

NorthernGrid

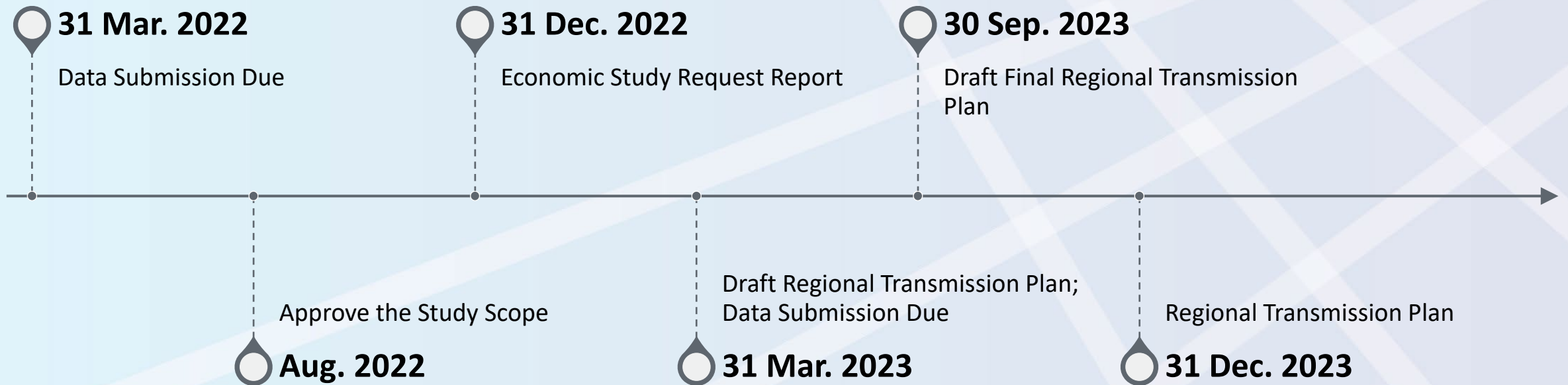
2022-2023 Draft Study Scope
Walk-Through

Study Scope, 2022-2023

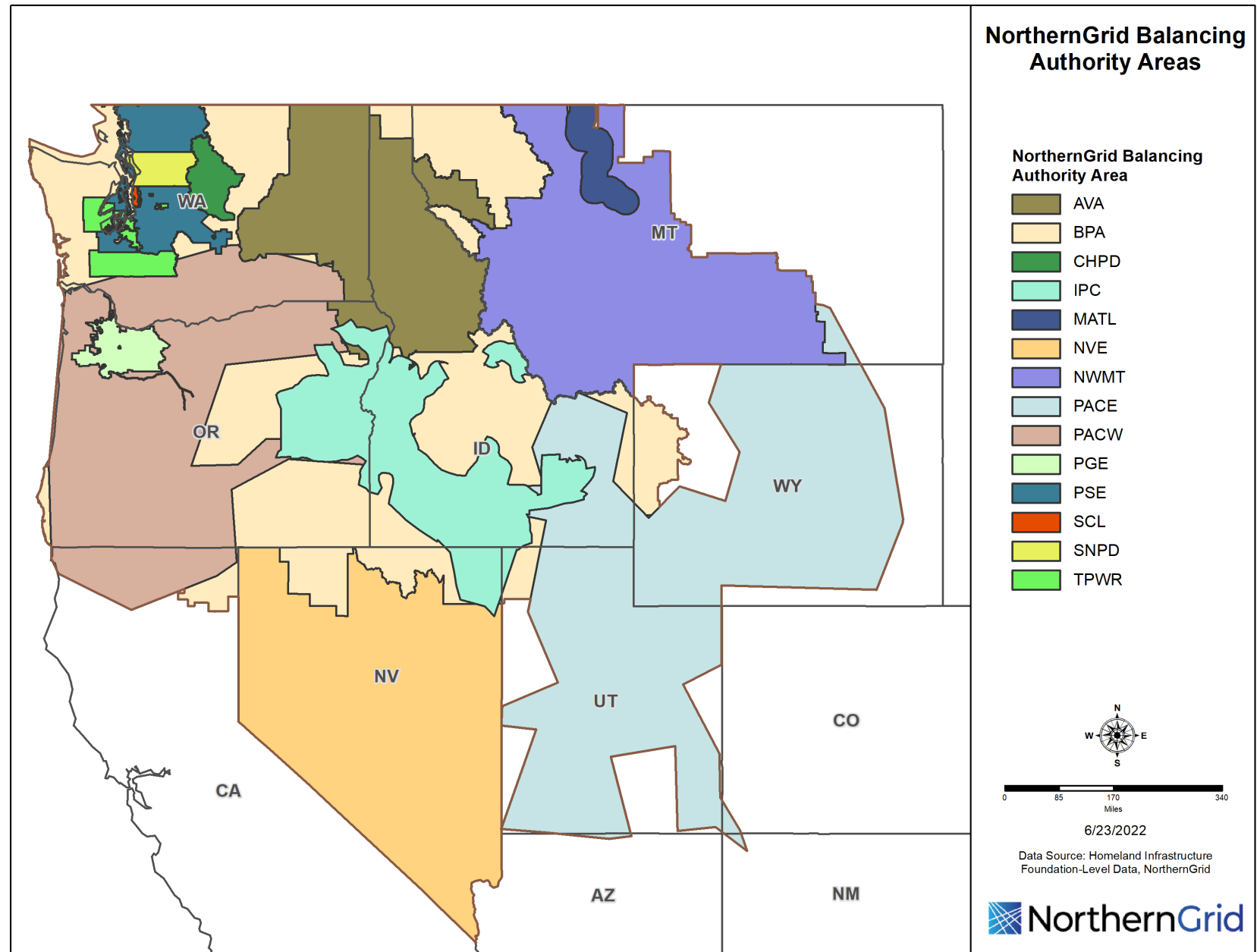
- High-level schedule
- Summary of needs
- Loads Summary
- Projects requesting Cost Allocation
- Resource Additions/Retirements
- Stress conditions



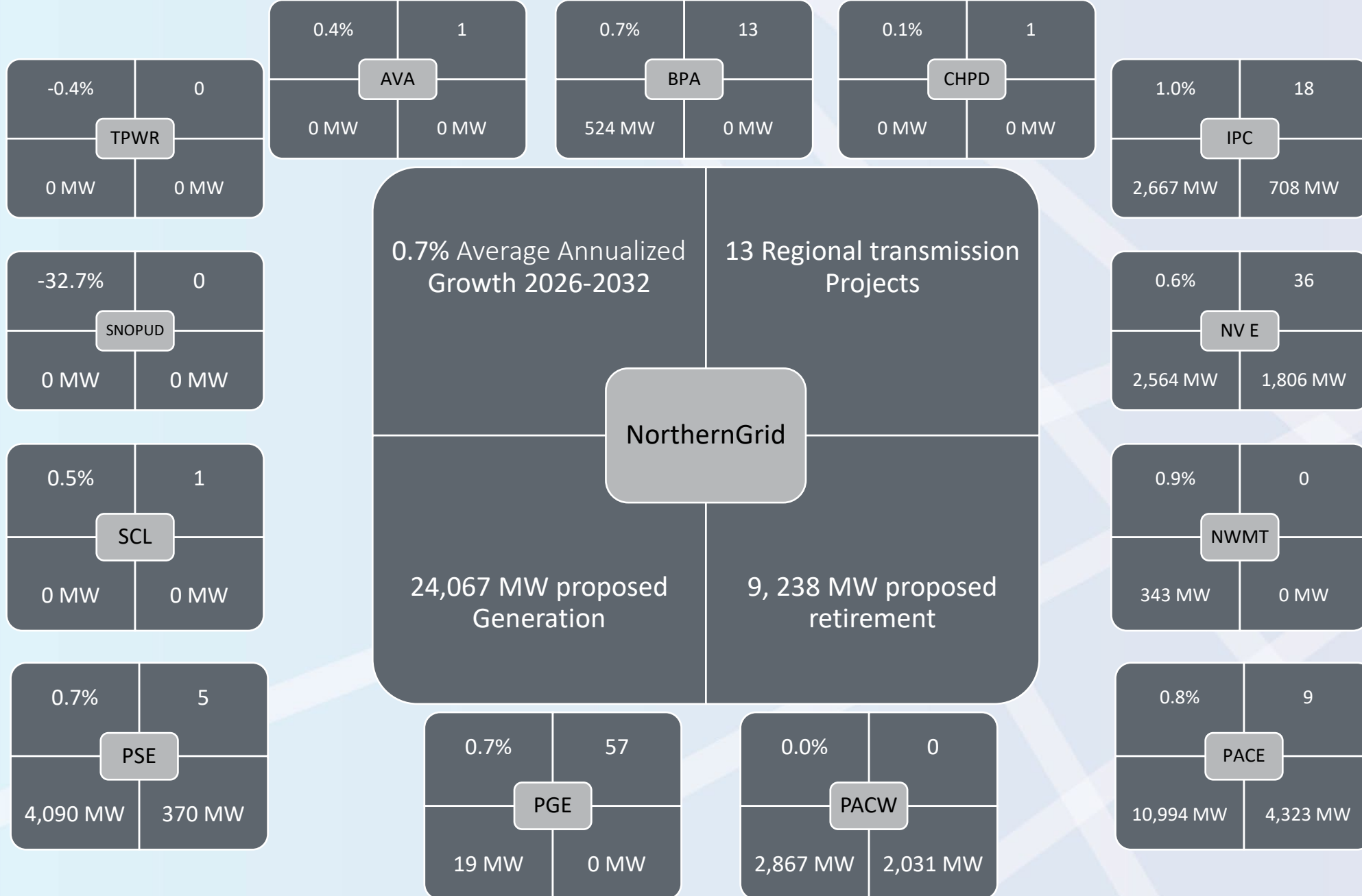
General Schedule



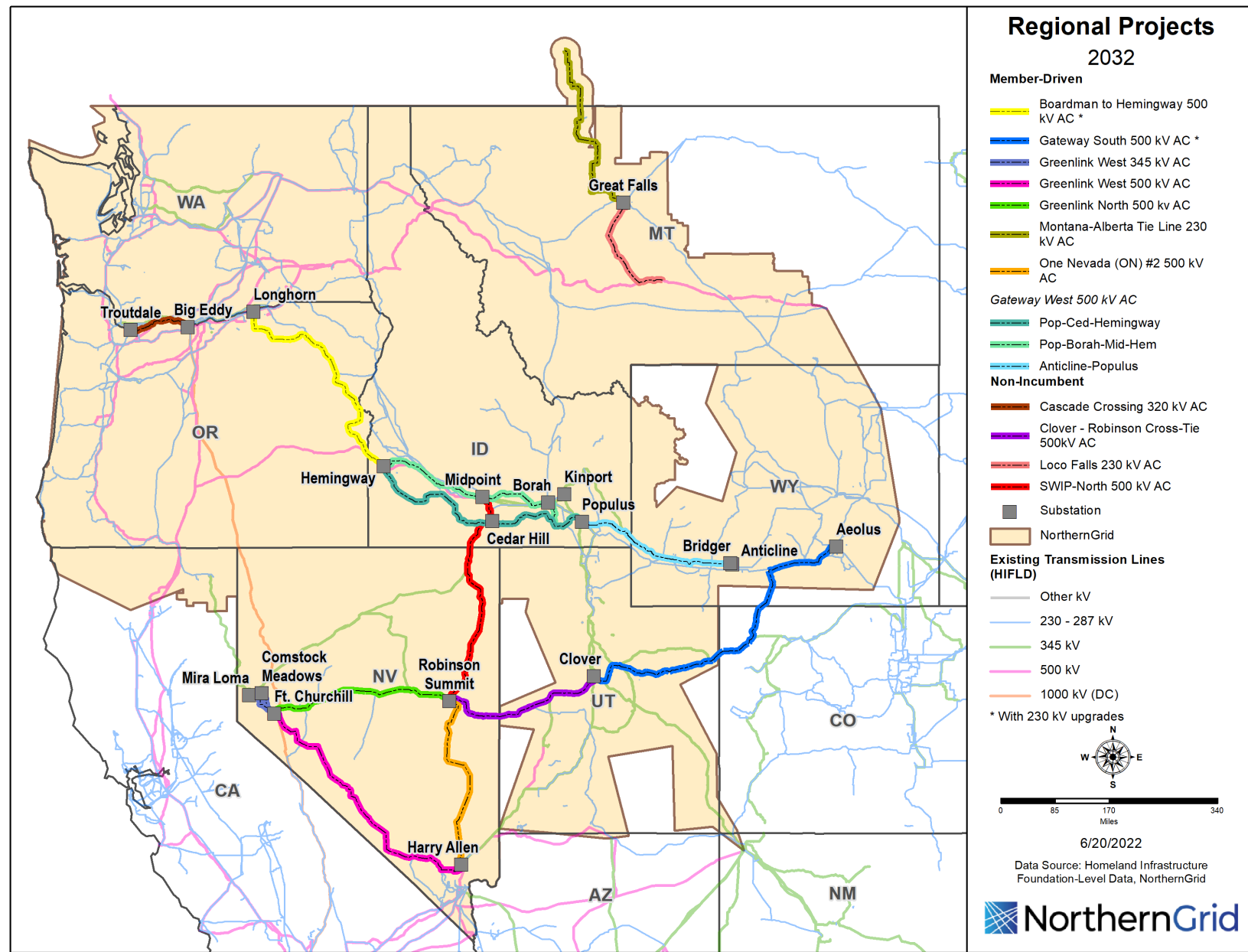
2022-2023



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2022-2023 Proposed Projects



U:\GEO\SPATIAL\Geoworkspaces\Transmission\NorthernGrid_CONFIDENTIAL_DATA\Maps\Regional Transmission Projects.mxd

