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GRDA at a glance.....

Created: 1935 by the 15th Legislature of Oklahoma as a conservation and reclamation district for the waters of the Grand River

Business Model: Non-appropriated state agency funded by electric and water revenues, not tax dollars. Public Power utility

Mission Framework: Electricity, Economic Development, Environmental Stewardship, Employees, and Efficiency

Generation Portfolio: Hydro, pumped storage, coal, combined-cycle gas, simple-cycle gas, wind PPAs, and BESS optionality

Stewardship Role: Ecosystems, Grand Lake, Lake Hudson, W.R. Holway Reservoir, and scenic Illinois River responsibilities





Salina Pumped Storage Project
W.R. Holway Reservoir
260 MW Hydropower



Pensacola Dam
Grand Lake o' the Cherokees
126 MW Hydropower



Robert S. Kerr Dam
Lake Hudson 128 MW Hydropower



Redbud Power Plant
457 MW Combined-Cycle Natural Gas



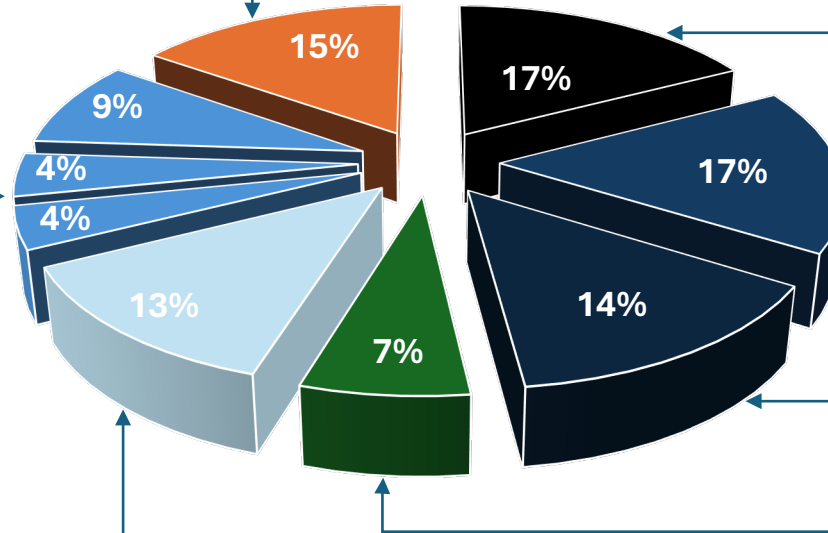
Grand River Energy Center - Thermal
520 MW Coal-Fired
495 MW Combined-Cycle Natural Gas
426 MW Simple Cycle



Grand River Energy Center - BESS
~200 MW Battery Energy Storage System (BESS)



Wind Generation
385 MW Across Four Projects



Public Power: Reliability & Affordability First

Public Power: Reliability & Affordability First

Every investment is centered in public power values, centered in the interest of rate payers.

Preserve Valuable Infrastructure

Extract maximum value from existing public-power assets before replacement.

Federal Dollars Leveraged Responsibly

DOE funding accelerates investments that GRDA is already prepared to execute and fund alongside federal participation.



PROJECT M.O.R.E.

Modernizing Oklahoma's Rural Energy

RELIABLE POWER. STRONGER COMMUNITIES. SECURE FUTURE.



WATER & AIR DELIVERY SYSTEM UPGRADES

Improving efficiency and
operational resilience.



TURBINE CONTROL SYSTEM & MONITORING ENHANCEMENTS

Supporting predictive maintenance
and improved system performance.



HIGH PRESSURE BOILER IMPROVEMENTS

Ensuring efficient and
safe operation.



COAL YARD & MATERIAL HANDLING INFRASTRUCTURE MODERNIZATION

Enhancing reliability, safety, and
fire protection systems.

PROJECT M.O.R.E. INVESTMENT



DOE FUNDING REQUESTED **\$28,518,000**



NON-DOE FUNDING **\$48,061,000**
(63%)



TOTAL VALUE **\$76,579,000**

Project Overview

Project Location: Grand River Energy Center (GREC), Chouteau, Mayes County, Oklahoma

Project Goals:

Six (6) Technical Objectives designed to extend the useful life of a 520 MW coal fired plant constructed in 1986

- Substation Interconnection Transfer from GREC 2 to GREC 1 Substation
- Turbine and Combustion Control System Upgrades and Optimization
- Coal Yard Systems and Facilities Modernization
- High Pressure Boiler & Air-Preheater Improvements
- Water & Air Delivery Systems Modernization, Including Variable Frequency Drive Upgrades
- Deferred Maintenance Recovery Project (Not Federally Funded)

Period of performance: February 2026 – June 2028

Intended Impacts: The value proposition of this project is remarkable. The overnight cost of capacity for this project is **\$170/kW compared to new generation cost of >\$2000/kW**, excluding interest expense for financing. Of the 14 municipal wholesale customers, 11 or 69% of the communities are classified as rural and remote.

