Investing in Georgia's Energy, Land, and Water Resources

BIL 40101(d) Informational Webinar: Preventing Outages and Enhancing the Resilience of the Electric Grid

GEFA Energy Resources Division

April 24, 2024

Agenda

1. Grid Resilience Grants also known as BIL 40101(d) Preventing Outages and Enhancing the Resilience of the Electric Grid
2. GEFA Timeline
3. Project Management Plan and Reporting Preview
4. Oak Ridge National Laboratory Technical Assistance Overview
5. Questions and Comments

Grid Resilience Grants
BIL 40101(d) Program Overview

40101(d) Grid Resilience Goals

The goal of the Grid Resilience Formula Grant Program is:

1. Maintaining and enhancing the reliability and resilience of the electric grid, while minimizing the frequency and duration of power outages.

2. Investing in projects that strengthen and increase the workforce within Georgia that is responsible for grid reliability and resilience.

3. Investing in grid infrastructure modernization and ensuring that benefits from these funds are distributed equitably, particularly to communities that are more susceptible to electric power outages.

Summary of Opportunity

Under this U.S. Department of Energy (DOE) formula program, Georgia is allocated to receive:

- Approximately $8.6 million annually for the next five years for an approximate total of $43 million.

- For this round of funding, GEFA will make available $26,019,581 to award projects for the first three years under this program.

- GEFA seeks electric grid infrastructure projects that
  - build upon existing efforts
  - can demonstrate increased reliability and resilience
  - have strong community benefits.

Eligibility for Formula Grants

For the purpose of implementing eligible resilience measures that achieve the objectives of this program, States may use grant funding to issue subawards to eligible entities, including:

- An electric grid operator;
- An electricity storage operator;
- An electricity generator;
- A transmission owner or operator;
- A distribution provider;
- A fuel supplier;
- Any other relevant entity, as determined by the Secretary (of DOE).

Eligible Activities

Funding provided under this program may be used to implement a wide range of resilience measures intended to mitigate the impact of disruptive events, including:

- Utility pole management
- Hardening of power lines, facilities, substations/other systems
- Undergrounding of electrical equipment
- Replacement of old overhead conductors and underground cables
- Relocation of power lines or reconductoring of power lines with low-sag, advanced conductors
- Vegetation and fuel-load management
- Weatherization technologies and equipment
- Fire-resistant technologies and fire prevention systems
- Monitoring and control technologies
- Use or construction of distributed energy resources for enhancing system adaptive capacity during disruptive events, including microgrids, and battery-storage subcomponents
- Adaptive protection technologies
- Advanced modeling technologies

Funding may also be used for the training, recruitment, retention, and reskilling of skilled and properly credentialled workers in order to perform resilience measures listed above.

Ineligible Activities

A subaward to an eligible entity under this grant program **MAY NOT** be used for:

- Construction of a new –
  - electric generating facility; or
  - large scale battery storage facility

- Cybersecurity

Match Requirement

Matching Funds

Per Georgia's Office of Planning and Budget (OPB): "GEFA may proceed with this (program) with the understanding that the "state match" will not be covered with state general funds, but rather can be covered by the eligible recipients."

Therefore:

- Eligible entities that are not classified as small utilities shall provide at least 115 percent in cost match of the amount of the federal award they receive.

- Eligible entities that are considered small utilities will be required to match at least 48 percent of the amount of the federal award they receive.

Additional Details on 40101(d) Cost Match Information including Types and Allowability: https://www.energy.gov/gdo/application-guidance-videos-grid-resilience-state-and-tribal-formula-grants-programs#formscostmatch

Grid Resilience Grants Timeline

GEFA Timeline

RFP/Application Open: May 2024

Eligible entities engagement and outreach: May/June 2024

- Electric Grid Operator
- Electric Storage Operator
- Electric Generator
- Transmission Owner or Operator
- Distribution Provider
- Fuel Supplier

Deadline to submit: Late June 2024

Preliminary Award Selections to DOE: July 2024

Reporting and Compliance Training: Fall 2024

Project Management Plan and Reporting Preview

Resilience Project Subaward Process

- Once GEFA has identified a project or projects and subawardee(s), the DOE Contracting Officer (CO) and Federal Project Officer (FPO) *MUST BE NOTIFIED* in writing prior to execution of any project work in accordance with the Resilience Project and Subaward/Subcontract Notification process.

- GEFA is responsible for awarding and/or modifying subaward/subcontracts but may not proceed with the resilience project and/or subaward/subcontract until DOE Officials determine, and provide the Recipient written notification, that the information provided is adequate.

- Any project work completed *WITHOUT* DOE notification is at risk of being deemed unallowable and not reimbursable.

Preview PMP and Reporting

1	**Project Management Plan and Quarterly Progress Report**	
2	**Select this Reporting Period's Federal Fiscal Year Here.**	
3	**Select Reporting Period's Quarter Here.**	
4		
5	**DOE Grant Agreement Number**	
6	**Project ID Number**	Project 1
7	**Project Organization or Subawardee**	
8	**Project Title**	
9	**Project Performance Period Start Date (mm/dd/yyyy)**	
10	**Project Performance Period End Date (mm/dd/yyyy)**	
11	**Project State/Territory**	Select State or Territory.
12	**Project Location 5-Digit Zip Code(s)** *Use commas to separate entries.*	
13	**Benefitted Community 5-Digit Zip Code(s)** *Use commas to separate entries.*	
14	**Benefitted Community Census Tract(s)** *Use commas to separate entries. Census tract numbers are 11 digits and can be found here:* https://screeningtool.geoplatform.gov	
15	**Subaward Business POC**	
16	**Subaward Business Address**	
17	**Subaward Congressional District(s)** *Reference:* https://www.census.gov/mycd/	
18	**Subaward Project Manager/Lead (name)**	
19	**Is this work being performed by a subawardee that qualifies as a Section 40101(d)(6) defined small utility?**	Select one.
20	**Number of customers (i.e., meters) served by the entity performing the project:**	

