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.

More than 27 million customers in the ERCOT region

90% percent of Texas Load

75% of load is competitive-choice customers — nearly 8 million electric-service IDs (premises)

1 MW of electricity is enough to serve about 250 residential customers during ERCOT peak hours.

85,508 MW
Record peak demand
(August 10, 2023)

85,116 MW
Weekend peak demand record
(August 20, 2023)

*Unofficial until settlements occur

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

Natural Gas 44.3%
Wind 25.2%
Coal 9.8%
Solar 13.2%

0.4% Hydro
0.9% Other*
2.7% Storage
3.5% Nuclear

The sum of the percentages may not equal 100% due to rounding.
*Other includes biomass and DC Tie capacity.

2023 Energy Use
*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.

Natural Gas 45.1%
Wind 24.3%
Coal 13.9%

7.6% Other*
9.2% Nuclear

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

27,881 MW wind generation record (June 17, 2024)

69.15% wind penetration record (April 10, 2022)

19,395 MW solar generation record (June 22, 2024)

42.98% solar penetration record (March 28, 2024)

$3.3 billion transmission projects endorsed in 2022

*Unofficial until settlements occur
ERCOT manages the flow of electric power to more than 27 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 54,100 miles of transmission lines and 1,250 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.