

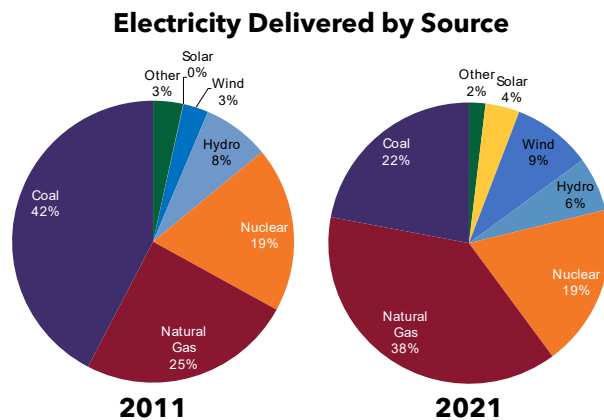


The Edison Foundation

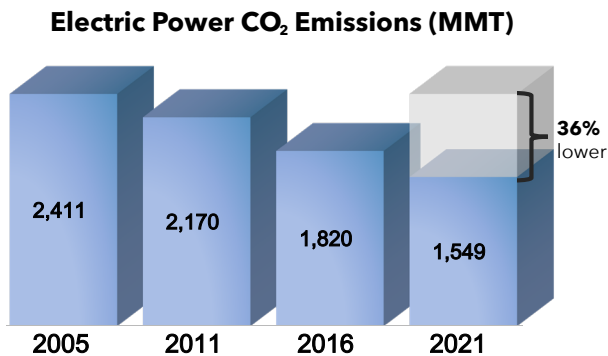
INSTITUTE for
ELECTRIC INNOVATION

Electric Companies Are Committed to a Clean Energy Future: 10 Things You Should Know (2022 Update)

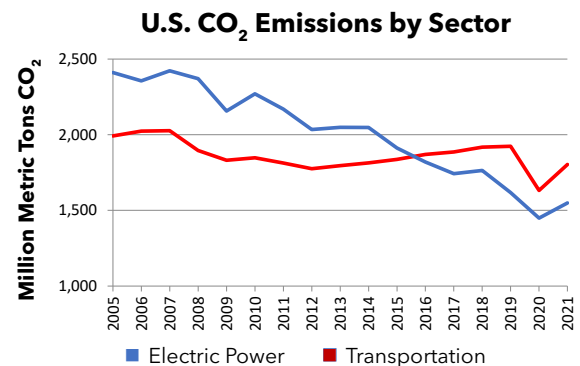
- 1 In 10 years, the electricity generation mix has changed dramatically—in 2021, 40 percent of all U.S. power generation came from clean, carbon-free sources like nuclear, hydropower, wind, and solar energy.



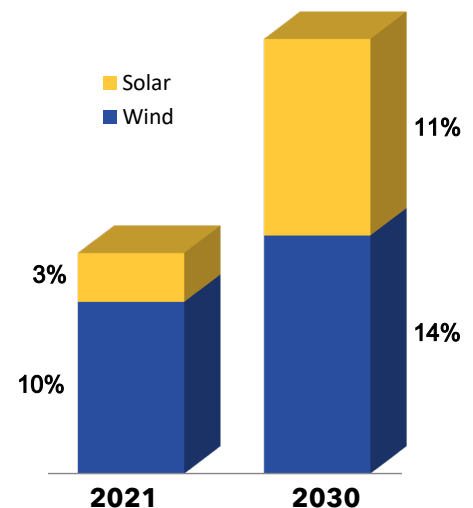
- 2 Carbon dioxide (CO₂) emissions from electricity generation have been declining for the last decade and were 36 percent below 2005 levels at the end of 2021.



- 3 CO₂ emissions for the electric power sector are now 14 percent below transportation sector emissions.



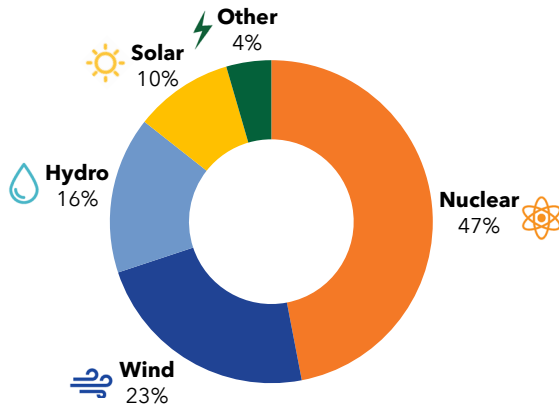
- 4 In 2021, wind and solar generated about 13 percent of the electricity used in the U.S. and are expected to account for about 25 percent of the electricity used in the U.S. in 2030.



- 5 Solar energy is growing rapidly in the United States. Solar capacity was 104 GW through the end of 2021 and is expected to more than triple in 10 years.

6 Today, nuclear energy accounts for nearly half of the carbon-free electricity generated in the United States. Preserving the existing nuclear fleet is critical to ensuring that new clean energy deployments by electric companies deliver additional emissions reductions.

Carbon-free Electricity Generated (2021)

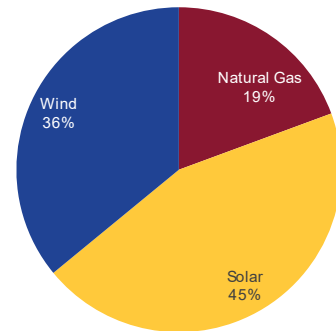


7 Electric companies are responsible for virtually all of the wind energy and more than 70 percent of the solar energy in the U.S.

8 Corporate customers increasingly want carbon-free energy to power their offices and operations. To meet customer needs, from 2017 to 2021 annual capacity additions of wind and solar nearly doubled from 13.7 GW to 26.8 GW.

9 In 2021, investments in carbon-free energy accounted for 81 percent (36 percent wind and 45 percent solar) of all electricity capacity additions in the U.S.

Annual Capacity Additions (33.4 GW in 2021)



10 Adding increasing amounts of clean energy 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 2022); Monthly Energy Review (March 2022); Annual Energy Outlook 2022
- Wood Mackenzie/SEIA: U.S. Solar Market Insight 2021 Year in Review (March 2022). Note: capacity values in this report have been converted from DC to AC.
- Hitachi Energy: Velocity Suite
- Edison Electric Institute

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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