



Eastside 345/138-kV Switching Station Project

PRESENTED BY:

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Principal Engineer, Transmission Planning**

March 18, 2024

Agenda



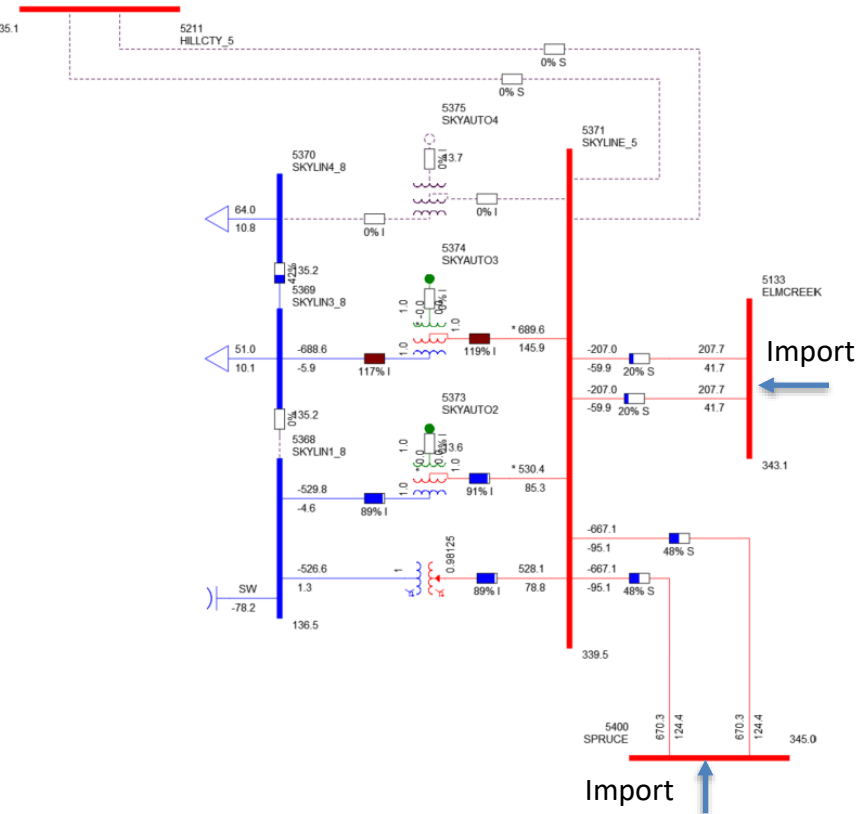
- **PROJECT OVERVIEW**
- **PROJECT NEED**
- **RECOMMENDED PROJECT**

PROJECT OVERVIEW



- **Reliability driven Tier-1 Project**
- **Driven by generation retirements local to CPS Energy**
- **Supports ERCOT's findings in the 2021,2022 and 2023 Regional Transmission Plan (RTP)**
- **Cost Estimate: \$158M**
- **Need By: Summer Peak 2028**
- **New 345/138-kV switching station with two 600 MVA autotransformers**
- **One 345-kV double circuit upgrade**

PROJECT NEED



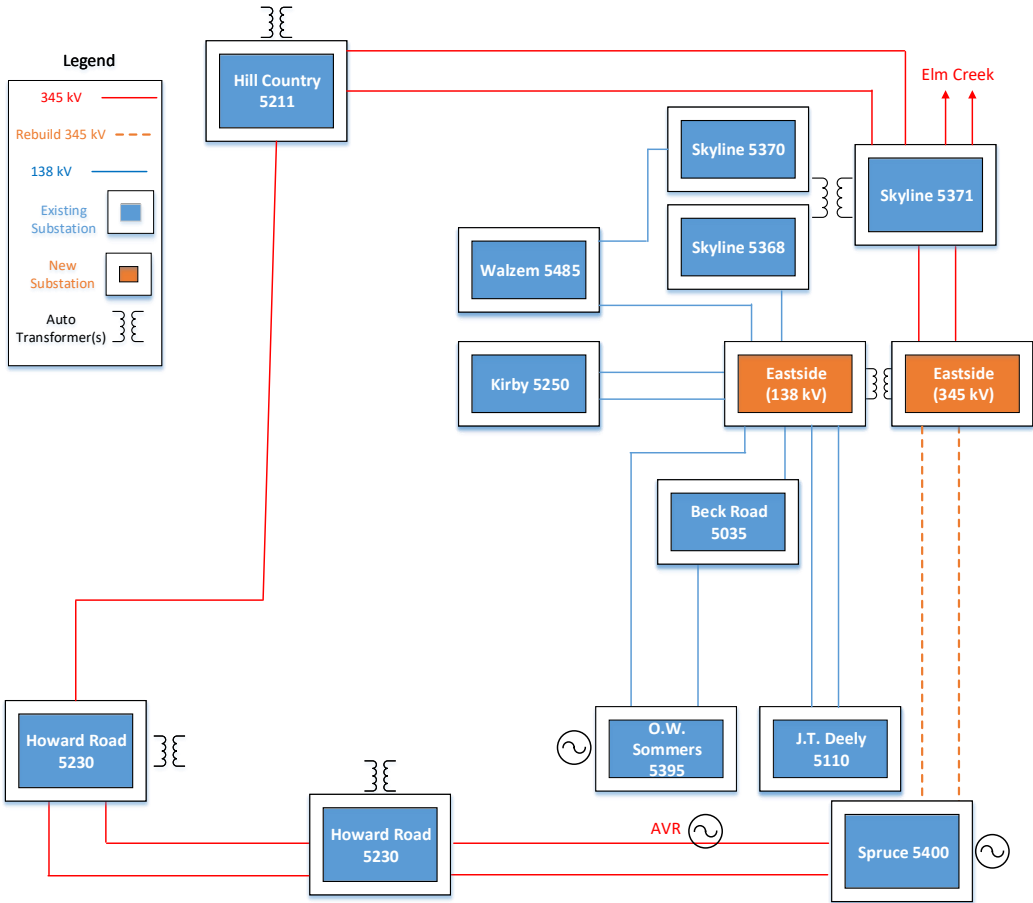
- Skyline Auto #3 and #4 overloads under contingency conditions
- Skyline Auto #1 and #2 and other 138-kV overloads in NorthEast SA observed

Contingency Type	Monitored Element	Rating MVA	2029 Summer Peak (%) *
P1 Single	Skyline Auto 3 or Auto 4	600	97
P6	Skyline Auto 3 or Auto 4	600	104
ERCOT3 Auto & Common Twr	Skyline Auto 3 or Auto 4	600	119

*Overloads defined as % of Facility rating

NERC and ERCOT criteria violations observed in Summer Peak 2029

RECOMMENDED PROJECT



- Construct new 345/138-kV Eastside Switching Station and install two 600 MVA Autotransformers
- Rebuild Spruce to Eastside 345-kV double circuit transmission line



Thank You