The Electric Reliability Council of Texas (ERCOT) is a nonprofit organization that ensures reliable electric service for 90 percent of the state of Texas. The grid operator is regulated by the Public Utility Commission of Texas and the Texas Legislature.

The sum of the percentages may not equal 100% due to rounding.

*Other includes biomass and DC Tie capacity.

Reflects operational installed capacity based on December 2023 CDR report for Summer 2024.

The sum of the percentages may not equal 100% due to rounding. *Other includes solar, hydro, petroleum coke (pet coke), biomass, landfill gas, distillate fuel oil, net DC-tie and Block Load Transfer imports/exports and an adjustment for wholesale storage load.

Wind generation record (January 7, 2023)

Wind penetration record (April 10, 2022)

Solar generation record (March 26, 2024)

Solar penetration record (March 26, 2024)

Transmission projects endorsed in 2022

Fact Sheet
March 2024

1,873+ active market participants that generate, move, buy, sell or use wholesale electricity

1,250+ generating units, including PUNs

54,100+ miles of high-voltage transmission

103,609+ MW expected capacity for Summer 2024 peak demand

38,835 MW of installed wind capacity as of January 2024, the most of any state in the nation

22,258 MW of utility-scale installed solar capacity as of January 2024

5,242 MW of installed battery storage as of January 2024

27,548 MW wind generation record (January 7, 2023)

69.15% wind penetration record (April 10, 2022)

18,442 MW solar generation record (March 26, 2024)

42.38% solar penetration record (March 26, 2024)

$3.3 billion transmission projects endorsed in 2022
ERCOT manages the flow of electric power to more than 26 million Texas customers, representing about 90 percent of the state’s electric load. As the Independent System Operator for the region, ERCOT schedules power on an electric grid that connects more than 52,700 miles of transmission lines and 1,100 generation units, including Private Use Networks. ERCOT also performs financial settlement for the competitive wholesale bulk-power market and administers retail switching for more than 8 million premises in competitive choice areas. ERCOT is a membership-based 501(c)(4) nonprofit corporation, governed by a board of directors and subject to oversight by the Public Utility Commission of Texas and the Texas Legislature.

In 1999, the Texas Legislature restructured the Texas electric market and assigned ERCOT four primary responsibilities:

- Maintain system reliability.
- Facilitate a competitive wholesale market.
- Facilitate a competitive retail market.
- Ensure open access to transmission.

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March 2024