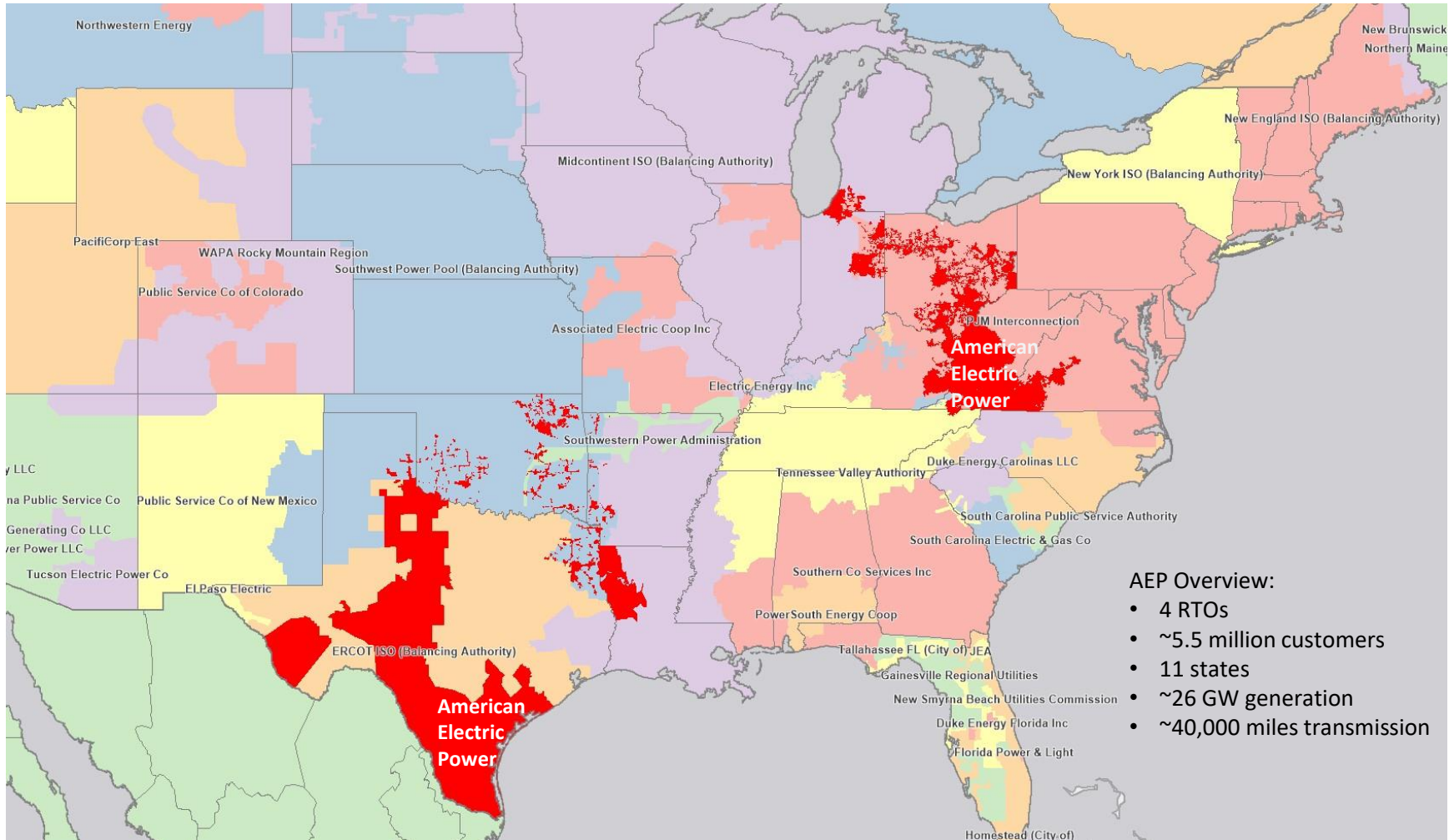


# ESIG 2022 Fall Technical Workshop

## Moving Interregional Transmission Planning Forward

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# AEP & Balancing Authorities



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

# What is our motivation?

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- **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?

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- 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?

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- 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

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