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Oncor Electric Delivery Company LLC (Oncor) – Rockhound to Longshore 345-kV Double-Circuit Line Project (26RPG015) – ERCOT Independent Review (EIR) Study Scope

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Regional Planning Group (RPG) Meeting
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Introduction

Oncor Electric Delivery Company LLC (Oncor) submitted the Rockhound to Longshore 345-kV Double-Circuit Line Project (26RPG015) for Electric Reliability Council of Texas' (ERCOT) Regional Planning Group (RPG) review in April 2026

- This is a Tier 2 project with an estimated cost of approximately $144 million and would require a Certificate of Convenience and Necessity (CCN)
- Estimated in-service date (ISD) is June 2029
- Addresses post-contingency thermal overloads of Consavvy 345/138-kV autotransformers in Midland County in the Far West Weather Zone

This project is currently under ERCOT Independent Review (EIR)

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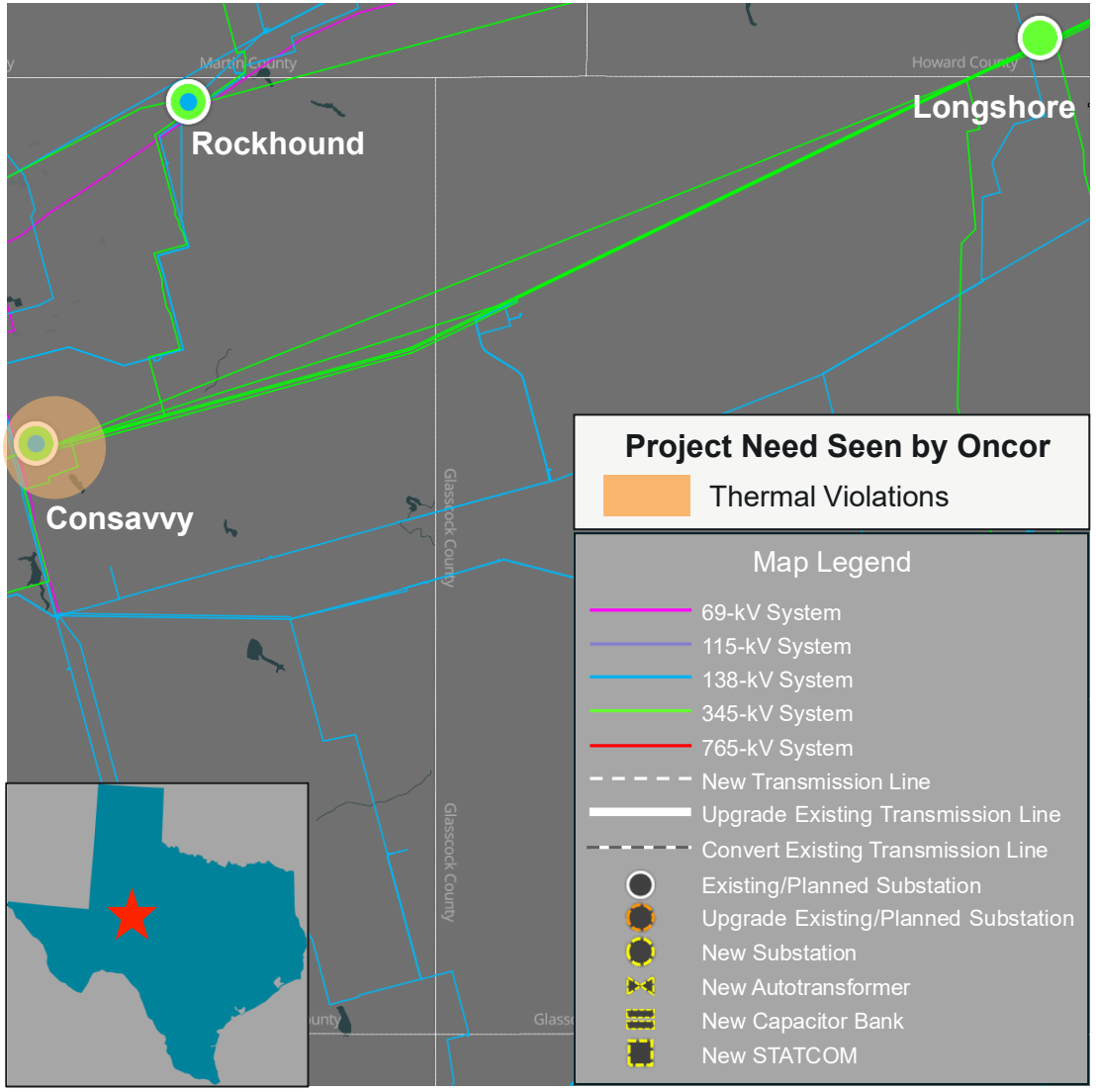
Study Area Map with Project Needs Seen by Oncor



