



**Combined Oncor Set 1 North Central &
South Central Texas Reliability Project &
Oncor Set 2 North Central & South Central
Texas Reliability Project – ERCOT
Independent Review (EIR) Scope Update**

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RPG Meeting
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Introduction

- Oncor submitted the Set 1 North Central and South Central Texas Reliability Project (25RPG41) for Regional Planning Group (RPG) review in November 2025
 - This Tier 1 project is estimated to cost \$943.92 million and will require a Certificate of Convenience and Necessity (CCN) filing
 - Estimated in-service dates (ISDs) planned in phases between 2028 and 2034
 - Addresses the thermal overloads and voltage violations in the Bell, Falls, Henderson, Hill, Limestone, McLennan, Milam, and Navarro Counties in the North Central, South Central, and East weather zones
 - This project was identified and included in the both 2024 and 2025 Regional Transmission Plan (RTP)
 - This project aligns with the transmission upgrades proposed in the 2024 RTP 765-kV Strategic Transmission Expansion Plan (STEP) Core Plan

Introduction (cont.)

- Oncor submitted the Set 2 North Central and South Central Texas Reliability Project (25RPG43) for RPG review in November 2025
 - This Tier 1 project is estimated to cost \$440.79 million and will require a Certificate of Convenience and Necessity (CCN) filing
 - Estimated ISDs planned in phases between 2028 and 2034
 - Addresses the thermal overloads and voltage violations in the Hill, McLennan, Navarro, and Smith Counties in the North Central and East weather zones
 - This project was identified and included in the 2024 RTP
 - Portion of this project was identified and included in the 2025 RTP
 - This project aligns with the transmission upgrades proposed in the 2024 RTP 765-kV STEP Core Plan

Introduction (cont.)

- Oncor presented a project overview at the January 2026 RPG Meeting
 - <https://www.ercot.com/calendar/01162026-RPG-Meeting>
- ERCOT presented status update at the February 2026 RPG Meeting
 - <https://www.ercot.com/calendar/02022026-RPG-Meeting>
- These projects are currently under combined ERCOT Independent Review (EIR)

Highlights of the Set 1 North Central and South Central Project

Oncor Project Description	RTP Project Number	Counties
<p>Construct a new Tower 345-kV Switch (SW);</p> <p>Terminate the existing Salado SW to Knob Creek SW 345-kV Line into the new Tower 345-kV SW;</p> <p>Construct a new Tower SW to Knob Creek 345-kV Line on separate structures, ~1.2-mile;</p> <p>Rebuild the Salado SW to Tower SW 345-kV Line, ~12.4-mile;</p>	2024-NC12	Bell
<p>Rebuild the existing Temple Pecan Creek SW to Bellfalls/STR26/4C 345-kV Double-Circuit Line, ~2.6-mile;</p> <p>Rebuild the existing Possum Trot SW to Bellfalls/STR26/4C 345-kV Double-Circuit Line, ~26.1-mile;</p> <p>Rebuild the existing Temple SW to Temple Pecan Creek SW 345-kV Double-Circuit Line, ~4.5-mile;</p>	2024-NC32	Bell, Falls, and McLennan
<p>Rebuild the existing Sam SW to Four Brothers SW 345-kV Line, ~2.3-mile;</p>	2024-NC69	Hill, and McLennan
<p>Rebuild the existing Possum Trot SW to St John SW to Bale SW to Stranger SW 345-kV Line, ~18.4-mile;</p>	2024-NC23	McLennan, Falls, and Limestone
<p>Rebuild the existing Revolution SW to Hubbard 138-kV Line, ~27.3-mile;</p>	2024-NC27	Hill and Navarro
<p>Rebuild the existing Mankin SW to Seven Points 138-kV Line, ~11.2-mile;</p>	2024-NC44	Henderson
<p>Rebuild the existing Trinidad SW to Mankin SW 138-kV Line, ~4.1-mile;</p>	2024-NC34	Henderson
<p>Rebuild the existing Bell County East SW to Gibson SW 345-kV Double-Circuit Line, ~23.4-mile;</p>	2024-NC60 And 2024-NC91	Bell and Milam
<p>Rebuild the existing Bell County East SW to Voss Lake SW 345-kV Double-Circuit Line, ~29.6-mile;</p> <p>Rebuild the existing Minerva SW to Cannon 138-kV Line, ~9.9-mile;</p>	2024-SC28	Bell and Milam

