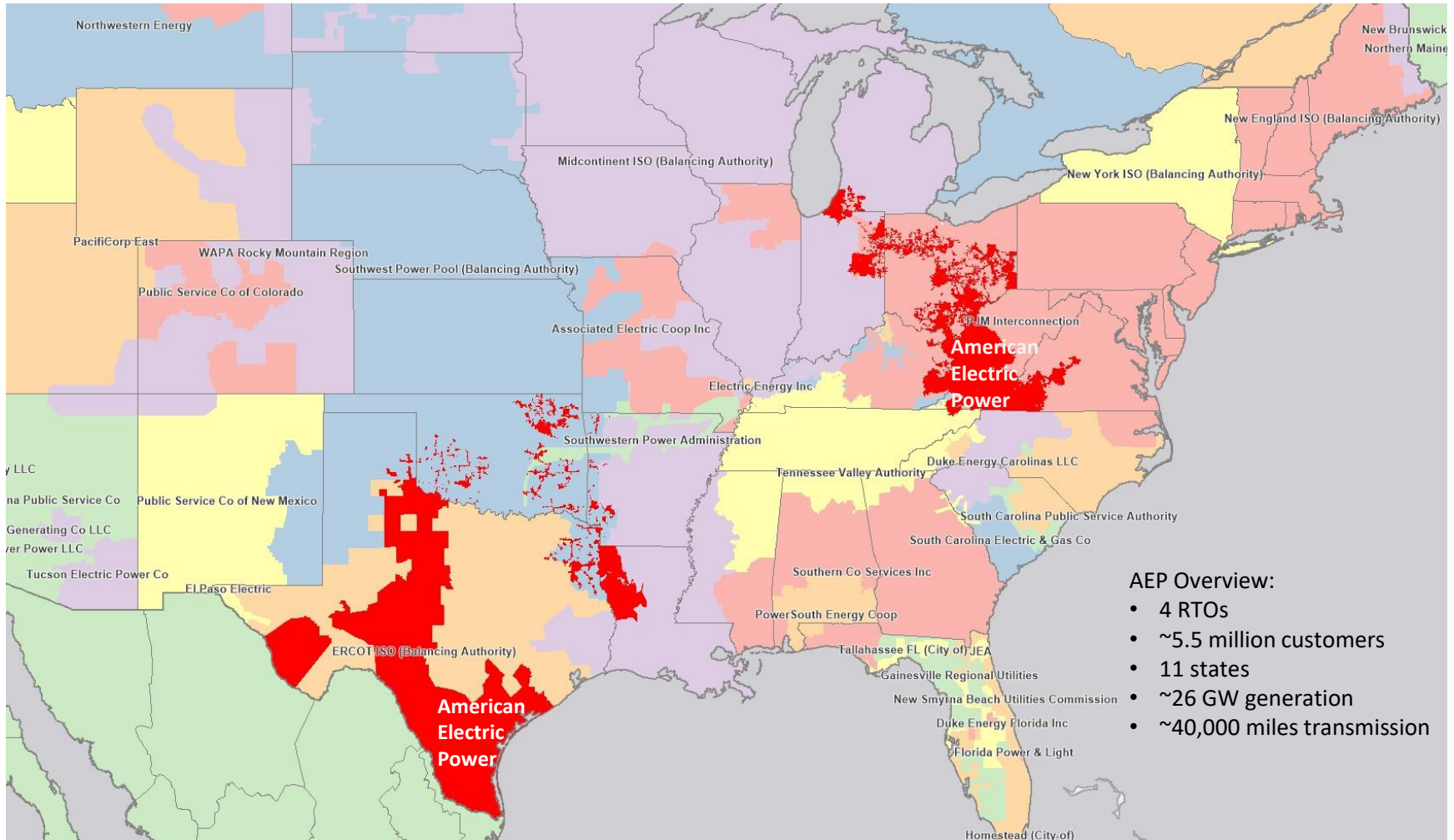


ESIG 2022 Fall Technical Workshop

Moving Interregional Transmission Planning Forward

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AEP Overview:

- 4 RTOs
- ~5.5 million customers
- 11 states
- ~26 GW generation
- ~40,000 miles transmission

What is our motivation?

- **Benefitting customers**
 - Grid Strategies 2021: \$1B savings, 1GW transmission
 - GE 2022: \$12B net benefit, 87 GW transmission
- **Unlocking cost-effective and cleaner generation**
 - States, Utility IRPs, & Public Policy etc.
- **Making electric grid resilient**
 - Changing generation fuel mix, EVs, cyber security, extreme weather, and supply chain disruptions etc.

What are some of the barriers?

- Limited planning horizon
- Inconsistent scenario-based planning
- Not capturing entire benefits of transmission
- No requirement to develop interregional plans
- Fair allocation of costs

How to move forward?

- Planning horizon, scenario-based planning, & broader set of transmission benefits
- Establishing min. interregional transfer capabilities
- Enhancing resource adequacy standards
- Allocating costs based on beneficiary pays construct

Conclusion

- Grid resiliency
- Interregional transmission planning standard
- Fair cost allocation