

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

<u>Submit</u>: Please submit to <u>GOEgrants@energy.nv.gov</u> and include your organization name along with 40101(d) Application in your title.

<u>Eligible Applicants</u>: 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.

l.	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	f the project:	
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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.						

i.	Is an appli	cation being submitted under IIJA Section 40101(c) FOA 2740 (GRIP)?
	Yes	No
	If Yes, pleas	se describe the differences between 40101(d) and 40101(c)
	application	ns:
ii.	Is the Suba (2):	awardee an eligible entity type identified in IIJA section 40101(a)
	(i)	- '
	(ii	,
	ii) (iv	
	(v	
	(v	•
	(v	ii) Other – Requesting Secretary approval. Explain below:
	Yes	No
iii.		hing: Does the eligible entity sell more than 4,000,000 megawatt lectricity 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:
		cceptable data source for verifying electricity sales is https://v.eia.gov/electricity/sales_revenue_price/xls/table10.xlsx
	Addi	itional 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 performing construction, alteration, or refunded directly by or assisted in whole or award, wages at rates not less than the similar in the locality as determined by United State Code commonly referred to a	pair work in excess of \$2,000 on projects in part by and through funding under the ose prevailing on projects of a character subchapter IV of Chapter 1 of Title 40,
	Yes No	
	If No, please explain below:	

VI.	to the Fore	eign Entity Participation of Foreign Work in the United States Guidance on the GOE website.)
	Yes	No
	If yes, pleas	se explain below:
::	Marill Hara D	Associate (DADA) requirement by followed as defined in the Tana
vii.		uy American (BABA) requirement be followed as defined in the Tern tions of the Assistance Agreement?
	Yes	No
	If no nless	se explain below:
	ii iio, picus	ic explain below.
viii.	Are the p	proposed Subawardee/subcontractor and second-tier subcontracto Entities.
	Yes	No
	If no, pleas	se explain

В.	Subav i.	ard/Subcontract Solicitation Process and Compliance: 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 IIJA 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:							

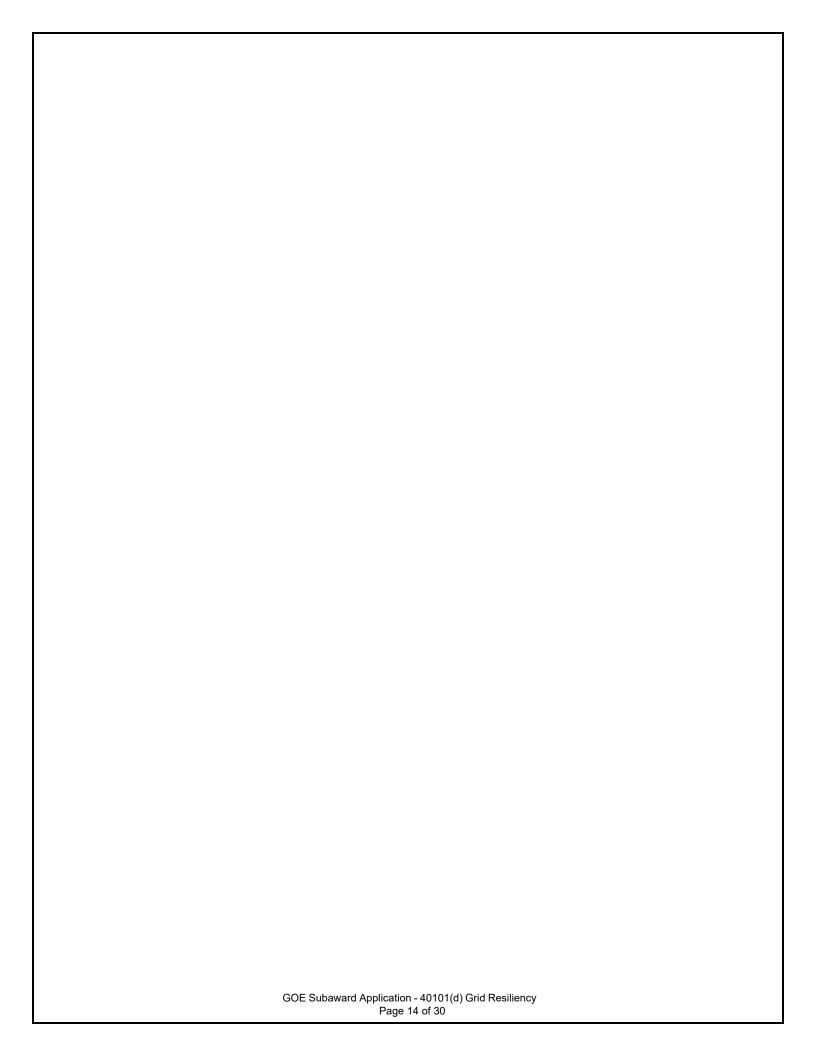
	(i)	recruitm		d effort inclintion, and received		-		_	
		Yes	No						
		If yes, pl	ease expla	ain below:					
iii.	Is the proposition			ort consiste	nt with th	e GOE Prog	gram		
	Yes	I	No						
iv.	is not cyl	persecurity any app	y but tha olicable cy	dge that the it the implo bersecurity logies under	ementation requirem	on of the nents, and	proposed	project w	/ill
	Yes	I	No						
	Provide a	brief desc	ription be	low:					