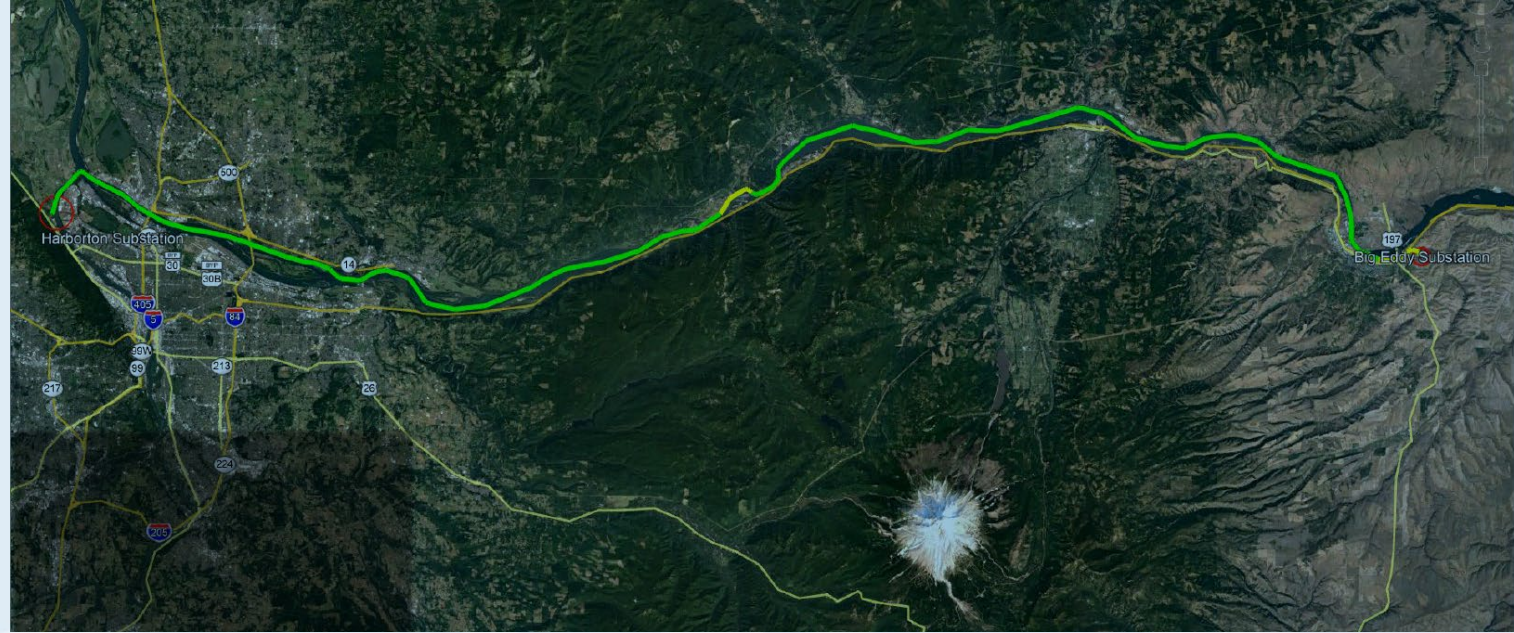
Loads Summary

	January	February	March	April	May	June	July	August	September	October	November	December
2030 (MW)	44,266	42,261	39,304	36,659	36,645	40,055	43,383	43,109	37,892	36,699	40,860	44,595
2032, WITHOUT NV E (MW)	44,099	42,601	40,172	37,061	37,029	42,208	44,870	44,358	39,379	37,611	40,686	44,472
