

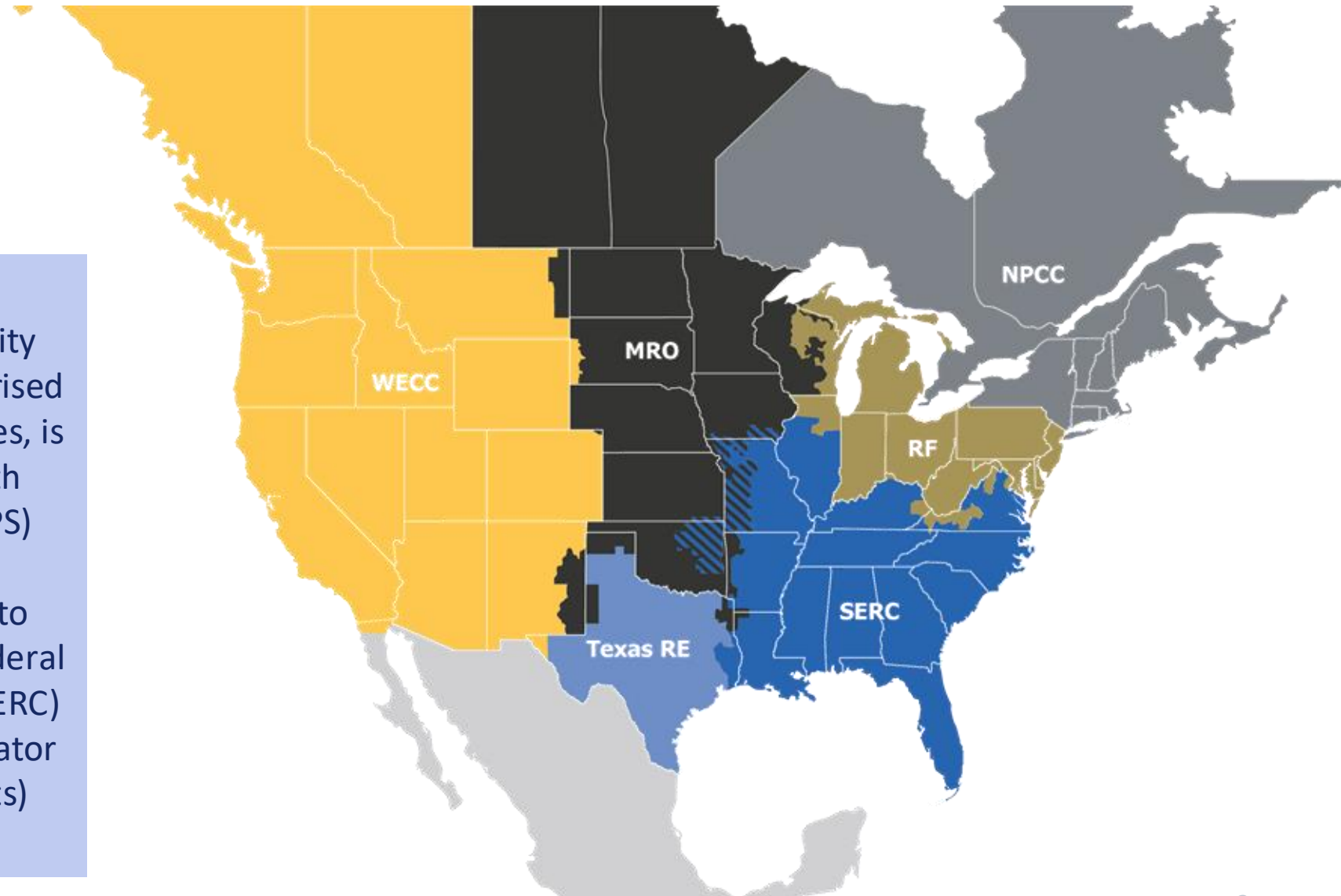
Reliability Outlook

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Council for Clean and Reliable Energy (CCRE)
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NERC's Vision and Structure

The vision for the Electric Reliability Organization (ERO), which is comprised of NERC and the six Regional Entities, is a highly reliable and secure North American Bulk Power System (BPS)

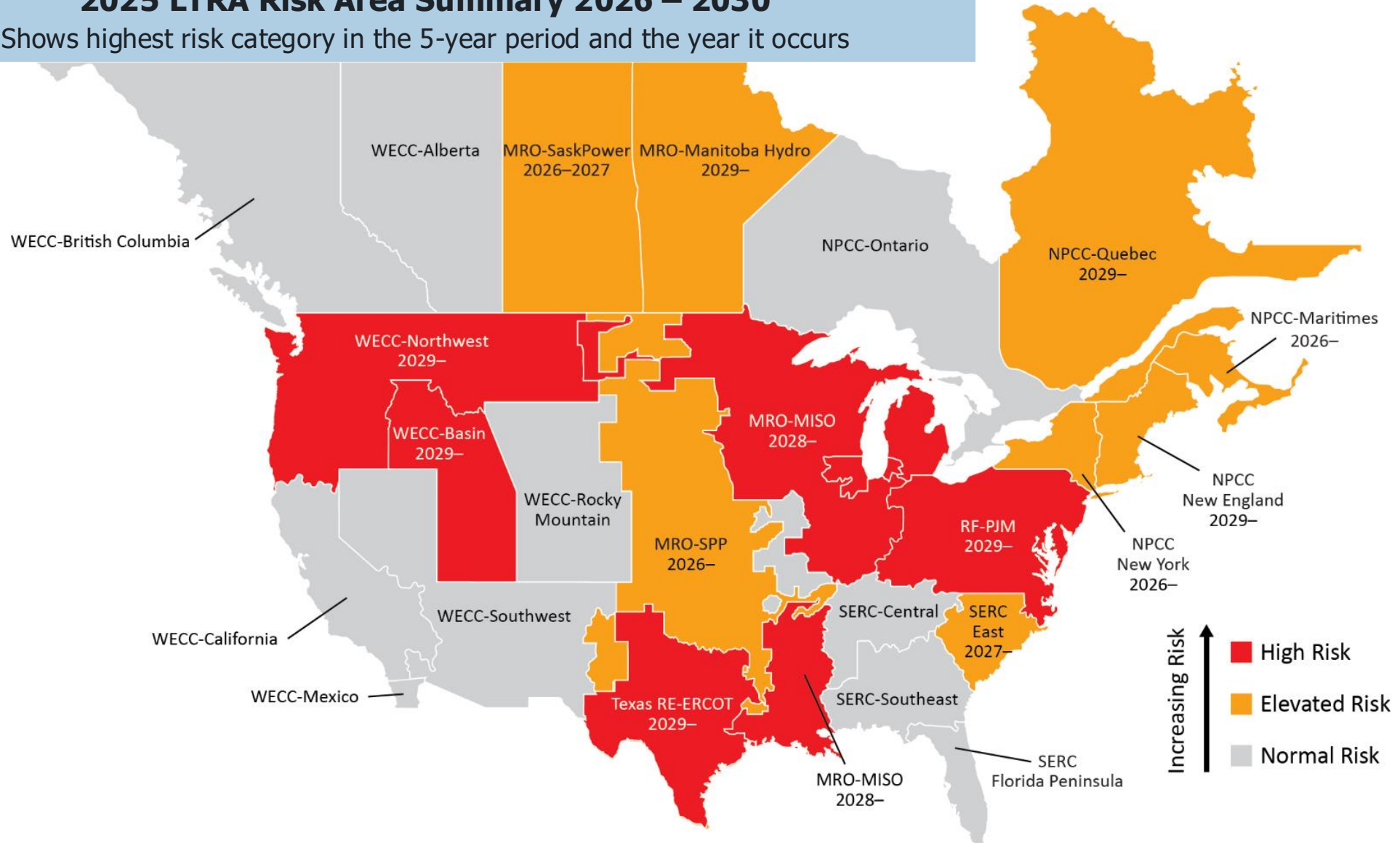
As the ERO, we are accountable to regulators in the United States (Federal Energy Regulatory Commission - FERC) and Canada (Canada Energy Regulator (CER) and provincial governments)



Long-Term Reliability Assessment (LTRA)

2025 LTRA Risk Area Summary 2026 – 2030

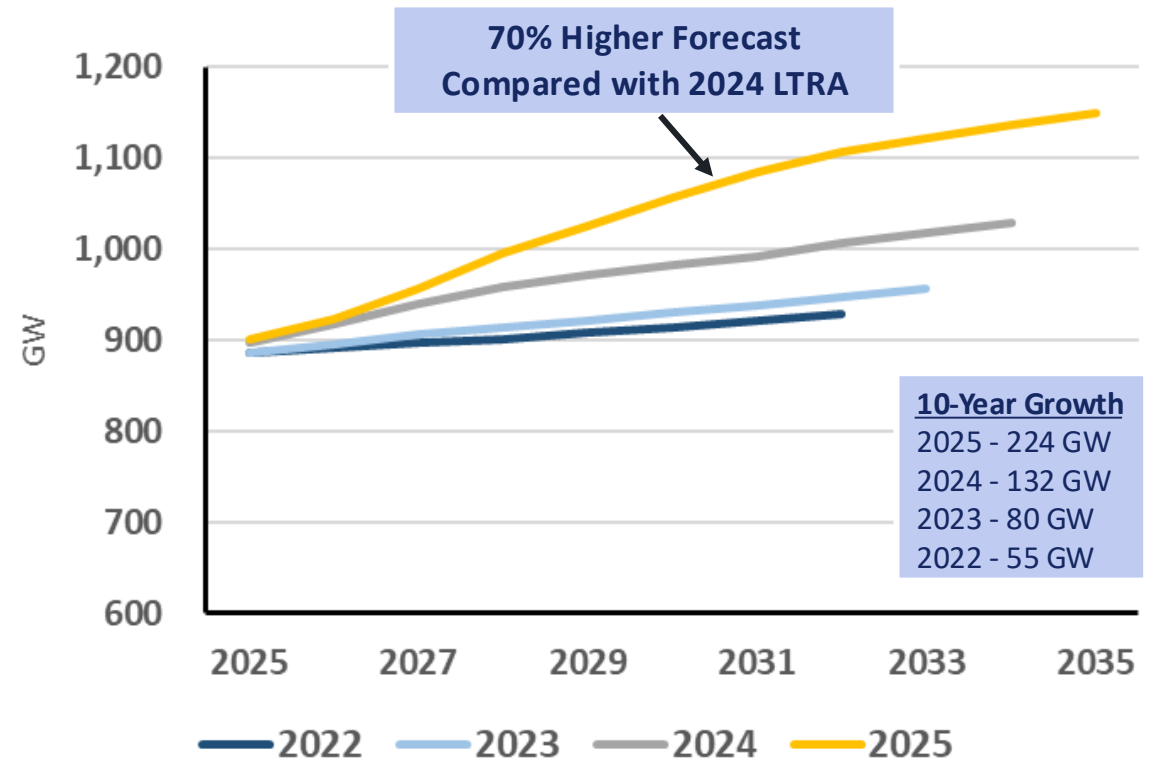
Shows highest risk category in the 5-year period and the year it occurs



Demand Growth is Rising Rapidly

- Assessment area summer peak demand is forecast to rise by over 224 GW (24% increase from 2025 peak demand)
- Winter peak demand growth continues to exceed summer growth (rising 245 GW over 10 years)
- New data centers are the main source of load growth followed by other large industrial loads and electrification
 - Data centers demand forecast increase forecast volatility

10-year BPS Summer Peak Demand Growth



“Hyper-complex” Risk Environment



Resource Adequacy Challenges



Extreme Weather Complexities



Energy Policy



Threat Landscape



Increasing risk concentration

- Common mode failure
- Declining fuel diversity

Limited infrastructure development

- Affordability concerns
- Project deployment delays
- Supply chain constraints
- Siting and permitting

Loss of key “Essential Reliability Services”

- Inertia/frequency response
- Reactive power/voltage support
- Dispatchability/ramping services

Integrating new resources reliably

- Large Loads
- IBRs
- DERs/EV Charging

Rapidly evolving security needs

- Supply chain protections
- Low impact protections
- Cloud