



NM Subgroup

SWAT Oversight Committee

NM Subcommittee Update November 2011

Tom Duane

PNM Transmission/Distribution Planning and Contracts



SWAT Oversight Committee – Phoenix, AZ
November 15, 2011



SWAT NM Subcommittee

- **Conference Call on Collector Study held on November 10 to review latest results.**
- **Approximately 17-20 Participants**
- **Scope:**
 - **5000 MW of Renewables**
 - **2021 Timeframe**
 - **Performance under various export options based on proposed projects.**

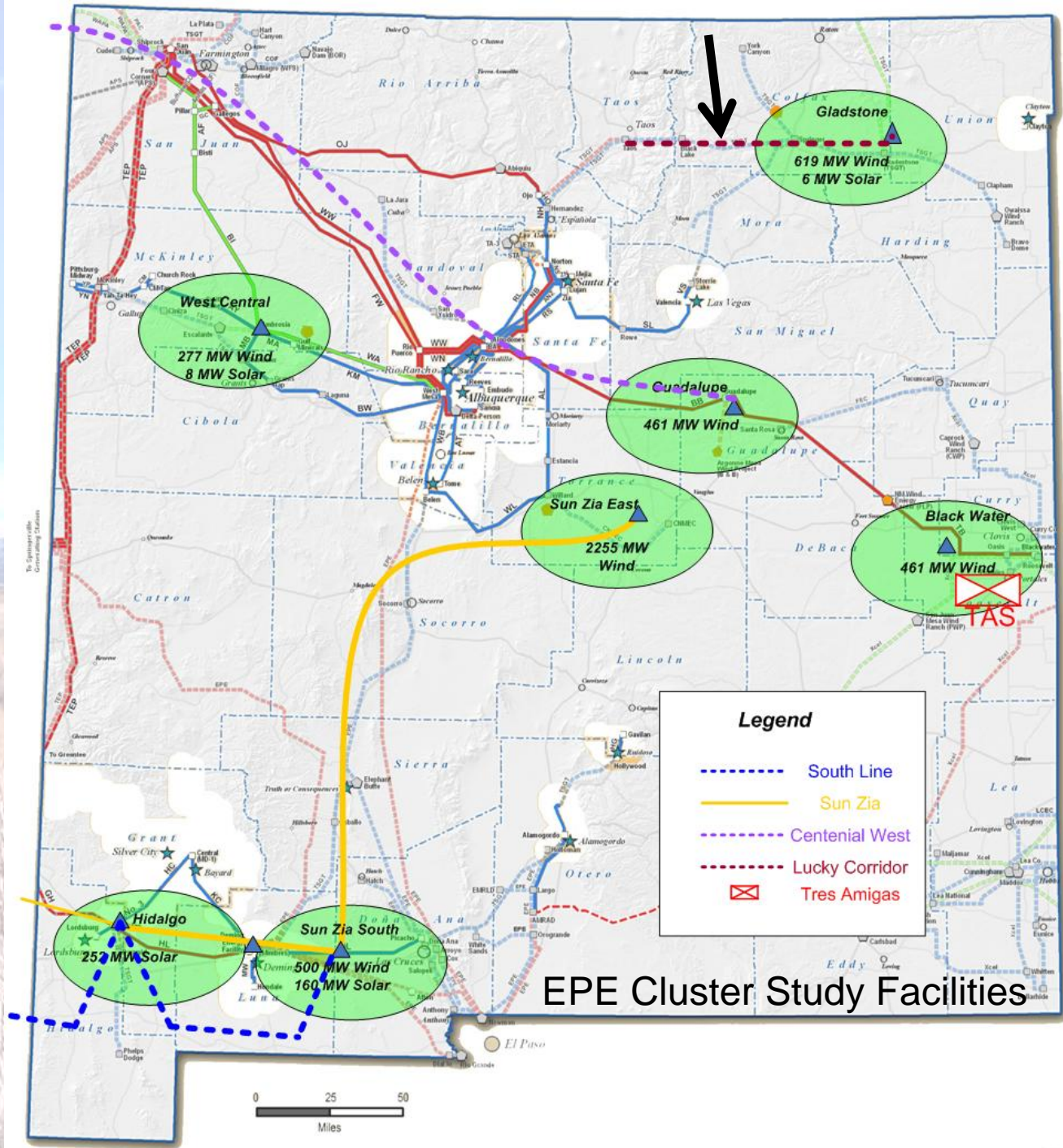


Analysis Additions

- **Add some N-1 (Centennial West and Tres Amigas) Contingencies**
- **Limit Size of Centennial West to 3500 MW**
- **Resource Scenario with Tres Amigas Importing**

