

Item 6: CEO Board Update

Pablo Vegas
President and Chief Executive Officer

Board of Directors meeting

ERCOT Public February 27, 2024

Overview

Purpose

This presentation recaps ERCOT's recent Operations activity and highlights strategic areas of focus

Voting Items / Requests

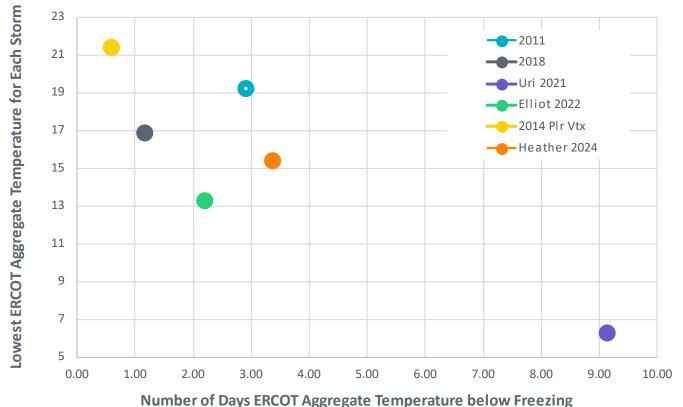
No action is requested of the Board; for discussion only

Key Takeaways

- The ERCOT grid performed well during Winter Storm Heather in January despite record demand and extended cold periods.
- ERCOT continues to focus on short- and long-term reliability planning, including developing a reliability plan for growth in the Permian Basin and working on new operating guide revisions related to the growing number of Inverter-Based Resources (IBRs) on the system.
- ERCOT added another new dashboard in continued efforts to provide awareness and transparency into the grid.



ERCOT Winter Storm Severity Comparison



- New all-time winter peak demand record of 78,314 MW set in 7-8 a.m. hour Jan 16
- Passes 74,525
 MW set Dec 23,
 2022, during
 W.S. Elliott

Key Takeaways: Key factors contributing to reliable operations throughout W.S. Heather included continued generation resource availability, aided by effective winterization and record solar performance during the daytime, significant conservation appeal response, and effective storm preparation/coordination.



Communications During Winter Storm Heather

Dashboards (Jan 12-17)	Views
Grid & Markets Conditions	1.2 million
ERCOT.com Homepage	835,000
Real-time Locational Prices	639,000
Real-Time Conditions	466,000

Social Media analytics

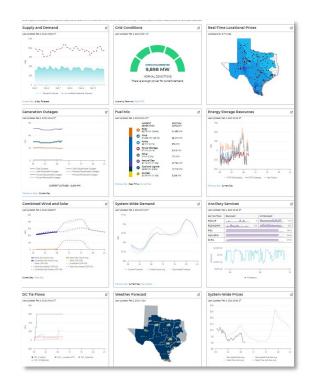
Impressions: 4.4 million

Engagements: 293k

New followers: 10k

TXANS (TX Advisory & Notification System)

- Weather Watch
- 2 Conservation Appeals for early morning hours
- Gained more than 10k new subscribers



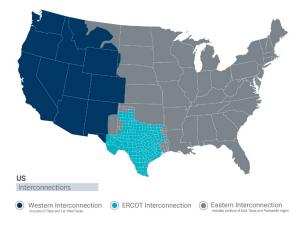




Further Interconnecting ERCOT to Neighboring Grids

Key Considerations

- Transmission Costs
- Economic Costs
- Reliability
- Market Implications





Key Takeaway: Further interconnecting the ERCOT grid is a complex issue that will require extensive analysis, modeling, and input from policy makers and regulators.



Inverter-Based Resources (IBR)

- NOGRR245, now before TAC, proposes changes to IBRs (existing and new) addressing current and future potential operational issues associated with IBRs' frequency and voltage "ridethrough" capability.
- The proposed changes establish new ride-through performance requirements consistent with IEEE 2800-2022 standard for new IBRs connecting to the ERCOT system in future years.

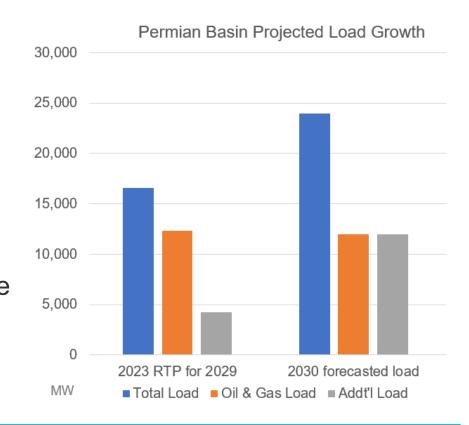


Key Takeaway: ERCOT is leading the industry conversation regarding IBR standards and addressing this well ahead of the rest of the nation due to the incredible growth of renewables (solar and wind) and batteries on the system.



