



Solar panels have become a common sight in many communities.

Wind power has grown dramatically in the Midwest.

Renewables on the Rise 2020

A decade of progress toward a clean energy future

Over the last decade, America has seen explosive growth among key technologies it will take to repower the country with clean, renewable energy.

Clean energy is sweeping across America

- **Solar energy:** In 2019, the United States generated over 30 times more solar power than it did in 2010, enough to power 16 million average American homes.¹
- **Wind energy:** In 2019, the U.S. generated more than triple the amount of wind power it did in 2010, enough to power over 33 million homes.
- **Energy efficiency:** In 2018, energy efficiency programs across the U.S. saved more than one and a half times as much electricity as they did in 2010, enough to power nearly 2.5 million homes.
- **Electric vehicles:** There were nearly 330,000 electric vehicles sold in the U.S. in 2019, up from virtually none just a decade earlier.
- **Energy storage:** The U.S. saw a 20-fold increase in utility-scale battery storage from 2010 to 2019.



Battery storage can help to integrate more renewable energy into the grid.



Electric vehicle charging stations make owning an EV more convenient.

¹ For a full list of sources, visit <https://environmentamerica.org/feature/ame/renewables-rise-2020>.

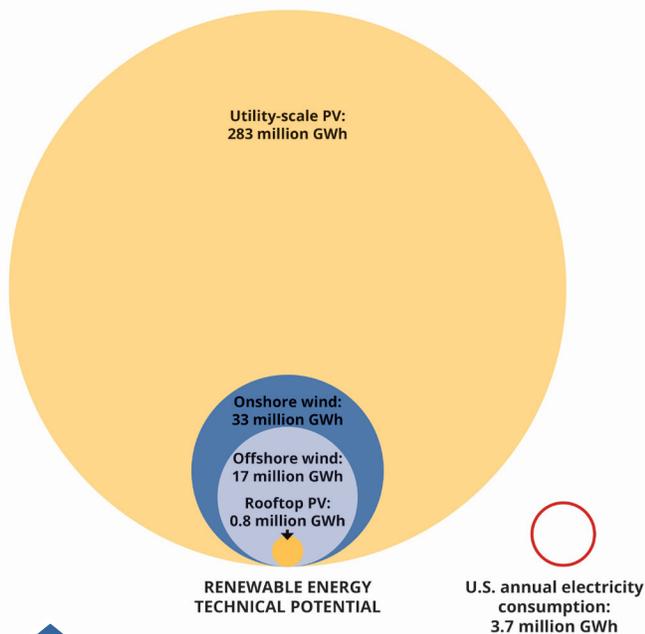
America has tremendous renewable energy potential

- America has massive reserves of renewable energy from the wind and the sun.
- According to the National Renewable Energy Laboratory, the U.S. has the technical potential to meet its current electricity needs more than 75 times over with solar energy and more than 10 times over with wind energy.

America can accelerate clean energy progress

To prevent the worst impacts of global warming, the U.S. must rapidly phase out the use of fossil fuels and commit to 100 percent clean, 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.



America has enough renewable energy potential to power the nation.

Rank	State	Wind and solar generation as percentage of electricity consumption (2019)
1	Kansas	53.7%
2	Iowa	53.4%
3	North Dakota	51.1%
4	Oklahoma	45.4%
5	New Mexico	34.1%
6	Wyoming	25.3%
7	Nebraska	24.9%
8	South Dakota	23.8%
9	California	23.7%
10	Colorado	22.7%

Top states for wind and solar generation as percentage of electricity consumption.

Renewable energy meets a rising share of America's electricity use

- America generated 10 percent of its electricity from wind, solar and geothermal power in 2019, up from 2.7 percent in 2010.
- Kansas, Iowa and North Dakota generate enough electricity from the wind and sun to cover half of their electricity consumption.
- Six states generate enough electricity from the wind and sun to cover at least one quarter of their electricity consumption.

Explore the growth of renewable energy online

Our report *Renewables on the Rise 2020* documents the rapid growth of clean energy technologies from solar power to electric vehicles. For interactive charts and data showing the rise of renewable energy in your state and around the country, visit <https://environmentamerica.org/feature/ame/renewables-rise-2020>.



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Find more information and the full report online:

www.environmentamericacenter.org

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