Projects highlighted in yellow are currently being evaluated in the ongoing EIR for the Oncor and LCRA TSC Muscovy and Voss Lake 345/138-kV Project (25RPG009)



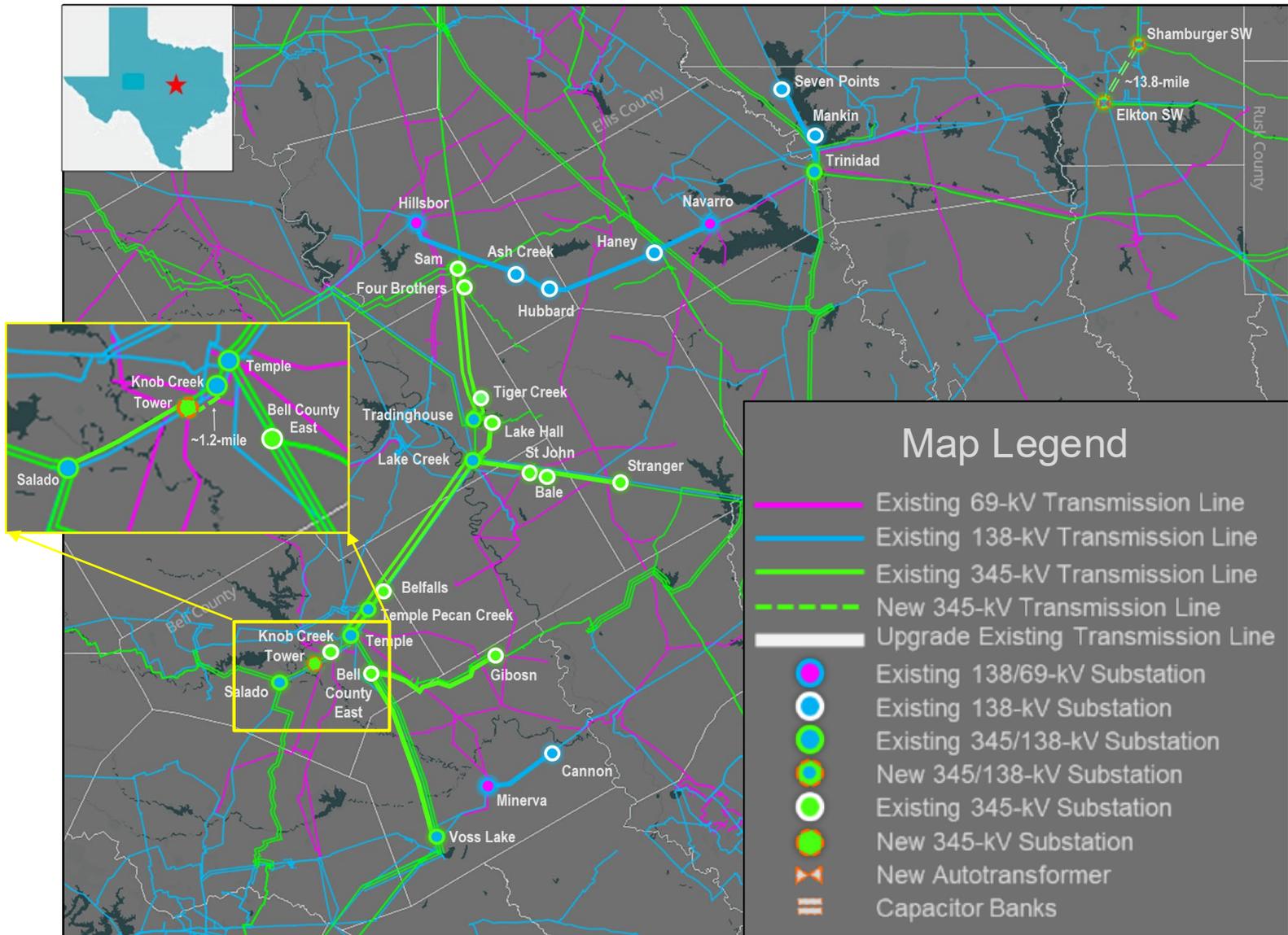
Highlights of the Set 2 North Central and South Central Project