Further analysis and benefit for rate stabilization indicate that preservation of this asset opposed to new greenfield generation construction results in a **significant savings for GRDA customers.**

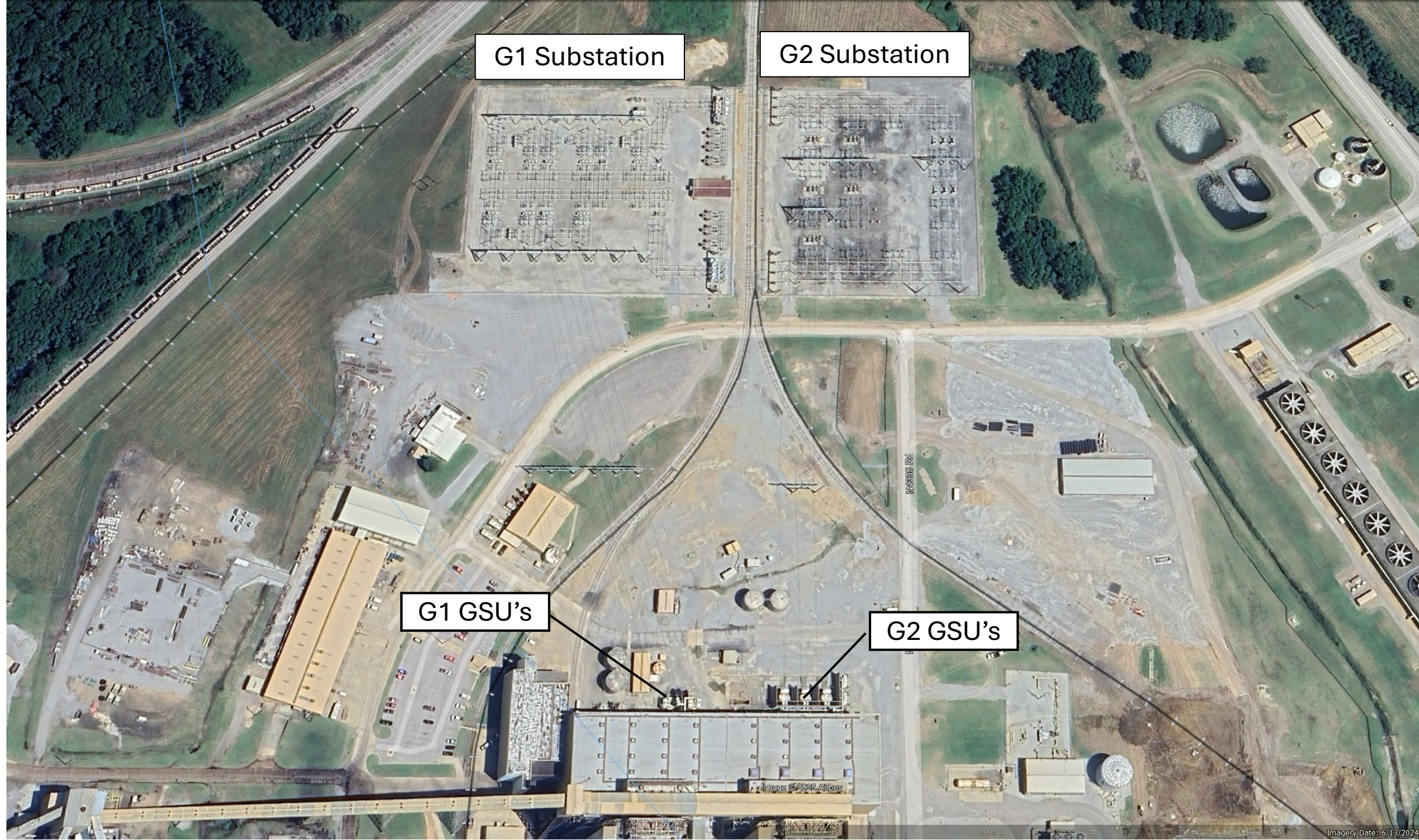
Project Overview (cont.)

