GRID DEPLOYMENT OFFICE

FACT SHEET

GRID RESILIENCE AND INNOVATION PARTNERSHIPS PROGRAM

Established by the Bipartisan Infrastructure Law, the U.S Department of Energy's Grid Deployment Office is administering a historic $10.5 billion investment via the Grid Resilience and Innovation Partnerships (GRIP) program to enhance grid flexibility, improve the resilience of the power system against growing threats of extreme weather and climate change, and ensure American communities have access to affordable, reliable, clean electricity when and where they need it.

IMPROVING CONSUMER COST SAVINGS THROUGH HOME HEATING ELECTRIFICATION

Generac Grid Services' project will offer approximately 2,000 income-eligible participants a combination of home battery systems, thermostats paired with heat pumps, and hot water heater load control switches. The goal of this initiative is to demonstrate that efficient building electrification can be achieved while minimizing system overloads, reliability issues, and the need for infrastructure upgrades. This project will use Generac's distributed energy resource management system (DERMS) to send control signals to heat pumps, thermostats, water heating load control switches, and batteries to minimize and optimize the impacts of new heating and transportation electrification load on the grid.

Anticipated Outcomes and Benefits

- Optimizing the battery fleet to reduce demand during peak hours in both summer and winter.
- Engaging the battery fleet to absorb excess solar production during light load conditions, helping to mitigate reverse power flow and ensure a more reliable grid.
- Increasing the use of solar energy while decreasing utility costs and energy bills for low- and middle-income households.
- Structuring training and employment opportunities, including on-the-job training, apprenticeships, and strategies for workers to gain credentials for advancement; prioritizing outreach to Minority/Women-Owned Business Enterprises contractors for program inclusion; and coordinating information sessions and recruitment events at local community colleges, vocational schools, and public housing locations.
- Developing a replicable model that can be scaled to communities across the country through the Interstate Renewable Energy Council. This model will enable broad dissemination of findings, promoting resilience and decarbonization for low- and middle-income populations at a national level.

PROJECT DETAILS

- **Project:** Accelerating Building Thermal Electrification While Managing System Impacts
- **Applicant/Selectee:** Generac Grid Services
- **GRIP Program:** Smart Grid Grants (Bipartisan Infrastructure Law, Section 40107)
- **Federal cost share:** $49,835,370
- **Recipient cost share:** $52,939,597
- **Project Location:** Massachusetts
- **Project type:** Load Flexibility

HELPFUL LINKS

- Grid Resilience and Innovation Partnerships Program
- About the Grid Deployment Office

Published October 2023. Fact sheet information is based on project applications at the time of publication and should not be considered final.