



Proportion of wind power generation in the south

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This map uses data from the EIA to show how much wind electricity different U.S. states generate, and breaks down wind's share of total electricity generation in top wind power producing states.

Iowa was by far the state with the highest wind penetration, with almost 63 percent of its electricity production covered by wind.

Produced using a combination of weather data and computer modeling, these maps estimate the average annual wind speeds 30 meters above the ground.

Although Iowa holds close to half the number that Texas has, the current recorded wind generation is nearer to one-third of the power generated by the Texas wind turbines.

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 document.

Because of geographic differences in wind resource potential, wind generation varies across regions. We grouped states into regional groups that have similar wind capacity factor patterns.

In 2019, wind power surpassed hydroelectric power as the largest renewable energy source in the U.S. In March and April of 2024, electricity generation from wind exceeded generation from coal, once the dominant source ...

The following table shows states with significant wind energy generation, the amount (in thousand megawatt-hours) produced in November, and the percentage increase or decrease since the previous month.

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This is a list of U.S. states by total electricity generation, percent of generation that is renewable, total renewable generation, percent of total domestic renewable generation, and carbon intensity in 2024. The largest renewable electricity source was wind, which has exceeded hydro since 2019.

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