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| --- | --- | --- |
| |  | | --- | | Energy Information Administration (EIA) Logo - Need Help? 202-586-8800 | | Top of Form    Bottom of Form  [Glossary](http://www.eia.doe.gov/glossary/index.cfm) | |
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| [Home](http://www.eia.doe.gov/) > [Renewables and Alternate Fuels](http://www.eia.doe.gov/fuelrenewable.html)> Hydroelectric | | |
|  |  |  |
| **Hydroelectric** | | |
| ***Electric Power Monthly with data for June 2010   Report Released: September 15, 2010   Next Release Date: Mid-October 2010***   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Table 1.13.B. Net Generation from Hydroelectric (Conventional) Power by State by Sector, Year-to-Date through June 2010 and 2009    (Thousand Megawatthours)** | | | | | | | | | | | | | **Census Division  and State** | **Total (All Sectors)** | | | **Electric Power Sector** | | | | **Commercial Sector** | | **Industrial Sector** | | | **Electric Utilities** | | **Independent Power Producers** | | | **2010** | **2009** | **Percent Change** | **2010** | **2009** | **2010** | **2009** | **2010** | **2009** | **2010** | **2009** | | **New England** | **4,741** | **5,026** | **-5.7** | **618** | **667** | **3,702** | **3,925** | **NM** | **NM** | **417** | **430** | | Connecticut | 301 | 314 | -4.4 | NM | NM | 276 | 288 | -- | -- | -- | -- | | Maine | 2,209 | 2,395 | -7.8 | -- | -- | 1,814 | 1,987 | -- | -- | 395 | 408 | | Massachusetts | 630 | 641 | -1.7 | 140 | 150 | 481 | 482 | NM | NM | NM | NM | | New Hampshire | 795 | 829 | -4.1 | 185 | 211 | 605 | 613 | -- | -- | NM | NM | | Rhode Island | NM | NM | -- | -- | -- | NM | NM | -- | -- | -- | -- | | Vermont | 803 | 844 | -4.8 | 268 | 279 | 523 | 552 | -- | -- | NM | NM | | **Middle Atlantic** | **14,703** | **15,807** | **-7** | **11,185** | **12,051** | **3,513** | **3,713** | **NM** | **--** | **NM** | **44** | | New Jersey | 20 | NM | -- | -- | -- | NM | NM | -- | -- | -- | -- | | New York | 13,200 | 14,264 | -7.5 | 10,516 | 11,380 | 2,679 | 2,840 | NM | -- | NM | 44 | | Pennsylvania | 1,484 | 1,526 | -2.8 | 669 | 671 | 815 | 855 | -- | -- | -- | -- | | **East North Central** | **1,918** | **2,234** | **-14.2** | **1,743** | **2,009** | **90** | **121** | **NM** | **NM** | **84** | **104** | | Illinois | 69 | 84 | -18.4 | 34 | NM | 35 | 50 | -- | -- | -- | -- | | Indiana | 226 | 245 | -7.8 | 226 | 245 | -- | -- | -- | -- | -- | -- | | Michigan | 633 | 766 | -17.4 | 579 | 696 | 43 | 57 | -- | -- | NM | NM | | Ohio | 216 | 221 | -2.6 | 216 | 221 | -- | -- | -- | -- | -- | -- | | Wisconsin | 774 | 917 | -15.5 | 689 | 812 | NM | NM | NM | NM | 73 | 90 | | **West North Central** | **4,657** | **4,593** | **1.4** | **4,566** | **4,488** | **34** | **NM** | **--** | **--** | **56** | **67** | | Iowa | 348 | 440 | -21.1 | 346 | 438 | NM | NM | -- | -- | -- | -- | | Kansas | NM | NM | -- | -- | -- | NM | NM | -- | -- | -- | -- | | Minnesota | 336 | 404 | -16.8 | 253 | 308 | NM | NM | -- | -- | 56 | 67 | | Missouri | 1,108 | 1,070 | 3.5 | 1,108 | 1,070 | -- | -- | -- | -- | -- | -- | | Nebraska | 201 | 217 | -7.4 | 201 | 217 | -- | -- | -- | -- | -- | -- | | North Dakota | 769 | 664 | 15.9 | 769 | 664 | -- | -- | -- | -- | -- | -- | | South Dakota | 1,889 | 1,791 | 5.5 | 1,889 | 1,791 | -- | -- | -- | -- | -- | -- | | **South