



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

Ying Li

RPG Meeting
March 17, 2026

Introduction

- Oncor submitted the Set 1 North and Central Texas Reliability Project for Regional Planning Group (RPG) review in November 2025
 - This Tier 1 project is estimated to cost \$1.798 billion 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 Ellis, Navarro, Franklin, Hopkins, Collin, Hunt, Grayson, Johnson, Hill, Dallas, Henderson, Kaufman, Delta, Fannin, and Lamar Counties in the North, North Central, and East Weather Zones
 - This project was identified and included in the 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 and Central Texas Reliability Project for RPG review in November 2025
 - This Tier 1 project is estimated to cost \$1.330 billion and will require CCN filings
 - Estimated ISDs planned in phases between 2028 and 2034
 - Addresses the thermal overloads and voltage violations in the Dallas, Henderson, Kaufman, Ellis, Freestone, Leon, Navarro, Tarrant, Collin, Denton, Lamar, Red River, Delta, Fannin, Hunt, and Hopkins Counties in the North, North Central, and East Weather Zones
 - This project was identified and included in the 2024 RTP
 - A subset 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 a 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 and Central Project

Oncor Project Description	RTP Project Number	Counties
Rebuild the Venus Switch to Old Country Switch 345-kV double-circuit line, ~ 15.9 miles; and Rebuild the Notus Switch to Old Country Switch 345-kV double-circuit Line. ~ 14.8 miles	2024-NC56 and 2024-NC42	Ellis and Navarro
Rebuild the Hagansport (fka Monticello Tap) Switch to Sulphur Springs East Tap 138-kV line, ~ 20.6 miles	2024-E8	Franklin and Hopkins
Reconductor the Monticello Switch to Cash Switch 345-kV line, ~ 62.3 miles	2024-E9	Collin, Hopkins, Hunt and Franklin
Rebuild the Valley Switch to Progress Park Switch 138-kV line, 15.6 miles	2024-N07	Grayson
Rebuild the Cleburne 138-kV Switch; Rebuild the Cleburne Switch to Venus 138-kV line, ~ 19.5 miles; and Rebuild the Red Hill Switch to Rio Vista Tap 138-kV line, ~ 6.6 miles	2024-NC04	Johnson, Ellis and Hill
Rebuild the Tri Corner 345-kV Switch; Rebuild the Watermill Switch to Tri Corner Switch 345-kV double-circuit line between structure 102/3 and Tri Corner Switch, ~ 8.4 miles; and Rebuild the Trinidad Switch to Tri Corner 345-kV double-circuit line, ~ 40.40 miles	2024-NC11	Dallas, Henderson, and Kaufman
Rebuild the Commerce Switch to Crossroads Switch 138-kV line, ~ 22.1 miles	2024-NC36	Hunt and Delta
Rebuild the Valley Switch to Valley South Switch 345-kV line, ~ 0.9 miles; Rebuild the Valley 345-kV Switch; Rebuild the Anna 345-kV Switch; Rebuild the Saltillo Switch to Farmersville Switch 345-kV line, ~ 59.9 miles; Rebuild the Anna Switch to Valley Switch 345-kV line, ~ 26.6 miles; and Reconductor the Paris Switch to Valley South Switch 345-kV line, ~ 46.3 miles	2024-NC31	Collin, Fannin, Grayson, Hunt and Lamar
Establish a new Lavon 345-kV Switch; Terminate the Allen Switch to Roysse Switch/Stouts Creek Switch 345-kV double-circuit line into Lavon 345-kV Switch; Install one 600 MVA (nameplate) 345/138-kV autotransformer at Lavon Switch; and Construct a new Lavon Switch to Allen Switch 138-kV line, ~ 12.7 miles	2024-NC59	Collin
Rebuild the Batchler Road Switch to Stainback Switch 345-kV double-circuit line, ~ 3.2 miles	2024-NC68	Dallas and Ellis
Install a second circuit by rebuilding the existing Gunter Switch to Collin Switch 138-kV line to create the Gunter Switch to Collin 138-kV double-circuit line, ~ 16.4 miles	2024-NC76	Collin and Grayson