Export Options

(Added Lucky Corridor to Analysis)

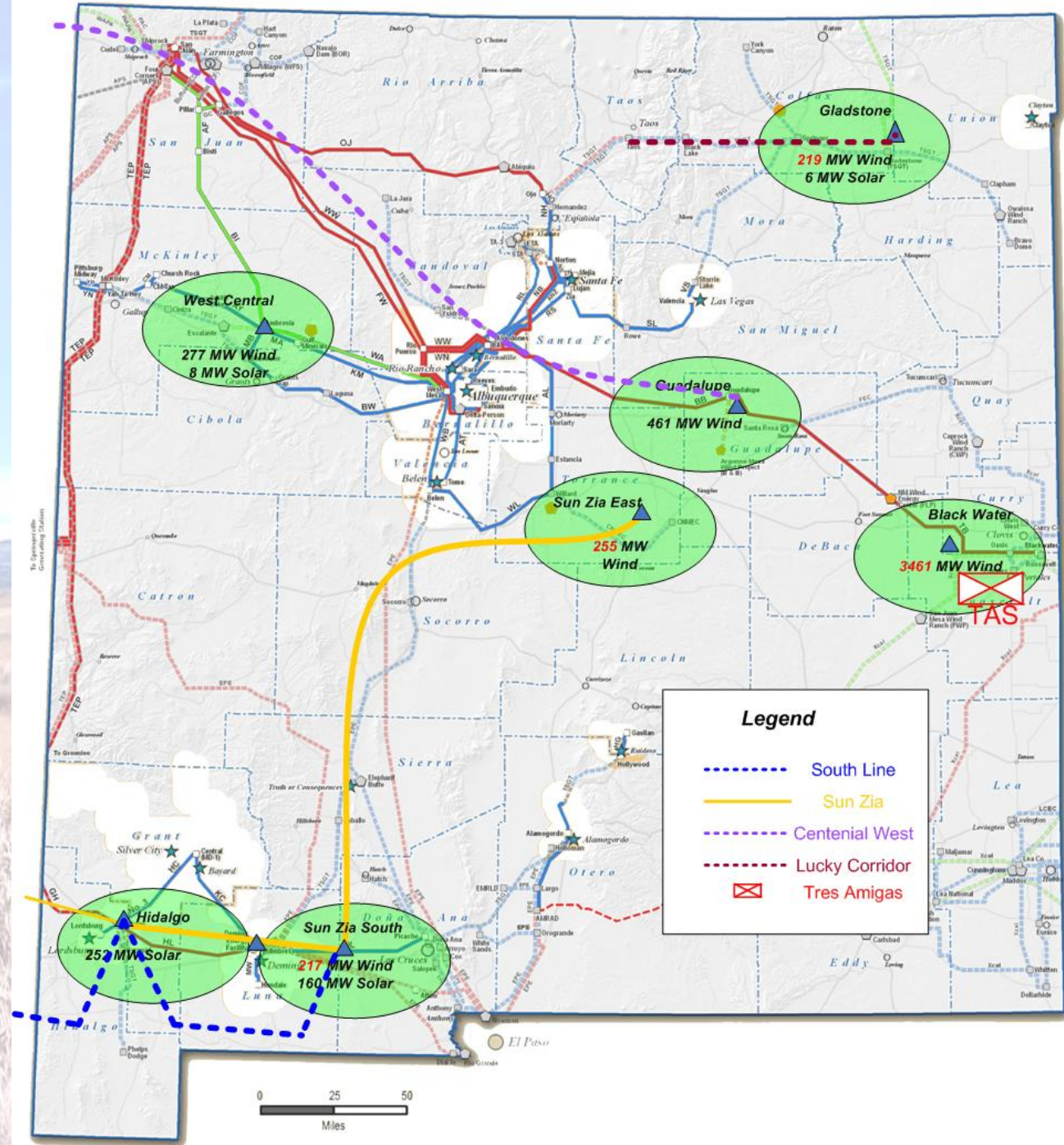


EPE Cluster Study Facilities

5000 MW Scenarios

- Sunzia Only (Both Branches)
- Centennial West with One Branch of Sunzia
- South-line And Centennial West
- Tres Amigas Export Only
- Lucky Corridor and Sunzia