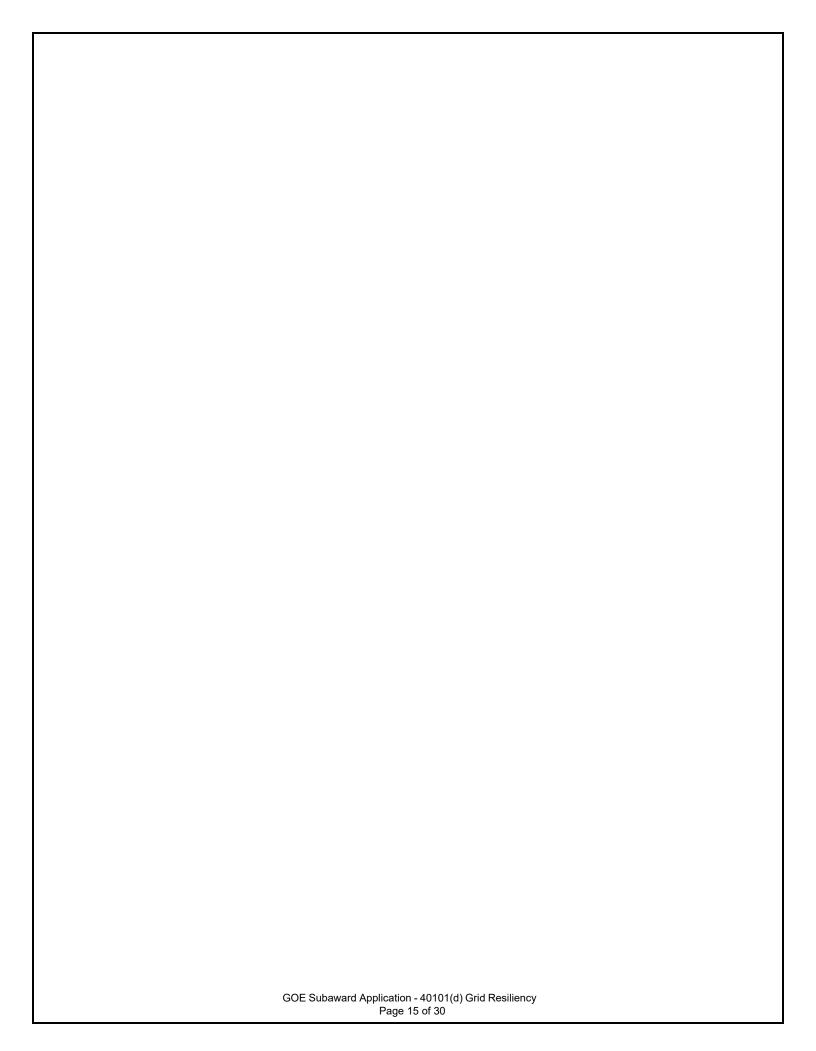
V.	Recipient and th	ned, actual or apparent conflict of interest that exists between the selected subawardee/subcontractor and will the Recipient's of conduct be followed?
	Yes	No
	If Yes, please exp	lain below:
vi.		e a Small Utility as defined by the Small Utilities Set Aside forth in Section 40101(d)(6) of IIJA?
	Yes	No
	If yes, explain ho	w the eligible entity meets the definition of a Small Utility:
vii.	Will all required a subaward/subcon	ward provisions be flowed down in the resulting tract?
	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:

