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 26 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 can power about 200 Texas homes during periods of peak demand.

79,826 MW Record peak demand (July 20, 2022)

77,359 MW Weekend peak demand record (July 9, 2022)

2022 Generating Capacity
Reflects operational installed capacity based on December 2021 CDR report for Summer 2022.

Natural Gas 44% Wind 29% Coal 12%

1% Storage 2% Other* 4% Nuclear 9% Solar

*Other includes hydro, biomass-fired units and DC tie capacity

2021 Energy Use
*Other includes solar, hydro, petroleum coke (pet coke), biomass, landfill gas, distillate fuel oil, net DC-tie and Block Load Transfer import.exports and an adjustment for wholesale storage load.

Natural Gas 42% Wind 24% Coal 19%

5% Other* 10% Nuclear

*Other includes solar, hydro, petroleum coke (pet coke), biomass, landfill gas, distillate fuel oil, net DC-tie and Block Load Transfer import.exports and an adjustment for wholesale storage load.

393 billion kilowatt-hours of energy were used in 2021, a 2.87 percent increase compared to 2020.

Fact Sheet
July 2022

1,800+ active market participants that generate, move, buy, sell or use wholesale electricity

1,030+ generating units, including Private Use Networks

52,700+ miles of high-voltage transmission

92,000+ MW of expected capacity for summer 2022 peak demand

35,736 MW of installed wind capacity as of March 2022, the most of any state in the nation

11,462 MW of utility-scale installed solar capacity as of April 2022

1,732 MW of installed battery storage as of April 2022

27,044 MW wind Generation record (May 31, 2022)

69.15% wind Penetration record (Apr 10, 2022)

9,370 MW solar Generation record (May 19, 2022)

14.62% solar Penetration record (May 19, 2022)

$2,498 million transmission projects endorsed in 2021
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 1,030+ generation units. It also performs financial settlement for the competitive wholesale bulk-power market and administers retail switching for nearly eight 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.

July 2022