



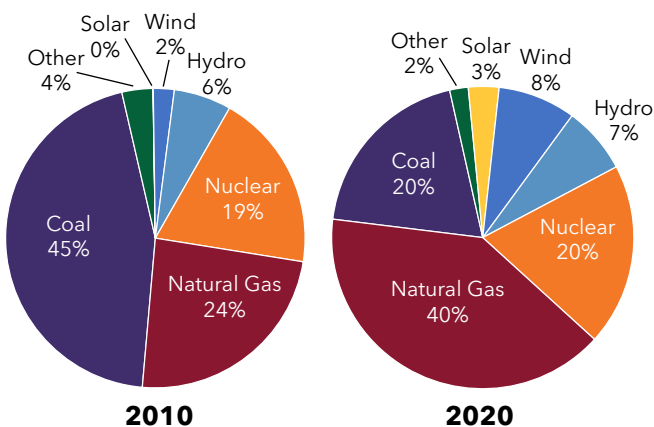
The Edison Foundation

INSTITUTE for
ELECTRIC INNOVATION

Electric Companies Are Committed to A Clean Energy Future: 10 Things You Should Know (2021 Update)

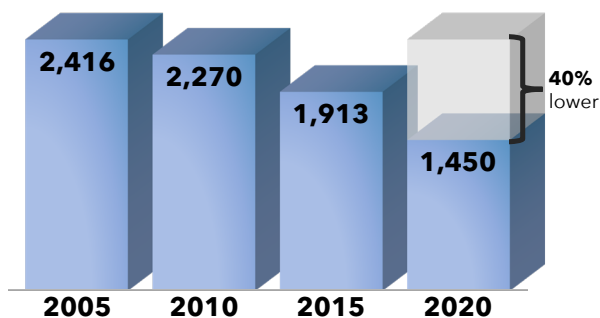
- 1 In 10 years, the electricity generation mix has changed dramatically—in 2020, 40 percent of all U.S. power generation came from clean, carbon-free sources like nuclear, hydropower, wind, and solar energy.

Electricity Delivered by Source

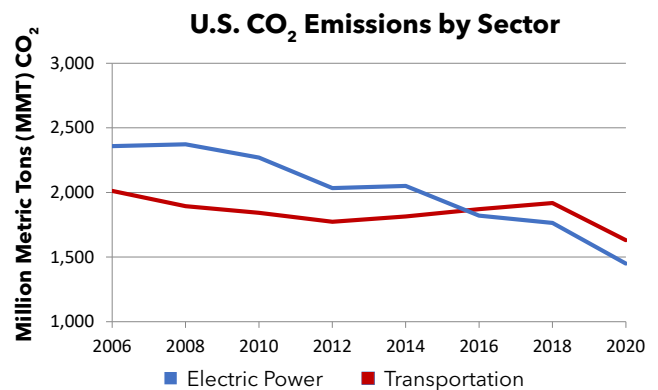


- 2 Carbon dioxide (CO₂) emissions from the U.S. power sector were 40 percent below 2005 levels at the end of 2020.

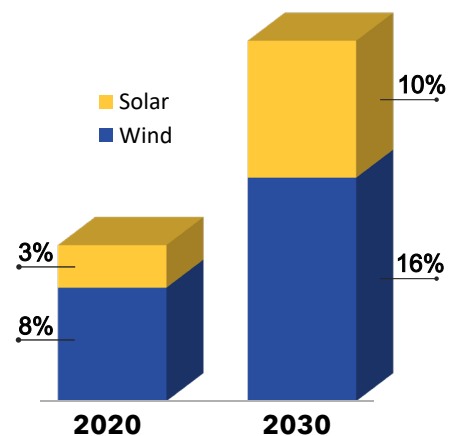
Electric Power CO₂ Emissions (MMT)



- 3 CO₂ emissions from the electric power sector are now 11 percent below transportation sector emissions.



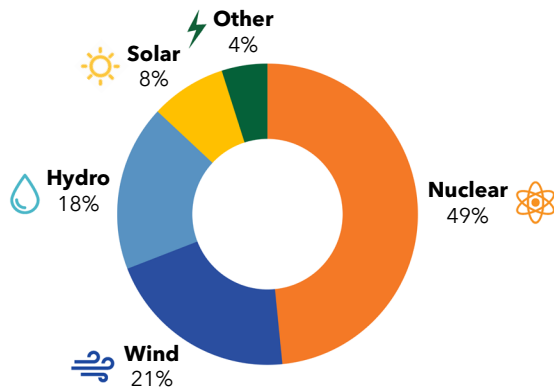
- 4 In 2020, wind and solar (all types) generated about 11 percent of all electricity used in the United States and are expected to account for about 26 percent of all electricity used in the United States in 2030.



- 5 Solar energy is growing rapidly in the United States. Solar capacity was 82 gigawatts (GW) through the end of 2020 and is expected to nearly quadruple by 2030.

- 6 Today, nuclear energy accounts for 49 percent of the carbon-free electricity generated in the United States.

Carbon-free Electricity Generated (2020)

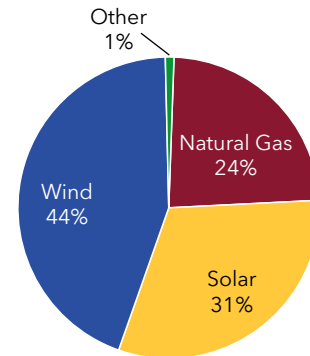


- 7 Corporations increasingly want renewable energy to power their offices and operations. Between 2016 and 2020, corporate customers contracted for about 31 GW of renewable energy. This is expected to increase.

- 8 Electric companies provide virtually all of the wind and about 67 percent of the solar energy in the country.

- 9 Investments in wind and solar energy accounted for 75 percent of all electricity capacity additions in the United States in 2020.

Capacity Additions (2020)



- 10 Clean energy integration requires smarter energy infrastructure. Electric companies invest more than \$120 billion annually to make the energy grid smarter, stronger, cleaner, more dynamic, and more secure.

Sources:

- U.S. Energy Information Administration: Electric Power Monthly (March 2021); Monthly Energy Review (March 2021); Annual Energy Outlook 2021
- Wood Mackenzie/SEIA: U.S. Solar Market Insight 2020 Year in Review (March 2021). Note: capacity values in this report have been converted to AC.
- Hitachi Powergrids Velocity Suite
- Renewable Energy Buyers Alliance
- Edison Electric Institute

About the Institute for Electric Innovation

The Edison Foundation Institute for Electric Innovation focuses on advancing the adoption and application of new technologies that will strengthen and transform the energy grid. IEI's members are the investor-owned electric companies that represent about 70 percent of the U.S. electric power industry. The membership is committed to an affordable, reliable, secure, and clean energy future.

IEI promotes the sharing of information, ideas, and experiences among regulators, policy makers, technology companies, thought leaders, and the electric power industry. IEI also identifies policies that support the business case for the adoption of cost-effective technologies.

IEI is governed by a Management Committee of electric industry Chief Executive Officers. In addition, IEI has a select group of technology companies on its Technology Partner Roundtable.



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