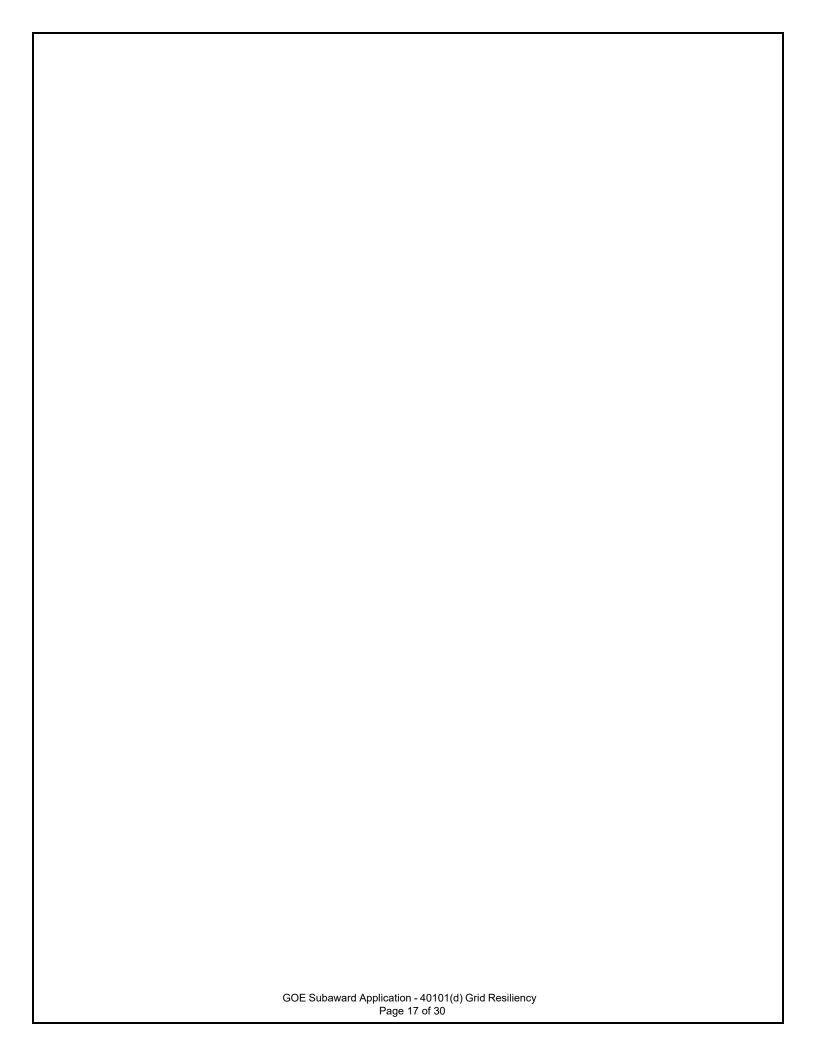
- (1) Clearly define the impacted community and the need the project will serve within the community.
- (2) Clearly explain the specific benefits the project will create in the community.
- (3) Establish metrics to monitor community benefits and explain the rationale for the selected metrics to track 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.)



