

# Oncor Delaware Basin Stage 5 Project

## Overview for ERCOT RPG Meeting 9/25/2024

Oncor Electric Delivery

WE DELIVER.



# ERCOT Delaware Basin Load Integration Study

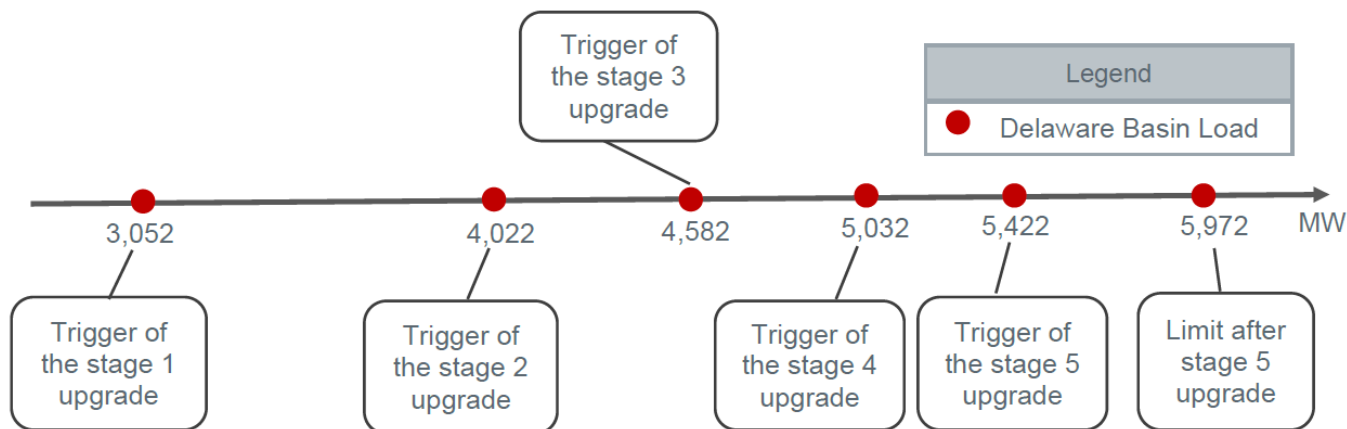


Figure 1. Delaware Basin Transmission Upgrade Roadmap

Stage	Estimated Delaware Basin Load Level (MW)	Upgrade Element	Estimated Upgrade Cost (\$M)	Trigger
1	3,052	Add a second circuit on the existing Big Hill - Bakersfield 345-kV line	69	Import Needs
2	4,022	A new Bearkat - North McCamey - Sand Lake double circuit 345-kV line	371	Import Needs
3	4,582	A new Riverton - Owl Hills single circuit 345-kV line	41	Culberson Loop Needs
4	5,032	Riverton - Sand Lake 138-kV to 345-kV conversion and a new Riverton - Sand Lake 138-kV line	56	Culberson Loop Needs
5	5,422	A new Faraday - Lamesa - Clearfork - Riverton double circuit 345-kV line	444	Import Needs

Table 1. ERCOT Delaware Basin Transmission Upgrade Roadmap – Detailed Project List

