



## **Filing Receipt**

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**PROJECT NO. 55718**

**RELIABILITY PLAN FOR THE                    §            PUBLIC UTILITY COMMISSION**  
**PERMIAN BASIN REGION UNDER           §**  
**PURA § 39.167                                   §                                    OF TEXAS**

**ERCOT'S MARCH 2024 STATUS REPORT**

Pursuant to the *Order Directing ERCOT to Develop a Reliability Plan for the Permian Basin Region* issued by the Commission in this Project on December 14, 2023, Electric Reliability Council of Texas, Inc. (ERCOT) hereby submits the attached monthly status report regarding its development of the reliability plan for the Permian Basin.

Respectfully submitted,

/s/ Anna Berlin

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ATTORNEYS FOR ELECTRIC  
RELIABILITY COUNCIL OF TEXAS,  
INC.

**Permian Basin Reliability Plan Study -  
Monthly Update**



Public Utility Commission of Texas  
March 1, 2024

# Status Update

- ERCOT incorporated the S&P Global load forecast data, additional load data, and related transmission topology update into the power flow model to create the initial study base cases for 2030 and 2038. ERCOT shared the two cases with Transmission Service Providers (TSP) on February 2, 2024.
- ERCOT continues to hold monthly meetings with the TSPs to update the status of this study.
  - Last meeting held on February 5, 2024
- ERCOT presented the updated study scope to the Regional Planning Group (RPG) on February 12, 2024. Presentation addressed:
  - Load forecast
  - Updated renewable generation dispatch assumptions
  - Updated transmission assumptions
- ERCOT categorized the additional non-oil & gas loads in the Permian Basin region into confirmed loads and unconfirmed loads based on the feedback from TSPs.
- ERCOT updated the initial study base cases for 2030 and 2038 to include the load forecast modeling of confirmed and unconfirmed loads along with generation and transmission assumptions shared with stakeholders at the February 12 RPG meeting.
- ERCOT is currently performing the reliability need analysis.

# Recap: Load Forecast Comparison

## Permian Basin Load Comparison (MW)

	2019 Delaware Basin Study	2021 Permian Basin Study 2030 Case	2023 RTP Study 2029 Case	Permian Basin Reliability Plan Study 2030 Case	Permian Basin Reliability Plan Study 2038 Case
Permian Basin Total Load	9,771	10,527	16,577	23,959	26,700
Permian Basin Oil & Gas Load	9,771	10,527	12,341	11,964	14,705
Additional Non-Oil & Gas Load	0	0	4,236	11,995	11,995

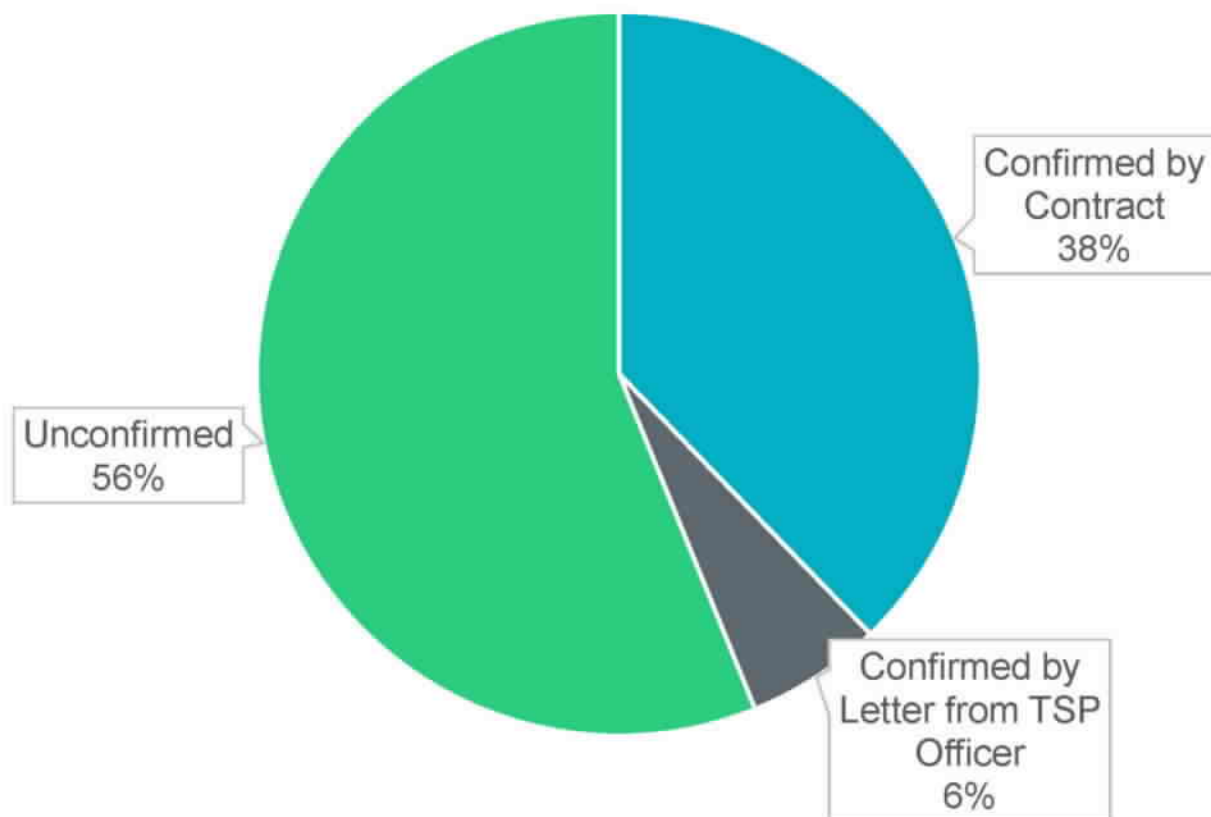
## Delaware Basin Load Comparison (MW)\*

