STATE OF DELAWARE
SINGLE POINT OF CONTACT – SPOC
INTERGOVERNMENTAL REVIEW OF FEDERAL PROGRAMS
Office of Management and Budget
Haslet Building, 3rd Floor, Dover, Delaware 19901
(302) 739-4206

RECEIVED
OFFICE OF MGMT AND BUDGET
2009 JUL 20 PM 3:27

1. STATE APPLICATION IDENTIFIER:	SPOC use ONLY	Month	Reviewer	CC's
S9071703			CN	

2. Applicant Project Title: **Enhancing Delaware's Energy Assurance/Emergency Capabilities and Planning for Smart Grid Resiliency**

3. Applicant Department: **Department. of Natural Resources & Environmental Control**

4. Applicant Division/APU: **Delaware Energy Office**

5. Applicant Address: **1203 College Park Drive, Suite 101, Dover, DE 19904**

6. Contact Person: **Charlie T. Smisson, Jr.**

7. Contact Person's Phone Number: **(302) 735-3480**

8. Signature of Secretary or Agency Head (for state agencies) or Chief Administrator (for all other applicants)

7/20/2009

9. Federal Grantor Department: **U.S. Department of Energy**

10. Federal Sub-Agency: **NETL**

11. Federal Contact Person: **Kellyn Cassell**

12. Phone Number: **304-285-4554**

13. Address: **Kellyn.Cassell@netl.doe.gov**

14. Federal Program Title:

Recovery Act- Enhancing State Government Energy Assurance Capabilities and Planning for Smart Grid Resiliency

15. FEDERAL CATALOG NO: (CFDA)

81 122 N

16. Project Description:

Since the goal of the American Recovery and Reinvestment Act of 2009 (ARRA), in part, is to: "facilitate recovery from disruptions to the energy supply" and "enhanced reliability and quicker repair of outages," this initiative will create jobs at the State level and allow States to have well-developed, standardized energy assurance and resiliency plans that they can rely on during energy emergencies and supply disruptions. State governments will address energy supply disruption risks and vulnerabilities in their plans to lessen the devastating impact that such incidents have on the economy and the health and safety of citizens.

17. Will funds be utilized for any technology initiatives? ☐ Yes ☒ No If so, Business Case Number and brief project summary:

18. Measurable Objectives:

a. What were last year's objectives?

N/A – New Grant

b. Were these objectives met? (If not, please explain why)

N/A

c. What are this year's objectives?

Create in-house expertise at the State level on energy assurance/emergency planning and resiliency, focusing on smart grid applications and vulnerabilities, critical infrastructure interdependencies, cyber security, energy supply systems & communications.

(If more space is needed, please attach a separate sheet of paper)

7/20/09

19. Grant Period:	20. How many years has this project been funded:	21. If the project was funded last year, how much federal money was awarded?
From: 10/01/09 To: 09/30/12	0 years	$ 0

22. Source of funding for this application:	Dollars	Budget Code
a. Federal grant	$280,109	
b. Other federal funds (Specify)		
c. Required state contribution		
d. Discretionary state contribution		
e. Required local contribution		
f. Other non- federal funds (Specify)		
TOTAL	$280,109	

23. Budget by cost category and source::	Federal Funds	State Funds	Other Funds	Total Funds
Salaries & Fringe Benefits				
Personal or Contractual Services	$279,269			$279,269
Travel				
Supplies & Materials				
Capital Expenditures				
Audit Fees	$ 840			$ 840
Indirect Costs:				
Other				
TOTAL	$280,109			$280,109

24. How many positions are required for the project?

Breakdown of position(s)	Authorized in State Budget	New Positions Required	Total
Paid for out of federal funds	0	0	0
Paid for out of General Funds	0	0	0
Paid for out of state special funds	0	0	0
Paid for out of bond/local/other funds			
TOTAL	0	0	0

25. PLEASE NOTE: On a separate piece of paper, please give position number, grade, yearly salary and percent of funding (federal, state, local, other) and the full-time equivalent for all positions required. Please identify the new positions by placing an asterisk before the position title. If this grant funds positions within other departments, divisions and/or offices, please list them.

SPOC ITEM # 25

Position Title	Position Number	Pay Grade	Yearly Salary	Federal FTE	State FTE

GRANTS.GOV

Grant Application Package

Opportunity Title:	Recovery Act - Enhancing State Government Energy Assura
Offering Agency:	National Energy Technology Laboratory
CFDA Number:	81.122
CFDA Description:	Electricity Delivery and Energy Reliability, Research,
Opportunity Number:	DE-FOA-0000091
Competition ID:	
Opportunity Open Date:	06/15/2009
Opportunity Close Date:	07/30/2009
Agency Contact:	Kellyn.Cassell Contract Specialist E-mail: Kellyn.Cassell@netl.doe.gov Phone: 304-285-4554

[redacted]

This opportunity is only open to organizations, applicants who are submitting grant applications on behalf of a company, state, local or tribal government, academia, or other type of organization.