Projects highlighted in yellow are currently being evaluated in the ongoing EIR for the Oncor Southern DFW Load Interconnection and General Grid Strengthening Project (25RPG004)



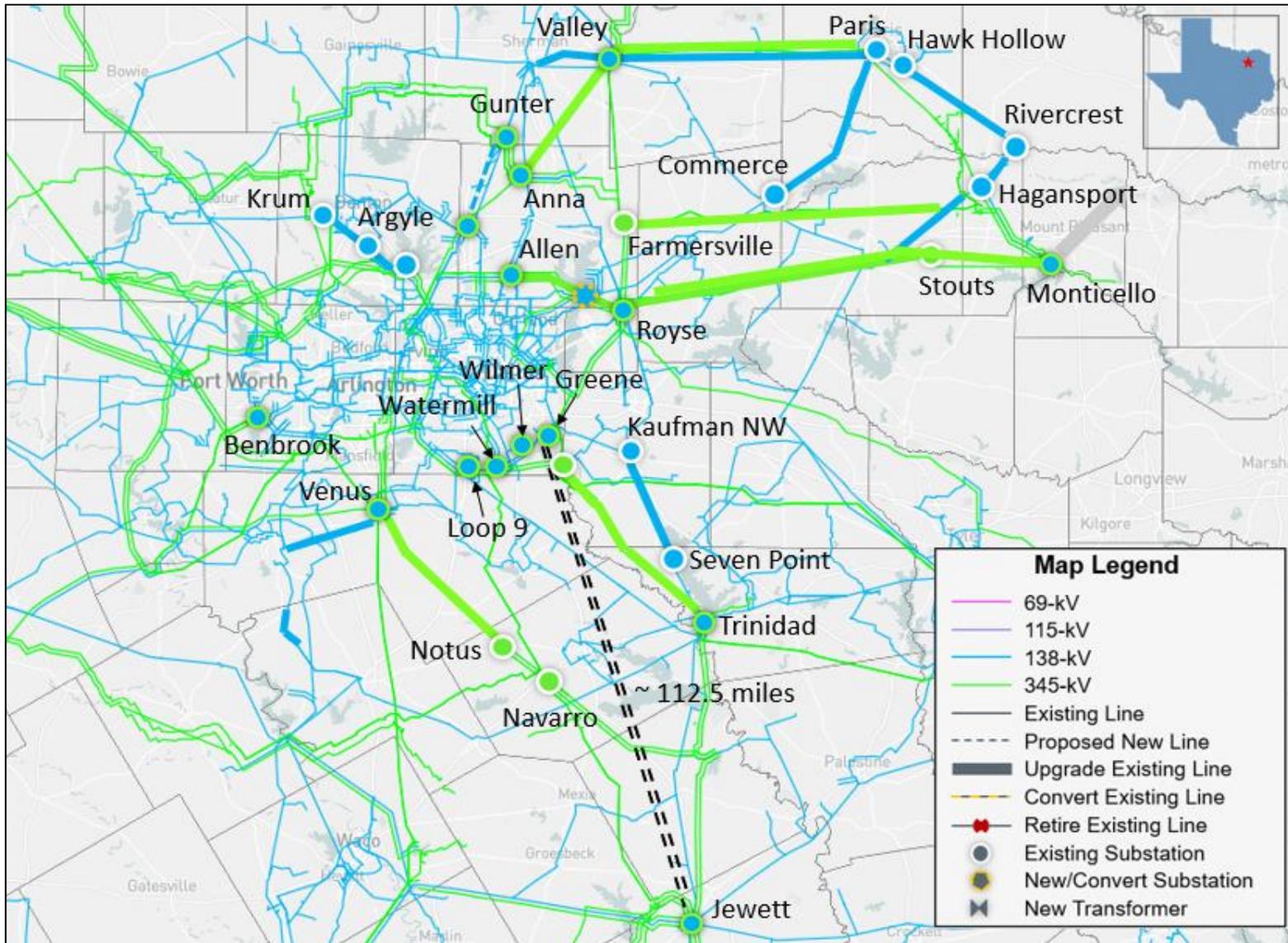
Highlights of the Set 2 North and Central Project

