

Summary Enhancing State Government Energy Assurance Capabilities and Planning For Smart Grid Resiliency Grant Funding Opportunity Announcement

Prepared by National Association of State Energy Officials

Issued by DOE: **June 15, 2009**
Application Deadline: **3:00 PM Eastern time, July 30, 2009**
Funding Period: **Within 3 years of award**
Grant Awards to be made: **Between September 15 and October 30, 2009**

Funding in the amount of \$39.5 million is available nationally for state to improve emergency preparedness plans and ensure grid resiliency on a regional basis, including staff training on smart grid technology integration, interdependencies, and cyber-security. [Table 1](#) shows the allocations by State.

The funds focus on developing new, or refining existing, plans to integrate new energy portfolios (renewables, biofuels, etc) and new applications, such as Smart Grid technology, into energy assurance and emergency preparedness plans. Better planning efforts will help contribute to the resiliency of the energy sector, including the electricity grid, by focusing on the entire energy supply system, which includes refining, storage, and distribution of fossil and renewable fuels.

Eligibility for award is restricted to States, Territories (Puerto Rico, US Virgin Islands, American Samoa, Guam, and Northern Mariana Islands), and the District of Columbia (hereinafter "States"). Funding is intended for the State Energy Offices. The State Energy Offices may make sub-awards to other State agencies, entities, or functions having the responsibility, as recognized within the State, for energy assurance planning.

The following activities shall be addressed when structuring projects under this funding opportunity:

- Create in-house expertise at the State level on energy assurance planning and resiliency, focusing on Smart Grid applications and vulnerabilities, critical infrastructure interdependencies, cyber security, energy supply systems, energy data analysis, and communications.
- Develop new, or refine existing, Energy Assurance Plans to incorporate response actions to new energy portfolios, including Smart Grid technologies.
- Revise appropriate State policies, procedures and practices to reflect the Energy Assurance Plans. States should append the Energy Assurance Plan to the State Energy Plan, as appropriate.
- Develop and initiate a process or mechanism for tracking the duration, response, restoration and recovery time of energy supply disruption events.
- Train appropriate personnel on energy infrastructure and supply systems and the content and execution of energy assurance plans.
- Conduct energy emergency exercises (intra and interstate) to evaluate the effectiveness of the energy assurance plans.

States cannot use the funds received through this FOA for any activities funded by Annual or ARRA State Energy Program funds, nor can the funds under those programs be used for activities under this FOA. Essentially, funds received under this announcement can not be used to supplant funds under the Energy Efficiency and Conservation Block Grant Program, the Annual State Energy Program (SEP) or the Recovery Act SEP Program.

Tasks to Be Performed -- These are the minimum required tasks; however more additional subtasks may be added by the Recipient and identified/described in the Project Management Plan.

Task 1 - Project Management Plan The Recipient will prepare a Project Management Plan that details the work elements required to manage and report on activities in accordance with the American Recovery and Reinvestment Act (ARRA) and grant requirements. This Plan will also document the 3-year plan and project budget for carrying out all Tasks and completing all Deliverables under this Grant. It is anticipated that this document may be periodically revised during the performance period, but will at all times provide sufficient detail to plan, carry out and monitor all project activities. *This task is to be completed within 60 days of the Grant Award.*

Task 2 – Workforce Development Plan - The Recipient will prepare and follow a Workforce Development Plan that results in development of in-house expertise at the State level on energy assurance planning with an emphasis on Smart Grid applications and vulnerabilities, critical infrastructure interdependencies, cyber security, energy supply systems, energy data analysis, and communications. The Plan will address hiring, retaining, and training personnel in these areas. *This task is to be completed within 90 days of the Grant Award.*

Task 3 – Energy Assurance Planning - The Recipient will develop a new, or substantially refine it's existing, Energy Assurance Plan to incorporate response actions for new energy portfolios, including Smart Grid technologies. The Energy Assurance Plan shall address, at a minimum, Smart Grid applications and vulnerabilities, critical infrastructure interdependencies, cyber security, energy supply systems, energy data analysis, and communications. Through Cooperative Agreement the National Association of State Energy Officials, and DOE, have prepared the State Energy Assurance Guidelines, which may serve as a model for State Energy Offices in developing or revising the Energy Assurance plans under this initiative. (See: www.naseo.org/eaguidelines) The recipient will revise appropriate State policies, procedures and practices to reflect the State's Energy Assurance Plan. The State will append its Energy Assurance Plan to the State Energy Plan, as appropriate. *This task is to be completed within 18 months of the Grant Award.*