*** Application Filing Name:** Delaware Energy Assurance Application

Mandatory Documents		Mandatory Documents for Submission
Other Attachments Form	Move Form to Complete	Application for Federal Assistance (SF-424)
	Move Form to Delete	[redacted]

Optional Documents		Optional Documents for Submission
Disclosure of Lobbying Activities (SF-LLL)	Move Form to Submission List	
	Move Form to Delete	

[redacted]

Enter a name for the application in the Application Filing Name field.

- This application can be completed in its entirety offline; however, you will need to login to the Grants.gov website during the submission process.
- You can save your application at any time by clicking the "Save" button at the top of your screen.
- The "Save & Submit" button will not be functional until all required data fields in the application are completed and you clicked on the "Check Package for Errors" button and confirmed all data required data fields are completed.

Open and complete all of the documents listed in the "Mandatory Documents" box. Complete the SF-424 form first.

- It is recommended that the SF-424 form be the first form completed for the application package. Data entered on the SF-424 will populate data fields in other mandatory and optional forms and the user cannot enter data in these fields.

- The forms listed in the "Mandatory Documents" box and "Optional Documents" may be predefined forms, such as SF-424, forms where a document needs to be attached, such as the Project Narrative or a combination of both. "Mandatory Documents" are required for this application. "Optional Documents" can be used to provide additional support for this application or may be required for specific types of grant activity. Reference the application package instructions for more information regarding "Optional Documents".

- To open and complete a form, simply click on the form's name to select the item and then click on the => button. This will move the document to the appropriate "Documents for Submission" box and the form will be automatically added to your application package. To view the form, scroll down the screen or select the form name and click on the "Open Form" button to begin completing the required data fields. To remove a form/document from the "Documents for Submission" box, click the document name to select it, and then click the <= button. This will return the form/document to the "Mandatory Documents" or "Optional Documents" box.

- All documents listed in the "Mandatory Documents" box must be moved to the "Mandatory Documents for Submission" box. When you open a required form, the fields which must be completed are highlighted in yellow with a red border. Optional fields and completed fields are displayed in white. If you enter invalid or incomplete information in a field, you will receive an error message.

Click the "Save & Submit" button to submit your application to Grants.gov.

- Once you have properly completed all required documents and attached any required or optional documentation, save the completed application by clicking on the "Save" button.
- Click on the "Check Package for Errors" button to ensure that you have completed all required data fields. Correct any errors or if none are found, save the application package.
- The "Save & Submit" button will become active; click on the "Save & Submit" button to begin the application submission process.
- You will be taken to the applicant login page to enter your Grants.gov username and password. Follow all onscreen instructions for submission.

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:
- [ ] Preapplication
- [x] Application
- [ ] Changed/Corrected Application

* 2. Type of Application:
- [x] New
- [ ] Continuation
- [ ] Revision

* If Revision, select appropriate letter(s):

* Other (Specify)

* 3. Date Received: Completed by Grants.gov upon submission.

4. Applicant Identifier:

5a. Federal Entity Identifier:

* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State: 07/23/2009

7. State Application Identifier: S 9 07 13 03

8. APPLICANT INFORMATION:

* a. Legal Name: Delaware Energy Office

* b. Employer/Taxpayer Identification Number (EIN/TIN): 51-6000279

* c. Organizational DUNS: 809855091

d. Address:

* Street1: 1203 College Park Drive
Street2: Suite 101
* City: Dover
County: Kent
* State: DE: Delaware
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 19904

e. Organizational Unit:

Department Name: Nat. Resources & Env. Control

Division Name: Office of Secretary

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Mr.
* First Name: Charlie
Middle Name: Thomas
* Last Name: Smisson
Suffix: Jr.