2032, WITH NV E (MW)	49,657	47,970	45,593	43,102	45,055	52,116	55,130	54,488	48,509	44,202	45,796	50,000



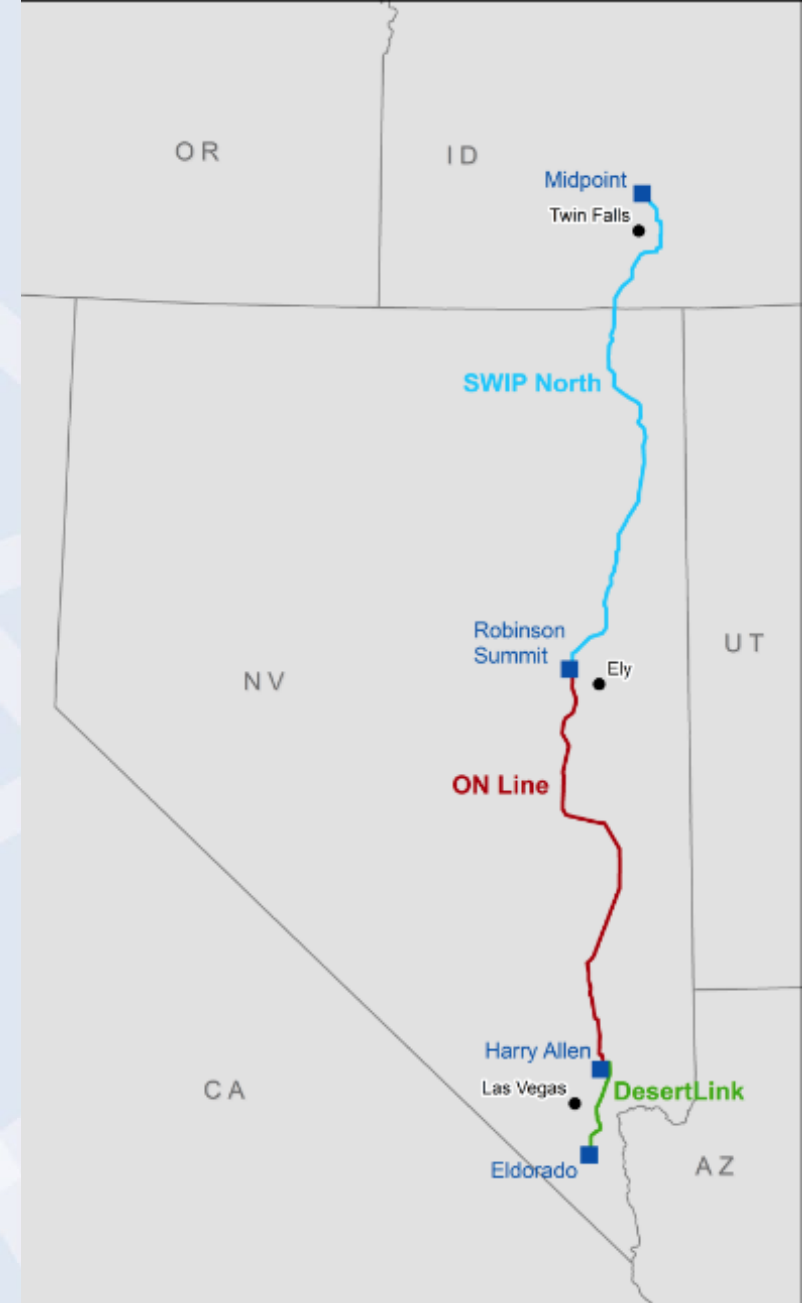
PowerBridge

- Cascade Renewable Transmission System
- 1,100 MW, 400 kV DC
- No proposed generation resources
- Was not selected into the 2020-2021 RTP



