



## South Texas Stability Assessment

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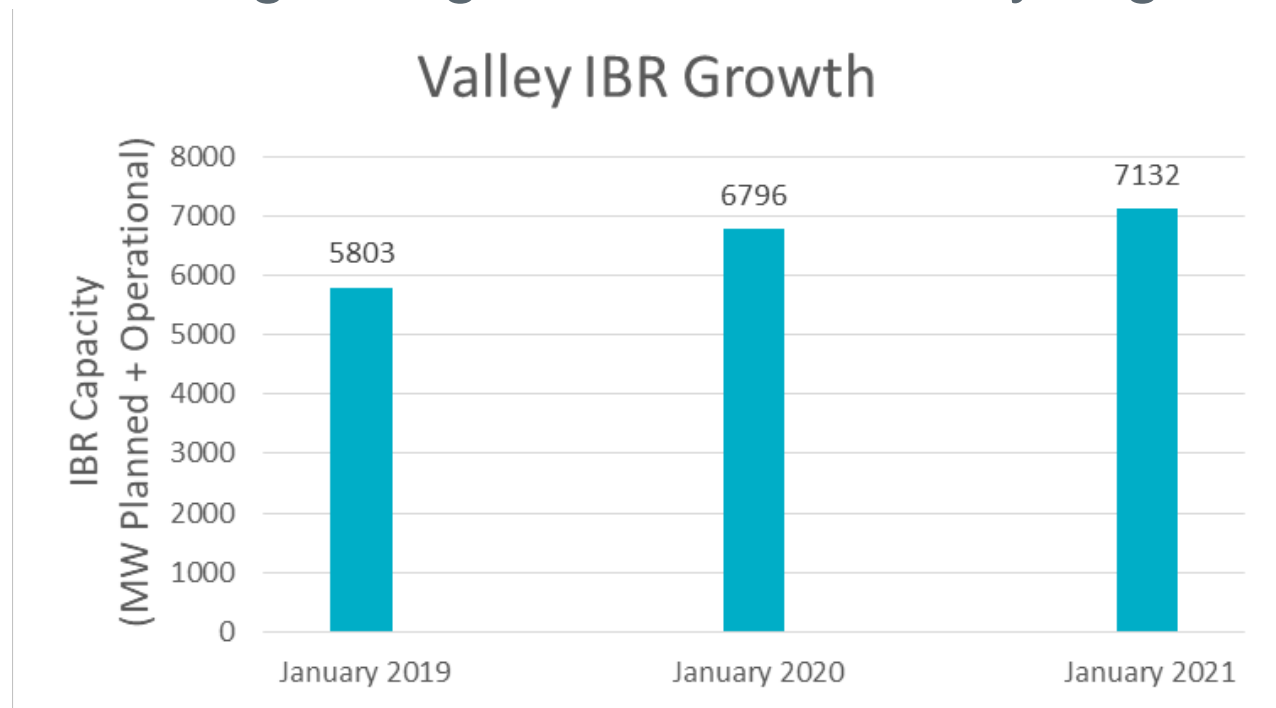
ROS Meeting  
February 4, 2021

# Valley Export (VALEXP) GTC

- GTC effective November 5, 2020
- GTC exit alternative development in progress
- GTC exit alternative will be posted on MIS by May 4, 2021