Oncor Project Description	RTP Project Number	Counties
Rebuild the Tradinghouse Switch to Four Brothers Switch 345-kV Line, ~20.6-mile; Rebuild the Tiger Creek Switch to Sam Switch (Lone Star) 345-kV Line, ~21.2-mile; and Rebuild the Possum Trot Switch to Lake Hall Switch to Tradinghouse Switch 345-kV Double-Circuit Line, ~9.6-mile.	2024-NC32	Hill, McLennan
Rebuild the Hillsboro Switch to Ash Creek Switch 138-kV Line, ~19.30-mile	2024-NC04	Hill
Rebuild the Ash Creek Switch to Hubbard 138-kV Line, ~5.1-mile	2024-NC27	Hill, Navarro
Rebuild the existing Elkton 345/138-kV Switch; Install one new 345/138-kV autotransformer at Elkton Switch; Construct a new Elkton Switch to Shamburger Switch 345-kV Double-Circuit Line, ~13.8-mile; Rebuild the existing Shamburger 345/138 kV Switch; and Install one new 345/138-kV autotransformer at Shamburger	2024-E2	Smith

Summary of the Two Projects Proposed by Oncor

- New 345-kV lines
 - Two 345-kV single-circuit line, approximately 2.4 circuit miles
 - One 345-kV double-circuit line, approximately 27.6 circuit miles
- Upgrade of existing 345-kV and 138-kV lines
 - 345-kV lines, approximately 266.9 circuit miles
 - 138-kV lines, approximately 76.9 circuit miles
- One new 345-kV substation
- Rebuild of two existing 345/138-kV substations
 - Add one new 345/138-kV transformer at each substation
- Total combined cost is approximately \$1.385 billion

Map of the Two Projects Proposed by Oncor



Load Evaluation

- With the current method of including full Officer Letter Loads in the EIR review, the study area will have over 19 GW of large loads than the 2025 RTP load level (over 18 GW than the 2024 RTP load level)

Weather Zone	Study Load Level (MW)	2025 RTP 2031 Load (MW)	2024 RTP 2030 Load (MW)
East	3,599	3,269	3,756
North Central	55,410	39,606	46,424
South Central	30,872	27,969	21,181
Total	89,880	70,844	71,361

- This indicates the reliability need still exists for all the transmission projects proposed in the Oncor Set 1 and Set 2 North Central and South Central Texas Reliability Projects
- In addition to the proposed Set 1 and Set 2 projects, substantial amounts of new transmission upgrades would also be needed to serve these additional loads which is beyond the study scope of this EIR

Study Evaluation

- ERCOT will evaluate the overlapping upgrades (highlighted on slide 5) as part of the ongoing EIR for the Oncor and LCRA TSC Muscovy and Voss Lake 345/138-kV Project (25RPG009)
- ERCOT proposes to confirm and approve the remaining transmission projects proposed in the Oncor Set 1 and Set 2 North Central and South Central Texas Reliability Project based on the reliability need identified in the 2024 and 2025 RTP evaluations to expedite the RPG review process except for the ones which TSPs commented for alternative
- ERCOT will conduct an independent review for the project that TSPs commented for alternative

Group 1 Upgrades Evaluated in Ongoing Project

- Subset of upgrades that are currently being evaluated in the ongoing EIR for the Oncor and LCRA TSC Muscovy and Voss Lake 345/138-kV Project (25RPG009)

