

Electricity generation by renewable sources



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Electricity generation from renewables

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this

Renewable Energy

Renewables made up 22.7 percent of electricity generation in 2024, with hydro, solar and wind making up the majority. That's expected to rise to 37.4 percent by 2030. Most of the increase is expected to



Electricity Generation

59% of global electricity is generated from fossil fuels in thermal power plants, where an average of 55% to 70% of resource energy is lost as waste heat. Electricity generation from cleaner renewable

U.S. power generation by source 2024, Statista

Most electricity in the U.S. is generated from steam turbines, which can be powered by fossil and nuclear fuels, biomass, geothermal, and solar thermal energy. Other systems such as gas



[Renewable energy outpaces coal for electricity generation in historic](#)



[Renewables overtake coal as world's biggest source of electricity](#)

Renewable energy overtook coal as the world's leading source of electricity in the first half of this year - a historic first, according to new data from the global energy think tank Ember.

Renewable energy contributed 34.3% of all global electricity generated in the first half of 2025, while coal fell to 33.1%, the energy think tank Ember found. Renewable energies include



Electricity explained

The three major categories of energy for electricity generation are fossil fuels (coal, natural gas, and petroleum), nuclear energy, and renewable energy. Most electricity is generated with steam turbines

Renewables

Electricity generation from renewables accounts for about 42% of the total renewable energy supply. For non-bioenergy renewable sources, this share is as high as 82% with the remainder in the form of



Electricity Production by Source: Global Energy Mix

Explore how global electricity consumption patterns shape demand for different sources, and see detailed renewable energy statistics for capacity and investment trends.

California Power Generation and Power

Sources

California's economy depends upon affordable, reliable, and environmentally sound supplies of power generated from renewable energy, hydroelectric power, and natural gas.



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