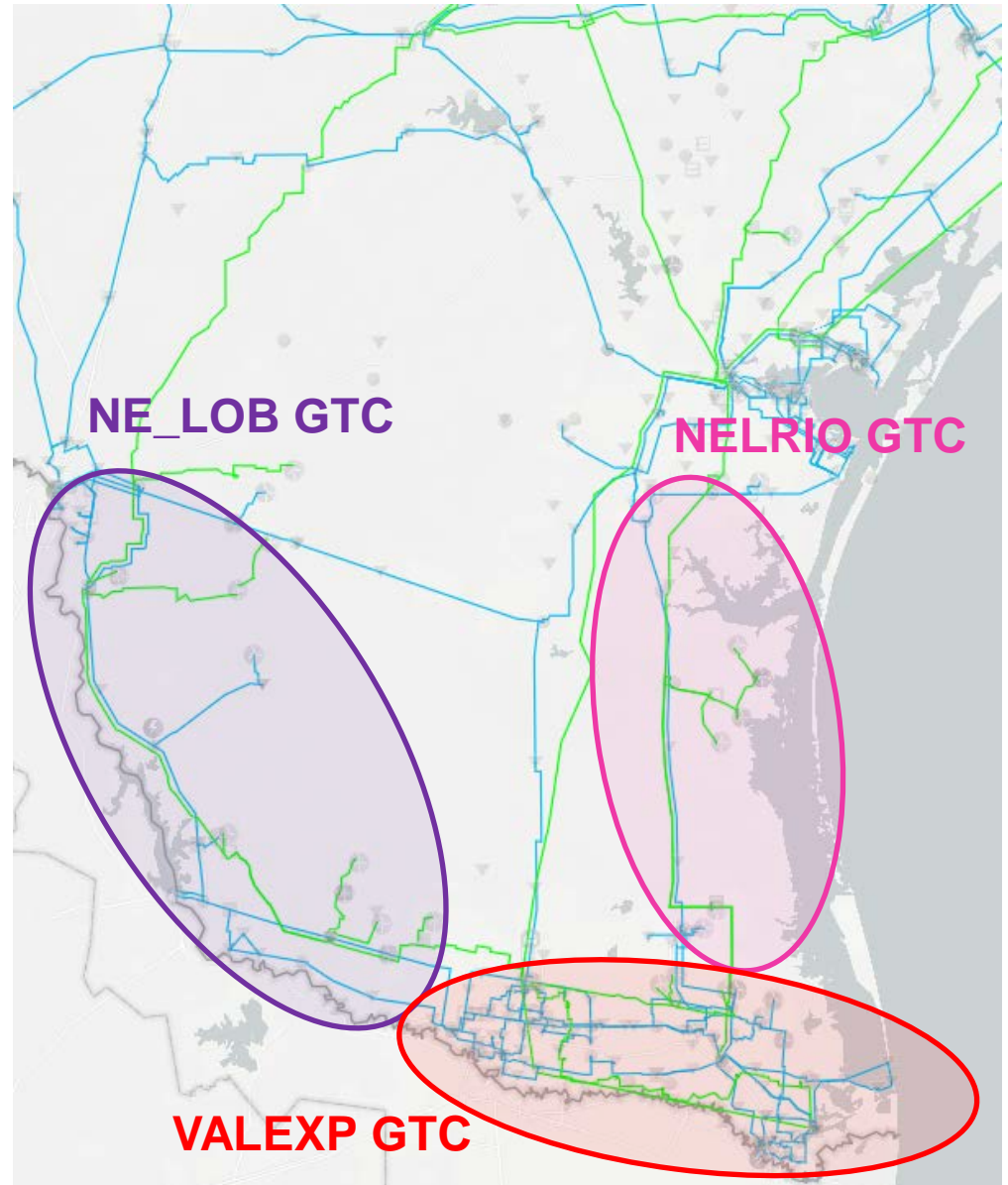
# ERCOT Valley Region Stability Study

- To identify the import and export challenges and potential options for the Valley region
  - Valley Import (peak load conditions)
  - Valley Export (high IBR output conditions)
- Trend of increasing IBR growth in the Valley region



# Planned & Operational IBR Capacity by GTC Area

Area	IBR Capacity (MW)
NE_LOB (345 kV)	2294
NELRIO (345 kV)	1320
VALEXP (345 & 138 kV)	2386
Other (345 & 138 kV)	996



# Valley Stability Assessment – Import Scenario

- PSS/e dynamic stability analysis
- Include generation update (units that satisfy PG 6.9 as of the October 2020 GIS report)
- Include dynamic load models (supported by TSPs)
- The impact of upgrades identified in the 2019 Valley Import RPG projects (currently pending due to LNG load confirmation) may be assessed

# Valley Stability Assessment – Export Scenario

- PSS/e dynamic stability and PSCAD analysis
- Include generation update (units that satisfy PG 6.9 as of the October 2020 GIS report)
- PSCAD model status summary
- System strength challenges
- The impact of upgrades identified in the 2019 Valley Import RPG projects (currently pending due to LNG load confirmation) may be assessed

## Tentative Timeline

- ERCOT plans to complete the study by June 2021
- ERCOT plans to provide updates at the future ROS meetings