Oncor Project Description	RTP Project Number	Counties
Rebuild DeSoto 345/138 kV Switch; Add one new 345/138-kV autotransformer at DeSoto; and New DeSoto to Loop Nine 138-kV line, ~ 3.82 miles	2024-NC80	Dallas
Rebuild the south circuit of Loop Nine – Watermill 345 kV double-circuit line, ~ 4.0 miles	2024-NC16	Dallas
Rebuild the Kaufman Northwest – Seven Point 138-kV line, ~ 20.8 miles	2024-NC53	Henderson and Kaufman
New Greene to Wilmer 345-kV double-circuit line, ~ 3.0 miles	2024-NC86	Dallas
New Jewett to Greene 345-kV double-circuit line, ~ 112.5 miles	2024-NC63	Dallas, Ellis, Freestone, Leon and Navarro
Upgrade the Benbrook 345/138-kV Autotransformer #1	2024-NC79	Tarrant
Add a second 345/138-kV autotransformer at Gunter; and Add two 37.5 MVar reactors	2024-NC76	Collin
Rebuild Argyle 138-kV Switch; Rebuild the Argyle to Highlands (TNMP) 138-kV line, ~ 7.5 miles; Rebuild the Argyle to Corinth 138-kV line, ~ 2.9 miles; and Rebuild the Argyle to Krum 138-kV line, ~ 8.54 miles	2024-NC72 and 2024-NC40	Denton
Rebuild Rivercrest 138-kV Switch; Rebuild the Rivercrest to Hawk Hollow 138-kV line, ~ 25.5 miles; and Rebuild the Hagansport (fka Monticello tap) to Rivercrest 138-kV line, ~ 9.5 miles	2024-N14	Lamar and Red River
Rebuild the Paris to Valley 138-kV line, ~ 46.1 miles; and Rebuild the Paris to Commerce 138-kV line, ~ 14.0 miles	2024-N16	Delta, Fannin, Hunt and Lamar
Reconductor the Allen to Stouts Creek 345-kV line, ~ 80.9 miles	2024-NC29	Collin, Hopkins, Hunt

Summary of the Two Projects Proposed by Oncor

- New 345-kV and 138-kV lines
 - 345-kV double-circuit lines, approximately 115.5 miles
 - 138-kV lines, approximately 32.9 circuit miles
- Upgrade of existing 345-kV and 138-kV lines
 - Approximately 446.3 circuit miles 345-kV lines
 - Approximately 233.4 circuit miles 138-kV lines
- New substations and transformers
 - One 345-kV substation and three 345/138-kV transformers
- Rebuild of existing substations and transformers
 - Four 345-kV substations and one 345/138-kV transformer
 - Three 138-kV substations
- Total cost is about \$3.128 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 16 GW of large loads than the 2025 RTP load level (over 13 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	12,889*	12,526	8,103
North Central	55,410	39,606	46,424
Total	71,898	55,401	58,283

* This load does not include the Panhandle area full Officer Letter Load

- This indicates the reliability need still exists for all the transmission projects proposed in the Oncor Set 1 and Set 2 North and 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 Southern DFW Load Interconnection and General Grid Strengthening Project (25RPG004)
- ERCOT proposes to confirm and approve the remaining transmission projects proposed in the Oncor Set 1 and Set 2 North and Central Texas Reliability Projects based on the reliability need identified in the 2024 and 2025 RTP evaluations to expedite the RPG review process except for the one 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 Southern DFW Load Interconnection and General Grid Strengthening Project (25RPG004)

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Rebuild the Saltillo Switch to Farmersville Switch 345-kV line, ~ 59.9 miles;	2024-NC31	Collin, Fannin, Grayson, Hunt and Lamar
Rebuild the DeSoto 345/138 kV Switch;	2024-NC80	Dallas

