ERCOT
MONTHLY

December 2025

A RECAP OF KEY INFORMATION FROM THE PREVIOUS MONTH, A LOOK AT THE UPCOMING MONTH, AND A SNAPSHOT OF ADDITIONAL KEY ITEMS
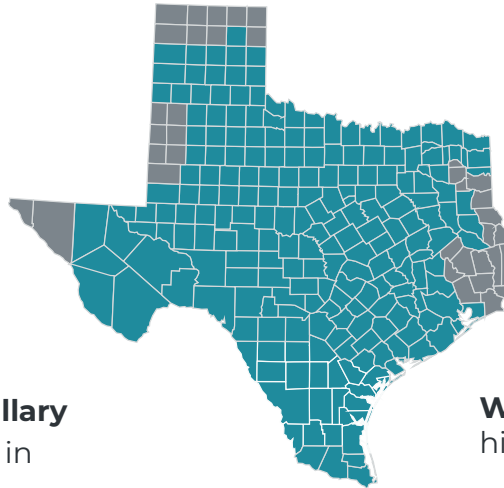
Contents

November 2025
Look Back

64,698* MW

November 2025
peak demand record

(November 17, 2025)

ERCOT procured
$15.03 million in **Ancillary Services** for grid reliability in November 2025

60,174 MW

November 2024 peak

Wholesale pricing was slightly higher than this time last year

*unofficial until final settlements
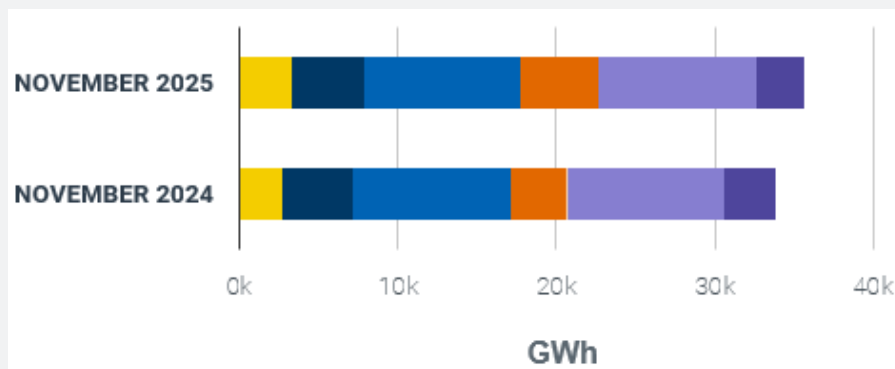
26,373 MW

November solar generation peak

27,719 MW

November wind generation peak

7,880 MW

November discharge record

November 2025 vs. 2024 Energy Generation Comparison

	November 2024	November 2025
■ Nuclear	2,703	3,311
■ Coal	4,480	4,520
■ Wind	9,911	9,888
■ Solar	3,519	4,876
■ Hydro	29	12
■ Biomass	10	22
■ Other	-55	-102
■ Net DC/BLT	36	54
■ Gas-CC	9,922	9,908
■ Gas	3,206	3,049

Monthly Outlook for
Resource Adequacy

January

In looking at the January Monthly Outlook for Resource Adequacy (MORA) report, probabilistic modeling results indicate a low risk of having to declare an Energy Emergency Alert (EEA).

- Shown at right, in January 2026, the probabilistic modeling supporting the January MORA report shows a 1.4% chance of having to declare an EEA. (Last year, January EEA probabilities peaked at 8.51% for the 7-8 a.m. hour).

In the winter months, reserve shortage risks shift to include the morning hours and are highest from 6 a.m. through 9 a.m. Central Standard Time (CST) and evening hours from 6:00 p.m. through 9:00 p.m. CST. These morning and evening risk periods correspond to hours with the highest loads and low or no solar production. Under typical grid conditions, the deterministic scenario indicates that there should be sufficient generating capacity available. The full report can be found on the Resource Adequacy page of ERCOT's website.

January 2026 MORA

Hour Ending (CST)	Chance of Normal System Conditions — Probability of CAFOR being above 3,000 MW	EMERGENCY LEVEL	
		Chance of an Energy Emergency Alert — Probability of CAFOR being less than 2,500 MW	Chance of Ordering Controlled Outages — Probability of CAFOR being less than 1,500 MW
1 a.m.	99.66%	0.15%	0.12%
2 a.m.	99.58%	0.25%	0.18%
3 a.m.	99.65%	0.19%	0.14%
4 a.m.	99.68%	0.16%	0.08%
5 a.m.	99.69%	0.14%	0.10%
6 a.m.	99.50%	0.31%	0.27%
7 a.m.	99.19%		0.41%
8 a.m.	97.79%	1.40%	1.18%
9 a.m.	98.80%		0.60%
10 a.m.	99.71%	0.16%	0.11%
11 a.m.	99.94%	0.04%	0.04%
12 p.m.	99.95%	0.03%	0.03%
1 p.m.	100.00%	0.00%	0.00%
2 p.m.	100.00%	0.00%	0.00%
3 p.m.	100.00%	0.00%	0.00%
4 p.m.	100.00%	0.00%	0.00%
5 p.m.	99.99%	0.00%	0.00%
6 p.m.	99.98%	0.00%	0.00%
7 p.m.	99.59%	0.27%	0.20%
8 p.m.	99.62%	0.28%	0.23%
9 p.m.	99.44%	0.34%	0.30%
10 p.m.	99.60%	0.22%	0.18%
11 p.m.	99.68%	0.20%	0.14%
12 a.m.	99.75%	0.13%	0.06%

Note: Probabilities are not additive.

