



2020 State of the Grid Report

State Leadership
Texas Legislature

Public Utility Commission of Texas

ERCOT Board of Directors

Technical Advisory Committee

Stakeholder Subcommittees

ERCOT is regulated by the Public Utility Commission of Texas (PUC) and the Texas Legislature. In 1999, the Texas Legislature restructured the Texas electric market and assigned ERCOT four primary responsibilities: provide system reliability, foster a competitive wholesale electricity market, foster a competitive retail market and provide open access to transmission.



In 2020, ERCOT supported more than **368+** stakeholder meetings in a remote environment.

2018

21,777 MW

2019

23,860 MW

2020

25,121 MW

2021

24,970 MW

11,241 MW

Installed and potential wind
capacity 2018-2021

Installed Planned

2018

1,857 MW

2019

2,281 MW

2020

3,974 MW

2021

4,117 MW

7,826 MW

Installed and potential solar
capacity 2018-2021

Installed Planned

2018

94 MW

2019

104 MW

2020

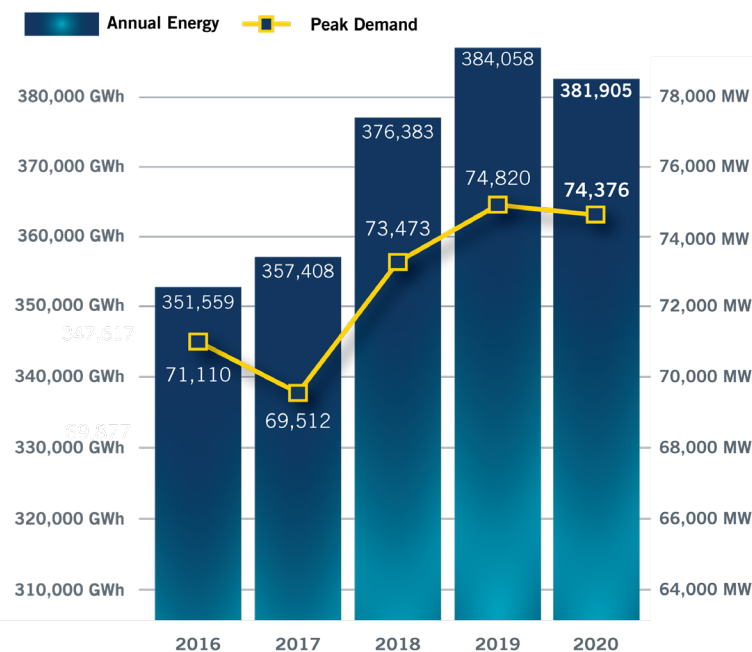
225 MW

2021
225 MW

1,426 MW

Installed and potential battery
capacity 2018-2021

Installed Planned



74,820 MW

Record peak demand
(Aug. 12, 2019)

73,821 MW

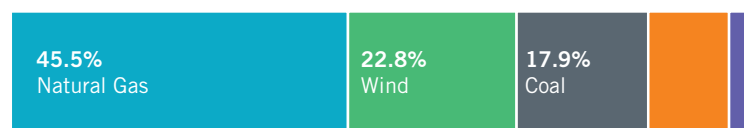
Weekend peak demand record
(Aug. 15, 2020)

710+ generating units, excluding PUNs*

Based on operational units listed in the Dec. 2020 CDR report and planned units that reached commercial operations approval at the end of Dec.