Group 2 Upgrades for Expedited Evaluation

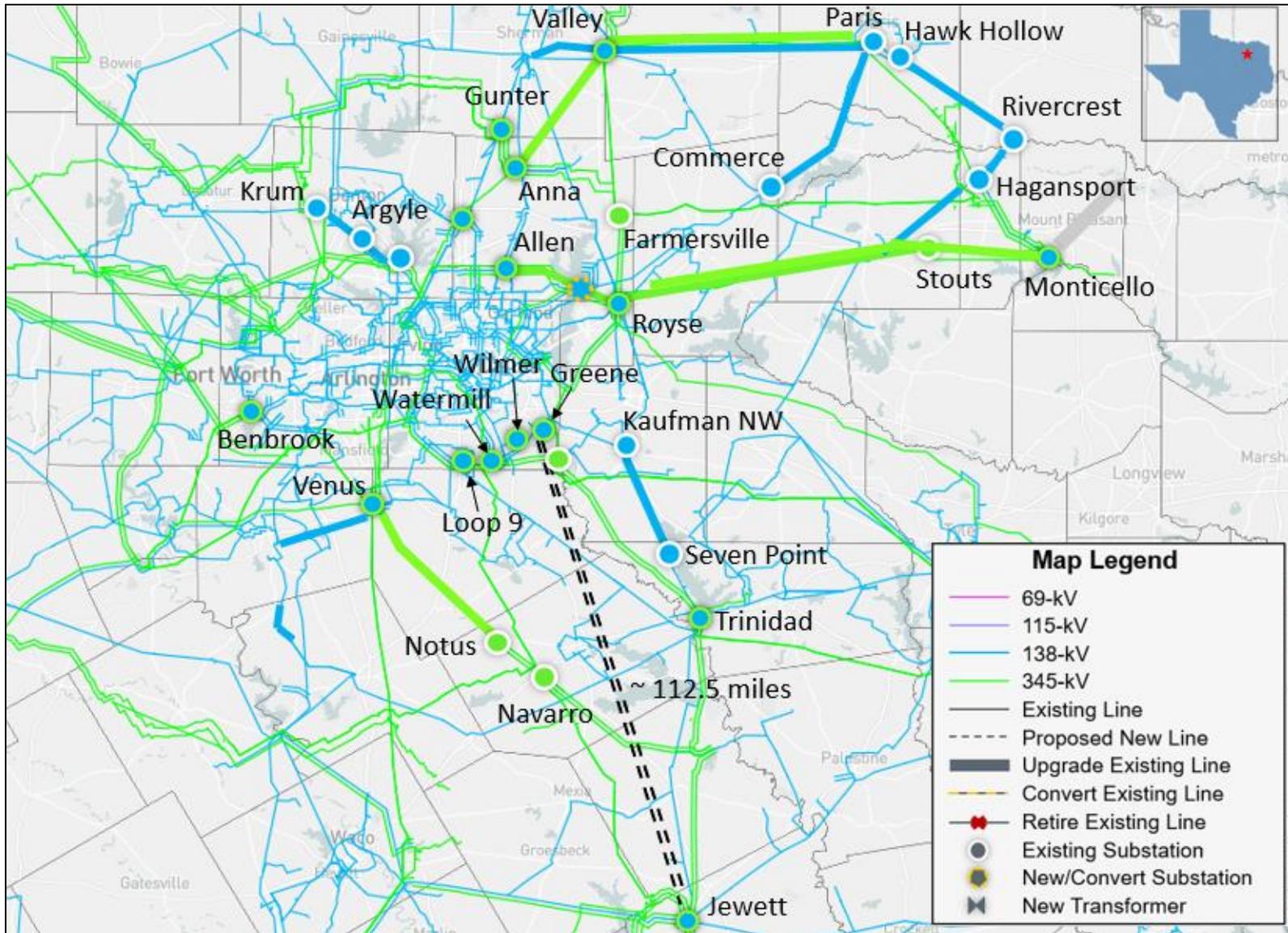
- Total cost is approximately \$2.522 billion

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Rebuild the Batchler Road Switch to Stainback Switch 345-kV double-circuit line, ~ 3.2 miles	2024-NC68	Dallas and Ellis

Group 2 Upgrades for Expedited Evaluation (cont.)