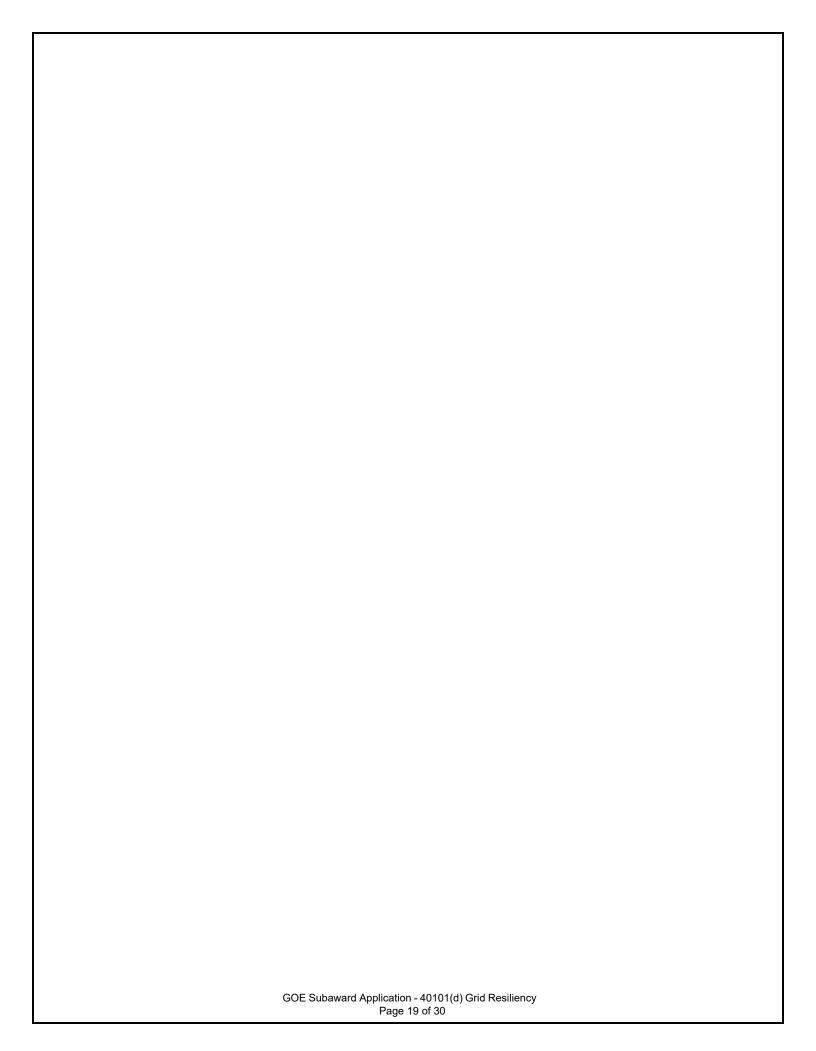


Topic 2: The project creates and maintains jobs and upholds strong labor standards. In the text box below please:

- (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.