Data source: March 2021 Resource Capacity Trend Charts

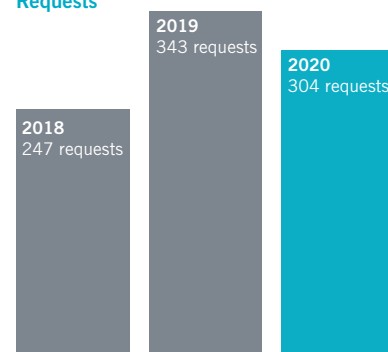
2020 Annual Energy Fuel Mix



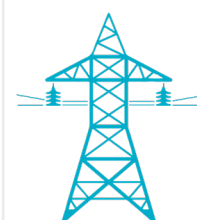
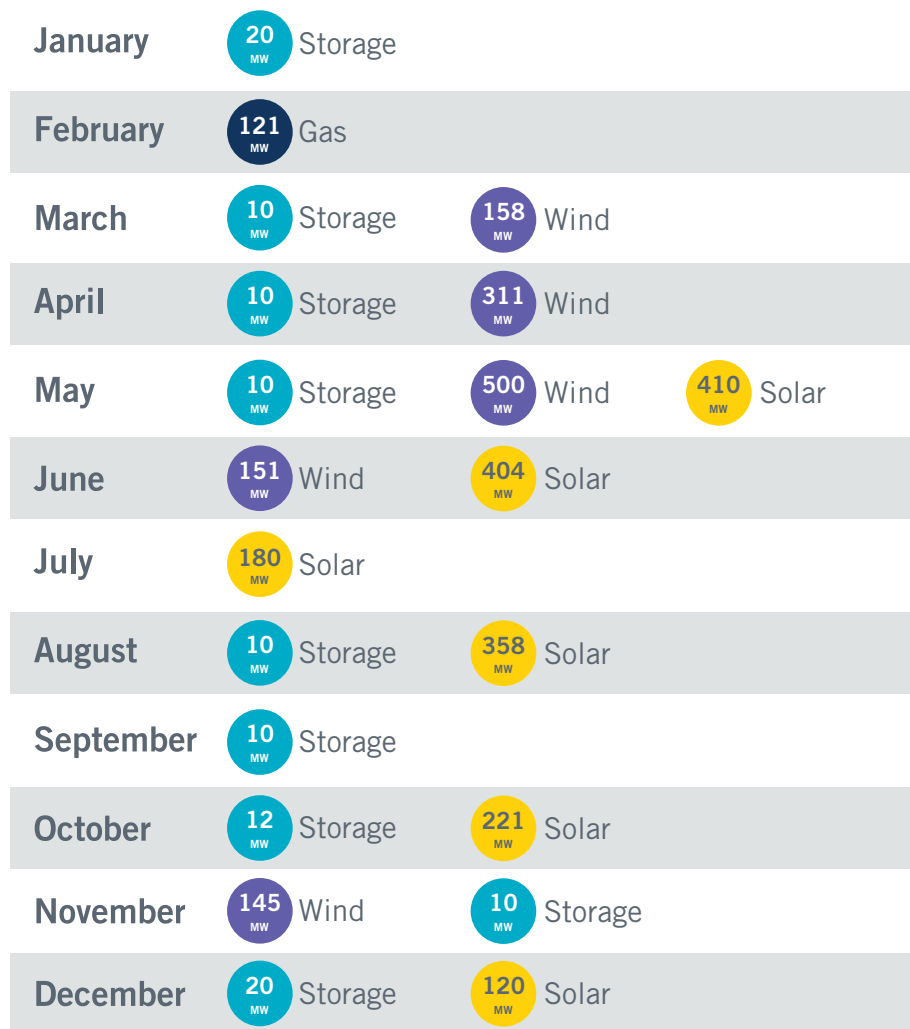
*Other includes solar, hydro, petroleum coke, biomass, landfill gas, distillate fuel oil, net DC-tie and Block Load Transfer imports/exports and an adjustment for wholesale storage load

382 billion kilowatt-hours of energy were used in 2020, a 0.6 percent decrease compared to 2019.

Interconnection Requests



New projects that became commercially operable in 2020 (Installed Capacity)



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

- 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
- Wind Generation record: 22,893 MW (Jan. 14, 2021)
- Wind Penetration record: 66.47 percent (Mar. 22, 2021)

Transmission improvements endorsed and/or accepted by ERCOT in 2020



56 miles

of new transmission lines



422 miles

of existing circuit replacements or upgrades



\$1,043 million

of overall transmission improvements

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

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