Atlantic** | **9,130** | **7,186** | **27.1** | **7,369** | **5,382** | **1,358** | **1,413** | **NM** | **NM** | **395** | **383** | | Delaware | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | District of Columbia | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | Florida | 121 | 122 | -0.4 | 121 | 122 | -- | -- | -- | -- | -- | -- | | Georgia | 1,935 | 1,291 | 49.9 | 1,918 | 1,275 | NM | NM | -- | -- | NM | NM | | Maryland | 1,045 | 1,086 | -3.8 | -- | -- | 1,045 | 1,086 | -- | -- | -- | -- | | North Carolina | 2,777 | 2,274 | 22.1 | 2,752 | 2,253 | NM | NM | 7 | NM | NM | NM | | South Carolina | 1,471 | 891 | 65.1 | 1,444 | 871 | NM | NM | NM | NM | -- | -- | | Virginia | 935 | 650 | 43.8 | 894 | 611 | 36 | NM | -- | -- | NM | NM | | West Virginia | 846 | 872 | -3 | 240 | 251 | 233 | 259 | -- | -- | 373 | 362 | | **East South Central** | **11,435** | **11,627** | **-1.7** | **11,432** | **11,624** | **NM** | **NM** | **--** | **--** | **--** | **--** | | Alabama | 5,635 | 5,485 | 2.7 | 5,635 | 5,485 | -- | -- | -- | -- | -- | -- | | Kentucky | 1,589 | 1,860 | -14.6 | 1,586 | 1,857 | NM | NM | -- | -- | -- | -- | | Mississippi | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | Tennessee | 4,211 | 4,282 | -1.7 | 4,211 | 4,282 | -- | -- | -- | -- | -- | -- | | **West South Central** | **6,094** | **5,290** | **15.2** | **5,399** | **4,579** | **695** | **711** | **--** | **--** | **--** | **--** | | Arkansas | 2,551 | 2,020 | 26.3 | 2,549 | 2,019 | NM | NM | -- | -- | -- | -- | | Louisiana | 667 | 682 | -2.1 | -- | -- | 667 | 682 | -- | -- | -- | -- | | Oklahoma | 2,005 | 1,904 | 5.4 | 2,005 | 1,904 | -- | -- | -- | -- | -- | -- | | Texas | 870 | 684 | 27.2 | 844 | 656 | NM | NM | -- | -- | -- | -- | | **Mountain** | **15,071** | **17,344** | **-13.1** | **13,040** | **14,948** | **2,032** | **2,396** | **--** | **--** | **--** | **--** | | Arizona | 3,157 | 3,408 | -7.4 | 3,157 | 3,408 | -- | -- | -- | -- | -- | -- | | Colorado | 991 | 1,181 | -16.1 | 910 | 1,086 | 81 | 95 | -- | -- | -- | -- | | Idaho | 4,231 | 5,421 | -21.9 | 3,907 | 5,035 | 324 | 386 | -- | -- | -- | -- | | Montana | 4,432 | 5,095 | -13 | 2,819 | 3,197 | 1,613 | 1,898 | -- | -- | -- | -- | | Nevada | 1,190 | 1,192 | -0.2 | 1,180 | 1,181 | NM | NM | -- | -- | -- | -- | | New Mexico | 144 | 175 | -17.6 | 144 | 175 | -- | -- | -- | -- | -- | -- | | Utah | 340 | 390 | -12.7 | 336 | 385 | NM | NM | -- | -- | -- | -- | | Wyoming | 586 | 482 | 21.7 | 586 | 482 | -- | -- | -- | -- | -- | -- | | **Pacific Contiguous** | **67,301** | **77,583** | **-13.3** | **66,364** | **76,520** | **900** | **1,023** | **36** | **38** | **NM** | **NM** | | California | 15,806 | 14,464 | 9.3 | 15,103 | 13,667 | 702 | 797 | -- | -- | -- | -- | | Oregon | 16,294 | 19,788 | -17.7 | 16,173 | 19,652 | 121 | 137 | -- | -- | -- | -- | | Washington | 35,202 | 43,331 | -18.8 | 35,088 | 43,202 | 77 | 90 | 36 | 38 | NM | NM | | **Pacific Noncontiguous** | **673** | **684** | **-1.6** | **646** | **640** | **NM** | **23** | **--** | **--** | **NM** | **NM** | | Alaska | 638 | 630 | 1.1 | 638 | 630 | -- | -- | -- | -- | -- | -- | | Hawaii | 36 | 54 | -33.5 | NM | NM | NM | 23 | -- | -- | NM | NM | | **U.S. Total** | **135,724** | **147,374** | **-7.9** | **122,362** | **132,908** | **12,338** | **13,366** | **50** | **50** | **974** | **1,050** | | NM = Not meaningful due to large relative standard error or excessive percentage change.     **Notes:** See Glossary for definitions. Values for 2009 and 2010 are preliminary.   - See Technical Notes for a discussion of the sample design for the Form EIA-923, Form EIA-906 and Form EIA-920. Negative generation denotes that electric power consumed for plant use exceeds gross generation. Totals may not equal sum of components because of independent rounding. Percent difference is calculated before rounding.   **Source:** U.S. Energy Information Administration,  Form EIA-923, "Power Plant Operations Report." | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Water is currently the leading renewable energy source used by electric utilities to generate electric power. Hydroelectric plants operate where suitable waterways are available; many of the best of these sites have already been developed. Generating electricity using water has several advantages. The major advantage is that water is a source of cheap power. In addition, because there is no fuel combustion, there is little air pollution in comparison with fossil fuel plants and limited thermal pollution compared with nuclear plants. Like other energy sources, the use of water for generation has limitations, including environmental impacts caused by damming rivers and streams, which affects the habitats of the local plant, fish, and animal life.   |  | | --- | | Ice Harbor Dam.  Ice Harbor Dam.  **Source:** National Renewable Energy Laboratory, Photographic Information Exchange. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | [**Renewable Information Team**](http://www.eia.doe.gov/cneaf/solar.renewables/page/renew_info/geninfo.html)  [**Publication**](http://www.eia.doe.gov/cneaf/solar.renewables/ilands/toc.html)**: Energy Consumption and Renewable Energy Development Potential on Indian Lands***, (To view the entire publication*)  This report provides information on the electricity use and needs of Indian households, the tribe comparative electricity rate that Indian households are paying, and the potential for renewable resources development of Indian lands. [Hydropower](http://www.eia.doe.gov/cneaf/solar.renewables/ilands/chapter3.html#hydro)  [**Database of State Incentives for Renewable Energy (DSIRE)**](http://www.dsireusa.org/index.cfm?EE=0&RE=1) A comprehensive source of information on state, local, utility, and selected federal incentives that promote renewable energy.   |  |  |  |  | | --- | --- | --- | --- | | **More tables on Hydroelectricity** | **Formats** | | | | Table 1.2 Renewable Energy Consumption by Energy Use Sector and Energy Source | [pdf](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_2.pdf) | [xls](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_2.xls) |  | | Table 1.3 Renewable Energy Consumption for Electricity Generation by Energy Use Sector and Energy Source | [pdf](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_3.pdf) | [xls](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_3.xls) |  | | Table 1.11 Electricity Net Generation From Renewable Energy by Energy Use Sector and Energy Source | [pdf](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_11.pdf) | [xls](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_11.xls) |  | | Table 1.12 U.S. Electric Net Summer Capacity | [pdf](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_12.pdf) | [xls](http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_12.xls) |  | | | |  |

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