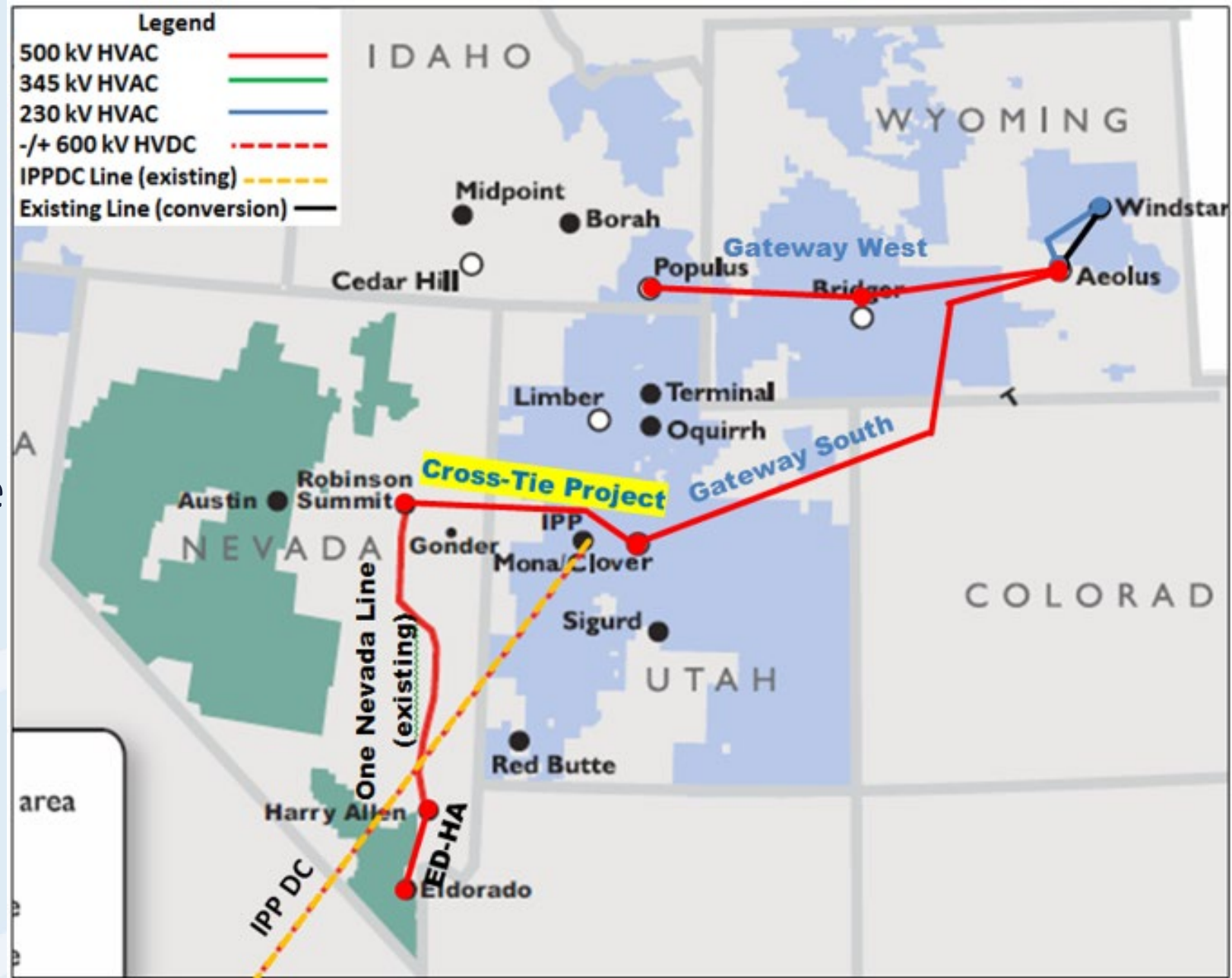
Great Basin Transmission

- SWIP North
- 500 kV, ~2000 MW
- Associated with 1850 MW wind
- Was NOT selected into the 2020-2021 RTP



TransCanyon

- Cross-Tie
- 500 kV < ~1,500 MW
- No associated resource
- Cross-Tie was NOT selected into the 2020-2021 RTP

