

Resilience Initiatives Update

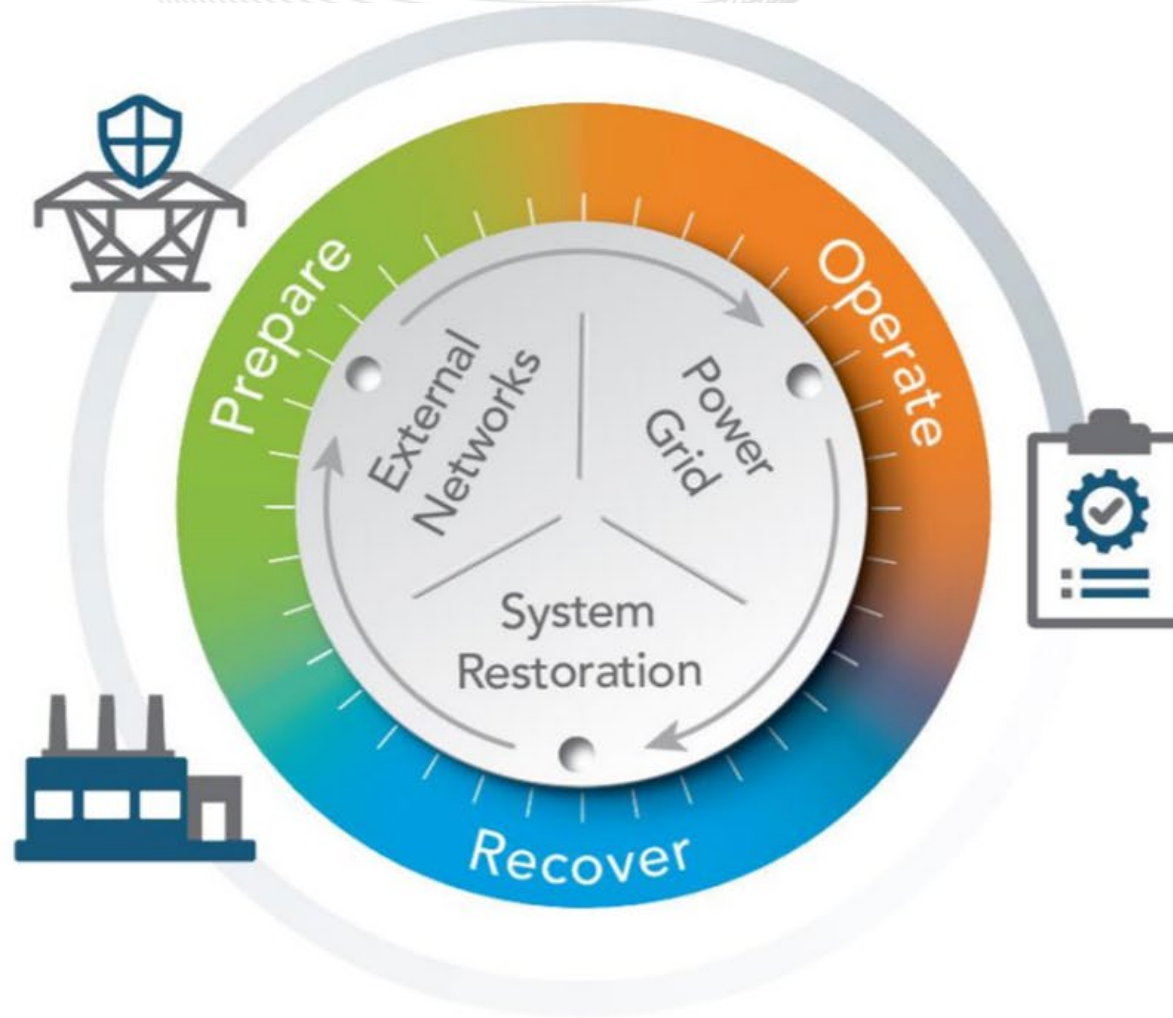
Chris Piong
Director, Operations Planning
Operating Committee
August 12, 2021

