



# NEVADA GOVERNOR'S OFFICE OF ENERGY

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## The Nevada Governor's Office of Energy (GOE)

40101(d) Subaward Application

Grid Resilience Formula Grant

### **Program Summary**

The GOE announces a \$10,543,609.00 funding opportunity for the Federal Grid Resilience Grant Program. This program will fund improvements to electric grid infrastructure in the state, particularly as it relates to the ability to withstand and recover from potential disruptions. The Nevada GOE seeks electric grid infrastructure projects that can demonstrate increased reliability and resilience, build upon existing efforts, and have strong community benefits.

**Application Process begins 02/23/2024.**

**Deadline: Application must be submitted by 04/26/2024**

**Submit:** Please submit to [GOEgrants@energy.nv.gov](mailto:GOEgrants@energy.nv.gov) and include your organization name along with 40101(d) Application in your title.

**Eligible Applicants:** Eligible applicants are defined within the Notice of Funding Opportunity but generally include one of the three listed below.

- Investor Own Utilities (IOU)
- Cooperative Utilities
- Municipal Utilities

### **Match Requirements:**

1. Small utilities 48% of federal funding amount (Under 4,000,000 megawatt hours of electricity per year.)
2. All other eligible entities 115% of federal funding amount.

**I. Organization Information**

Organization Name:

Address:

City:

State:

County:

Website:

UEI:

State Vendor Number:

**II. General Project Information**

Project Title:

Funds Requested:

Proposed Match:

Total Budget (Funds + Match):

Anticipated Start Date:

Anticipated Completion Date:

Project Address:

**III. Contact Information for Project Manager**

Contact Name:

Contact Title:

Organization:

Email Address:

Phone:

**IV. Contact Information for Authorized Negotiator**

Contact Name:

Contact Title:

Organization:

Email Address:

Phone:

**V. Has the applicant received \$750,000.00 or more in federal awards during the current fiscal year?**

If yes, please list the federal awards below and provide a copy of the most recent A-133 audit.

Yes

No

Description/Abstract of the project:

**Program Narrative Part 1:** Explanation of how the proposed resilience project addresses the community and grid resilience objectives described in the GOE NOFO and how it will reduce the likelihood and consequences of disruptive grid events (i.e., events in which operations of the electric grid are disrupted, preventively shut off, or cannot operate safely due to extreme weather, wildfire, or a natural disaster).

**Program Narrative Part 2:** Provide an estimated project timeline. Please include information on project start date, bidding and/or permitting time frames, project completion, and any known or anticipated contingencies that will impact the timeline. A workplan template is available on the GOE website and can be submitted along with this application.

**A. Subawardee Eligibility:**

- i. Is an application being submitted under IJIA Section 40101(c) FOA 2740 (GRIP)?

Yes                      No

If Yes, please describe the differences between 40101(d) and 40101(c) applications:

- ii. Is the Subawardee an eligible entity type identified in IJIA section 40101(a) (2):

- (i) an electric grid operator
- (ii) an electricity storage operator
- (iii) an electricity generator
- (iv) a transmission owner or operator
- (v) a distribution provider
- (vi) a fuel supplier
- (vii) Other – Requesting Secretary approval. Explain below:

Yes                      No

- iii. Cost Matching: Does the eligible entity sell more than 4,000,000 megawatt hours of electricity per year?

- (i) Yes – 115% cost match is required:
- (ii) No – 48% cost match is required:
- (iii) Number of megawatt hours of electricity sold
- (iv) Data source:

*An acceptable data source for verifying electricity sales is [https://www.eia.gov/electricity/sales\\_revenue\\_price/xls/table10.xlsx](https://www.eia.gov/electricity/sales_revenue_price/xls/table10.xlsx)*

Additional information can be provided in the text box:

iv. Has the Subawardee been debarred or is a suspended entity?

Yes                      No

If Yes, please explain below:

v. Confirmation that the Subawardee will pay all of the laborers and mechanics performing construction, alteration, or repair work in excess of \$2,000 on projects funded directly by or assisted in whole or in part by and through funding under the award, wages at rates not less than those prevailing on projects of a character similar in the locality as determined by subchapter IV of Chapter 1 of Title 40, United State Code commonly referred to as the "Davis- Bacon Act" (DBA).

Yes                                      No

If No, please explain below:



vi. Are there any known foreign nationals participating in the proposed project? (refer to the Foreign Entity Participation of Foreign Work in the United States Guidance document on the GOE website.)

Yes                      No

If yes, please explain below:

vii. Will the Buy American (BABA) requirement be followed as defined in the Terms and Conditions of the Assistance Agreement?

Yes                      No

If no, please explain below:

viii. Are the proposed Subawardee/subcontractor and second-tier subcontractors Domestic Entities.