Additional
Items of Note

ERCOT Announces Strategic Organizational Changes

ERCOT has announced a series of strategic organizational changes aimed at accelerating innovation, strengthening grid reliability, and supporting the unprecedented growth in electric demand across Texas. Two new ERCOT organizations, *Interconnection and Grid Analysis* and *Enterprise Data and Artificial Intelligence (AI)*, officially launched in January 2026.

The new *Interconnection and Grid Analysis* organization will better support the rapid increases in large loads and generation resources seeking grid interconnection and enable further advancements in grid analytics. Jeff Billo has been promoted to Vice President of Interconnection and Grid Analysis and will oversee generation interconnection, large load interconnection, stability analysis, and stability model validation efforts.

The *Enterprise Data and AI* organization will be led by Vice President and Chief Technology Officer. Venkat Tirupati. This organization will oversee Grid Research, Innovation, and Transformation (GRIT), Data Governance and Platform Technology, and Data Products and AI Strategy. The new Enterprise Data and AI organization aims to improve the speed of AI adoption across ERCOT, fully leverage the recently enabled Data Analytics and AI Platform, and ensure a strong focus on data governance, data product management, and data operations.

To further support its digital transformation, ERCOT has promoted Bryan Hanley to Vice President of IT Infrastructure. Mr. Hanley will oversee Infrastructure Operations, Database Services, and IT Systems Reliability. With Mr. Tirupati's transition to lead the new Enterprise Data and AI organization, Ajay Mannepalli is being promoted to Vice President of DevOps and Architecture and will oversee IT Architecture and Strategy, Grid and Market Solutions, Settlements and Credit, Retail and Metering, Digital Services, and Corporate IT Services.

ERCOT Contracts with McKinsey on Large Load Batch Process

Due to the unprecedented number of Large Loads seeking interconnection to the ERCOT grid, ERCOT has contracted with McKinsey and Company to assist with the improvement of the Large Load Interconnection process, which was originally developed in 2022. There are more than 225 gigawatts (GW) of Large Loads currently seeking interconnection.

With the assistance of McKinsey's project management expertise, ERCOT will work with Large Load customers, including data centers, utilities, and other stakeholders, to develop a framework expected to identify short- and mid-term solutions to interconnection queue issues in early 2026. The goal is to provide a streamlined, transparent, and consistent interconnection process for reliably connecting Large Loads later in the year.

ERCOT Implements Real-Time Co-Optimization Plus Batteries

ERCOT has successfully implemented Real-Time Co-optimization Plus Batteries (RTC+B) in the ERCOT Market. This market design change aims to provide more flexibility in real time for ERCOT to efficiently procure energy and Ancillary Services. The new functionality includes improvements for modeling and the consideration of batteries and their state of charge for providing energy and Ancillary Services.

This enhancement represents a significant step forward in ERCOT's market development, aiming to improve grid reliability and operational efficiency. Benefits of the RTC+B system include:

- More timely procurement and management of Ancillary Services
- Better management of transmission congestion by utilizing a wider variety of resources
- Reduction in manual actions and commitments by operators
- Modeling batteries as a single device for more effective dispatch of stored energy
- Replacing inefficient supplemental reserve markets

ERCOT anticipates operational improvements and projected wholesale market savings exceeding one billion dollars annually, ultimately, benefiting Texas electric consumers.

In preparation for the December 5 go-live, ERCOT's RTC+B Task Force (RTCBTF) collaborated with stakeholders to conduct testing and market trials. The RTC+B program meets the requirements of the Public Utility Commission of Texas (PUCT) Project No. 48540, Review of Real-Time Co-optimization in the ERCOT Market.

December 2025 Capacity, Demand, and Reserves Report

Driven by strong economic expansion and large-scale consumers, such as data centers, industrial facilities, and cryptocurrency operations, the ERCOT grid continues to prepare for significant electricity demand growth over the next five to seven years.

To ensure reliability, ERCOT publishes its *Capacity, Demand and Reserves* (CDR) report twice a year, providing a forward-looking view of resource adequacy. The December 2025 CDR projects tightening reserve margins, particularly during summer and winter peak periods, as demand growth outpaces the addition of new dispatchable resources.

The report highlights two critical forecasts: **Peak Load**, which estimates the highest seasonal electricity demand, and **Net Peak Load**, which accounts for variability in renewable generation and identifies the demand that must be met by dispatchable resources such as natural gas, coal, nuclear, and batteries. Net Peak Load is especially important during high-stress periods, such as summer evenings when solar output declines and winter mornings before solar output ramps up.

The December 2025 findings show that while renewable generation continues to grow, its variability increases the reliance on dispatchable resources during critical hours. Planning Reserve Margins for upcoming summers and winters hover near or below ERCOT's recommended reliability level, underscoring the need for infrastructure investment to ensure grid reliability. For more information on the December 2025 CDR, visit our recently published Grid Insights on ERCOT Future Resource Adequacy.