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.

ERCOT has four primary responsibilities:
- Maintain system reliability.
- Facilitate a competitive wholesale market.
- Facilitate a competitive retail market.
- Ensure open access to transmission.

- 1,800+ active market participants that generate, move, buy, sell or use wholesale electricity
- 86,000+ megawatts (MW) of expected capacity for summer 2021 peak demand
- 710+ generating units, excluding PUNs
- Transmission projects endorsed in 2020 total $1,071 million
- 46,500+ miles of high-voltage transmission

- Wind Penetration record: 60.4 percent (Jan. 30, 2021)
- 25,121 MW of installed wind capacity as of Jan. 2021, the most of any state in the nation
- 3,854 MW of utility-scale installed solar capacity as of Jan. 2021
- 225 MW of installed battery storage as of Jan. 2021

74,820 MW
Record peak demand (Aug. 12, 2019)

73,821 MW
Weekend peak demand record (Aug. 15, 2020)

1 MW of electricity can power about 200 Texas homes during periods of peak demand.

2021 Generating Capacity
Reflects operational installed capacity based on the December 2020 CDR report

- 51.0% Natural Gas
- 24.8% Wind
- 13.4% Coal
- 4.9% Nuclear
- 3.8% Solar
- 1.9% Other*
- 0.2% Storage

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

2020 Energy Use

- 45.5% Natural Gas
- 22.8% Wind
- 17.9% Coal
- 10.9% Nuclear
- 2.9% Other*

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

381 billion kilowatt-hours of energy were used in 2020, a 0.5 percent decrease compared to 2019.
The Electric Reliability Council of Texas (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 46,500 miles of transmission lines and 680+ 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. Its members include consumers, cooperatives, generators, power marketers, retail electric providers, investor-owned electric utilities, transmission and distribution providers and municipally-owned electric utilities.

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External Affairs and  
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