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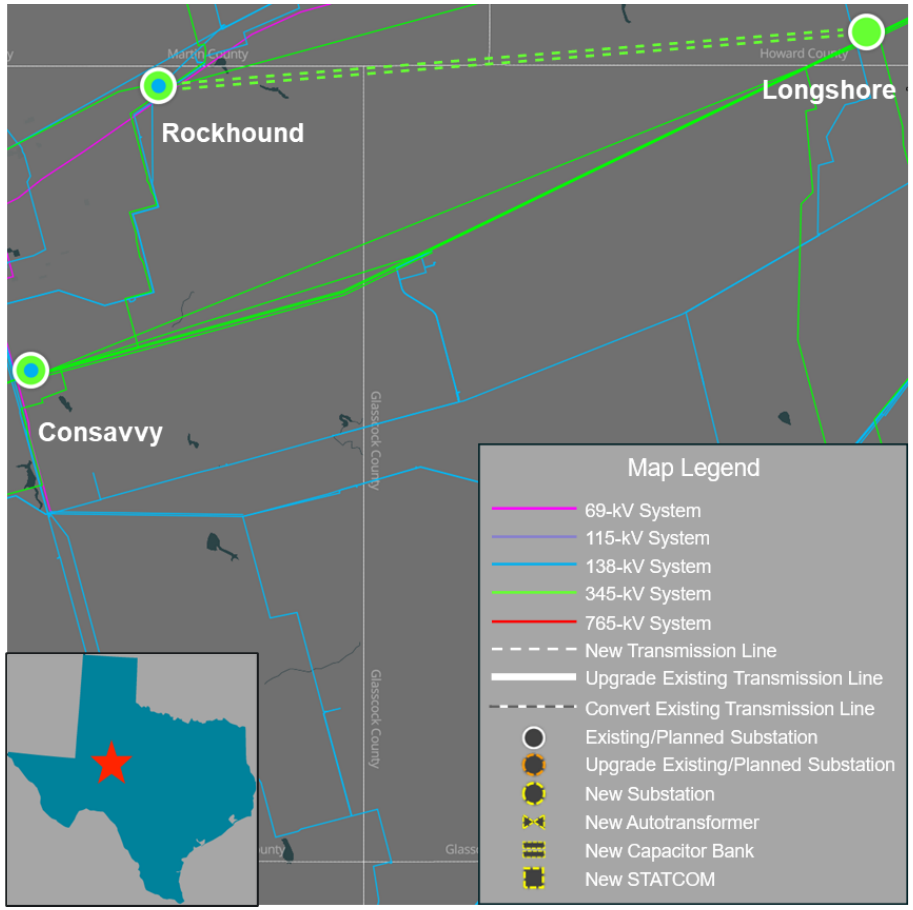
Proposed Project by Oncor

Overall Project Summary

- Construct new 345-kV double-circuit transmission line, approximately 25.5 miles per circuit



Proposed Project by Oncor (continued)

Overall Project Summary

- Build a new Rockhound to Longshore 345-kV double-circuit transmission line using double-circuit structures with both circuits installed which will require new right of way (ROW), with a normal and emergency rating of at least 2,988 MVA, approximately 25.5 miles per circuit
- Install four new 5,000 A, 345-kV circuit breakers at existing Rockhound 345/138-kV Switch
- Install four new 5,000 A, 345-kV circuit breakers at existing Longshore 345-kV Switch
- Upgrade all line terminal and associated equipment for the Rockhound 345/138-kV Switch and Longshore 345-kV Switch to meet or exceed 5,000 A

Study Assumptions

Study Region

- This project is located in the Midland, Martin, Glasscock and Howard counties in the Far West Weather Zone and all the transmission elements that are electrically close will be monitored

Steady-State Base Case

- Final 2025 Regional Transmission Planning (RTP) 2030 summer peak load case, published on Market Information System (MIS) on December 22, 2025, will be updated to construct the study base case

Transmission Updates

- New transmission projects (listed in Appendix A1), based on February 2026 Transmission Project and Information Tracking (TPIT) report will be added to the base case
- Transmission projects (listed in Appendix A2) identified in the 2025 RTP in the study area that have not been approved by RPG will be removed

Study Assumptions

Generation Updates

- New generation (listed in Appendix B) that met ERCOT Planning Guide Section 6.9(1) condition with Commercial Operation Date (COD) before the June 2029 (ISD) in the study area at the time of the study, but not already modeled in the RTP cases, will be added to the case based on April 2026 Generator Interconnection Status (GIS) report published in MIS in April 2026
- All generation will be dispatched consistent with the 2025 RTP methodology
- All recent retired/indefinitely mothballed units will be reviewed and opened (turned off), if not already reflected in the 2025 RTP Final cases