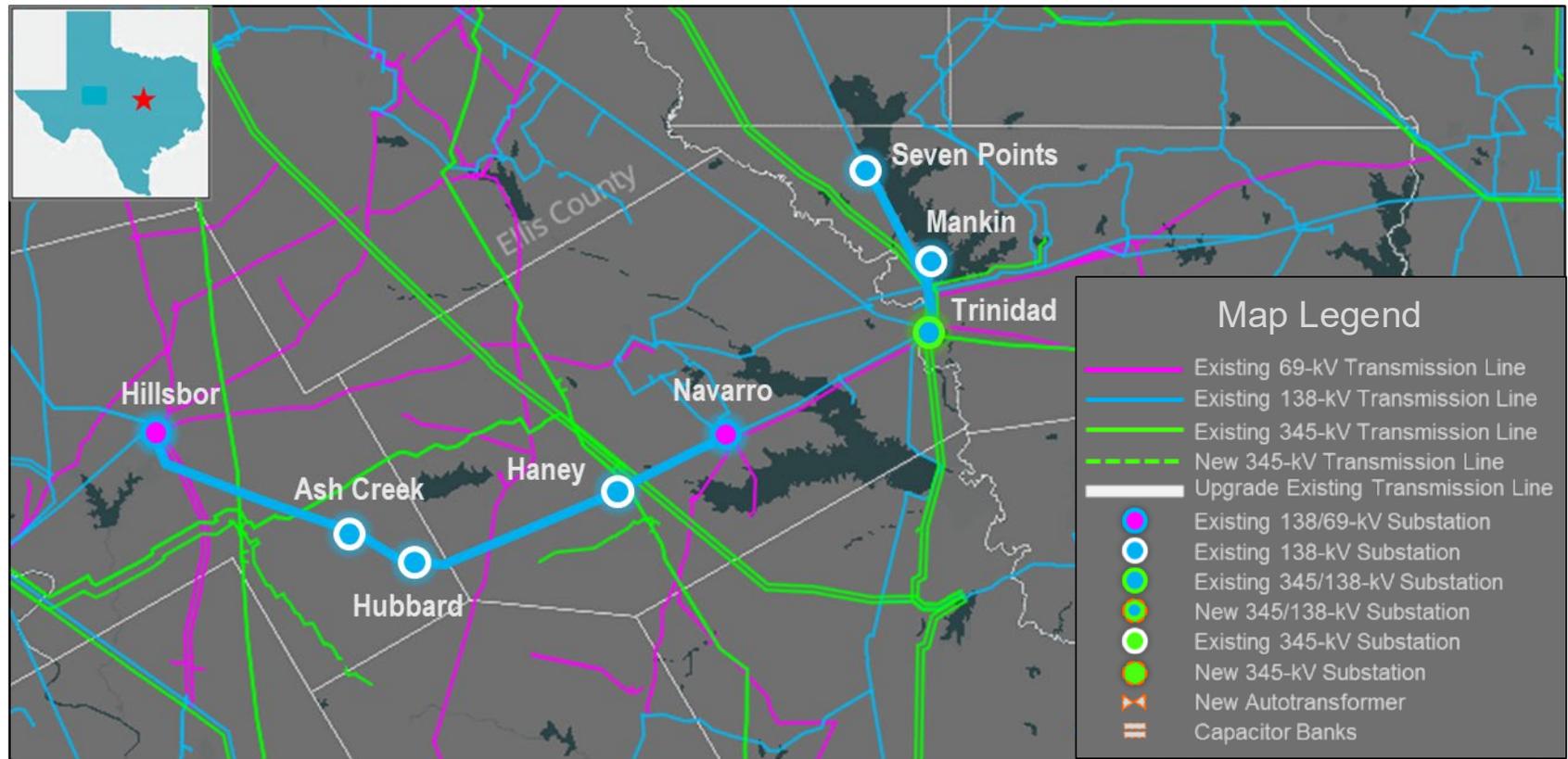
Oncor Project Description	RTP Project Number	Counties
Construct a new Tower 345-kV Switch (SW); Terminate the existing Salado SW to Knob Creek SW 345-kV Line into the new Tower 345-kV SW; Construct a new Tower SW to Knob Creek 345-kV Line on separate structures, ~1.2-mile; Rebuild the Salado SW to Tower SW 345-kV Line, ~12.4-mile;	2024-NC12	Bell
Rebuild the existing Temple SW to Temple Pecan Creek SW 345-kV Double-Circuit Line, ~4.5-mile;	2024-NC32	Bell, Falls, and McLennan
Rebuild the existing Bell County East SW to Gibson SW 345-kV Double-Circuit Line, ~23.4-mile;	2024-NC60, and 2024-NC91	Bell, and Milam
Rebuild the existing Bell County East SW to Voss Lake SW 345-kV Double-Circuit Line, ~29.6-mile; Rebuild the existing Minerva SW to Cannon 138-kV Line, ~9.9-mile;	2024-SC28	Bell, and Milam