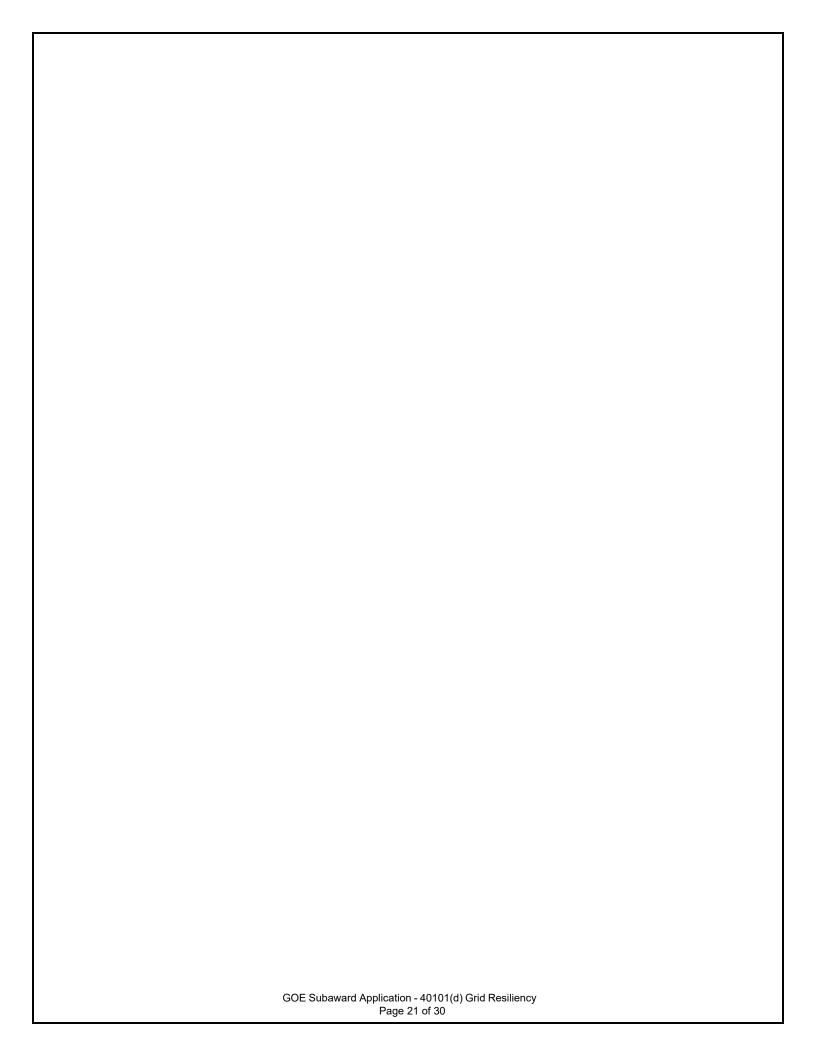


- Topic 3: The project serves low-income Nevada residents to alleviate energy burden. In the text box below please:
 - (1) Include demographic data for the population(s) impacted by the project. Supporting data can be found through sources such as The U.S. Census American Community Survey, State Department 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.