Infrastructure

- ① Enhanced Models & Analysis
- ② RTEP Criteria
- ③ Cranking Path Redundancy

Supply

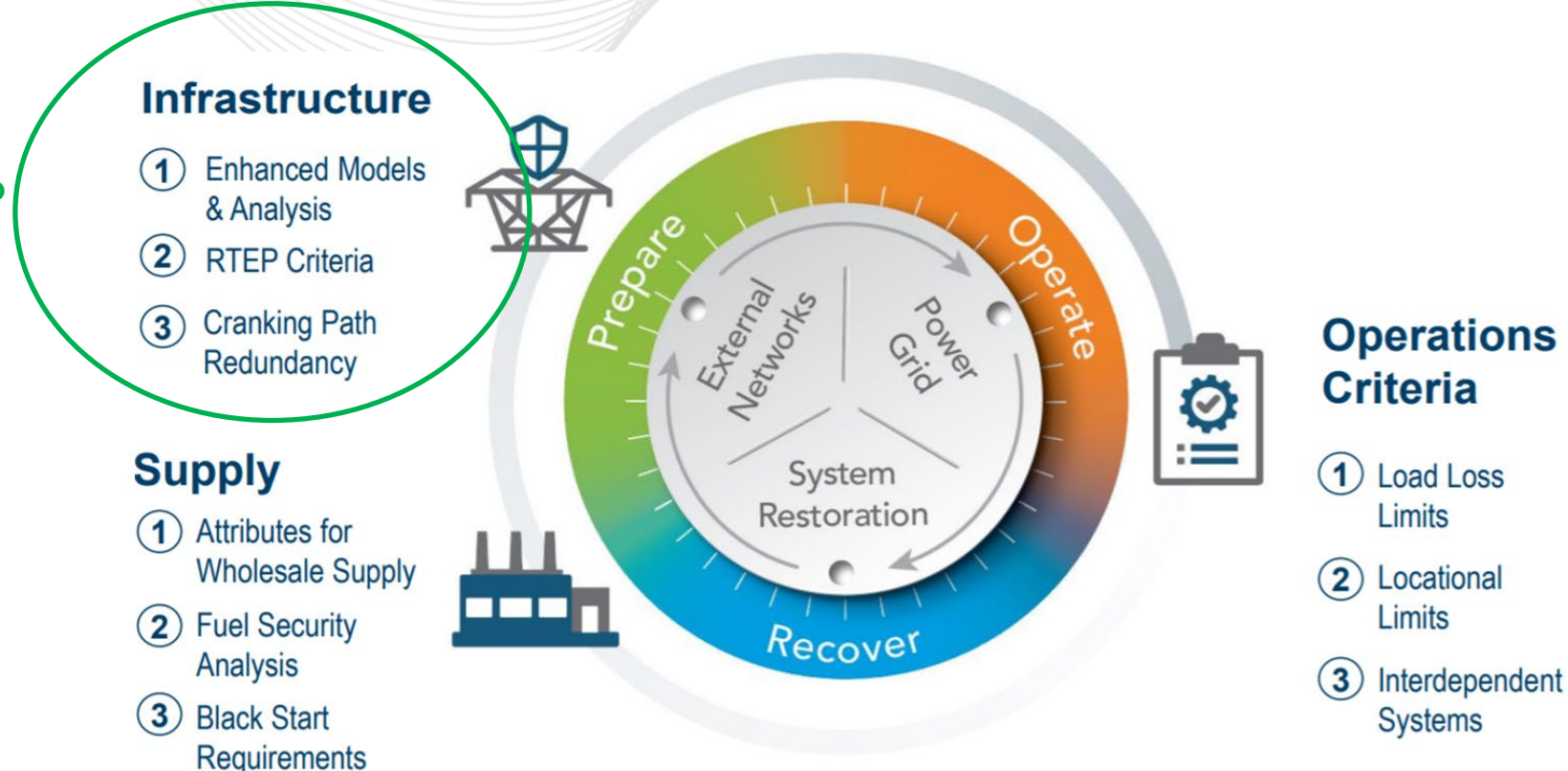
- ① Attributes for Wholesale Supply
- ② Fuel Security Analysis
- ③ Black Start Requirements



Operations Criteria

- ① Load Loss Limits
- ② Locational Limits
- ③ Interdependent Systems

- Cascading trees tool
 - ✓ 2022 and 2023 RTEP case evaluation
- RTEP CIP-014 avoidance and mitigation
- TSS “Recommendations of Resilience and System Hardening Practices”
 - ✓ Published 7/22/21



- Renewable Integration Study (RIS)
- Fuel Security (annual analysis)
- FRBSR stakeholder process (hiatus)
- Exploring additional EPRI System Restoration tools