Group 2 Upgrades for Expedited Evaluation

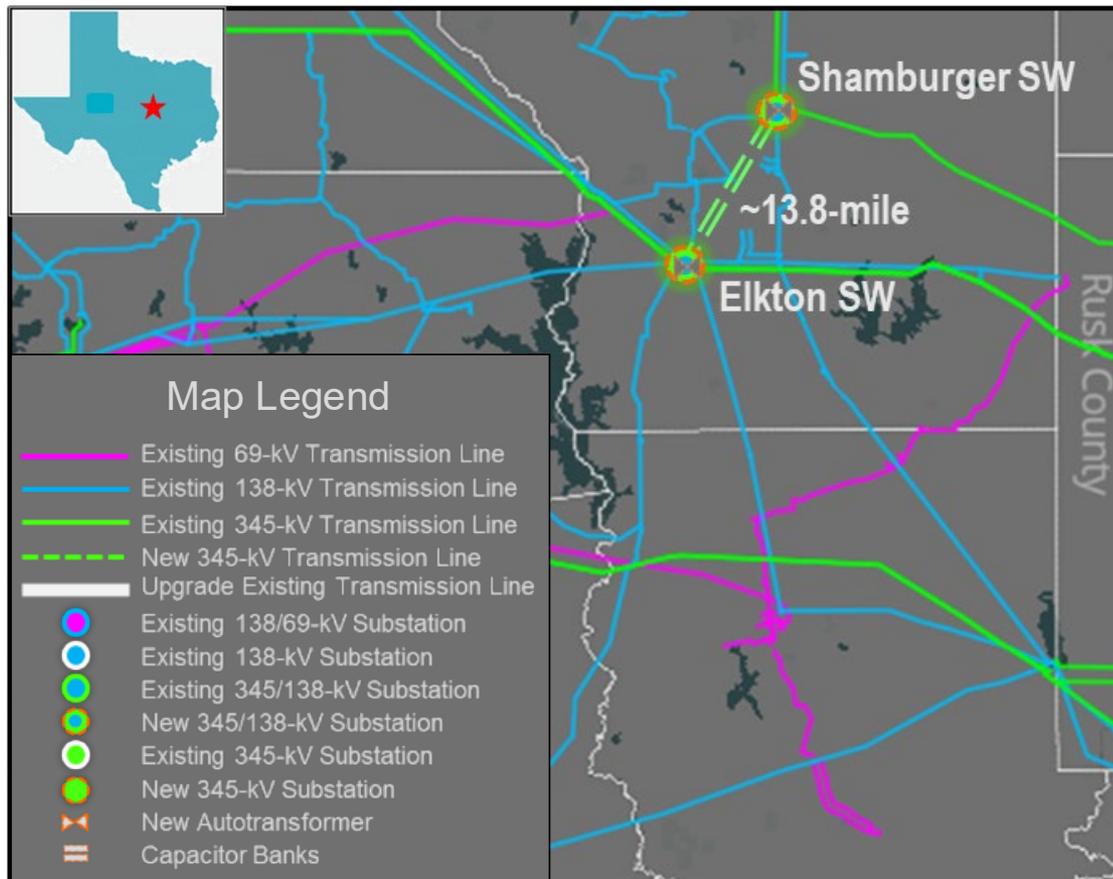
- Summary of Group 2 Expediated Evaluation
 - One new 345-kV double-circuit line, approximately 27.4 circuit miles
 - Upgrade of existing 138-kV lines, approximately 67.0 circuit miles
 - Rebuild of two existing 345/138-kV substations
 - Add one new 345/138-kV transformer at each substation
- Total cost is approximately \$381.09 million