Project Background: GRDA began construction of a new simple cycle, fast start 426 MW natural gas, hydrogen capable, combustion turbine in 2023 (GREC 4), which was completed and placed in to service September 19, 2026. This unit was intended to replace GREC 2 coal fired unit. This replacement did not increase GRDAs total generation capacity but was in response to increasing regulatory costs associated with coal generation assets. GREC 4 was designed and permitted to utilize the GREC 2 grid interconnection. GRDA still has access to the GREC 1, original coal unit (retired) grid interconnection which will be utilized to connect GREC 2.

Project Scope: The project will achieve six technical objectives outlined earlier in the presentation.

Performance Metrics and Risk Management: GRDA has relevant experience managing complex, high impact, high value generation construction projects such as this. Our team will direct all construction activities, procurement, financial management, and award administration for the project.

We estimate 80% of the resources for this project will be sourced domestically, ensuring strong support for U.S. suppliers and manufacturers. The remaining 20% may be sourced internationally if suitable domestic options are unavailable. Resources from internal sources may include digital controllers, variable frequency drives, protection relays, and various construction material components. All equipment sourced, whether international or domestic, will meet or exceed all applicable standards as required by the North American Electric Reliability Corporation (NERC).



G1 Substation

G2 Substation

G1 GSU's

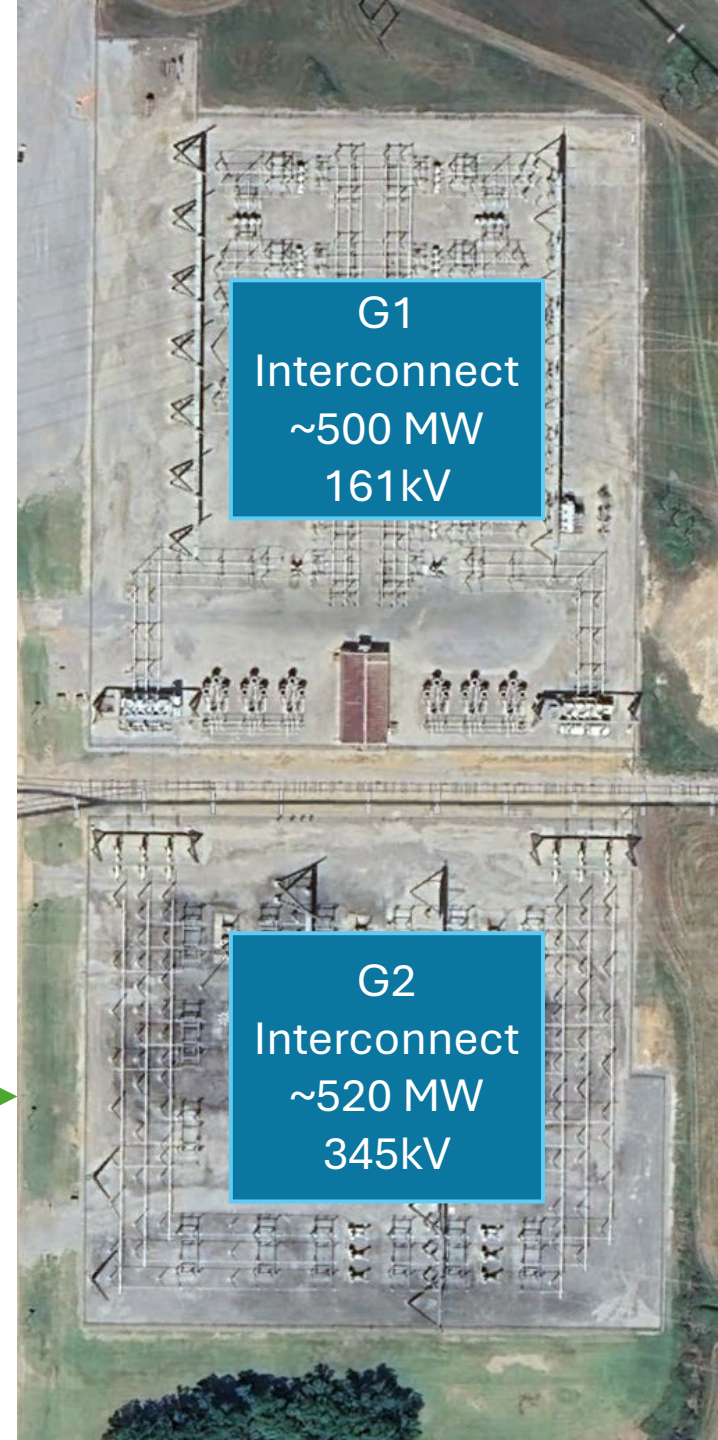
G2 GSU's

Image © 2024 Airbus

G2 Interconnection – Original



492 MW



G1
Interconnect
~500 MW
161kV

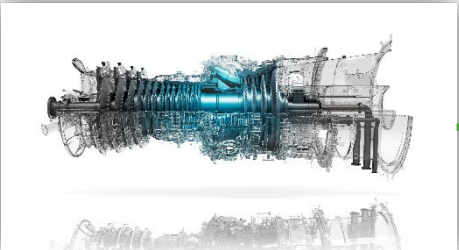
G2
Interconnect
~520 MW
345kV

Approximate capacity values for presentation purposes only.