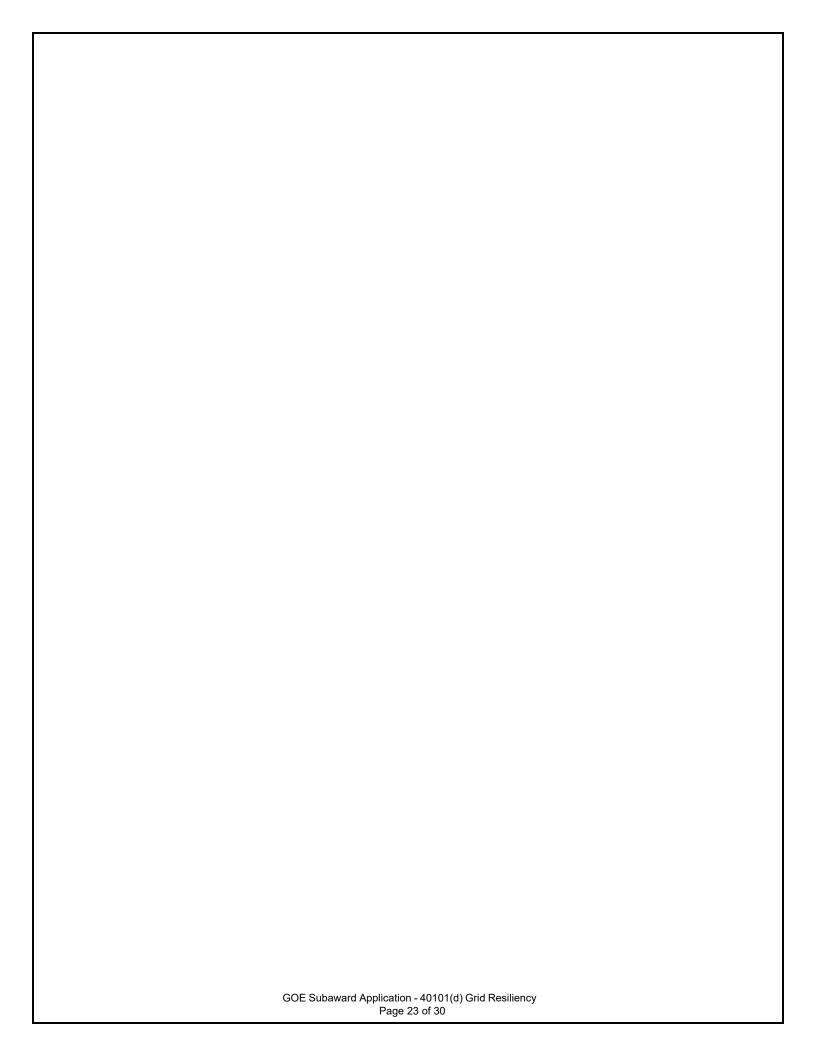


Project Resiliency

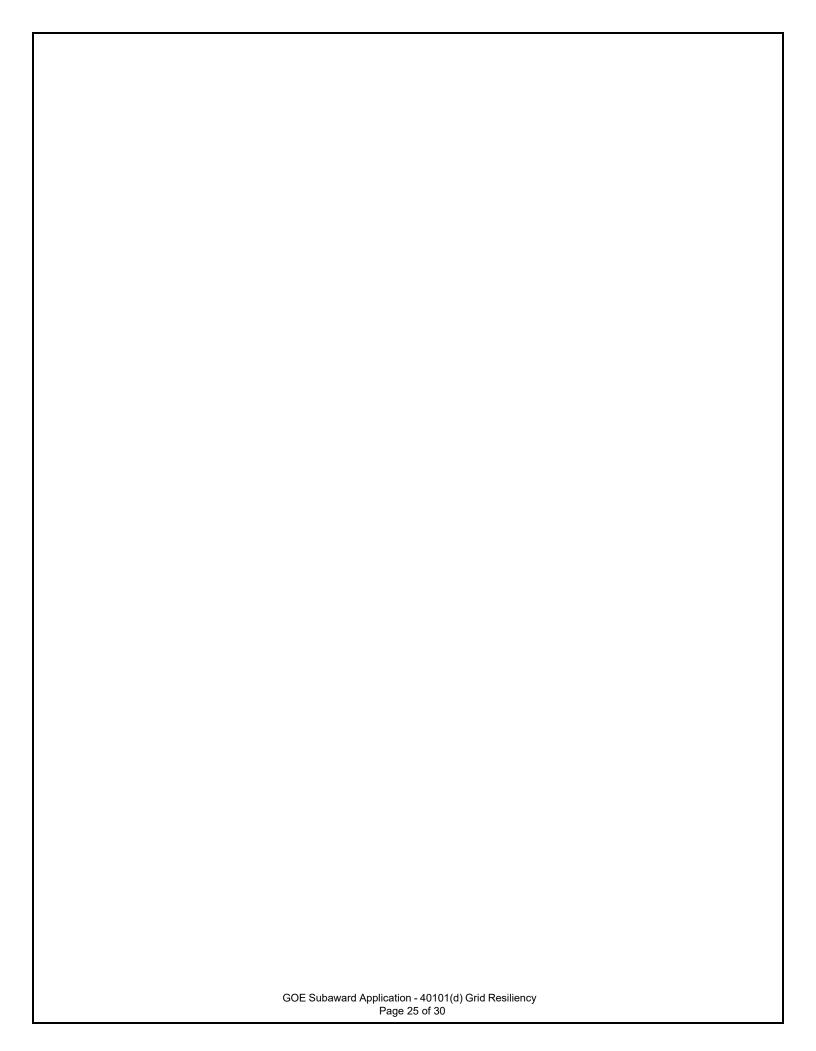
- Topic 1: Provides a clear and cost-effective work plan for improving grid resilience. In the text box below please:
 - (1) Provide a clear solution and work plan that alleviates risks of disruptive events. (Demonstrate a reduction in the frequency and duration of power outages)
 - (2) Explain the benefits 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.