Oncor Project Description	RTP Project Number	Counties
Rebuild the existing Revolution SW to Hubbard 138-kV Line, ~27.3 miles; Rebuild the Ash Creek Switch to Hubbard 138-kV line, ~5.1 miles; Rebuild the Hillsboro Switch to Ash Creek Switch 138-kV line, ~19.30 miles;	2024-NC27 and 2024-NC04	Hill and Navarro
Rebuild the existing Trinidad SW to Mankin SW 138-kV Line, ~4.1 miles; Rebuild the existing Mankin SW to Seven Points 138-kV Line, ~11.2 miles;	2024-NC34 and 2024-NC44	Henderson
Rebuild the existing Elkton 345/138-kV Switch; Install one new 345/138-kV autotransformer at Elkton Switch; Construct a new 345-kV double-circuit line from Elkton Switch to Shamburger Switch, ~13.8 miles; Rebuild the existing Shamburger 345/138 kV Switch; and Install one new 345/138-kV autotransformer at Shamburger;	2024-E2	Smith

Map of Group 2 Upgrades for Expedited Evaluation in North Central



Map of Group 2 Upgrades for Expedited Evaluation in East

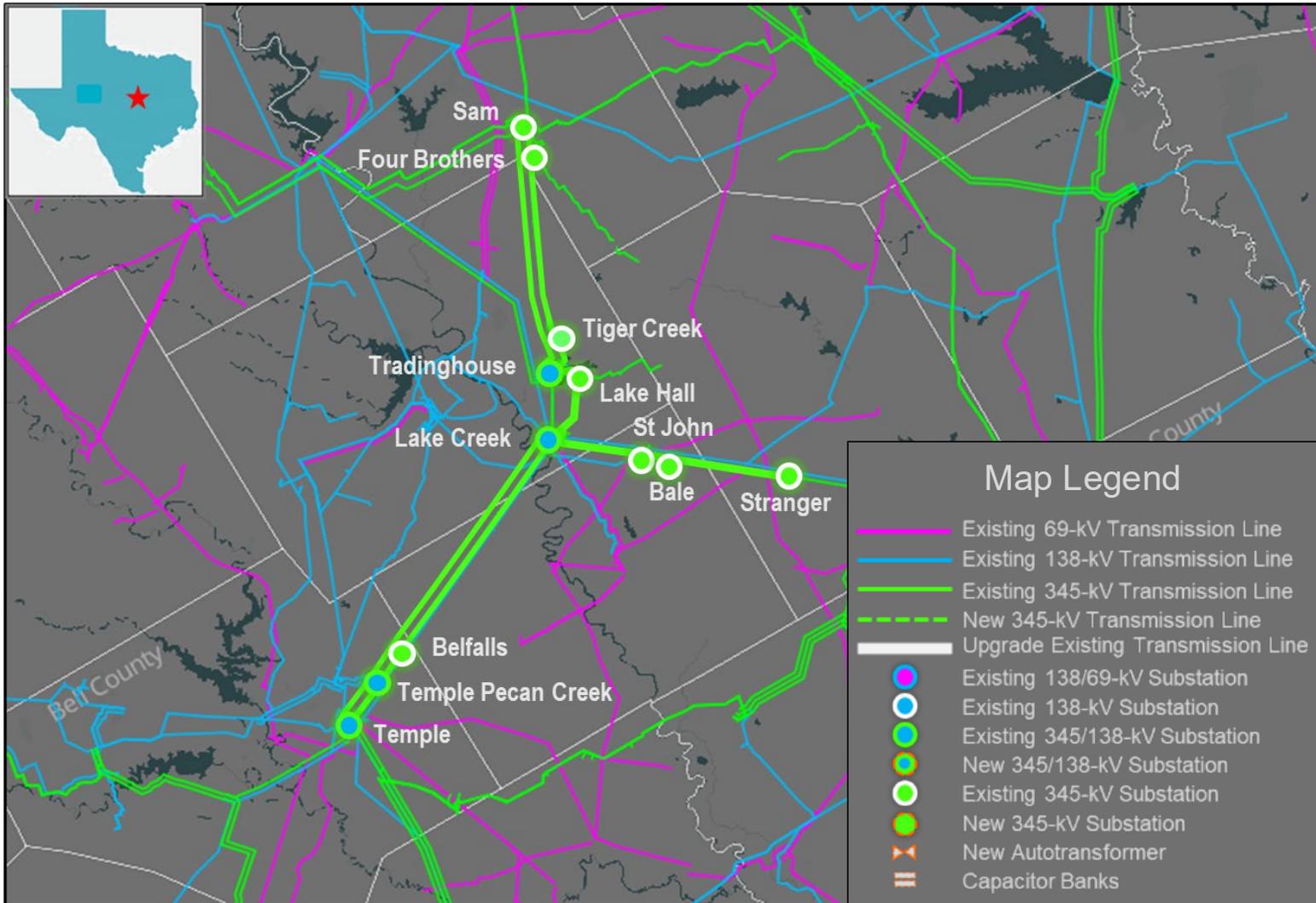


Group 3 Upgrades for EIR Evaluation

- Summary of Group 3 EIR Evaluation
 - Upgrade of existing 345-kV lines, approximately 120.3 circuit miles
- Total cost is approximately \$486.01 million

Oncor Project Description	RTP Project Number	Counties
Rebuild the existing Temple Pecan Creek SW to Bellfalls/STR26/4C 345-kV Double-Circuit Line, ~2.6 miles; Rebuild the existing Possum Trot SW to Bellfalls/STR26/4C 345-kV Double-Circuit Line, ~26.1 miles; Rebuild the Tradinghouse Switch to Four Brothers Switch 345-kV Line, ~20.6 miles; Rebuild the Tiger Creek Switch to Sam Switch (Lone Star) 345-kV Line, ~21.2 miles; Rebuild the Possum Trot Switch to Lake Hall Switch to Tradinghouse Switch 345-kV Double-Circuit Line, ~9.6 