Resource Bubble Adjustment with 3000 MW Tres Amigas Import





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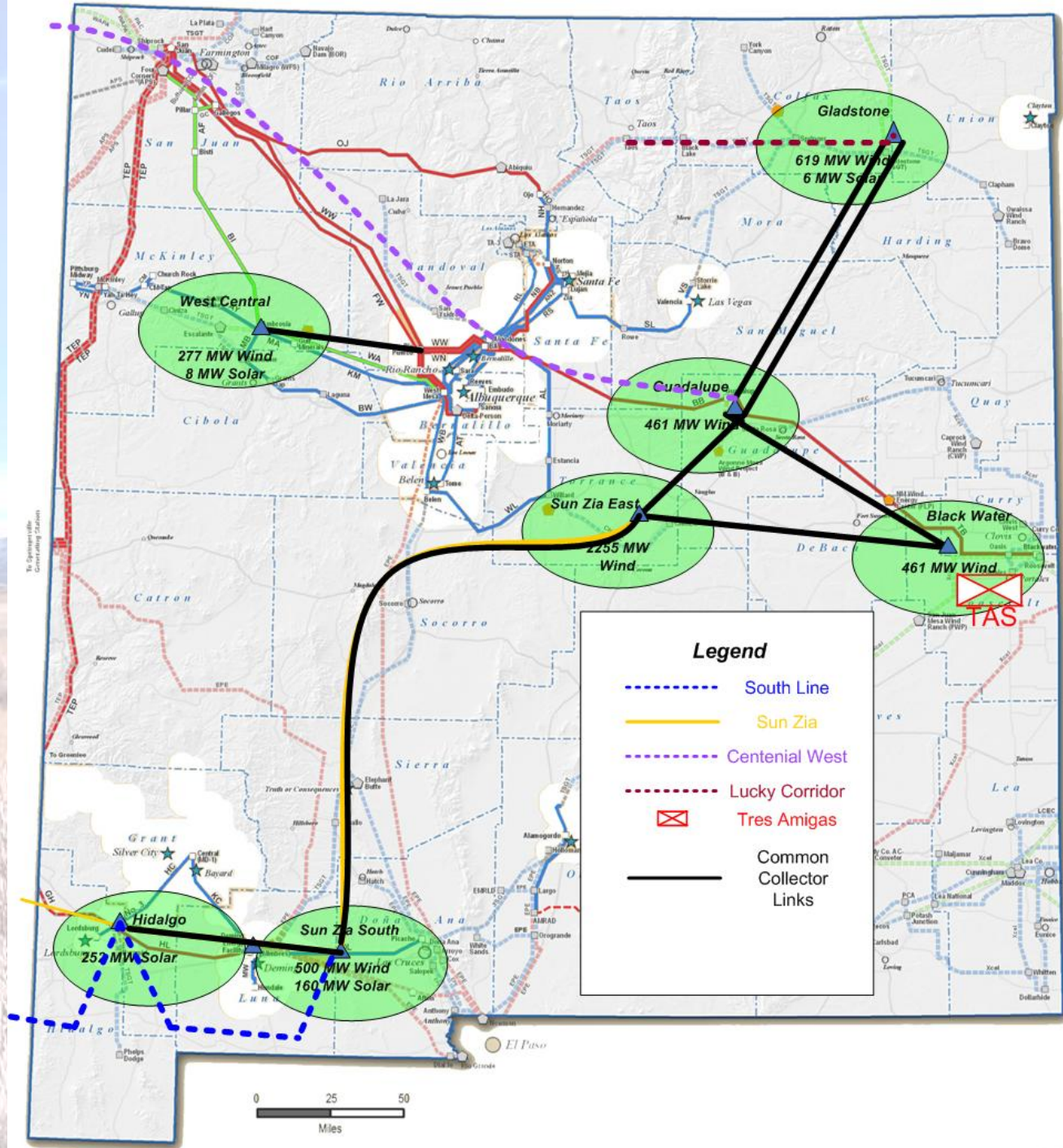
Common Collector Elements

- **Guadalupe-SunZia East 500**
- **Blackwater-Guadalupe 500**
- **Blackwater-SunZia East 500**
- **Gladstone-Guadalupe 500 1 and 2**
- **Sun Zia East – Sun Zia South 500**
- **Sun Zia South-Luna 500**
- **Luna – Hidalgo 500**
- **Voltage Support (not defined)**