Overview | Recipient | Project 1 | Project 2 | Project 3 | Project 4 | Project 5 | Build Metrics Table Info | +

Investing in Georgia's Energy, Land, and Water Resources

Preview PMP and Reporting

22	**BIL 40101(d) Category of Subawardee:** *Review the list and delete all categories that do not match your role as a Subawardee in this project. Do not add any other categories or text unless approved by DOE.*	* Electric Grid Operator * Electricity Generator * Electricity Storage Operator * Fuel Supplier * Transmission Owner/Operator * Other (as approved by DOE)
23	**BIL 40101(d) Category of Work:** *Review the list and delete all categories of work that are not related to the work that you will do during this project. Do not add any other categories or text unless approved by DOE.*	* Adaptive Protection Technologies * Advanced Modeling Technologies * Battery-Storage Components: Use of DERs for Enhancing System Adaptive capacity During Disruptive Events * Battery-Storage Components: Use or Construction of DERs for Enhancing System Adaptive capacity During Disruptive Events * Fire-resistant Technologies and Fire Prevention Systems * Hardening of Power Lines, Facilities, Substations, or Other Systems * Microgrids: Use of existing DERs for Enhancing System Adaptive Capacity During Disruptive Events * Monitoring and Control Technologies * Reconductoring of Power Lines with Low-Sag, Advanced Conductors * Relocation of Power Lines * Replacement of Old Overhead Conductors & Underground Cables * Undergrounding of Electrical Equipment * Utility Pole Management * Vegetation and Fuel-Load Management * Weatherization Technologies and Equipment * Other (as approved by DOE and noted in Project Description below)
24		
25	**Project Description**	
26	**Project Benefit Type(s)** *Review the list and delete all categories of benefits that are not related to the benefits that will be provided by this project. Do not add any other categories or text unless approved by DOE.*	* Preventing Initial Outages * Preventing Cascading Outages * Providing Contingency Power * Reducing Restoration Time * Adding System Redundancy * Adding System Reconfiguration Capability * Supporting Islanded Operations * Replacing Aging Infrastructure * Other (noted in Benefit Description)
27	**Project Benefit Description**	

Overview | Recipient | Project 1 | Project 2 | Project 3 | Project 4 | Project 5 | Build Metrics Table Info | +

Preview PMP and Reporting

BASELINE BUDGET AND INCURRED COST							
Budget Category	**Total Approved Project Budget**		**Prior Cumulative Incurred Cost**		**Incurred Cost During Reporting Period**		**Total Cumulative Incurred Cost**
	Federal	Non-Federal	Federal	Non-Federal	Federal	Non-Federal	Federal
Personnel							$0.00
Fringe Benefits							$0.00
Travel							$0.00
Equipment							$0.00
Supplies							$0.00
Construction							$0.00
Other							$0.00
Contractual	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Name (list all other contracts $25,000 or more)							
Name (list all other contracts $25,000 or more)							
Sum of individual contracts under $25,000							
Sub-Total Direct Charges	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Indirect Charges							
Total	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**

Preview PMP and Reporting

MILESTONE TABLE				
Milestone	Milestone Title	Completion Date		Status
		Planned	Actual	
PM1.1	Project Start (e.g., Award Contract)			Select status.
PM1.2	Planning Complete			Select status.
PM1.3	Design Complete			Select status.
PM1.4	Regulatory Approval Obtained (including NEPA & Required Permits)			Select status.
PM1.5	Equipment / Materials Purchased			Select status.
PM1.6	Construction / Installation Started			Select status.
PM1.7	Construction / Installation 50% Complete (*define milestone marker here*)			Select status.
PM1.8	Construction / Installation 100% Complete			Select status.
PM1.9	Project Complete / Closed-Out			Select status.

BUILD METRICS (Information about project attributes)				
Metric (select from list)	Type *(character lim: 300)*	Goal Value	Progress	
			Value During Reporting Period	Cumulative Value for Project Duration

- Miles of new distribution lines
- Miles of distribution lines undergrounded
- Miles of distribution lines of vegetation clearing
- Miles of distribution lines reconductored
- Miles of distribution lines with other upgrades (specify in "Type" field what was upgraded)
- Number of distribution poles inspected
- Number of distribution poles replaced
- Number of distribution poles with other upgrades (specify in "Type" field what was upgraded)
- Miles of new transmission lines (specify capacity (GW-mile) in "Type" field)
- Miles of transmission lines undergrounded
- Miles of transmission lines of vegetation clearing
- Miles of transmission lines reconductored

Preview PMP and Reporting

RISK MANAGEMENT LOG				
Risk	**Likelihood** (High, Medium, Low)	**Impact** (High, Medium, Low)	**Potential Impact**	**Mitigation Strategy**
Permitting and regulatory approvals may delay implementation of project.	Select one.	Select one.		
Supply chain issues may impact availability of equipment causing project delays.	Select one.	Select one.		

Overview | Recipient | **Project 1** | Project 2 | Project 3 | Project 4 | Project 5 | Build Metrics Table Info | +

Technical Assistance

DOE has provided direct technical assistance from Oak Ridge National Laboratory to help Georgia:

- Evaluate the resilience potential of infrastructure investments
- Leverage existing systems like EAGLE-I and ODIN
- Offer capabilities that include outage data analysis, community footprint report for utilities and other reports

Energy Resources Division

energyresources@gefa.ga.gov or kcutts@gefa.ga.gov

47 Trinity Ave SW
Fifth Floor
Atlanta, GA 30334
gefa.georgia.gov