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Reconductor the Allen to Stouts Creek 345-kV line, ~ 80.9 miles	2024-NC29	Collin, Hopkins, Hunt

Map of Group 2 Upgrades: Expedited Evaluation



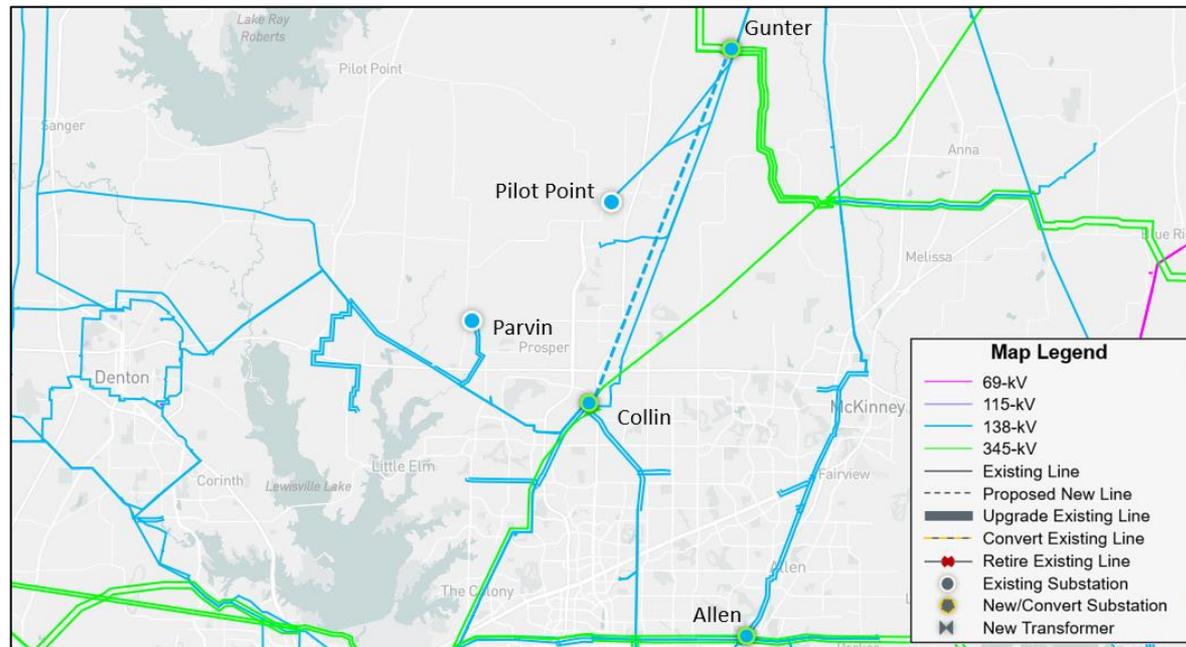
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 - Approximately 233.4 circuit miles 138-kV lines
- New substations and transformers
 - One 345-kV substation and three 345/138-kV transformers
- Rebuild of existing substations and transformers
 - Two 345-kV substations and one 345/138-kV transformer
 - Three 138-kV substations
- Total cost is about \$2.522 billion

Group 3 Upgrade for EIR Evaluation in the North and Central Texas

- Total cost is approximately \$56.4 million

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Install a second circuit by rebuilding the existing Gunter Switch to Collin Switch 138-kV line to create the Gunter Switch to Collin 138-kV double-circuit line, ~ 16.4 miles	2024-NC76	Collin and Grayson



Study Assumptions for Group 3 EIR Evaluation

- Final 2025 RTP 2031 summer peak load case will be used as the start case
- Transmission update
 - Placeholder project from the 2025 RTP will be removed from the study base case
- Generation update
 - New generation that met 6.9(1) conditions based on February 2026 GIS report in the study area will be added to the study base case
- Load will be maintained consistent with the 2025 RTP
- 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 – 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

Thank you!



Stakeholder comments also welcomed through:

Ying.Li@ercot.com
Robert.Golen@ercot.com