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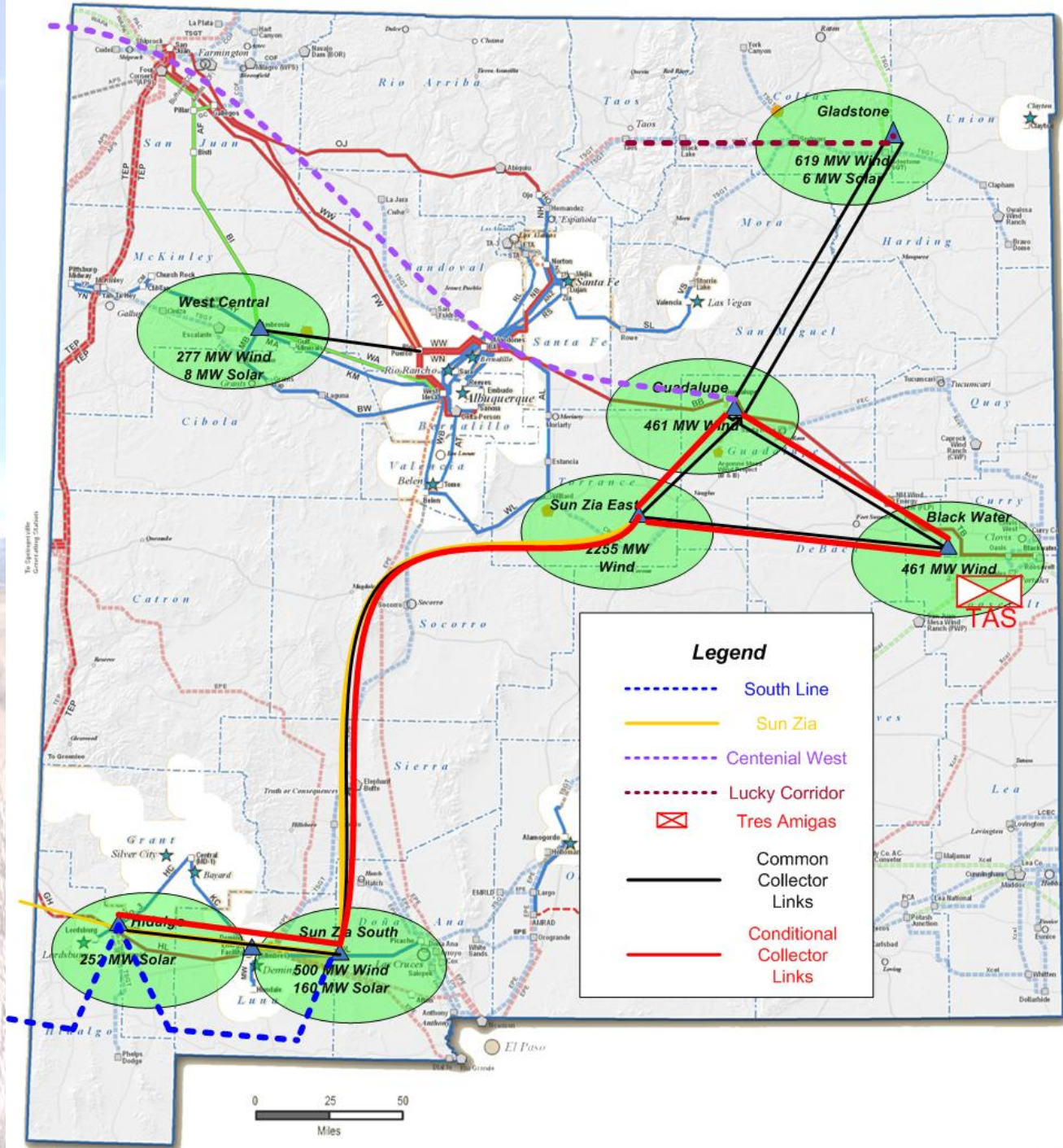
Common Elements



Elements Depending on Resource/Export Scenario

- **Second Guadalupe-SunZia East 500**
- **Second Blackwater-Guadalupe 500**
- **Second Blackwater-SunZia East 500**
- **Second Sunzia East – Sunzia South 500**
- **Second Sunzia South-Luna 500**

Conditional Elements



Follow-up

- Determine if some branches could be reduced or eliminated (particularly Lucky Corridor export option.)
- Define High Level Voltage Control
- Add rough cost estimates
- Report of results



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Questions/Discussion



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