Load and Reserve Updates

- Loads in the study area may be adjusted
- Reserve will be kept consistent with the 2025 RTP

Contingencies & Criteria

Contingencies for Study Region

- North American Electric Reliability Corporation (NERC) Reliability Standard TPL-001-5.1 and ERCOT Planning Criteria
  - P0 (System Intact)
  - P1, P2-1, P7 (N-1 conditions)
  - P2-2, P2-3, P4, and P5 (Extra High Voltage (EHV) only)
  - P3 (G-1+N-1) {G-1: list in Appendix C}
  - P6-2 (X-1+N-1) {X-1: list in Appendix C}

Criteria

- Monitor all 60-kV and above busses, transmission lines and transformers in the study region (excluding generator step-up transformers)
- Thermal
  - Use Rate A for normal conditions
  - Use Rate B for emergency conditions
- Voltage
  - Voltages exceeding their pre-contingency and post-contingency limits
  - Voltage deviations exceeding 8% on non-radial load buses

Study Procedure

Need Analysis

- The reliability analysis will be performed to identify the need in the study area using the study base case

Project Evaluation

- Project alternatives will be tested to satisfy the NERC and ERCOT reliability requirements
- ERCOT may also perform the following studies
  - Maintenance Outage Evaluation
  - Long-Term Load-Serving Capability Assessment
- TSP(s) will provide Cost Estimates and Feasibility Assessment

Additional Analyses

- Congestion analysis may be performed based on the preferred transmission upgrades to ensure that the identified transmission upgrades do not result in new congestion within the study area

Deliverables and Next Step

Tentative Timelines

- Provide status updates at the future RPG meetings
- ERCOT recommendation in Q3 2026

Key Takeaway: ERCOT recommendation in Q3 2026

Thank you!
Questions/Comments?

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Appendix

- Appendix A1: Transmission Projects to be Added
- Appendix A2: Transmission Projects to be Removed
- Appendix B1: Generation Projects to be Added
- Appendix C: G-1 Generators and X-1 Transformers List to be Tested

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Appendix A1: Transmission Projects to be Added to Base Case

TPIT / RPG No	Project Name	Tier	Project ISD	County(s)
25RPG007	Salt Flat Road to Barr Ranch to Reiter 138-kV Second Circuit Project	3	Dec 2025	Ector, Midland
102815	SandLake - North McCamey Transmission Line Addition	1	Jun 2026	Glasscock
69709	Bearkat - North McCamey Transmission Line Addition	1	Jun 2026	Glasscock
25RPG035	McDonald Road Switch to Polecat Creek Switch 138-kV Line Project	3	Jun 2027	Glasscock
76669	Eiland - Elbow 138 kV Line Rebuild	3	Dec 2026	Howard
99427	Luther - Bulldog 138 kV Line Rebuild	3	Dec 2026	Howard
81305	Expanse - Vealmoor 138 kV Line Rebuild	3	Jun 2026	Martin
99269	Grady - Coronado Midstream Tap - Sale Ranch 138 kV line	3	Dec 2026	Martin
81296B	Prong Moss – Rockhound 345 kV Line Rebuild	1	May 2029	Midland
99391A	Stanton East - Midland Basin - Spraberry 69 kV Line Conversion to 138 kV	3	Dec 2026	Midland
71187	Reiter - Tesoro 345 kV Double-Circuit Line	1	Dec 2026	Midland
102846	Longshore 345 kV Switch Rebuild	1	Dec 2026	Howard

Appendix A2: Transmission Projects to be Removed from Base Case

RTP Project ID	Project Name	County(s)
2024-FW13	Courtney Creek Switch (11242) 138-kV Capacitor Bank Addition	Howard

Appendix B1: Generation Projects to be Added to Base Case

GINR	Project Name	Fuel	Project COD	Max Capacity (~MW)	County
25INR0143	Ariji BESS	OTH	6/28/2027	100.3	Howard
27INR0383	Windjammer Windpower	WIN	12/31/2028	292.6	Glasscock
29INR0040	Gusty Windpower	WIN	12/31/2028	208.5	Glasscock
24INR0578	Panther Creek 1 Repower	WIN	3/1/2026	149.2	Howard
24INR0582	Panther Creek 2 Repower	WIN	3/1/2026	123.4	Sterling

Appendix C: List of Generators and Transformers to be Tested

Generator	Transformer
Panther Creek Unit 1	Consavvy Switch 345/138-kV Transformer
Elbow Creek Wind	Rockhound Switch 345/138-kV Transformer
Windjammer Windpower	Prong Moss Switch 345/138-kV Transformer
Flurry Gas Unit 1	LongShore Switch 765/345-kV Transformer
	Prairieland Switch 345/138-kV Transformer