Task 4 – Energy Supply Disruption Tracking Process - The Recipient will initiate a process or mechanism for tracking the duration, response, restoration and recovery time of energy supply disruption events. *This task is to be completed within 1 year of the Grant Award.*

Task 5 - Energy Assurance Exercise - The Recipient will develop a strategy to exercise its Energy Assurance Plan, simulating, through table-top exercises, energy emergency/disruptions, both within the state (including municipal and county governments as well as pertinent state agencies such as Public Utility Commissions and Emergency Management Offices) and on a multi-state or regional scale, incorporating local, state and federal agencies and industry as appropriate. The Recipient shall conduct, or participate in at least two exercises as described below

Subtask 5.1 – Conduct at least one intra-State training/exercise that includes players from State agencies, local governments, industry and Federal partners, as appropriate. The recipient shall prepare an exercise after-action report, which will result in actionable items and any necessary revisions/modifications to the Energy Assurance Plan. *This subtask is to be completed within 24 months of the Grant Award.*

Subtask 5.2 – Participate in and/or conduct at least one inter-State/Regional exercise that includes players from neighboring States, local governments, industry and Federal partners, as appropriate. The recipient shall prepare an exercise after-action report, which will result in actionable items and any necessary revision/modifications to the Energy Assurance Plan. *This task is to be completed within 30 months of the Grant Award.*

Table 1
Proposed Fund Allocation for ARRA State EA Initiative

The formula for allocating funding is comprised of a base allocation (\$11,200,000), with the balance (\$28,300,000) distributed based on population according to the 2008 U.S. Census data.

States, Territories and District of Columbia	Population (according to the 2008 U.S. Census data)	Percent of U.S. Population	Funding Based on Population	Funding Base	Total Funding
Alabama	4,661,900	1.51%	\$ 427,742	\$ 200,000	\$ 627,742
Alaska	686,293	0.22%	\$ 62,969	\$ 200,000	\$ 262,969
Arizona	6,500,180	2.11%	\$ 596,410	\$ 200,000	\$ 796,410
Arkansas	2,855,390	0.93%	\$ 261,990	\$ 200,000	\$ 461,990
California	36,756,666	11.92%	\$ 3,372,526	\$ 200,000	\$ 3,572,526
Colorado	4,939,456	1.60%	\$ 453,209	\$ 200,000	\$ 653,209
Connecticut	3,501,252	1.14%	\$ 321,250	\$ 200,000	\$ 521,250
Delaware	873,092	0.28%	\$ 80,109	\$ 200,000	\$ 280,109
District of Columbia	591,833	0.19%	\$ 54,302	\$ 200,000	\$ 254,302
Florida	18,328,340	5.94%	\$ 1,681,676	\$ 200,000	\$ 1,881,676
Georgia	9,685,744	3.14%	\$ 888,694	\$ 200,000	\$ 1,088,694
Hawaii	1,288,198	0.42%	\$ 118,196	\$ 200,000	\$ 318,196
Idaho	1,523,816	0.49%	\$ 139,814	\$ 200,000	\$ 339,814
Illinois	12,901,563	4.18%	\$ 1,183,754	\$ 200,000	\$ 1,383,754
Indiana	6,376,792	2.07%	\$ 585,088	\$ 200,000	\$ 785,088
Iowa	3,002,555	0.97%	\$ 275,493	\$ 200,000	\$ 475,493
Kansas	2,802,134	0.91%	\$ 257,104	\$ 200,000	\$ 457,104
Kentucky	4,269,245	1.38%	\$ 391,715	\$ 200,000	\$ 591,715
Louisiana	4,410,796	1.43%	\$ 404,703	\$ 200,000	\$ 604,703
Maine	1,316,456	0.43%	\$ 120,789	\$ 200,000	\$ 320,789
Maryland	5,633,597	1.83%	\$ 516,898	\$ 200,000	\$ 716,898
Massachusetts	6,497,967	2.11%	\$ 596,207	\$ 200,000	\$ 796,207
Michigan	10,003,422	3.24%	\$ 917,842	\$ 200,000	\$ 1,117,842
Minnesota	5,220,393	1.69%	\$ 478,986	\$ 200,000	\$ 678,986
Mississippi	2,938,618	0.95%	\$ 269,626	\$ 200,000	\$ 469,626
Missouri	5,911,605	1.92%	\$ 542,406	\$ 200,000	\$ 742,406
Montana	967,440	0.31%	\$ 88,765	\$ 200,000	\$ 288,765
Nebraska	1,783,432	0.58%	\$ 163,635	\$ 200,000	\$ 363,635
Nevada	2,600,167	0.84%	\$ 238,573	\$ 200,000	\$ 438,573
New Hampshire	1,315,809	0.43%	\$ 120,729	\$ 200,000	\$ 320,729
New Jersey	8,682,661	2.82%	\$ 796,658	\$ 200,000	\$ 996,658
New Mexico	1,984,356	0.64%	\$ 182,070	\$ 200,000	\$ 382,070
New York	19,490,297	6.32%	\$ 1,788,289	\$ 200,000	\$ 1,988,289
North Carolina	9,222,414	2.99%	\$ 846,182	\$ 200,000	\$ 1,046,182
North Dakota	641,481	0.21%	\$ 58,858	\$ 200,000	\$ 258,858
Ohio	11,485,910	3.72%	\$ 1,053,864	\$ 200,000	\$ 1,253,864
Oklahoma	3,642,361	1.18%	\$ 334,197	\$ 200,000	\$ 534,197
Oregon	3,790,060	1.23%	\$ 347,749	\$ 200,000	\$ 547,749
Pennsylvania	12,448,279	4.04%	\$ 1,142,164	\$ 200,000	\$ 1,342,164

