



ERCOT-SPP Coordinated RCEC Study – Results

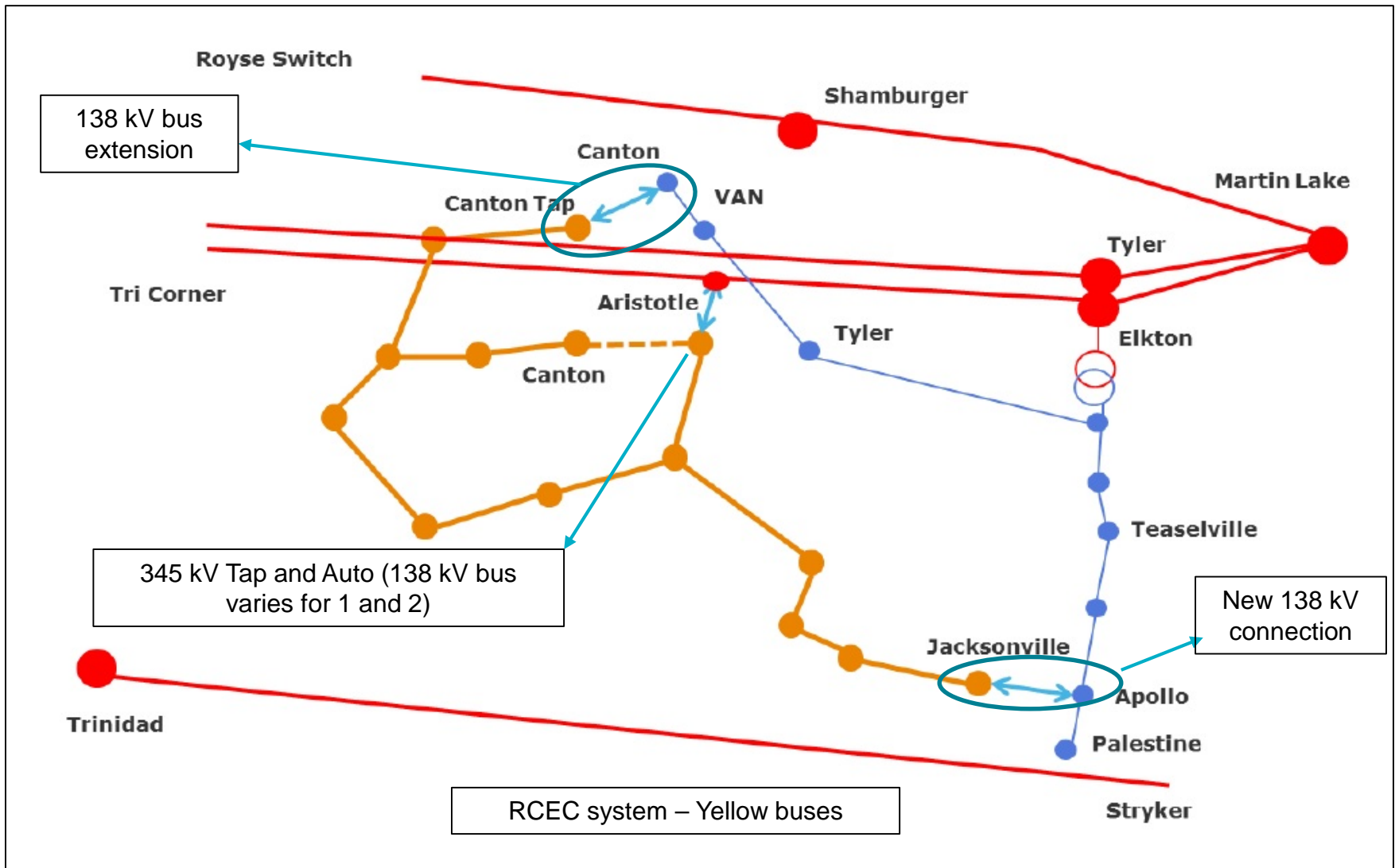
Ajay Pappu
ERCOT System Planning

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Outline

- RCEC System - Interconnection Option
- Data Assumptions
- Preliminary Results
- Conclusion

RCEC System - Interconnection Option



Unit Retirements

Unit Name	Capacity (MW)
Sandow - #4, #5	1200
Big Brown - #1, #2	1208
Spencer - #4, #5	122
Monticello - #1, #2, #3	1858
Pearsall - #1, #2, #3	61
Union Carbide - #1	30
Total	4479

Case adjustments – Load reduction – South, South Central,
Coast, West, Far West
Reserve Margin – 2874 MW

Data Assumptions - Reliability

- 2017 RTP 2022 Summer Peak Case
 - East load – 2989 MW (Forecasted Peak)
- Study area – East Zone
- November GIS report – PG 6.9
 - Denton Energy Center (226 MW gas facility)
- No topology changes
- No new RPG projects

Preliminary Results - Reliability

- No steady state violations

	Contingency (NERC/ERCOT) reliability requirements		
	P0/P1	P7	P6 (X-1+N-1)
Recommended Option (Option 2)	Met	Met	Met

- No G-1/N-1 analysis – 2017 RTP screening – No relevant generation outages

Data Assumptions - Economic

- Production cost analysis to assess impact
- Base case assumptions

Demand Group	2020 Peak Demand (MW)	2020 Annual Energy (GWh)	2025 Peak Demand (MW)	2025 Annual Energy (GWh)
Rayburn	156	432	156	430

Preliminary Results - Economic

- No congestion impact on ERCOT system
- Production cost impact

Study Year	Annual Production Cost Increase (\$M)
2020	15
2025	16

Conclusion

- No additional or deferred projects
- NERC and ERCOT reliability met
- No new congestion impact

Further Steps

- File the study report with PUCT on March 1st 2018

Questions?

Appendix

- Scope document:
<http://www.ercot.com/calendar/2018/1/30/138669-RPG>