

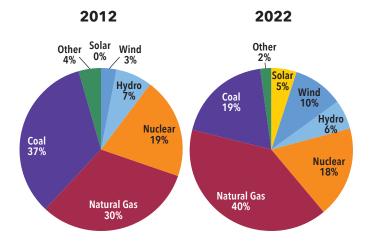


Electric Companies Are Committed to a Clean Energy Future:

10 Things You Should Know (2023 Update)

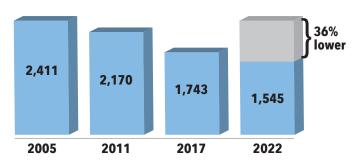
In 10 years, the electricity generation mix has changed dramatically—in 2022, more than 40 percent of all U.S. power generation came from carbon-free sources like nuclear, hydropower, wind, and solar energy.

Electricity Delivered by Source



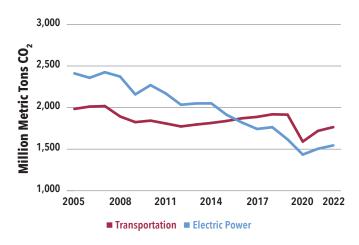
Carbon dioxide (CO₂) emissions from electricity generation have been declining for the last decade and were 36 percent below 2005 levels at the end of 2022.

Electric Power CO₂ Emissions (MMT)

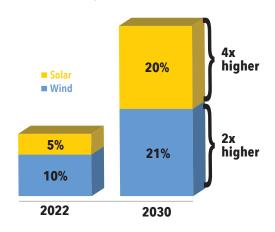


CO₂ emissions for the electric power sector are now 12 percent below transportation sector emissions.

U.S. CO, Emissions by Sector

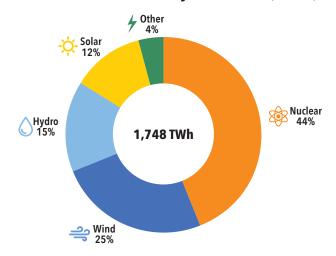


In 2022, wind and solar generated about 15 percent of all electricity used in the United States and are expected to account for about 41 percent of all electricity used in the United States in 2030.



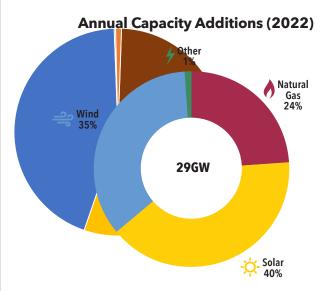
- Solar energy is growing rapidly in the United States. Total installed solar capacity was 123 gigawatts (GW) through the end of 2022 and is expected to increase fivefold by 2033.
- Today, nuclear accounts for 44 percent of the carbon-free electricity generated in the United States. Preserving the existing nuclear fleet is critical for achieving a carbon-free energy future.

Carbon-free Electricity Generated (2022)



- Electric companies are responsible for virtually all of the wind energy and 71 percent of the solar energy in the United States.
- 8 Corporations increasingly want renewable energy to power their offices and operations. Between 2018 and 2022, corporate customers contracted for about 55 GW of renewable energy. This is expected to increase.

Wind and solar energy accounted for 75 percent of all electricity capacity additions in the United States in 2022.



Clean energy integration requires smarter energy infrastructure. Electric companies invest more than \$130 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 2023);
 Monthly Energy Review (March 2023);
 Annual Energy Outlook 2023
- Wood Mackenzie/SEIA: U.S. Solar Market Insight 2022 Year in Review (March 2023). Note: capacity values in this report have been converted from DC to AC.
- Hitachi Energy: Velocity Suite
- Edison Electric Institute
- CEBA Deal Tracker 2022

About the Institute for Electric Innovation

The 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, policymakers, 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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