Permian Basin Reliability Plan Study Main Objectives

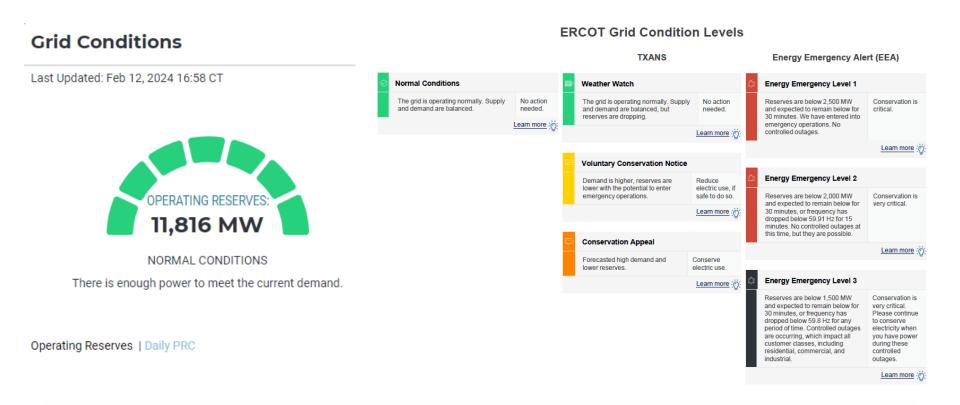
- Address extending transmission service to areas where mineral resources have been found
- Address increasing available capacity to meet forecasted load
- Provide available infrastructure to reduce interconnection times in areas without access to transmission service



Key Takeaway: In the first half of 2024, ERCOT will study the reliability needs stemming from the Permian Basin demand growth and begin to identify transmission projects to address those needs.



Grid Condition Levels Dashboard



Key Takeaway: The Grid Condition Levels dashboard now has an expandable, printable, downloadable page replacing the old EEA Matrix.

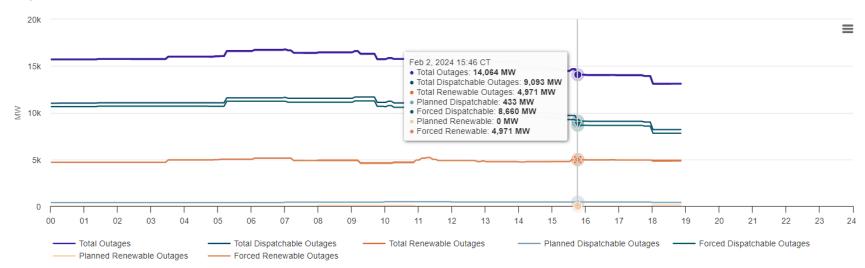


Generation Outages Dashboard

Generation Outages

Generation Outages is a graphical representation of planned and forced generation outages within the ERCOT system.

Last Updated: Feb 2, 2024 18:51 CT



CURRENT OUTAGES: 13,101 MW

Previous 6 Days | Current Day

Outages by Resource Type >

Key Takeaway: ERCOT continues to provide access and transparency to grid operations for all stakeholders.



Pengwei Du Named IEEE Fellow

- ERCOT's Pengwei Du, Supervisor, Economic Analysis & Long-Term Planning Studies, was selected into the IEEE Fellow Class of 2024.
- Pengwei was acknowledged for his work in load resource integration and smart grid planning.
- IEEE is the world's largest technical professional organization dedicated to advancing technology, and their acclaimed Fellow program recognizes members with extraordinary accomplishments.





Employee Recognition

Winter Storm Heather

- ERCOT Employees who worked during the storm
- Public Utility Commission
- Railroad Commission of Texas
- Texas Department of Emergency Management
- Texas Energy Reliability Council

Design Excellence Award

- Facilities lead the project
- Legal
- Finance
- Procurement
- IT
- Internal Audit
- Urban Foundry



Thank you to Kenan Ögelman

Kenan has provided leadership and executive support on a variety of initiatives, including:

- ADER Pilot
- ECRS
- ERS Expansion
- Fast Frequency Response
- Firm Fuel Supply Service
- Loads in Non-Spin
- Lubbock integration into Retail Market
- Performance Credit Mechanism
- Real-Time Co-Optimization
- Scarcity pricing reforms
- Securitization credit and financing after Uri
- Other market reforms considered after Uri