	2019 Delaware Basin Study	2021 Permian Basin Study 2030 Case	2023 RTP Study 2029 Case	Permian Basin Reliability Plan Study 2030 Case	Permian Basin Reliability Plan Study 2038 Case
Delaware Basin Total Load	5,260	4,960	7,933	11,230	13,483
Delaware Basin Oil & Gas Load	5,260	4,960	4,884	6,439	8,692
Additional Non-Oil & Gas Load	0	0	3,049	4,791	4,791

\* The Delaware Basin load is a subset of the Permian Basin load and is included as part of the Permian Basin Reliability Plan Study.

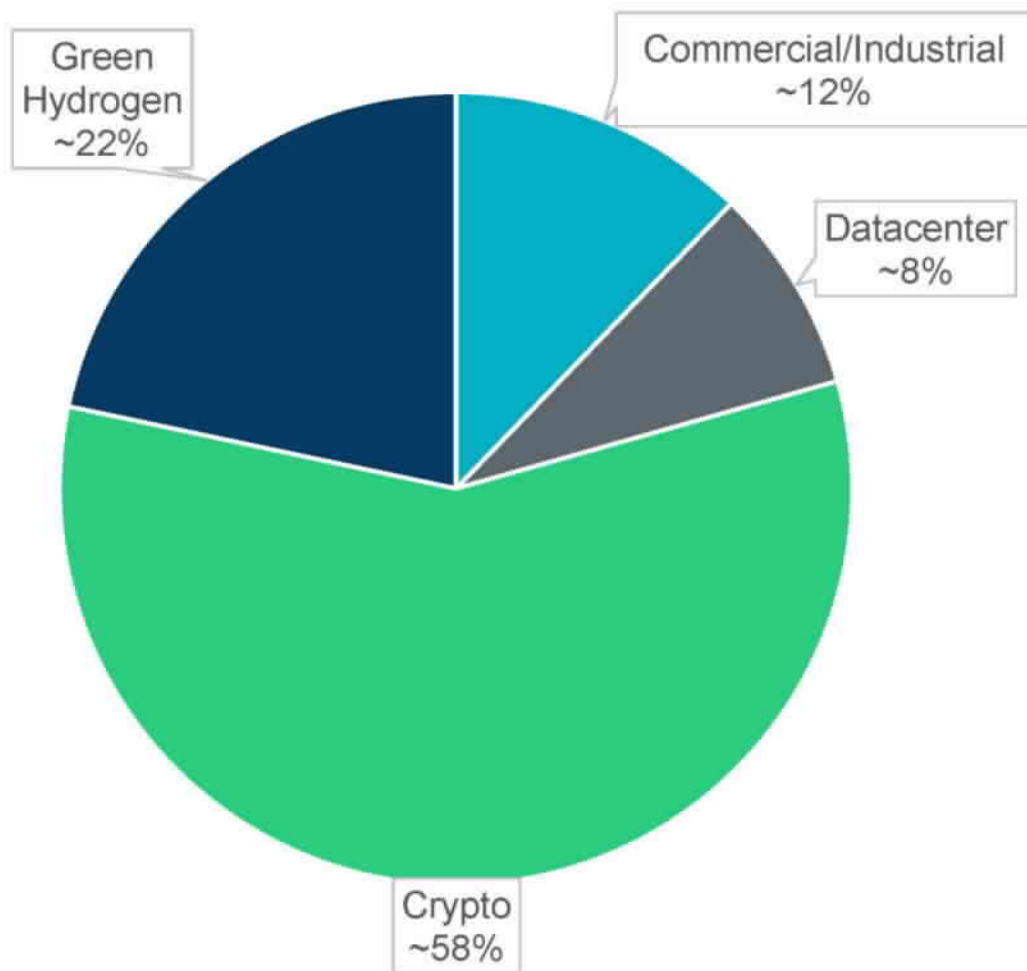
# Additional Non-Oil & Gas Load Breakdown

This chart shows the confirmed/unconfirmed percentage breakdown for the total 11,995 MW of additional non-oil & gas load.



# Additional Non-Oil & Gas Load Type Breakdown

This chart shows the approximate load type breakdown for the total 11,995 MW of additional non-oil & gas load.



# Reliability Need Analysis

- The reliability need analysis and project options will be done in two stages:
  - First, identify the reliability need and propose transmission projects for the S&P Global Permian Basin load plus the additional confirmed non-oil & gas loads.
  - Second, identify the incremental reliability need and transmission projects for the remaining unconfirmed non-oil & gas loads.
- ERCOT is currently conducting the reliability need analysis for the S&P Global Permian Basin load plus the additional confirmed non-oil & gas loads for 2030 and 2038.
- Due to the high load levels for both the 2030 and 2038 study base cases, ERCOT is spending considerable time and effort to condition the cases that include the unconfirmed non-oil & gas loads for the reliability need analysis.
- The initial reliability need analysis indicates that substantial amounts of transmission projects would be needed to serve the S&P Global Permian Basin load plus all of the additional non-oil & gas loads.



# Next Steps

- ERCOT will present the initial reliability need analysis to the RPG on March 18, 2024.
- ERCOT will begin the identification of transmission projects to address the reliability need.