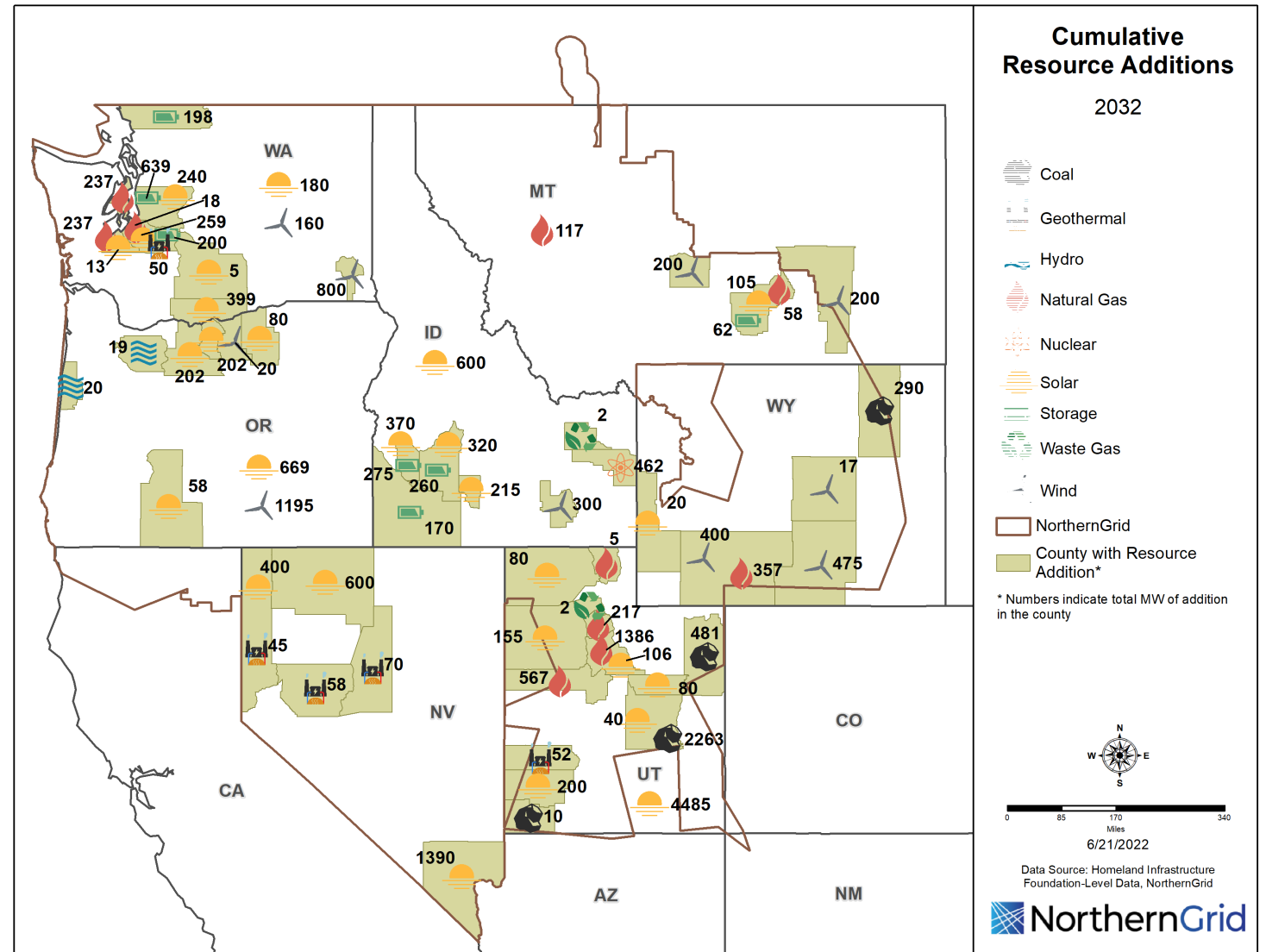


Cost Allocation: Qualified Developer Status

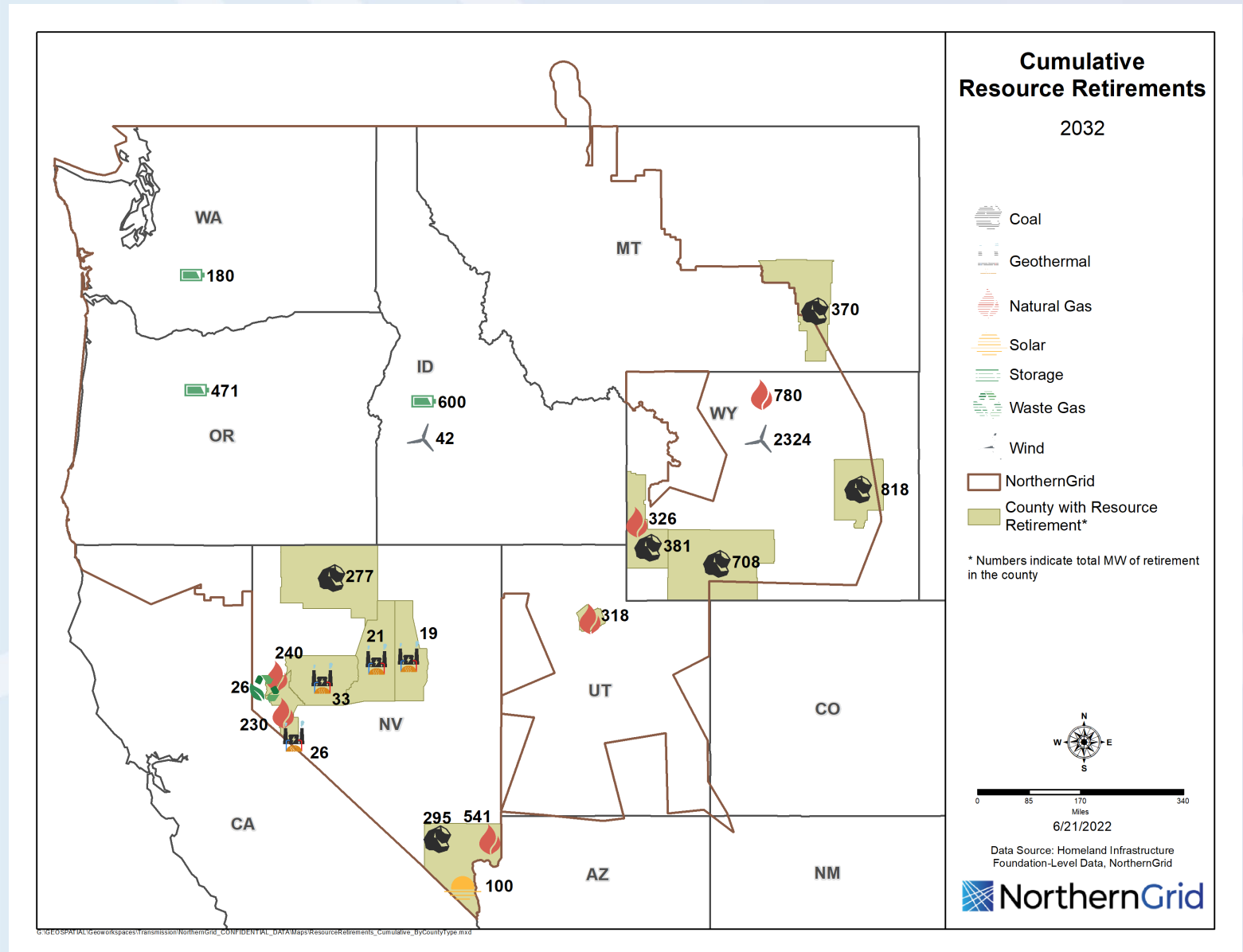
- TransCanyon
 - Cross-Tie project
- PowerBridge
 - Cascade Crossing
- Great Basin Transmission
 - SWIP North



Resource Additions



Resource Retirements



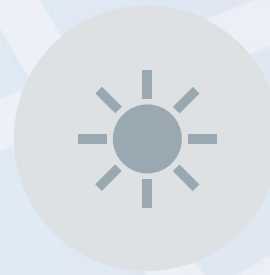
Stress Conditions



SUMMER



WINTER



CALIFORNIA
EXPORTS



WYOMING WIND



NorthernGrid

Regional Combinations

- Baseline, “No Projects”
 - Basis for comparison; today’s topology against 10-year future
- Baseline, “Member Projects”
 - Bookend for comparison
- Baseline, “All Projects”
 - “Bugatti System”
- 34 other combinations



Thank you!