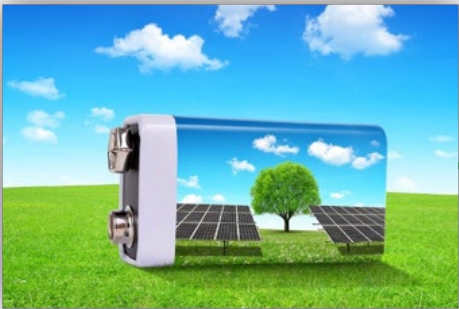
G2 Interconnection – Phase 1 – Replacement w/ G4 + Battery Storage



RETIRED

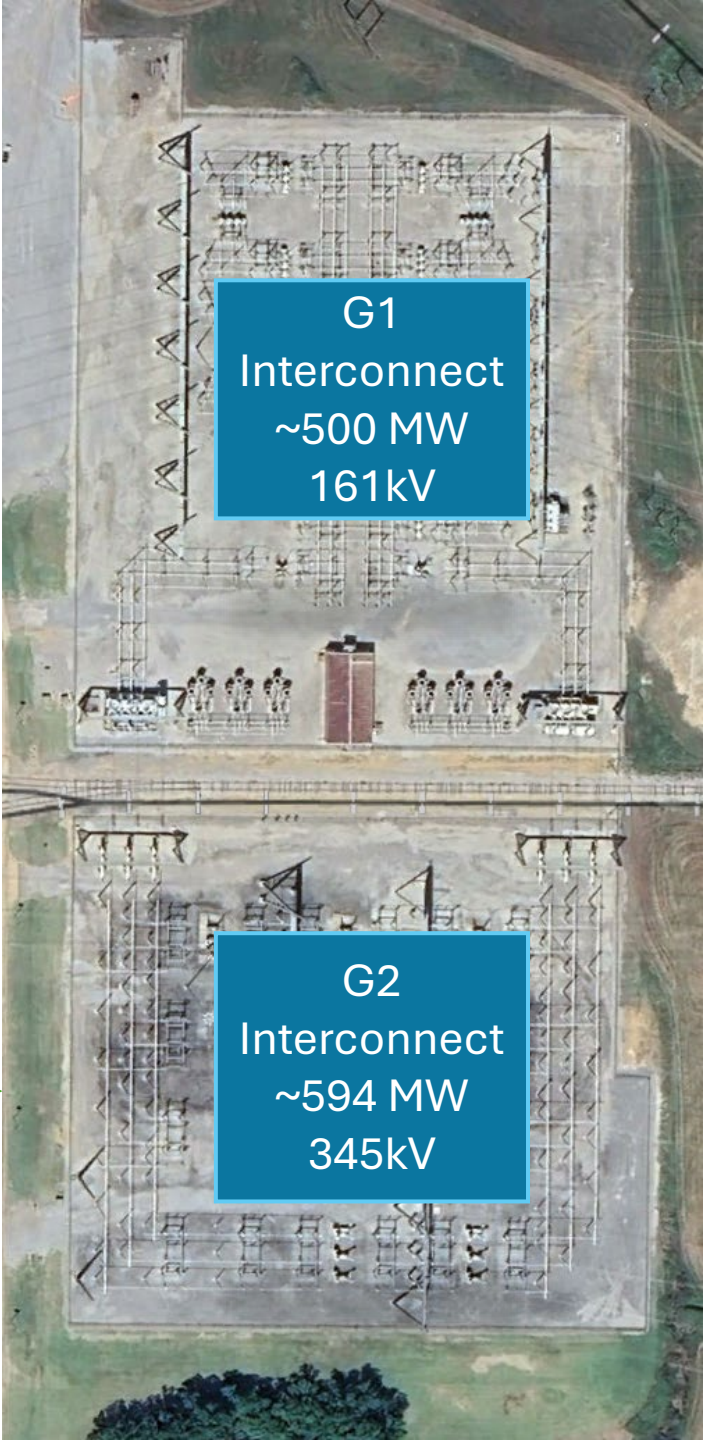


422 MW



172 MW

594 MW



G1
Interconnect
~500 MW
161kV

G2
Interconnect
~594 MW
345kV

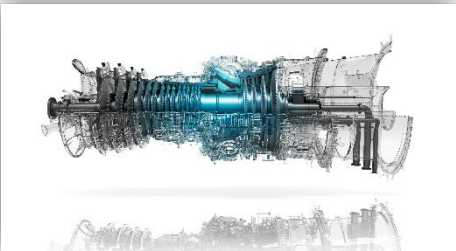
Approximate capacity values for presentation purposes only.

G2+G1 Interconnection – Project M.O.R.E

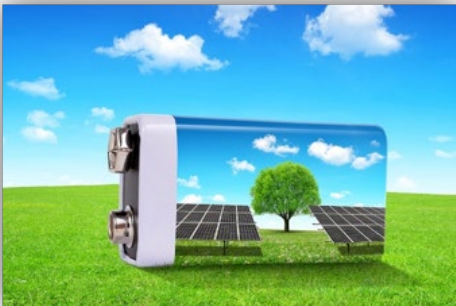


RETIRED

450 MW



422 MW



172 MW

594 MW

G1
Interconnect
~500 MW
161kV

G2
Interconnect
~594 MW
345kV

Approximate capacity values for presentation purposes only.