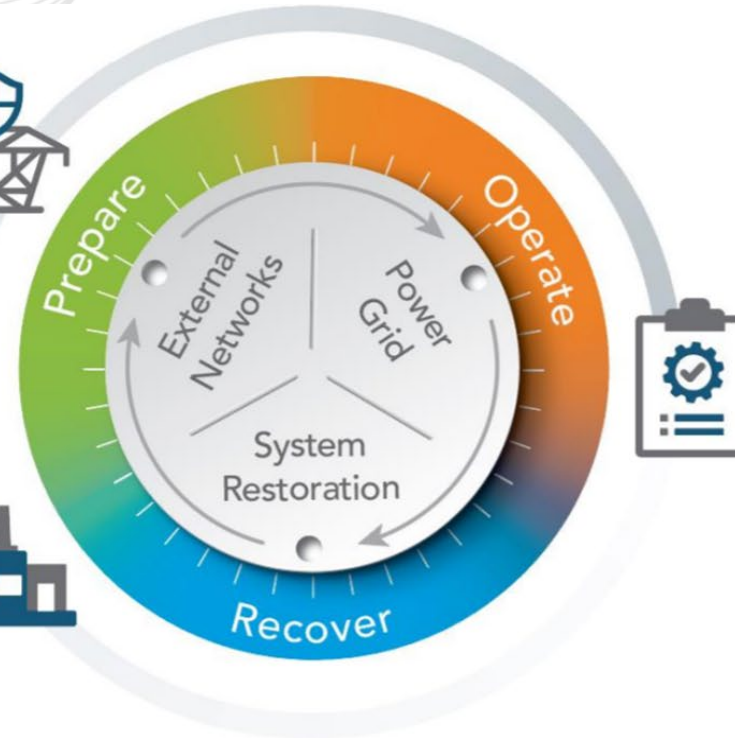
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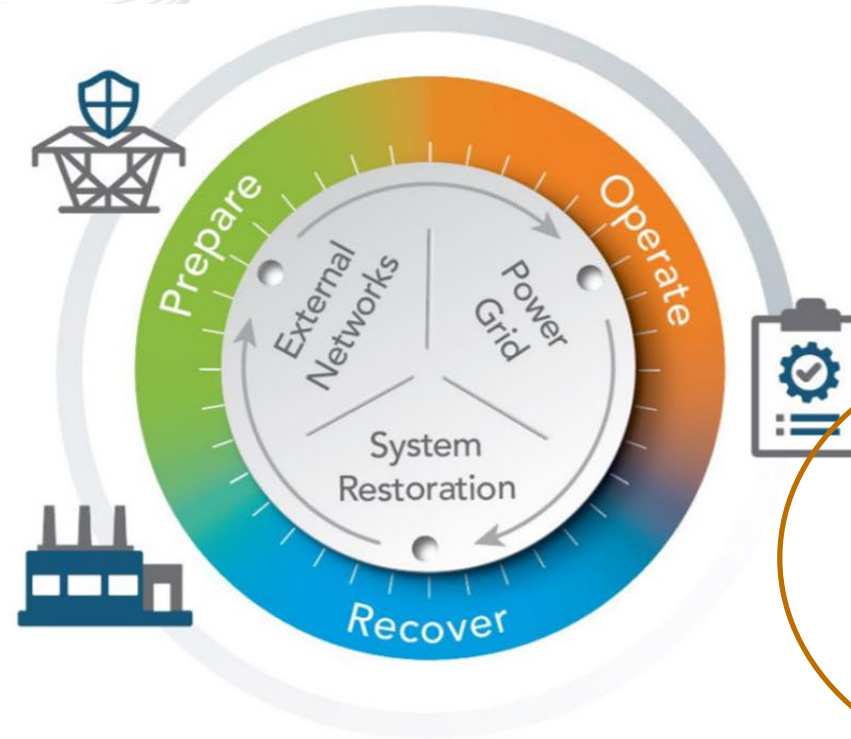
- Gas-Electric coordination and winter readiness outreach
- Critical facility evaluation in demand response and load shed plans
- Generator temperature and winter preparedness surveys

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- Continue building on the in-flight activities
- NATF Transmission Resilience Maturity Model (TRMM) Assessment (March 2022)
- Renewable Integration Study
- Capacity Market Reform

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System Resilience Update



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