Rhode Island	1,050,788	0.34%	\$ 96,413	\$ 200,000	\$ 296,413
South Carolina	4,479,800	1.45%	\$ 411,034	\$ 200,000	\$ 611,034
South Dakota	804,194	0.26%	\$ 73,787	\$ 200,000	\$ 273,787
Tennessee	6,214,888	2.01%	\$ 570,233	\$ 200,000	\$ 770,233
Texas	24,326,974	7.89%	\$ 2,232,068	\$ 200,000	\$ 2,432,068
Utah	2,736,424	0.89%	\$ 251,075	\$ 200,000	\$ 451,075
Vermont	621,270	0.20%	\$ 57,003	\$ 200,000	\$ 257,003
Virginia	7,769,089	2.52%	\$ 712,836	\$ 200,000	\$ 912,836
Washington	6,549,224	2.12%	\$ 600,910	\$ 200,000	\$ 800,910
West Virginia	1,814,468	0.59%	\$ 166,482	\$ 200,000	\$ 366,482
Wisconsin	5,627,967	1.82%	\$ 516,382	\$ 200,000	\$ 716,382
Wyoming	532,668	0.17%	\$ 48,874	\$ 200,000	\$ 248,874
Territories					
Puerto Rico	3,954,037	1.28%	\$ 362,794	\$ 200,000	\$ 562,794
American Samoa	57,291	0.02%	\$ 5,257	\$ 200,000	\$ 205,257
Guam	173,456	0.06%	\$ 15,915	\$ 200,000	\$ 215,915
Northern Mariana Islands	84,546	0.03%	\$ 7,757	\$ 200,000	\$ 207,757
U.S. Virgin Islands	108,448	0.04%	\$ 9,950	\$ 200,000	\$ 209,950
Total	308,437,502	100.00%	\$ 28,300,000	\$ 11,200,000	\$ 39,500,000

U.S. Census data: (<http://www.census.gov/popest/states/tables/NST-EST2008-01.xls>)

For a copy of the full Funding Opportunity Announcement on Enhancing State Government Energy Assurance Capabilities and Planning for Smart Grid Resiliency Grant go to: https://www.fedconnect.net/Fedconnect/PublicPages/PublicSearch/Public_Opportunities.aspx Search on the drop down for the reference number and insert DE-FOA-0000091.

QUESTIONS

Questions regarding the content of the announcement must be submitted through the FedConnect portal. You must register with FedConnect to respond as an interested party to submit questions, and to view responses to questions. It is recommended that you register as soon after release of the FOA as possible to have the benefit of all responses. More information is available at <http://www.compusearch.com/products/fedconnect/fedconnect.asp>.

DOE will try to respond to a question within 3 business days, unless a similar question and answer have already been posted on the website. DOE/NNSA will not respond to questions received within 5 days of the FOA closing date. For this FOA, no response will be provided for questions received after July 26, 2009.