

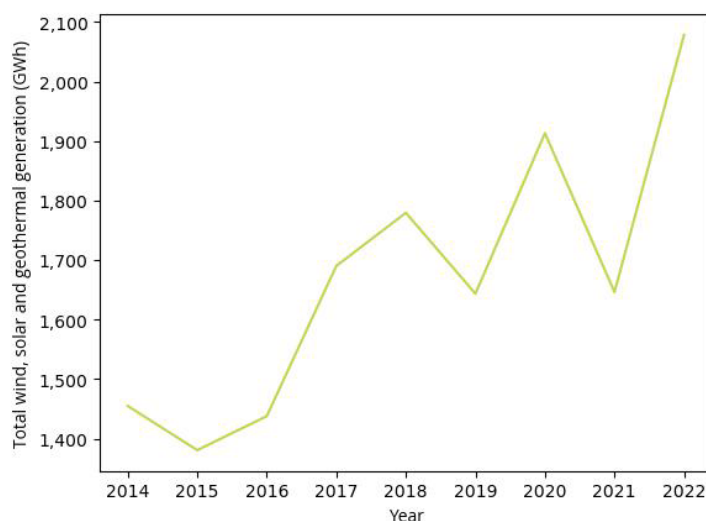


Renewables on the Rise

Charting West Virginia's progress toward a clean energy future

In 2022, West Virginia produced the equivalent of 6% of the electricity it consumes from solar, wind and geothermal power, compared with just 4% in 2013, part of a larger transition toward clean energy technologies.

- **Solar energy:** In 2022, West Virginia generated eight times as much solar power as it did in 2013, enough to power 3,124 typical homes.
- **Wind energy:** In 2022, West Virginia generated 1.5 times as much wind power as it did in 2013, enough to power 192,329 typical homes.
- **Energy efficiency:** Energy efficiency measures installed in West Virginia in 2021 will save 47 gigawatt-hours of power over their lifetimes, enough to power 4,381 typical homes for a year.
- **Electric vehicles:** There were 817 electric vehicles sold in West Virginia in 2022, eight times as many as in 2013.
- **EV charging ports:** West Virginia had 391 charging ports for electric vehicles at the end of 2022, nine times as many as in 2013.
- **Battery energy storage:** West Virginia had 0.05 gigawatts of battery energy storage on the grid in 2022, 1.5 times as much as in 2013.



More electricity in the state is being generated from the sun, the wind and the earth than a decade ago. (Data: Energy Information Administration)

The Inflation Reduction Act: Spurring clean energy growth

In 2022, Congress passed the Inflation Reduction Act, which includes key tax credits for renewable energy and electric vehicles, along with other measures to accelerate the transition to clean energy. Together with the 2021 Bipartisan Infrastructure Law, the act promises to spur continued clean energy momentum across the United States.

West Virginia has tremendous clean energy potential

According to data from the National Renewable Energy Laboratory, West Virginia has the technical potential to generate the equivalent of two times its electricity demand in 2020 from the sun and an additional 15% of its annual electricity demand from the wind.

Even in a scenario with high electrification of buildings and vehicles, West Virginia has the technical potential to generate the equivalent of 1.3 times its electricity demand in 2050 from the sun and wind.

America can accelerate clean energy progress

In West Virginia and across the nation, America has the capacity to move toward a future powered by 100% renewable energy. To get there, state and federal governments should:

- Adopt 100 percent renewable energy goals
- Provide continued financial and policy support for wind and solar power.
- Strengthen energy efficiency standards and programs to make it easier to repower America with clean energy.
- Invest in technologies like electric vehicles, building electrification and energy storage.

Renewable energy leadership across America

In 2022, America got nearly 17% of its electricity from solar, wind and geothermal power. That's up from just over 5% in 2013.

Fourteen states produced the equivalent of more than 30% of the electricity they used from solar, wind and geothermal in 2022. That is up from just two states in 2013.

State	Solar, wind and geothermal generation as share of electricity consumption
Iowa	83%
South Dakota	77%
Kansas	70%
North Dakota	65%
New Mexico	62%
Wyoming	62%
Oklahoma	54%
Nebraska	38%
Nevada	37%
California	36%

Top 10 states for solar, wind and geothermal energy production as a share of electricity consumption. (Data: Energy Information Administration)



Werner Slocum/NREL

Explore the growth of renewable energy online

Our Renewables on the Rise dashboard allows you to track the growth of key clean energy technologies in your state and around the country. To view the dashboard, visit <http://environmentamerica.org/center/resources/renewables-on-the-rise-dashboard/>.

