



# ERCOT GTC Updates

Transmission Operations Planning

ROS Meeting  
4/29/2021

## Recent GTC Update Summary

- GTC Update (2021 Q2 QSA follow-up)
  - Valley Export GTC (Revised in April)
  - NELRIO GTC (Revised in April)
  - NE\_LOB GTC (Revised in April)
  - Panhandle GTC update for post Lubbock Integration (the GTC methodology document\* and market notice will be released in early May)

\* <https://mis.ercot.com/secure/data-products/grid/transmission?id=NP3-770-M>

## Valley Region GTC Update

- Additional resources (total ~400MW) in NE\_LOB and Valley Export GTC areas
- Turn on BPUB load (~200MW, originally off-line in the SSGW/DWG 2023 HWLL case)
- No prior outage dispatch limit is still 70% for renewables in the Valley region
- GTL changes for three GTCs in the Valley region
  - Increase (150MW) for NE\_LOB GTL (no prior outage)
  - No change for NELRIO GTL
  - Slight decrease (25MW) for Valley Export GTL (no prior outage)

# Current Panhandle GTC

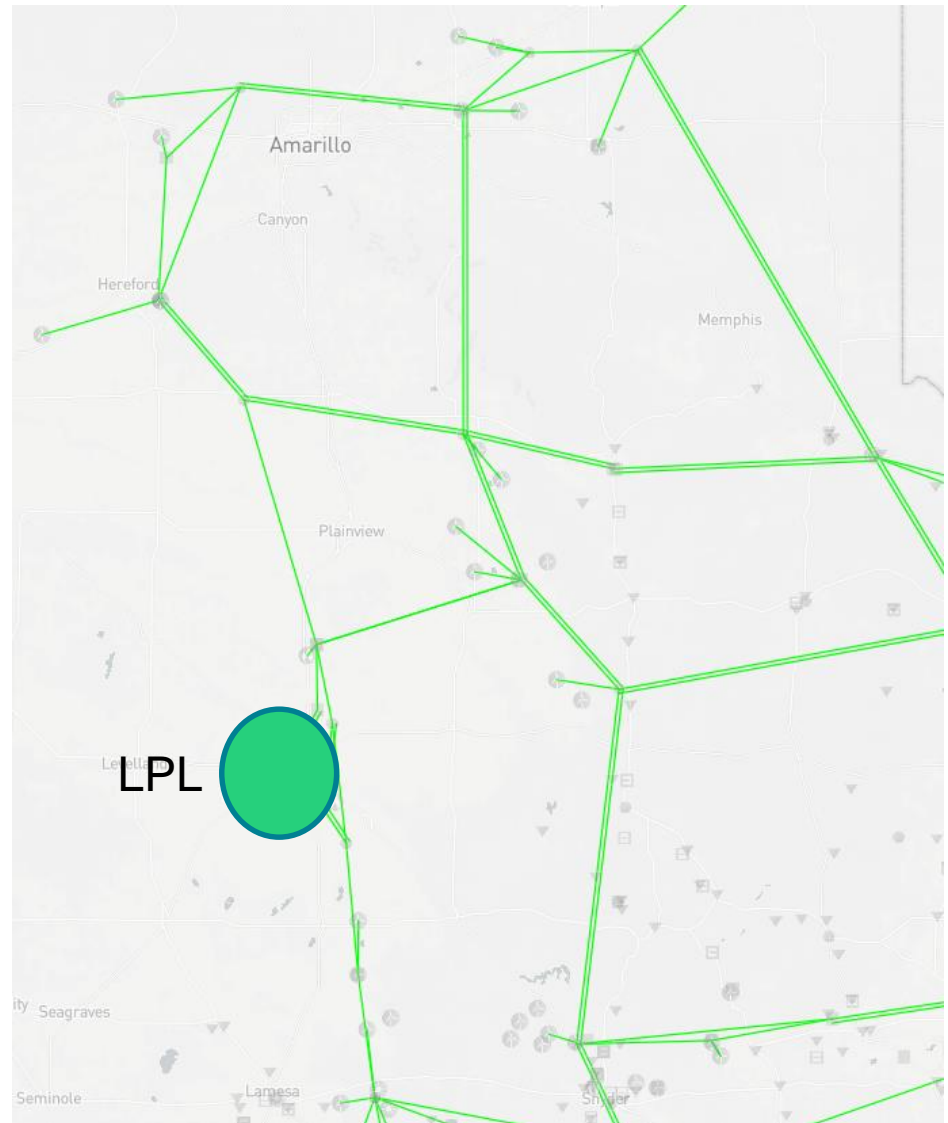
- The Current Panhandle GTC Interface
  - Tesla – Riley/Jim Treece
  - Tesla – Edith Clarke \*2
  - Cottonwood – Edith Clarke \*2
  - Cottonwood – Dermott \*2
- The Current Panhandle GTL
  - The most limiting of WSCR limit, VSAT limit and Dynamic Voltage Stability Limit is used when determining limits in real time
  - WSCR limit and VSAT limit is calculated in real time based on actual operating conditions