Title: State Energy Coordinator

Organizational Affiliation: Delaware Energy Office

* Telephone Number: 302-735-3480
Fax Number: 302-739-1840

* Email: charlie.smisson@state.de.us

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

National Energy Technology Laboratory

11. Catalog of Federal Domestic Assistance Number:

81.122

CFDA Title:

Electricity Delivery and Energy Reliability, Research, Development and Analysis

*** 12. Funding Opportunity Number:**

DE-FOA-0000091

* Title:

Recovery Act - Enhancing State Government Energy Assurance Capabilities and Planning for Smart Grid Resiliency

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Delaware at Large

*** 15. Descriptive Title of Applicant's Project:**

Updating Delaware's Energy Assurance/Energy Emergency Response Capabilities and Planning for Smart Grid Resiliency including the use of renewables, biofuels, and smart grid technologies

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant: DE All
* b. Program/Project: DE All

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date: 10/01/2009
* b. End Date: 09/30/2012

18. Estimated Funding ($):

* a. Federal	280,109.00
* b. Applicant	0.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	280,109.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- [x] a. This application was made available to the State under the Executive Order 12372 Process for review on 07/23/2009.
- [ ] b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- [ ] c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

- [ ] Yes
- [x] No

Explanation

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

- [x] ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: Mr.
* First Name: Robert
Middle Name: J.
* Last Name: Zimmerman
Suffix:

* Title: Chief Operating Officer

* Telephone Number: 302-739-9000
Fax Number: 302-739-6242

* Email: Robert.Zimmerman@state.de.us

* Signature of Authorized Representative: Completed by Grants.gov upon submission.
* Date Signed: Completed by Grants.gov upon submission.

OMB Number: 4040-0010
Expiration Date: 08/31/2011

Project/Performance Site Location(s)

Project/Performance Site Primary Location

☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name: Delaware Energy Office

DUNS Number: 8098550910000

* Street1: 1203 College Park Drive

Street2: Suite 101

* City: Dover

County: Kent

* State: DE: Delaware

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code: 19904-8703

* Project/ Performance Site Congressional District: DE All

Project/Performance Site Location 1

☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

* Street1:

Street2:

* City:

County:

* State:

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code:

* Project/ Performance Site Congressional District:

U.S Department of Energy National Energy Technology Laboratory
Recovery Act – Enhancing State Government Energy Assurance Capabilities and Planning for Smart Grid Resiliency

Funding Opportunity Number: DE-FOA-0000091
Grant Amount = $280,109

The State of Delaware Energy Emergency Response Plan (SEERP) states that responsibilities for energy emergencies are delegated to the Delaware Emergency Management Agency (DEMA) in the Department of Safety and Homeland Security (DSHS) and the Delaware Energy Office (DEO) in the Department of Natural Resources and Environmental Control (DNREC). Federal authority for preparing the Delaware Energy Emergency response plan is based on the **U.S. Public Law 94-163, Section 362, of 1975.** In the event of an energy emergency the DEO in coordination with DEMA will direct the energy emergency contingency operations in the state at the direct order of the governor. DEO and DEMA may be assisted by other appropriate governmental agencies. DEO intends to add the Delaware Public Service Commission (PSC) as a partner in management of emergency energy issues under this grant. The assembly of the DEO, DEMA, and PSC as the responding agencies to energy emergency contingency plans and information dissemination operations is appropriate.

The **Delaware Energy Office** is the central repository and clearinghouse for collection and dissemination of data and information on energy resources and energy matters in the State, including but not limited to data on energy supply, demand, costs, projections and forecasts, and Inventory data on energy research and development projects, studies, or other programs conducted in the State under public or private supervision or sponsorship.

The **Delaware Emergency Management Agency (DEMA)** is the lead state agency for coordination of comprehensive emergency preparedness, training, response, recovery and mitigation services in order to save lives, protect Delaware's economic base and reduce the impact of emergencies. DEMA is a division within the Department of Safety and Homeland Security.

The **Delaware Public Service Commission (PSC) in the Department of State (DOS)** works to ensure safe, reliable and reasonably priced cable, electric, natural gas, wastewater, water and telecommunications services for Delaware consumers. The PSC has extensive contacts and knowledge of energy infrastructure in the state.

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.

The DEO will train staff in cooperation with DEMA and the PSC to be prepared for emergency responses. Part of the in-house expertise will include designating principal and assistant staff that can be the available in the event of an emergency and are trained to relieve staff as needed. The DEO also intends to sub grant dollars to both the PSC and DEMA for the training of their personal and for exercise purposes. DEMA and the PSC have participated in the past with energy emergency training excises and further funding to train them is essential.

The DEO in cooperation with the PSC will work with local electric, natural gas, and liquid fuels suppliers to understand Smart Grid applications and the current vulnerabilities of distribution systems.

Develop new, or refine existing, Energy Assurance Plans to incorporate response actions to new energy portfolios, including Smart Grid technologies.

In January 2008, the DEO adopted a revised SEERP as its operations manual for energy emergencies. During that same time DEMA also recognized SEERP as the energy response plan for the state. Through this grant opportunity the DEO will incorporate response plans for new energy portfolios including Smart Grid Technologies.

The current emergency plan focuses mostly on the monitoring and reestablishment of conventional energy sources in the event of an emergency. As the State of Louisiana learned, counting on traditional sources of energy to recoup quickly in the aftermath of a natural disaster will lead to shortages and greater human suffering. Preparations must be made to tap alternative energy and alternative methods to use these energy sources. The revised SEERP will adopt additional strategies which will incorporate elements of renewable energy and alternative fuels into the response plan.

Renewable energy in the form of photovoltaic, solar water heating, wind turbine technologies can support emergency actions when traditional energy sources are unavailable. This grant will help create a coordinated plan to recommend the installation of renewable energy systems at strategic locations. In the event of an emergency these technologies can serve in a distributed energy capacity.

The use of alternative fuels and vehicles must also be developed. In the event that traditional fuels for transportation and heating are limited or otherwise unavailable, alternatives must be ready to supplement. Emergency responders must have documented alternative fueling sites and capable vehicles to supplant conventional transportation methods. Also relief shelters must have the ability to shift from traditional fuels to alternatives if supplies are limited. The public must also know where these secondary fuel options can be obtained.

The Delaware Energy Office and PSC will work with local electric and natural gas utilities to incorporate the Smart Grid technologies in emergency plans. The ability to track grid energy supply and distribution will help determine outage locations and facilitate the dissemination of that information to public through radio and newspapers.

The DEO intends to hire a consultant to manage the revision effort of the SEERP and the incorporation of new energy portfolios into the SEERP.

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.

The DEO working in concert with DEMA and the PSC will establish its policies, procedures and practices in the format of the National Incident Management System (NIMS) as recommended by DEMA. According to the NIMS and the Incident Command System (ICS) Position Paper "NIMS provides a consistent, flexible and adjustable national framework within which government and private entities at all levels can work together to manage domestic incidents, regardless of their cause, size, location or complexity.

The NIMS provides a set of standardized organizational structures – including the ICS, Multi-Agency Coordination Systems and public information systems – as well as requirements for processes, procedures and systems to improve interoperability among jurisdictions and disciplines in various areas.

One of the most important 'best practices' that has been incorporated into the NIMS is the Incident Command System (ICS), a standard, on-scene, all-hazards incident management system already in use by firefighters, hazardous materials teams, rescuers and emergency medical teams. The ICS has been established by the NIMS as the standardized incident organizational structure for the management of all incidents."

This format will provide the State of Delaware a uniform plan to implement emergency procedures. It will also enable the State Energy Emergency Response plan to be consistent with other state and regional action plans.

Develop and initiate a process or mechanism for tracking the duration, response, restoration and recovery time of energy supply disruption events.

The State of Delaware Energy Emergency Response Plan has stated that monitoring of energy supplies is critical in any emergency. The current response plan states several tools to monitor the supply of the following energy sources: motor fuel, electricity, natural gas, propane, heating oil, and aviation fuel. Many of these monitoring devices either require verification from commercial businesses or are only available in monthly reports. The DEO will create a data acquisition process to receive data in a timelier manner. It is also essential that the tracking of new energy portfolios also be incorporated in this system. It is common in emergencies not have the established methods of information gathering available. During these times the most recently obtained information is the starting point. The DEO will work with the energy suppliers to establish a better information gathering protocol.

Train appropriate personnel on energy infrastructure and supply systems and the content and execution of energy assurance plans.

According to the NIMS and ICS Position Paper, "one of the first steps for becoming compliant with the NIMS requires states and local governments to institutionalize the use of ICS (as taught by Homeland Security) across the entire response system. This means that ICS training must be consistent with the concepts, principles and characteristics of the ICS training offered by the various DHS training entities."

DEO personal will receive NIMS and ICS training provided through DEMA. Also as stated before the DEO will supply sub grants to DEMA and the PSC to undertake training.

Conduct energy emergency exercises (intra and interstate) to evaluate the effectiveness of the energy assurance plans.

DEO personal will participate in DEMA sponsored training exercises and when available will participate in interstate energy assurance plans. A major State energy assurance exercise will also be funded through this grant. Regional participation in such an exercise will be encouraged.

DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

Certification of Consistency with the Delaware Coastal Management Program
Request for Federal Grant-In-Aid

State Clearing House # S9 07 17 03

Project Title: Enhancing DE Energy Assurance Energy Capabilities Smart Grid

I hereby certify that the above application for federal aid is consistent with the goals and policies of the Delaware Coastal Management Program as approved and amended by the Office of Coastal Zone Management in September, 1979.

Sarah W. Cooksey
Administrator

7-20-09
Date