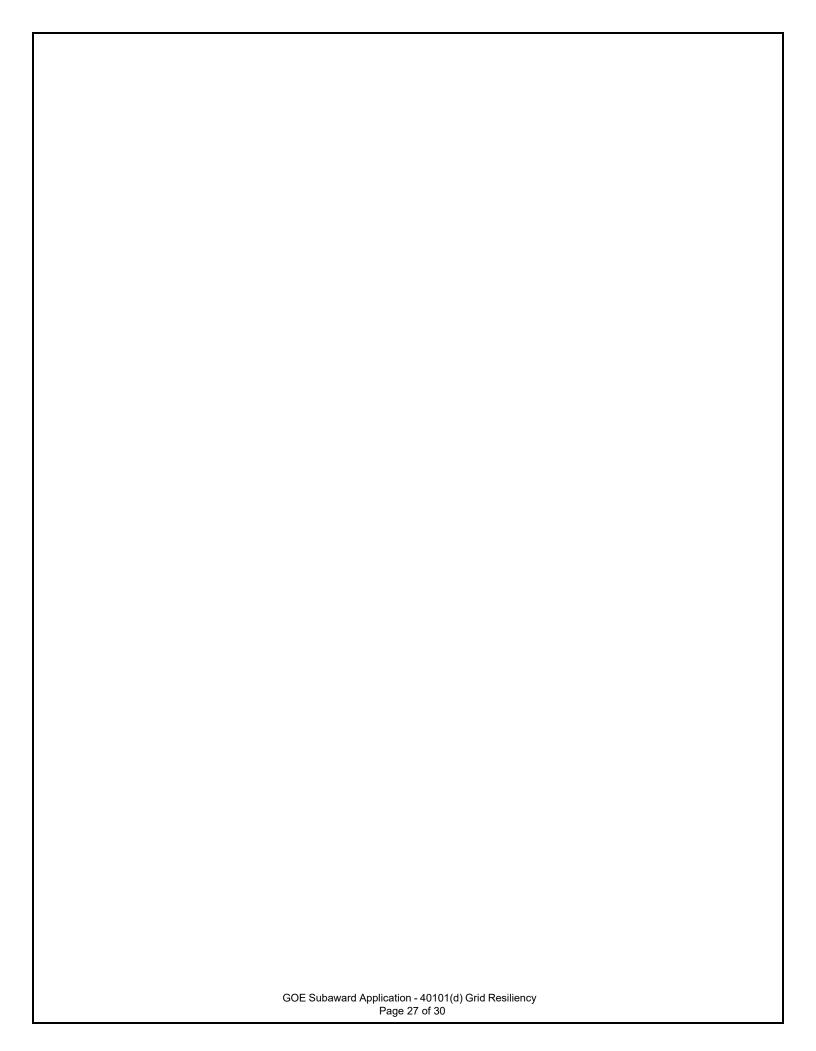


- Topic 3: The project provides clear metrics for evaluating measurable improvements to resiliency. In the text box below please:
 - (1) Clearly explain the rationale for the selected metrics for ensuring measurable grid resiliency improvements. (Selected metrics should be identified in Appendix A of 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 reconductored

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 reconductored

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: