oxide..... | 18 | 41 |
| Carbon Dioxide..... | 4,585 | 46 |
| Sulfur Dioxide (lbs/MWh) | 1.4 | 42 |
| Nitrogen Oxide (lbs/MWh) | 6.0 | 2 |
| Carbon Dioxide (lbs/MWh)..... | 1,514 | 20 |
| Total Retail Sales (megawatthours)..... | 6,182,291 | 50 |
| Full Service Provider Sales (megawatthours) | 6,182,291 | 48 |
| Direct Use (megawatthours) | 289,065 | 38 |
| Average Retail Price (cents/kWh)..... | 12.84 | 7 |

See footnotes at end of tables.

There is no NERC Region for Alaska. This is shown as "--" in the table.

Table 2. Ten Largest Plants by Generating Capacity, 2006

| Plant | Primary Energy Source or Technology | Operating Company | Net Summer Capacity (MW) |
|---|-------------------------------------|-------------------------------------|--------------------------|
| Alaska | | | |
| 1. Beluga..... | Gas | Chugach Electric Assn Inc | 344 |
| 2. George M Sullivan Generation Plant 2 | Gas | Anchorage Municipal Light and Power | 220 |
| 3. Bradley Lake..... | Hydroelectric | Homer Electric Assn Inc | 126 |
| 4. North Pole..... | Petroleum | Golden Valley Elec Assn Inc | 96 |
| 5. Snettisham | Hydroelectric | Alaska Electric Light&Power Co | 78 |
| 6. Bernice Lake..... | Gas | Chugach Electric Assn Inc | 62 |
| 7. Anchorage 1..... | Gas | Anchorage Municipal Light and Power | 62 |
| 9. Eklutna Hydro Project | Hydroelectric | Anchorage Municipal Light and Power | 44 |
| 10. International..... | Gas | Chugach Electric Assn Inc | 42 |

See footnotes at end of tables.

Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2006
(Megawatthours)

| Entity | Type of Provider | All Sectors | Residential | Commercial | Industrial | Transportation |
|--|------------------|-------------|-------------|------------|------------|----------------|
| Alaska | | | | | | |
| 1. Golden Valley Electric Assn Inc | Cooperative | 1,246,043 | 323,153 | 143,844 | 779,046 | - |
| 2. Chugach Electric Assn Inc | Cooperative | 1,229,977 | 564,969 | 619,060 | 45,948 | - |
| 3. Anchorage Municipality of..... | Public | 1,103,168 | 148,255 | 954,913 | - | - |
| 4. Matanuska Electric Assn Inc..... | Cooperative | 678,884 | 431,007 | 247,877 | - | - |
| 5. Homer Electric Assn Inc..... | Cooperative | 493,382 | 174,054 | 173,653 | 145,675 | - |
| Total Sales, Top Five Providers | | 4,751,454 | 1,641,438 | 2,139,347 | 970,669 | - |
| Percent of Total State Sales | | 77 | 77 | 76 | 78 | - |

See footnotes at end of tables.

Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatts)

| Energy Source | 1990 | 1995 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | Percentage Share | |
|--|------------------|------------------|--------------|--------------|--------------|--------------|--------------------------|--------------|------------------|--------------|
| | | | | | | | | | 1990 | 2006 |
| Alaska | | | | | | | | | | |
| Electric Utilities..... | 1,542 | 1,732 | 1,770 | 1,740 | 1,753 | 1,722 | 1,769^R | 1,736 | 84.4 | 92.1 |
| Coal..... | 56 | 54 | 25 | 25 | 25 | 25 | 52 ^R | 25 | 3.0 | 1.3 |
| Petroleum..... | 494 ^R | 572 ^R | 527 | 522 | 529 | 517 | 526 | 527 | 27.1 | 27.9 |
| Natural Gas..... | 756 ^R | 754 ^R | 819 | 796 | 803 | 785 | 785 | 785 | 41.4 | 41.7 |
| Hydroelectric..... | 236 | 353 | 399 | 396 | 396 | 395 | 397 | 397 | 12.9 | 21.1 |
| Other Renewables..... | * | * | - | - | 1 | 1 | 10 | 3 | * | 0.1 |
| Independent Power Producers and Combined Heat and Power | 284 | 277 | 305 | 267 | 142 | 129 | 121^R | 148 | 15.6 | 7.9 |
| Coal..... | 61 | 57 | 60 | 60 | 60 | 60 | 53 ^R | 80 | 3.3 | 4.2 |
| Petroleum..... | 85 | 46 | 56 | 55 | 50 | 48 | 48 | 48 | 4.6 | 2.6 |
| Natural Gas..... | 137 | 137 | 189 | 152 | 32 | 20 | 20 | 20 | 7.5 | 1.1 |
| Other Renewables..... | 2 | 37 | - | - | - | - | - | - | 0.1 | - |
| Total Electric Industry..... | 1,826 | 2,009 | 2,075 | 2,006 | 1,895 | 1,851 | 1,890 | 1,884 | 100.0 | 100.0 |
| Coal..... | 117 | 110 | 85 | 85 | 85 | 85 | 105 | 105 | 6.4 | 5.6 |
| Petroleum..... | 579 ^R | 619 ^R | 583 | 577 | 579 | 565 | 574 | 575 | 31.7 | 30.5 |
| Natural Gas..... | 893 ^R | 892 ^R | 1,008 | 948 | 835 | 805 | 805 | 805 | 48.9 | 42.7 |
| Hydroelectric..... | 236 | 353 | 399 | 396 | 396 | 395 | 397 | 397 | 12.9 | 21.1 |
| Other Renewables..... | 2 | 37 | - | - | 1 | 1 | 10 | 3 | 0.1 | 0.1 |

See footnotes at end of tables.

Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatthours)

| Energy Source | 1990 | 1995 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | Percentage Share | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|
| | | | | | | | | | 1990 | 2006 |
| Alaska | | | | | | | | | | |
| Electric Utilities..... | 4,493,024 | 4,846,922 | 5,416,191 | 5,471,990 | 5,673,462 | 5,866,420 | 5,946,148 | 6,068,520 | 80.2 | 90.9 |
| Coal..... | 311,960 | 309,232 | 194,008 | 204,490 | 167,555 | 211,075 | 219,320 | 209,952 | 5.6 | 3.1 |
| Petroleum..... | 336,905 | 486,640 | 847,761 | 875,153 | 775,374 | 681,848 | 685,559 | 694,252 | 6.0 | 10.4 |
| Natural Gas..... | 2,869,638 | 2,678,935 | 3,027,807 | 2,952,996 | 3,147,997 | 3,475,477 | 3,576,738 | 3,939,921 | 51.2 | 59.0 |
| Hydroelectric..... | 974,521 | 1,372,115 | 1,345,665 | 1,439,351 | 1,582,536 | 1,498,020 | 1,463,942 | 1,223,607 | 17.4 | 18.3 |
| Other Renewables..... | - | - | 950 | - | - | - | 589 | 788 | - | * |
| Independent Power Producers and Combined Heat and Power..... | 1,106,482 | 1,179,194 | 1,327,575 | 1,295,336 | 665,270 | 660,297 | 630,511 | 605,677 | 19.8 | 9.1 |
| Coal..... | 198,613 | 219,698 | 370,585 | 370,798 | 382,109 | 437,352 | 403,810 | 406,982 | 3.5 | 6.1 |
| Petroleum..... | 160,211 | 133,924 | 89,228 | 87,217 | 70,900 | 65,775 | 74,559 | 74,655 | 2.9 | 1.1 |
| Natural Gas..... | 596,623 | 700,638 | 867,762 | 825,166 | 206,485 | 147,954 | 146,888 | 117,376 | 10.7 | 1.8 |
| Other Renewables..... | 151,035 | 124,934 | - | 12,155 | 5,777 | 9,215 | 5,254 | 6,663 | 2.7 | 0.1 |
| Total Electric Industry..... | 5,599,506 | 6,026,116 | 6,743,766 | 6,767,326 | 6,338,732 | 6,526,717 | 6,576,659 | 6,674,197 | 100.0 | 100.0 |
| Coal..... | 510,573 | 528,930 | 564,593 | 575,288 | 549,664 | 648,427 | 623,130 | 616,934 | 9.1 | 9.2 |
| Petroleum..... | 497,116 | 620,564 | 936,989 | 962,370 | 846,274 | 747,623 | 760,118 | 768,907 | 8.9 | 11.5 |
| Natural Gas..... | 3,466,261 | 3,379,573 | 3,895,569 | 3,778,162 | 3,354,482 | 3,623,431 | 3,723,626 | 4,057,297 | 61.9 | 60.8 |
| Hydroelectric..... | 974,521 | 1,372,115 | 1,345,665 | 1,439,351 | 1,582,536 | 1,498,020 | 1,463,942 | 1,223,607 | 17.4 | 18.3 |
| Other Renewables..... | 151,035 | 124,934 | 950 | 12,155 | 5,777 | 9,215 | 5,843 | 7,451 | 2.7 | 0.1 |

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2001 Through 2006

| Fuel, Quality | 1990 | 1995 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|---|------|-------|-------|-------|-------|-------|---------|---------|
| Alaska | | | | | | | | |
| Petroleum (cents per million Btu) | - | - | - | - | - | - | 1,026 | 1,542 |
| Average heat value (Btu per gallon) | - | - | - | - | - | - | 138,800 | 138,993 |
| Average sulfur Content (percent) | - | - | - | - | - | - | 0.19 | 0.25 |
| Natural Gas (cents per million Btu) | - | 129 | 236 | W | 229 | 279 | 342 | 365 |
| Average heat value (Btu per cubic foot) | - | 1,002 | 1,010 | 1,001 | 1,000 | 1,000 | 1,000 | 1,000 |

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2001 Through 2006
(Thousand Metric Tons)

| Emission Type | 1990 | 1995 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alaska | | | | | | | | |
| Sulfur Dioxide | | | | | | | | |
| Coal..... | 14 | 10 | 4 | 4 | 2 | 2 | 2 | 2 |
| Petroleum..... | 4 | * | 4 | 3 | 3 | 2 | 2 | 2 |
| Natural Gas..... | * | * | * | * | * | * | * | * |
| Other..... | 1 | 1 | - | - | - | - | - | - |
| Total..... | 19 | 11 | 8 | 7 | 4 | 4 | 4 | 4 |
| Nitrogen Oxide | | | | | | | | |
| Coal..... | 6 | 6 | 4 | 4 | 2 | 2 | 3 | 3 |
| Petroleum..... | 1 | 1 | 8 | 8 | 7 | 7 | 7 | 8 |
| Natural Gas..... | 6 | 5 | 6 | 6 | 6 | 15 | 7 | 7 |
| Other..... | * | * | - | * | * | * | * | * |
| Total..... | 13 | 12 | 18 | 19 | 16 | 25 | 17 | 18 |
| Carbon Dioxide | | | | | | | | |
| Coal..... | 1,450 | 1,522 | 1,401 | 1,250 | 1,222 | 1,296 | 1,269 | 1,277 |
| Petroleum..... | 334 | 445 | 797 | 819 | 717 | 650 | 637 | 648 |
| Natural Gas..... | 2,391 | 2,095 | 2,392 | 2,344 | 2,009 | 2,785 | 2,418 | 2,660 |
| Total..... | 4,175 | 4,062 | 4,591 | 4,413 | 3,947 | 4,731 | 4,323 | 4,585 |

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1990, 1995, and 2001 Through 2006

| Sector | 1990 | 1995 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | Percentage Share | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|
| | | | | | | | | | 1990 | 2006 |
| Alaska | | | | | | | | | | |
| Retail Sales (thousand megawatthours) | | | | | | | | | | |
| Residential..... | 1,661 | 1,713 | 1,891 | 1,932 | 1,987 | 2,062 | 2,062 | 2,120 | 39.1 | 34.3 |
| Commercial..... | 1,972 | 2,200 | 2,289 | 2,238 | 2,473 | 2,601 | 2,695 | 2,819 | 46.4 | 45.6 |
| Industrial..... | 459 | 546 | 1,079 | 1,088 | 1,104 | 1,126 | 1,156 | 1,243 | 10.8 | 20.1 |
| Other..... | 161 | 172 | 194 | 207 | NA | NA | NA | NA | 3.8 | NA |
| All Sectors..... | 4,254 | 4,632 | 5,454 | 5,465 | 5,564 | 5,788 | 5,913 | 6,182 | 100.0 | 100.0 |
| Retail Revenue (million dollars)..... | | | | | | | | | | |
| Residential..... | 168 | 192 | 229 | 233 | 238 | 256 | 274 | 314 | 41.7 | 39.6 |
| Commercial..... | 178 | 210 | 235 | 227 | 259 | 286 | 311 | 336 | 44.1 | 42.3 |
| Industrial..... | 36 | 46 | 82 | 83 | 87 | 94 | 107 | 143 | 9.0 | 18.1 |
| Other..... | 21 | 23 | 28 | 29 | NA | NA | NA | NA | 5.3 | NA |
| All Sectors..... | 403 | 471 | 575 | 572 | 584 | 636 | 693 | 794 | 100.0 | 100.0 |
| Average Retail Prices (cents/KWh) | | | | | | | | | | |
| Residential..... | 10.11 | 11.24 | 12.12 | 12.05 | 11.98 | 12.44 | 13.30 | 14.83 | NA | NA |
| Commercial..... | 9.01 | 9.54 | 10.29 | 10.13 | 10.49 | 10.99 | 11.56 | 11.93 | NA | NA |
| Industrial..... | 7.91 | 8.38 | 7.61 | 7.65 | 7.86 | 8.33 | 9.29 | 11.54 | NA | NA |
| Other..... | 13.22 | 13.26 | 14.37 | 14.04 | NA | NA | NA | NA | NA | NA |
| All Sectors..... | 9.48 | 10.17 | 10.54 | 10.46 | 10.50 | 10.99 | 11.72 | 12.84 | NA | NA |

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2006

| Item | Full Service Providers | | | | | Other Providers | | Total |
|---|------------------------|--------|---------|-------------|----------|-----------------|----------|---------|
| | Investor-Owned | Public | Federal | Cooperative | Facility | Energy | Delivery | |
| Number of Entities | 20 | 34 | NA | 18 | NA | NA | NA | 72 |
| Number of Retail Customers | 27,452 | 57,910 | NA | 223,213 | NA | NA | NA | 308,575 |
| Retail Sales (thousand megawatthours) | 499 | 1,627 | NA | 4,056 | NA | NA | NA | 6,182 |
| Percentage of Retail Sales | 8.08 | 26.31 | NA | 65.61 | NA | NA | NA | 100.00 |
| Revenue from Retail Sales (million dollars) | 71 | 163 | NA | 560 | NA | NA | NA | 794 |
| Percentage of Revenue | 9.00 | 20.48 | NA | 70.52 | NA | NA | NA | 100.00 |
| Average Retail Price (cents/kWh) | 14.31 | 10.00 | NA | 13.81 | NA | NA | NA | 12.84 |

Table 9 Notes: Data are shown for All Sectors. Full Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as independent Power Producers or other full service providers) prior to delivery. Other Providers sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

Table 10. Supply and Disposition of Electricity, 1990, 1995, and 2001 Through 2006
(Million Kilowatthours)

| Category | 1990 | 1995 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Alaska | | | | | | | | |
| Supply | | | | | | | | |
| Generation | | | | | | | | |
| Electric Utilities | 4,493 | 4,847 | 5,416 | 5,472 | 5,673 | 5,866 | 5,946 | 6,069 |
| Combined Heat and Power, Electric | - | - | 237 | 244 | 162 | 182 | 174 | 187 |
| Electric Power Sector Generation Subtotal | 4,493 | 4,847 | 5,653 | 5,716 | 5,836 | 6,049 | 6,120 | 6,256 |
| Combined Heat and Power, Commercial | 266 | 230 | 153 | 156 | 230 | 269 | 245 | 231 |
| Combined Heat and Power, Industrial | 841 | 949 | 937 | 895 | 273 | 209 | 211 | 188 |
| Industrial and Commercial Generation Subtotal | 1,106 | 1,179 | 1,090 | 1,052 | 503 | 478 | 457 | 418 |
| Total Net Generation | 5,600 | 6,026 | 6,744 | 6,767 | 6,339 | 6,527 | 6,577 | 6,674 |
| Total International Imports | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total Supply | 5,600 | 6,027 | 6,745 | 6,768 | 6,340 | 6,528 | 6,578 | 6,675 |
| Disposition | | | | | | | | |
| Retail Sales | | | | | | | | |
| Full Service Providers | 4,254 | 4,632 | 5,454 | 5,465 | 5,564 | 5,788 | 5,913 | 6,182 |
| Total Electric Industry Retail Sales | 4,254 | 4,632 | 5,454 | 5,465 | 5,564 | 5,788 | 5,913 | 6,182 |
| Direct Use | 1,106 | 1,164 | 1,042 | 1,064 | 1,078 | 1,079 | 330 | 289 |
| Estimated Losses | 319 | 352 | 283 | 338 | 325 | 361 | 482 | 504 |
| Total Disposition | 5,679 | 6,147 | 6,779 | 6,868 | 6,967 | 7,228 | 6,725 | 6,976 |
| Net Interstate Trade | -79 | -120 | -34 | -100 | -627 | -700 | -147 | -300 |
| Net Trade Index (ratio) | 0.99 | 0.98 | 0.99 | 0.99 | 0.91 | 0.90 | 0.98 | 0.96 |

R = Revised.

NA = Not applicable; NM = Not meaningful.

W = Withheld to avoid disclosure of individual company data.

- = Data not available.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *.)

Totals may not equal sum of components because of independent rounding.

Table 10 Notes: Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. Net Interstate Trade represents the difference between the amount of electricity produced in the State and consumed in the State. Positive values indicate a State that is a net interstate exporter of electricity; negative values indicate a State that is a net interstate importer of electricity. The Net Trade Index represents a State's electricity self-sufficiency. Values greater than 1 indicate that, on an annual net basis, the State supplied electricity consumed outside the State; values less than 1 indicate that, on an annual net basis, the State consumed electricity produced outside the State.

General Notes: Table 4 "Other Renewables" includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. The "Other" category includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. However, Table 5 "Other Renewables" includes only biogenic municipal solid waste, in addition to wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. In Table 5 "Other" includes Non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. In Table 7, "Other Renewables" emissions include biogenic municipal solid waste, and other renewable waste.

Direct use is commercial or industrial use of electricity that (1) is self-generated (2) is produced by either the same entity that consumes the power or an affiliate, and (3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.