



*America produces almost five times as much renewable electricity from the sun and wind as in 2009, and wind and solar energy currently provide nearly 10 percent of our nation's electricity.*

# Renewables on the Rise 2019

## 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

An analysis of a decade of energy data finds that America has seen explosive growth in the key technologies needed to power America with clean, renewable energy.

**Solar energy:** In 2018, America produced over 40 times more solar power than it did in 2009, enough to power more than 9 million average American homes.

**Wind energy:** In 2018, America produced more than triple the amount of wind power it produced in 2009, enough to power over 26 million homes.

**Energy efficiency:** According to a survey by the American Council for an Energy-Efficient Economy (ACEEE), electric efficiency programs across the U.S. saved more than twice as much energy in 2017 as in 2009.

**Electric vehicles:** There were over 361,000 electric vehicles sold in the U.S. in 2018, up from virtually none in 2009.

**Energy storage:** The United States saw an 18-fold increase in utility-scale battery storage from 2009 to 2018.



*In 2018, America produced over 40 times more solar power than it did in 2009.*



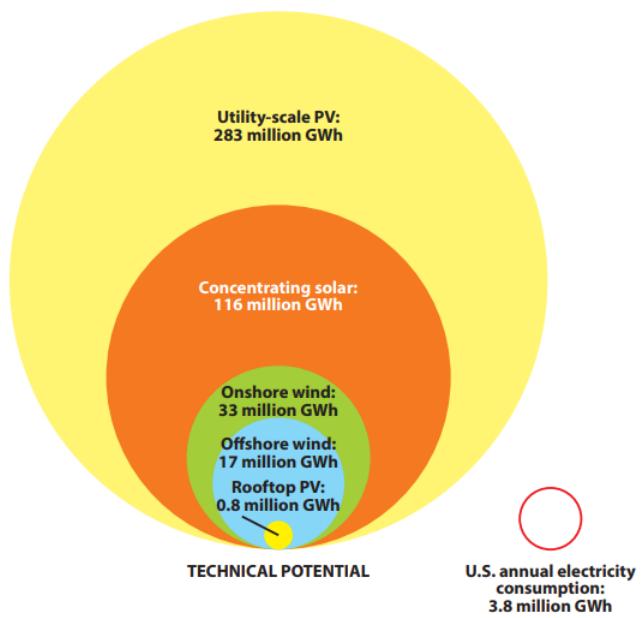
*The United States saw an 18-fold increase in utility-scale battery storage from 2009 to 2018.*

# America Must Accelerate Clean Energy Progress

To prevent the worst impacts of global warming, the U.S. must rapidly phase out the use of fossil fuels. Transitioning to clean, renewable energy will also improve our health by preventing air pollution and increase our safety by protecting us from the hazards of extracting, transporting and processing dangerous fuels.

Fortunately, the United States has more than enough renewable energy potential to support all of our energy needs. According to the National Renewable Energy Laboratory, the United States has the technical potential to meet its current electricity needs more than 100 times over with solar energy and more than ten times over with wind energy. Every state in the country has enough solar energy potential to supply all of its electricity needs.

America has already made incredible progress toward getting its energy from clean, renewable sources. Policymakers at all levels should fully commit to repowering America with clean, renewable energy.



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*For more information and the full report,  
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[www.environmentamericacenter.org](http://www.environmentamericacenter.org)*

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## Renewable Energy Makes for a Rising Share of States' Electricity Use

State	Wind and Solar Generation as Percentage of Electricity Consumption (2018)	Rank
North Dakota	54%	1
Kansas	47%	2
Oklahoma	44%	3
Iowa	43%	4
New Mexico	32%	5
Wyoming	25%	6
South Dakota	22%	7
Maine	22%	8
California	21%	9
Colorado	21%	10

Table: Top 10 States by Wind and Solar Generation as Percentage of Electricity Consumption

Renewable energy now accounts for a significant percentage of U.S. electricity use. In 2018, wind and solar power produced nearly 10 percent of all U.S. electricity generation, almost five times the percentage they produced in 2009.

In 2018, 21 states generated enough wind and solar energy to supply more than 10 percent of the electricity they consumed. Four states – North Dakota, Kansas, Oklahoma and Iowa – generated enough wind and solar power to supply at least 40 percent of their electricity needs.

