

Colorado Energy National Rankings

2023

U.S. Energy Information Administration (EIA) Overview (September 2023):

- Colorado ranks 5th in the nation for the share of renewable energy in its electricity generation, with over 37% of its electricity coming from renewable sources in 2022. (source: U.S. Energy Information Administration (EIA) Electric Power Monthly, September 2023).
 - ▶ Since 2010, Colorado's total renewable electricity net generation has more than quadrupled.
 - ▶ Wind power accounted for almost four-fifths of the state's renewable electricity in 2022.
- Colorado ranks 7th among the states in total energy production, and its per capita total energy consumption is lower than two-thirds of the states.
- As of September 2023, Colorado had more than 4,000 public electric vehicle (EV) fast-charging ports, the seventh highest among the states. Colorado is aiming to increase the share of EV sales to at least 70% of new vehicle sales by 2030.
- Colorado ranks 5th in the nation for EV car sales percentage (source: Colorado Auto Dealers Association Q3 Auto Outlook).

Electricity Rates, as of Sept. 2023:

- Residential rates were 15.03 cents per kWh, which is 8% less than the nat'l average;
- Commercial rates were 12.59 cents per kWh, which is 5% less than the nat'l average.
- Industrial rates were 8.97 cents, which is 4% higher than the nat'l average.

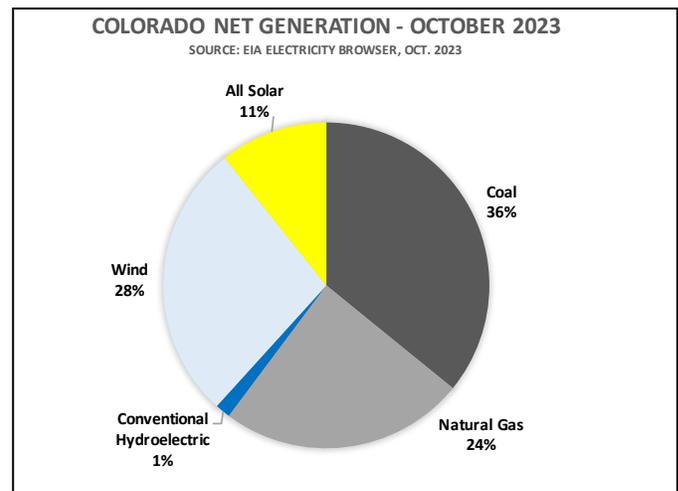
Average Residential Electricity Bill:

Colorado is ranked 3rd for lowest average "monthly bill" in June 2023 [14.43 ¢/kWh for 692 kWh = \$99.86] (source: SaveOnEnergy.com, September 2023).

Energy Transition:

- Colorado ranks 8th in the nation for 6,982 megawatts of operating wind, solar, and energy storage capacity (source: CleanPower.org, June 2023).
- From 2022 to 2031 a total of 4,300 megawatts of coal-fired capacity at nine coal-fired units have closed or are slated to close.
- The state has set ambitious renewable energy goals, including a target of 100% renewable electricity by 2040. All of Colorado's coal-fire power plants will close by 2031.

Energy Mix:





Wind Energy:

- Colorado ranks 7th in the nation for installed wind capacity, with 5,177 megawatts of wind energy installed as of Q4 of 2022. (source: American Wind Energy Association, 2023 Annual Wind Industry Report).
 - ▶ As of August 2023, there are more than 2,250 wind turbines in Colorado.

Solar Energy:

- Colorado ranks 12th in the nation for installed solar capacity with 2,995 MW of solar energy installed as of Q2 of 2023. (source: Solar Energy Industries Association 2023).
- Over the next five years, the Solar Energy Industries Association (SEIA) estimates annual installed capacity will increase by 4,084 MW, the 11th-fastest growth rate in the nation.
- Colorado is also a leader in community solar, with over 100 community solar gardens operating or under development.
- There are 124,061 individual photovoltaic (PV) installations in Colorado as of Q2 2023 (source: Solar Energy Industries Association).

Natural Gas:

- Colorado ranks 8th for natural gas production and 8th for natural gas reserves (source: U.S. EIA).
 - ▶ As of Oct. 2023, natural gas accounted for 24% of Colorado's electric generation (source: EIA State Profile, Oct. 2023).

Grid Modernization:

- Colorado is ranked 9th based on policies, programs, and investing in grid modernization (source: North Carolina Clean Energy Technology Center, 2023).

Battery Storage:

- Colorado ranks 7th for battery storage with over 100 MW of installed capacity (source: Energy Storage Association).
- Colorado is among the first states to give consumers the right to store the energy they generate from their solar panels (source: The Denver Post March 22, 2018).

Energy Efficiency:

- 8th most energy-efficient state according to WalletHub.com (Oct. 2023).
- 5th in residential energy efficiency (WalletHub, Oct. 2023).

Electric Vehicles:

- Colorado 5th for EV sales with 17.1% of new purchases (source: Colorado Automobile Dealers Association, October 2023).
- As of April 2023, Colorado had more than 4,000 public electric vehicle (EV) fast-charging ports, the seventh highest among the states (source: U.S. EIA).



Renewable energy jobs

- Nearly 64,000 Coloradans are employed across a range of categories including energy efficiency, renewable electricity generation and clean vehicles (source: E2's "Clean Jobs Colorado report" analyzed on 2022 federal employment data).
 - ▶ 3rd in wind energy jobs;
 - ▶ 6th in overall renewable energy jobs;
 - ▶ 9th in bioenergy jobs.

Research and development (R&D):

- Colorado is also a leader in the development of new renewable energy technologies. For example, Colorado is home to the National Renewable Energy Laboratory (NREL), which is the world's leading laboratory for renewable energy research and development.

Buildings Efficiency:

- Colorado ranks #5 nationally for "Total Number of LEED H1-certified" buildings in 2023 (source: 2023 Commercial Property Executive).

Hydro Power:

- 2nd for small hydro installations (source: Colorado Small Hydro-power Association);
- Colorado ranks 23rd for Utility Scale Hydro Projects with 96,000 megawatt hours (source: U.S. EIA, June 2023).

Pumped Storage Hydropower:

- Colorado ranks 11th for Pumped Storage Hydropower Capacity (MW) Cumulative by the end of 2022 (source: DOE's U.S. Hydropower Market Report 2023 Edition).



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