miles; Rebuild the existing Sam SW to Four Brothers SW 345-kV Line, ~2.3 miles; Rebuild the existing Possum Trot SW to St John SW to Bale SW to Stranger SW 345-kV Line, ~18.4 miles;	2024-NC32, 2024-NC69, and 2024-NC23	Bell, Falls, Hill McLennan, and Limestone

Map of Group 3 Upgrades for EIR Evaluation



Study Assumptions for Group 3 EIR Evaluation

- Final 2025 RTP 2031 summer peak load case will be used as the start case
- Transmission updates
 - New transmission projects, recently approved RPG project and/or TPIT projects based on February 2026 TPIT report, may be added to the base case
 - Placeholder projects from the 2025 RTP will be removed from the study base case
- Generation updates
 - New generation, that met 6.9(1) conditions based on February 2026 GIS report may be added to the study base case
 - New generation completed FIS or started FIS may be added to balance the new loads
 - All new generation will be dispatched consistent with the 2025 RTP methodology
- Loads may be adjusted for the study area
- Reserve will be maintained consistent with the 2025 RTP

Next Steps & Tentative Timelines

- Status updates at future RPG meetings
- Group 2 Expediated Evaluation Final recommendation – Q2 2026
 - EIR report to be posted in the MIS in May 2026
 - EIR recommendation to TAC in May 2026
 - Seek ERCOT Board of Directors endorsement in June 2026
- Group 3 EIR Evaluation Final recommendation – Q3 2026
 - EIR report to be posted in the MIS in August 2026
 - EIR recommendation to TAC in August 2026
 - Seek ERCOT Board of Directors endorsement in September 2026

Thank you!



Stakeholder comments also welcomed through:

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