Yes                      No

If no, please explain

**B. Subaward/Subcontract Solicitation Process and Compliance:**

- i. Does the process undertaken to solicit the subaward/subcontract comply with the recipient's written procurement procedures as outlined in 2 CFR 200.318?

Yes                      No

- ii. Is the proposed work to be done an eligible activity identified in IIA Section 40101(e)(1), also listed below? (Check all that apply) Please see Section I.C of the ALRD.

Vegetation and fuel load management.

Replacing old overhead conductors and underground cables.

Fire-resistant technologies and fire prevention systems.

Weatherization technologies and equipment.

Monitoring and control technologies.

Undergrounding electrical equipment.

Utility pole management.

Reconductoring power lines with low-sag, advanced conductors.

Hardening power lines, facilities, substations, or other systems.

Yes                      No

If no, please explain below:

(i) Does the proposed effort include a component for the training, recruitment, retention, and reskilling of skilled and properly credentialed workers?

Yes                      No

If yes, please explain below:

iii. Is the proposed subaward effort consistent with the GOE Program objectives provided in the NOFO?

Yes                      No

iv. Does the recipient acknowledge that the primary purpose of the proposed project is not cybersecurity but that the implementation of the proposed project will adhere to any applicable cybersecurity requirements, and where possible, best practices in deploying technologies under their subaward?

Yes                      No

Provide a brief description below:

- v. Is there any planned, actual or apparent conflict of interest that exists between the Recipient and the selected subawardee/subcontractor and will the Recipient's written standards of conduct be followed?

Yes                      No

If Yes, please explain below:

- vi. Is the subawardee a Small Utility as defined by the Small Utilities Set Aside requirement set forth in Section 40101(d)(6) of IJA?

Yes                      No

If yes, explain how the eligible entity meets the definition of a Small Utility:

- vii. Will all required award provisions be flowed down in the resulting subaward/subcontract?

Yes                      No

**IV. Evaluated Criteria** (These criteria will be evaluated by the GOE review committee.)

**Community Benefit**

Topic 1: The project generates community benefits. In the text box below please:

- (1) Clearly define the impacted community and the need the project will serve within the community.
- (2) Clearly explain the specific benefits the project will create in the community.
- (3) Establish metrics to monitor community benefits and explain the rationale for the selected metrics to track community benefits.
- (4) Provide data on project impact per dollar spent.
- (5) Describe the percentage of customers the project will serve.
- (6) Describe the community support for the project or provide a plan for stakeholder engagement for the project. (Letters of support are accepted.)





Topic 2: The project creates and maintains jobs and upholds strong labor standards. In the text box below please:

- (1) Discuss the project's estimated impact on the labor market.
- (2) Recipients must demonstrate planning for the utilization of strong labor standards and protections (to include direct employees, contractors, and sub-contractors).
- (3) Provide information on jobs created or maintained through project and include temporary versus long term jobs.
- (4) Describe how the project will generate additional economic development opportunities.





Topic 3: The project serves low-income Nevada residents to alleviate energy burden. In the text box below please:

- (1) Include demographic data for the population(s) impacted by the project. Supporting data can be found through sources such as The U.S. Census American Community Survey, State Department of Health Services, The U.S. Department of Housing, EIA, LIHEAP, or any other reputable source demonstrating fulfillment of this criteria.
- (2) Explain how the project benefits low-income and energy burdened populations (Aligns with Justice 40 Initiative).
- (3) Include the project's estimated relief of energy burden.



### **Project Resiliency**

Topic 1: Provides a clear and cost-effective work plan for improving grid resilience. In the text box below please:

- (1) Provide a clear solution and work plan that alleviates risks of disruptive events. (Demonstrate a reduction in the frequency and duration of power outages)
- (2) Explain the benefits and outcomes resulting from the use or construction of distributed energy resources for enhancing system adaptive capacity during disruptive events, including microgrids, and battery storage subcomponents.
- (3) Provide information on cost-effectiveness of proposed solution as compared to no action and alternate solutions.
- (4) Provide a discussion on impact of solution per dollar spent for grid resiliency.



Topic 2: The project demonstrates a strong need for alleviating probable risk. In the text box below please:

- (1) Clearly identify the risk(s) the project will address. Analysis and projected mitigation of climate-related risks must be provided to demonstrate the clear and tangible benefits that will result from hazard mitigation and hardening.
- (2) Describe the cascading impacts of the disruptive event(s) the project will address.
- (3) Describe the financial need of the applicant.
- (4) Describe how the risk(s) are tied to major economic disturbances or life safety.
- (5) Provide the estimated monetary impact of no action.