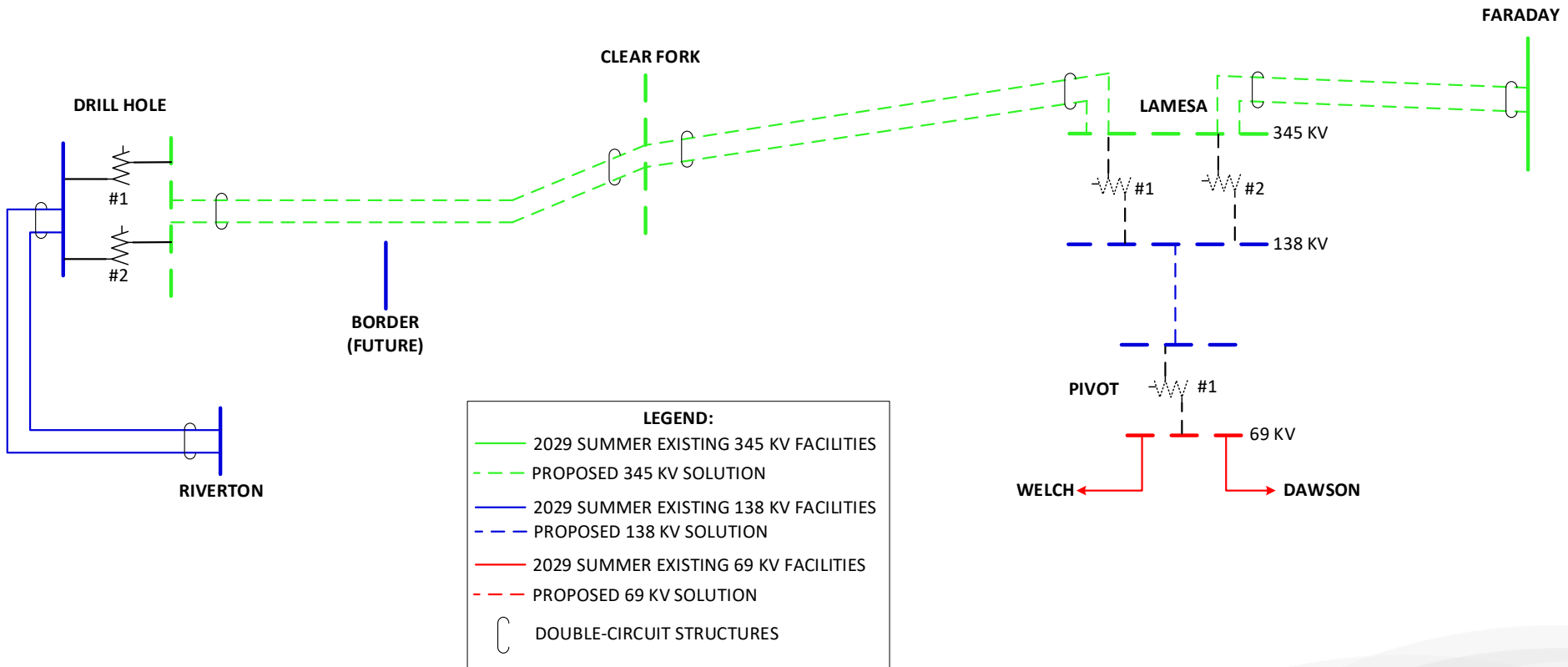
# Project Overview

- Delaware Basin Stage 5 load threshold is exceeded in the study area by Summer 2025
- Multiple P1, P3, P6 and P7 contingencies cause low voltages and thermal violations in Oncor's Stanton Loop area.
- Oncor proposes the following system upgrades to reliably meet the growing load demands within the Permian Basin:
  - 220 miles of greenfield 345 kV Double Circuit transmission line
  - Expansion of existing 138 kV Switching Station (Lamesa)
    - 2 new 600 MVA, 345/138 kV Autotransformers (Lamesa)
  - 1 new 138/69 kV Switching Station (Welch)
  - 1 existing 345 kV Switching Station Rebuild (Clear Fork)
  - Total cost of Proposed RPG Project - \$744.6 million
- All of components in Oncor's project address the scope identified in Stage 5 of the ERCOT Delaware Basin Load Integration Study.

# Project RPG Project Vicinity



# Project RPG Project Oneline



# Progress

- Anticipating multiple CCN applications/submittals
- Construction expected to begin in 2025
- Anticipated to take 4 – 5 years to complete entire set of projects in the Proposed RPG Submittal
- Proposed RPG Submittal comment period ended on 5/28/2024
  - ERCOT Independent Review to be complete by 11/22/2024

# QUESTIONS