The Current Panhandle GTL Table

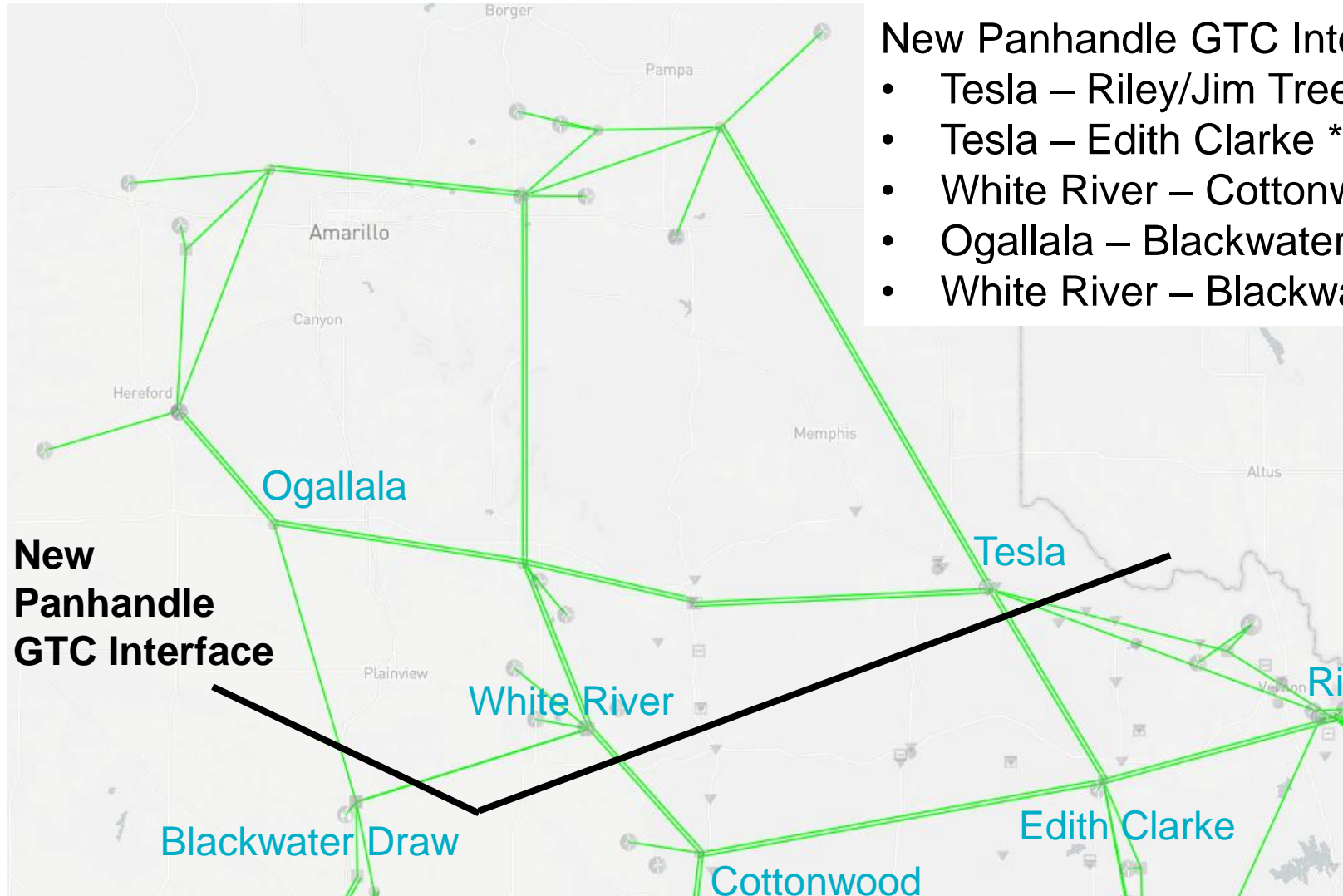
Prior Outage	WSCR Limit(MW)	VSAT Limit(MW)	Dynamic Voltage Stability Limit(MW)
None	3984	4152	3403
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## LPL Integration

- The new 345 kV facilities associated with LPL Integration is expected to be energized into ERCOT in late May
- LPL integration will have a significant impact on Panhandle GTC



# The New Proposed Panhandle GTC Interface



## New Panhandle GTC Interface:

- Tesla – Riley/Jim Treece
- Tesla – Edith Clarke \*2
- White River – Cottonwood \*2
- Ogallala – Blackwater Draw
- White River – Blackwater Draw

# The Proposed Panhandle GTC Update

- WSCR will be retired
- VSAT will be still applied in real-time using the actual operating condition
- Dynamic voltage limit will be updated using the off-line dynamic simulation
- The minimum of VSAT limit and Dynamic voltage limit will be used when determining limits in real time
- Panhandle GTL table and GTC methodology document will be released in early May