Generation Resources - Winter Readiness

Extreme Cold Weather Temperature (ECWT):

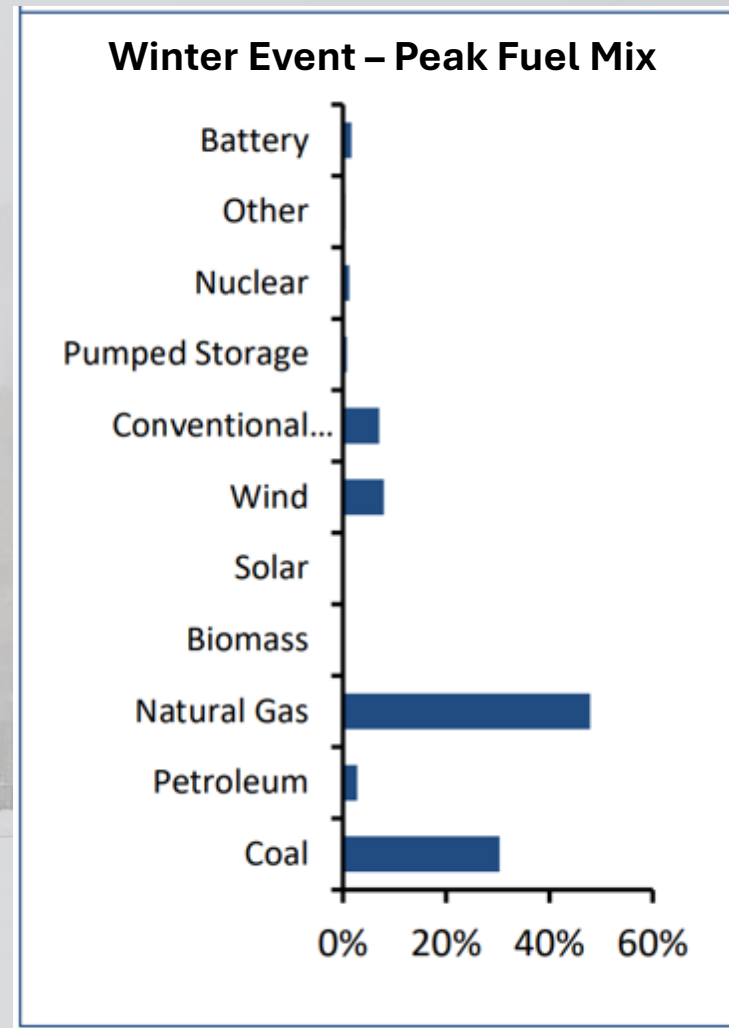
- Specific to GREC: **4° F**
- Winter Storm Uri: **-13° F (windchill < - 20° F)**

Unit Design Temperatures:

- GREC 2: **-5° F**
- GREC 3 & 4: **-21° F**
- Hydro: N/A

GRDA's Winter Readiness Plan:

When the daytime high will not exceed **40° F** and the lows are below **32° F** for more than **72-hours**, or anytime the daily low temperature falls below **10° F**, severe winter weather team is activated.



NERC 24-25 Reliability Assessment

Thank you

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