Topic 3: The project provides clear metrics for evaluating measurable improvements to resiliency. In the text box below please:

- (1) Clearly explain the rationale for the selected metrics for ensuring measurable grid resiliency improvements. (Selected metrics should be identified in Appendix A of this form.)
- (2) Clearly explain the rationale for the selected distribution reliability indices.
- (3) Include targets for improved performance according to metrics.





### **Administrative Compliance**

Topic 1: The project adheres to administrative requirements. In the text box below please describe the Subawardee's experience and a clear plan for administrative compliance with:

- (1) The National Environmental Policy Act.
- (2) Section 106 of the National Historic Preservation Act (if applicable).
- (3) The Davis Bacon Act.
- (4) Build America Buy America.



## **Appendix A: Project Build and Resilience Impact Metrics**

Note: Check the build and resilience impact metrics that will be collected for the proposed resilience project and reported in the Quarterly Progress Report. In addition to the build and resilience impact metrics identified below, the Annual Program Metrics and Impact Report will further capture benefits that communities realize through the program. Information collected in the annual report will include communities affected by specific projects, avoided outages and reduced restoration time because of projects, community and labor engagement; workforce and community agreements, collective bargaining agreements and project labor agreements, investments in job quality and skilled workforce; diversity, equity, inclusion and accessibility; and Justice40 benefits.

**Table 1: Build Metrics**

- Miles of new distribution lines
- Miles of distribution lines undergrounded
- Miles of distribution lines of vegetation clearing
- Miles of distribution lines reconducted
- Miles of distribution lines with other upgrades
- Number of distribution poles inspected
- Number of distribution poles replaced
- Number of distribution poles with other upgrades
- Miles of new transmission lines
- Miles of transmission lines undergrounded
- Miles of transmission lines of vegetation clearing
- Miles of transmission lines reconducted
- Miles of transmission lines with other upgrades
- Number of transmission structures inspected
- Number of transmission structures replaced
- Number of transmission structures with other upgrades
- Number of substations relocated
- Number of substations with added physical protection
- Number of substations with added sensors/monitors
- Number of substations with elevated equipment
- Number of substations with upgraded equipment
- Number of substations with other upgrades
- Number of substations with redundant equipment
- Number of fault location, Isolation and service restoration (FLISR) devices installed
- Number of other monitoring/metering devices installed
- Number of other protection or control devices installed
- Power rating of battery system installed (MW)
- Energy rating of battery installed (MWh)
- Power rating of mobile back up generation unit (MW)
- Voltage rating of mobile substation (kV)
- Voltage rating of mobile transformers (kV)
- Capacity rating of hardened generation (MW) - photovoltaics
- Capacity rating of hardened generation (MW) - wind
- Capacity rating of hardened generation (MW) - diesel
- Capacity rating of hardened generation (MW) - natural gas
- Capacity rating of hardened generation (MW) - coal
- Percent increased energy storage capacity in reserve fuel - diesel
- Percent increased energy storage capacity in reserve fuel - propane
- Percent increased energy storage capacity in reserve fuel - gasoline
- Number of transportation assets purchased to assist with power restoration
- Number of communications assets purchased to assist with power restoration
- Number of other assets purchased to assist with power restoration
- Percentage of system migrated into new software system
- Percentage increase in pole inventory
- Percentage increase in transformer inventory
- Percentage increase in equipment inventory
- Other:

**Table 2: Impact Metrics**

- Largest outage cause
- Number of outages
- Hours to repair outages
- System Average Interruption Duration Index (SAIDI) Customer
- Average Interruption Duration Index (CAIDI)
- System Average Interruption Frequency Index (SAIFI)
- Number of individual customers with more than 5 interruptions
- Number of individual customer outages that extend beyond 24 hours
- Number of critical services with outages that extend beyond 24 hours
- Hours of unmet Load
- Outage Recovery Cost (\$)
- Hours line loading exceeded normal rating
- Average hours to restore 50% of customers
- Average hours to restore 90% of customers
- Average hours to restore 100% of customers
- Number of residential customers benefitted by project
- Number of commercial customers benefitted by project
- Number of industrial customers benefitted by project
- Number of customers that provide community services/emergency centers benefitted by project
- Number of customers that provide communication services benefitted by project
- Number of customers that provide energy supply benefitted by project
- Number of customers that provide transportation services benefitted by project
- Number of customers that provide water services benefitted by project
- Number of customers that provide food services benefitted by project
- Other:

**Table 3: Outage Type**

- Total
- Vegetation
- Animal
- Vehicle
- Tornado
- Thunderstorm
- Hurricane
- Derecho
- Flooding
- Wildfire
- Earthquake
- Ice/Snow Storm
- Operator Error
- Equipment Failure
- Extreme Heat
- Extreme Cold
- Other Storm
- Other: