

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

1. STATE APPLICATION IDENTIFIER:

S9-03-18-03

SPOC use ONLY

Month

Reviewer

CC's

2. Applicant Project Title: **State Energy Program (SEP) – American Recovery and Reinvestment Act (ARRA)**

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)

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

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

11. Federal Contact Person: **Sheldon Funk**

12. Phone Number: **304-285-0204**

13. Address: **sheldon.funk@netl.doe.gov**

14. Federal Program Title:
State Energy Program

15. FEDERAL CATALOG NO:
(CFDA)
81 . 041

16. Project Description:

The American Recovery and Reinvestment Act of 2009, Public Law 111-5, appropriates funding for the Department of Energy (DOE) to issue/award formula-based grants under the State Energy Program. The American Recovery and Reinvestment Act (ARRA) was enacted to preserve and create jobs and promote economic recovery; to assist those most impacted by the recession; to provide investments needed to increase economic efficiency by spurring technological advances in science and health; to invest in transportation, environmental protection, and other infrastructure that will provide long-term economic benefits; and, to stabilize State and local government budgets, in order to minimize and avoid reductions in essential services and counterproductive state and local tax increases.

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?

The objective of the State Energy Program is an improvement of 25% or more in the efficiency of the use of energy by the Fiscal year 2013, as compared to Fiscal year 1990.

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

USDOE released new standards during FY 06 relating to energy efficiency goals and objectives for the State Energy Program. A longer-range approach will now be used comparing a baseline year of 1990 with subsequent program years. The intent is to improve energy efficiency in the State by 25% in FY 12.

c. What are this year's objectives?

20 to 25% energy consumption decrease for all projects using ARRA Funding.

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

19. Grant Period: From: 04/30/09 To: 04/30/12	20. How many years has this project been funded: 0 years	21. If the project was funded last year, how much federal money was awarded? \$ 0
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22. Source of funding for this application:	Dollars	Budget Code
a. Federal grant	\$24,231,000	
b. Other federal funds (Specify)		
c. Required state contribution		
d. Discretionary state contribution		
e. Required local contribution		
f. Other non- federal funds (Specify)		
TOTAL	\$24,231,000	

23. Budget by cost category and source::	Federal Funds	State Funds	Other Funds	Total Funds
Salaries & Fringe Benefits	\$673,607			\$673,607
Personal or Contractual Services	\$23,330,000			\$23,330,000
Travel	\$15,000			\$15,000
Supplies & Materials	\$34,755			\$34,755
Capital Expenditures				
Audit Fees	\$72,693			\$72,693
Indirect Costs:	\$66,145			\$66,145
Other	\$38,800			\$111,493
TOTAL	\$24,231,000			\$24,231,000

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	5.0	.5	5.5
Paid for out of General Funds	0	0	0
Paid for out of state special funds	0	1.5	1.5
Paid for out of bond/local/other funds			
TOTAL	5.0	2.0	7.0

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

<u>Position Title</u>	<u>Position Number</u>	<u>Pay Grade</u>	<u>Yearly Salary</u>	<u>Federal FTE</u>	<u>State FTE</u>
State Energy Coordinator	997	17	\$55,790	.75	0
Energy Program Planner III	999	15	\$42,801	.75	0
Energy Program Planner II	89532	13	\$40,809	.75	0

The above three positions will be funded with ARRA SEP for 75% of salaries, fringes, and health care – the remaining 25% will be funded from the regular SEP formula grant under a separate application due on May 15. See Budget Justification Form in grant application package for details.

Energy Program Planner IV	8102	17	\$49,005	.25	.75
Administrative Specialist II	105405	8	\$28,522	.25	.75
Assistant Director Financial Management*	TBD	22	\$68,732	.25	.75
Senior Accountant*	TBD	11	\$32,652	.25	.75

The above four positions will be funded with ARRA SEP for 25% of salaries, fringes, and health care – the remaining 75% will be funded with 25% from the EECBG grant application (NSF) due to US DOE on June 25 and 50% from existing RGGI (ASF) funds.

Opportunity Title:	Recovery Act - State Energy Program
Offering Agency:	National Energy Technology Laboratory
CFDA Number:	81.041
CFDA Description:	State Energy Program
Opportunity Number:	DE-FOA-0000052
Competition ID:	
Opportunity Open Date:	03/12/2009
Opportunity Close Date:	05/12/2009
Agency Contact:	Sheldon Funk Contract Specialist E-mail: sheldon.funk@net1.doe.gov Phone: 304-285-0204

This electronic grants application is intended to be used to apply for the specific Federal funding opportunity referenced here.

If the Federal funding opportunity listed is not the opportunity for which you want to apply, close this application package by clicking on the "Cancel" button at the top of this screen. You will then need to locate the correct Federal funding opportunity, download its application and then apply.

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 SEP ARRA

Mandatory Documents

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Move Form to Complete

Move Form to Delete

Mandatory Documents for Submission

Application for Federal Assistance (SF-424)
Project/Performance Site Location(s)
Other Attachments Form

Optional Documents

Disclosure of Lobbying Activities (SF-LLL)

Move Form to Submission List

Move Form to Delete

Optional Documents for Submission

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Instructions

- 1 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.
- 2 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.
- 3 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.

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application	* 2. Type of Application: <input type="checkbox"/> New <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Revision	* If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify) <input type="text"/>
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* 3. Date Received: <input type="text"/> Completed by Grants.gov upon submission.	4. Applicant Identifier: <input type="text"/>
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5a. Federal Entity Identifier: <input type="text"/>	* 5b. Federal Award Identifier: <input type="text"/> DE-EE0000342
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State Use Only:

6. Date Received by State: <input type="text"/>	7. State Application Identifier: <input type="text"/>
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8. APPLICANT INFORMATION:

* a. Legal Name: Delaware Energy Office

* b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text"/> 51-6000279	* c. Organizational DUNS: <input type="text"/> 809855091
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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: <input type="text"/> Nat. Resources & Env. Control	Division Name: <input type="text"/> Office of Secretary
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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: <input type="text"/> 302-735-3480	Fax Number: <input type="text"/> 302-739-1840
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* Email: Charlie.Smisson@state.de.us

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:

81.041

CFDA Title:

State Energy Program

*** 12. Funding Opportunity Number:**

DE-FOA-0000052

* Title:

Recovery Act - State Energy Program

13. Competition Identification Number:

Title:

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

Delaware at Large

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

ARRA SEP Funding for Delaware Sustainable Energy Utility Energy Efficiency and Renewable Energy Programs

Attach supporting documents as specified in agency instructions.

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

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

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="24,231,000.00"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="24,231,000.00"/>

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

- a. This application was made available to the State under the Executive Order 12372 Process for review on .
- 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 No

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)**

** 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: * First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

Other Attachment File(s)

* Mandatory Other Attachment Filename:

To add more "Other Attachment" attachments, please use the attachment buttons below.

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:

DUNS Number:

* Street1:

Street2:

* City: County:

* State:

Province:

* Country:

* ZIP / Postal Code: * Project/ Performance Site Congressional District:

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:

* ZIP / Postal Code: * Project/ Performance Site Congressional District:

State Of Delaware

ARRA Spending Proposal for SEP Program

Introduction

Delaware proposes to use the ARRA SEP money for four planned project activities consistent with the Funding Opportunity Announcement issued on March 12, 2009 and specifically with priority uses shown in Section 5.3 of that guidance. Exact allocation of dollars and expected job and efficiency benefits will be developed for the Comprehensive Application due to DOE by May 12, 2009. The four activities proposed for funding include home energy efficiency, business, commercial and manufacturing energy efficiency, statewide renewable energy funding, and energy efficiency in state facilities. These programmatic areas were previously approved by the Clearinghouse Committee and align with the direction set forth by the Governor in his Joint Address to the General Assembly on April 28, 2009.

To determine the appropriate funding level, staff evaluated each programmatic area against the following objectives/measures to ensure that the funding allocations align with the Governor's vision and priorities, while producing measureable results. Objectives included:

- Allow as many Delaware residents and businesses to reduce energy operating expenses
Goal: Annually upgrade ~6,500-15,000 houses & 500-1,000 businesses through SEP and ~5-10,000 households through weatherization program (~\$15-20M annual savings)
- Create jobs and economic opportunities for Delaware residents
Goal: \$24M of investment creates ~600 jobs
- Reduce greenhouse gas emissions
Goal: Reduce GHG to 1990 levels by 2020 & 80% below 1990 by 2050;
(SEP package= 1.5-3% reduction)
- Achieve energy conservation & efficiency targets of in Delaware's proposed Energy Efficiency Resource Standard (EERS)
Goal: Reduce electricity consumption by 15% by 2015 by providing access to efficiency programs and services (proportional reduction in CO₂ emissions)
- Advance objectives identified in Governor's Energy Advisory Council
Goal: Carbon-neutral built environment by 2030
- Increase use of renewable energy sources and advance clean tech innovation
Goal: Advance achievement of 20% RPS earlier than 2019

Each of the four potential areas of investment were evaluated against these objectives as displayed below in Table 1:

Table 1. Jobs, leveraged resources and annual savings for ARRA investments

	Jobs Ratio (Direct & Indirect)	Leverage	Avg SEP \$/ participant	Avg Total Investment	Avg individ. annual savings
Residential Efficiency	21.5/\$1M ¹	30% Fed Credit	\$1,500	\$1,950.0	\$1,300
Commercial Efficiency	17/\$1M (est.) ²	30% FED Credit	\$7,500	\$9,750.0	\$6,500
Renewable Energy	5.6/\$1M ³	30% ITC + 45% Private	\$8,000	\$32,000	\$2,667
Public Institutions	17/\$1M (est.)	none	\$100,000	\$100,000	\$66,700
	Proposed Investment	Leveraged Investment	Direct & Indirect Jobs	Total savings from SEP	Participants
Residential Efficiency	\$12.5 M	\$16.25 M	349.4	\$10.8 M	7500- 15,000
Commercial Efficiency	\$5M	\$6.5 M	110.5	\$4.3 M	500-1000
Renewable Energy	\$4.5M	\$18 M	100.8	\$1.5 M	300-600
Public Institutions	\$2M	\$2 M	34	\$1.3 M	20

Based upon these criteria, it was determined that energy efficiency would produce the greatest return on investment in both jobs and savings, and that residential efficiency produced more jobs and greater savings that would spur greater overall economic benefit because of the direct spending impacts on local communities, than commercial efficiency or renewable energy projects.

Background

Energy efficiency and renewable energy have traditionally been associated with program-based education and incentives administered through utilities or government agencies. Programs of this type are driven by regulatory mandates, and focus mainly on regulated electricity and natural gas services. Programs distribute funds collected from utility ratepayers in the form of system benefit charges (SBCs) or other sources. Programs administered by utilities and government agencies accomplish a measure of efficiency improvements largely based on the amount of public funds given them but incentives to respond to market pressure and to create sustainable energy businesses are not included and experience to date is that these develop haphazardly, if at all. In fact, for utilities there are often inherent conflicts with energy efficiency and customer-sited renewables.

Conventional energy suppliers are highly organized and able to market and deliver their products. By contrast, energy users who are interested in improving energy efficiency or using renewable energy are faced with a fragmented array of equipment distributors, consulting firms, contractors, and energy

¹ http://www.apolloalliance.org/downloads/resources/ApolloReport_022404_122748.pdf

² Commercial estimates are extrapolated from: <http://rael.berkeley.edu/old-site/renewables.jobs.2006.pdf> and adjusted downward due to high capital equipment costs and previous energy efficiency efforts by various companies that captured some high return investments

³ <http://rael.berkeley.edu/old-site/renewables.jobs.2006.pdf>

services companies. The traditional approaches for supplying sustainable energy services do not address this problem.

The most important feature of the Delaware's new **Sustainable Energy Utility (SEU)** is that energy users can build a relationship with a single organization whose direct interest is to help residents and businesses *use less energy and generate their own energy cleanly*. Directly put, the SEU becomes the point-of-contact for efficiency and self-generation in the same way that conventional utilities are the point-of-contact for energy supply. The SEU does not supplant other private-sector activities, but complements them by providing a focal point for energy efficiency and renewable energy information, expertise and incentives. The SEU model will encourage inventors, adaptors and entrepreneurs to bring their innovations to the marketplace. The SEU is a public/private partnership that uses public funding sources and consumer savings, combined with private sector funds and management skills, to address the shortcomings of traditional approaches.

Based on detailed analyses provided to SEU planners the following was adopted as an initial Energy Efficiency Goal:

The SEU will produce a 30% reduction in energy waste by 2015 for each participant. The target **assumes that approximately 33% of the State's households and businesses will be convinced by** the SEU to participate by 2015. Savings will be distributed in approximately equal proportions across the residential, business, and transportation sectors. Many states in the Northeast region consume far less energy per capita than Delaware, in part because they have created aggressive energy efficiency programs. These states include New Jersey, New York and most of the New England states. Research indicated there is a sizable amount of "low hanging fruit" that can be harvested to reduce energy waste. In fact, the cost of saving energy is much lower than the cost of supplying additional energy, making energy efficiency the most cost-effective options. Based on the experience of 6 leading states in the development of energy efficiency programs – California, Connecticut, Massachusetts, New Jersey, New York and Vermont (each of which has operated programs for more than 8 years), University of Delaware Center for Energy and Environmental Policy (CEEP) research estimated the cost of *saving electricity to be 3-5 cents per kWh*, while *electricity typically costs consumers 8-15 cents per kWh*. As part of its toolkit, the SEU will also use incentive funds to encourage whole-building strategies to improve energy performance. Its Green Building Initiative will work with architects and building developers to identify special projects that merit SEU investment. This program will likewise observe a 30% energy savings goal, which is consistent with the *2030 Challenge* adopted by the American Institute of Architects.

The second Energy Efficiency Goal focuses on the need for affordable energy for low and moderate income households: Energy costs for low income households' account for a much larger proportion of household income than for others. Low income renters and homeowners also reside in homes that consume significantly more energy per square foot than other housing. At the same time, there is a backlog of about five years for low income consumers eligible for weatherization projects to improve home energy efficiency. The rate of low income household weatherization should be doubled to address this backlog and increase home energy efficiency.

The experience of 23 states who have adopted Renewable Portfolio Standards (RPS) was also considered. A 'best practice' policy competitive with New Jersey and other Mid-Atlantic states was adopted, which would mean an increase of the 2019 Delaware target to 20% of electricity sales and would include a 2% Solar Carveout (which matches New Jersey's policy). Based on this policy commitment, the following initial Distributed Renewable Energy Goal was set:

- The SEU will assist Delaware households and businesses in installing at least 300 MW of customer-sited renewable energy by 2019 through the use of incentives and other policy measures. These renewable energy systems will include at least 100 MW of solar

photovoltaics and at least 200 MW of solar thermal, wind, geothermal, and other renewable resources.

The SEU's charter is based on three major goals:

- Provide market development for residential and business purchases of high-efficiency alternatives in energy-using equipment to enable 30% savings in household and company energy use, with 33% of Delawareans participating by 2015 – this is estimated cut annual household energy costs by \$1,000
- Provide expanded weatherization services to residences, with a focus on the needs of low- and moderate-income families, doubling the number of annually weatherized units by 2015
- Promote at least 300 MW of customer-sited renewable energy applications.

Current Status

The Delaware Energy Office issued an RFP to establish the Delaware Sustainable Energy Utility in August 2008. Two exceptional responses were received and evaluated by a selection committee composed of State and Private Officials and the decision to enter into contract negotiations with one firm was made. As a result of these negotiations, the firm Applied Energy Group was selected to be the SEU's Contract Administrator (CA).

The CA will initiate Quick Launch Energy Efficiency and Renewable Energy Programs within the next month. Near Term Efficiency and Renewable Programs eligible for ARRA funding are expected to be operational soon afterward. The portfolio of energy efficiency and renewable programs to be offered by the Delaware Sustainable Energy Utility provides an excellent mechanism for utilization of funding provided through the ARRA funding utilizing State Energy Program (SEP) guidelines and practices.

The Delaware Energy Office proposes that ARRA SEP funding be invested in the Delaware Sustainable Energy Utility to jumpstart its operations and provide immediate and positive energy efficiency and renewable energy benefits for all Delawareans. The use of these dollars through the SEU can also provide a mechanism to stimulate positive job growth in the energy efficiency and renewable energy related job sectors in Delaware.

Home Energy Efficiency

Existing homes will be the majority of our housing stock for a long time to come. These homes are all in need of some level of energy efficiency improvement. The Governor's Energy Advisory Council, in a recently completed 2009 energy plan, has recommended an increased focus on home energy efficiency and determined a cost-effective level of retrofitting (averaging approximately \$1,000-2,500) – insulation, air sealing, and replacement equipment – can result in an average savings of 25-30% on the heating and cooling portion of homeowners bills. Such savings also translate into similar carbon and other criteria pollutant emission reductions.

A significant portion of Delaware ARRA funds will be used to defray the costs of required home energy audits and provide funding for the installation of energy efficient HVAC equipment, insulation, energy efficient windows, and other energy-related home improvements through the establishment of a Home Performance Program similar to the pilot program currently operated by the Delaware Energy Office. Training and certification for home energy auditors and installation contractors to ensure verifiable energy savings may require collaboration with Delaware Technical and Community College to ensure sufficient supply and expertise in the labor pool.

Funds for this component of the program will supplement funds dedicated to lower income communities through the Weatherization Assistance program (WAP). Funds will be administered through DNREC's Energy Office by the Sustainable Energy Utility (SEU) where they will be leveraged with other state funds and made available to homeowners across the state. The programs of the SEU are built upon a shared savings model where homeowners will re-pay, through energy savings, a portion of the capital cost of improvements, thereby essentially operating a revolving loan program and allowing residents to benefit for years to come.

We propose to dedicate \$12.0 million to this element, which will leverage an additional \$3.6 million of additional investment through the federal 30% tax credit for energy efficiency. This total amount of \$15.6 million will allow between 6,500 and 15,000 households to participate in the first year (range dependent upon financing level) and generate \$8M in annual savings (a similar number of households will be supported through the WAP). The average resident will save \$700-\$1000 annually, which will increase disposable income during this economic downturn and allow money to be re-circulated in the community. Residential energy efficiency requires significant labor to accomplish and relatively low equipment costs, resulting in greater job creation and stimulus impacts than some other investments. The direct investment will generate 258 new jobs, or 21.5 jobs per \$1 million, while the leveraged federal tax credits will generate an additional 77 jobs (335 total).

Business, Commercial and Manufacturing Energy Efficiency

Funding for energy efficiency improvements for small businesses, commercial firms and Delaware industries is another area in need. To remain competitive, Delaware businesses need to be as efficient as possible and to reduce their energy consumption and costs for energy to maintain profitability. The recent Delaware Energy Answers Business Program provided grants for business enterprises to audit their facilities, install state of the art lighting systems, replace outdated refrigeration systems, HVAC improvements, motor and process efficiencies, and similar measures. We propose another significant portion of ARRA funding be directed to a similar program, with funding to small businesses, commercial establishments and our manufacturing base to help with energy efficiency upgrades.

Funds dedicated to the commercial sector will be administered through DNREC's Energy Office by the SEU using a proposed shared savings model to deliver services that has succeeded in a initial pilot project. ARRA monies directed to this sector will be leveraged with other state funds made available to the SEU through sale of allowances from the Regional Greenhouse Gas Initiative (RGGI).

We propose to dedicate \$4.7 million to this element, which will leverage an additional \$1.4 million of investment from the 30% federal tax credit for energy efficiency. This \$6.1 million program will allow 500-1,000 businesses to participate and generate \$3-4.5 million in annual savings. The direct investment in this project is anticipated to create approximately 80 jobs (an estimated 17 jobs per \$1 million), because of the larger scale capital equipment investment required for some commercial energy efficiency projects and greater previous efforts at energy efficiency (less low hanging fruit). The leveraged federal tax credit will generate an additional 24 jobs (104 total). This project aligns with the Governor and DEDO's efforts to reduce small business operating expenses.

Statewide Renewable Energy Funding

The Economic Stimulus Package again offers an outstanding opportunity to provide additional funding to stimulate the growth of customer-sited renewable energy applications in Delaware. The current Green Energy Fund (GEF) capitalized through a systems benefit charge to Delmarva Power customers is inadequate to meet the demand for incentives to install renewable energy systems. Currently, GEF dollars are exhausted, reservations for rebates extend out to 2011 for residential systems and there is a

shortfall of approximately \$5.0 million to meet current funding commitments for Delmarva customers alone. Similar backlogs exist in comparable (but smaller) programs run by other utility providers in Delaware.

ARRA funds directed to renewable energy projects will be administered by DNREC's Energy Office through a program similar to the existing GEF. These funds will be used to provide up to a total of 55% of renewable energy system costs from a combination of state and federal funding (30% ITC). Dollars will be made available for all Delaware ratepayers, regardless of electric supplier, in quantities proportional to the number of metered customers each utility services. To receive ARRA funding for renewables, recipients must participate in a home or commercial energy auditing program and complete at least one energy efficiency improvement to be eligible.

We propose to dedicate \$4.5 million to this element, which will leverage more than \$13.5 million of private investment and 30% federal investment tax credit to allow for the installation of 2-3 MW of solar and other renewable energy projects in Delaware (e.g. ~650-700 3kW systems). The direct spending will generate 25 jobs (5.6 jobs per \$1 million), while the leveraged investment will generate 76 jobs (101 jobs total). (The jobs-to-investment ratio is lower for renewable energy than energy efficiency because of high system equipment costs. Further, the relatively high system costs will allow fewer Delawareans to participate in the program (e.g. \$8000 renewable energy system subsidy vs. \$1,500 energy efficiency subsidy).

Energy Efficiency in State Facilities

Our state buildings are in need of energy efficiency upgrades, upgrades that will not only bear financial returns to the state, but will help reduce energy demands and emissions from energy generating facilities. Delaware maintains over 200 state buildings, many of which were built years before modern energy efficiency technologies became standard practice. Many of the state's schools, also considered "state facilities" for purposes of ARRA funding, are in need of energy efficiency improvements and ineligible for Energy Efficiency Conservation Block Grant funds (EECBG)

Delaware proposes to use a portion of ARRA monies to enter into performance contracts or other vehicles for upgrades to energy systems in certain school buildings and to direct energy savings into more energy efficiency projects into the future, thereby leveraging the ARRA monies for years to come. State office facilities will be eligible for use of EECBG dollars to be applied for in the very near future.

Efficiency services for schools and state office buildings will also be administered through DNREC's Energy Office by the SEU, which has the capability to use other sources of funds, including bond revenue and RGGI funds, to leverage ARRA dollars. The shared savings model used by the SEU again offers the opportunity to prolong the benefits accruing from ARRA.

We propose to dedicate \$1.8 million to this element to support efficiency upgrades in 20-50 schools that are currently ineligible for EECBG funding. This investment will generate an annual savings of more than \$1 million and generate 31 jobs. Ideally, this funding will serve as seed capital for a larger energy efficiency initiative for each school by providing support for initial projects from which the savings can be reinvested in greater efficiency. If the schools partner with an energy efficiency provider they may be able to leverage the federal tax energy efficiency tax credits to expand the resources available. This program aligns with the Governor's efforts to reduce backroom expenses to ensure more resources are allocated to the classroom.

****Funding amounts allow for administrative costs as authorized under ARRA***

(Grant Number: DE-EE-0000342)

State Title: Buildings/Technical Assistance

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: DE

3. Program Year: 9-11 Date Start: 04/30/09 Date End: 04/30/12

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input checked="" type="checkbox"/> Public information
<input checked="" type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input checked="" type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input type="checkbox"/> Energy and environment	<input checked="" type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 52.4 BBTus

6. Description (executive summary of goals and objectives)*

See Attached Sheet

7. Program Year Milestones*

Milestone		Planned (Number)
1	Reduce Home Energy Operating Expenses per Program Year	6.5 to 15.0 Thousand Homes
2		
3		
4		

8. Standard Metrics (required):**

JOB METRICS	Planned
Jobs Created	258
Jobs Retained	
TOTAL JOBS	258

9. Specific Metric Activity (required):**

Metric Activity: ARRA SEP

SPECIFIC METRICS	Planned
Jobs Created	258
Energy saved (3 years)	157.2 BBTU
Renewable Energy installed capacity and generated	0
GHG Emissions reduced	1.5 to 3.0% reduction 1990 Level (all ARRA/ SEP Funds)
Energy Cost Savings	25-30%/Home
Funds Leveraged	\$3.6 Million

10. User Specified Metrics (optional): *

METRICS	Planned

11. Program Year Funds by Source *

	Planned
a. SEP grant (all funds in the approved budget)	
SEP ARRA Funding	\$ 12.0 Million
	\$
Market Budget Total	\$
b. Leveraged funds anticipated (outside approved budget)	
Federal Tax Credit	\$ 3.6 Million
	\$

**Please use additional pages if more space is needed.*

***Mandatory requirement*

Home Energy Efficiency

Existing homes will be the majority of our housing stock for a long time to come. These homes are all in need of some level of energy efficiency improvement. The Governor's Energy Advisory Council, in a recently completed 2009 energy plan, has recommended an increased focus on home energy efficiency and determined a cost-effective level of retrofitting (averaging approximately \$1,000-2,500) – insulation, air sealing, and replacement equipment – can result in an average savings of 25-30% on the heating and cooling portion of homeowners bills. Such savings also translate into similar carbon and other criteria pollutant emission reductions.

A significant portion of Delaware ARRA funds will be used to defray the costs of required home energy audits and provide funding for the installation of energy efficient HVAC equipment, insulation, energy efficient windows, and other energy-related home improvements through the establishment of a Home Performance Program similar to the pilot program currently operated by the Delaware Energy Office. Training and certification for home energy auditors and installation contractors to ensure verifiable energy savings may require collaboration with Delaware Technical and Community College to ensure sufficient supply and expertise in the labor pool.

Funds for this component of the program will supplement funds dedicated to lower income communities through the Weatherization Assistance program (WAP). Funds will be administered through DNREC's Energy Office by the Sustainable Energy Utility (SEU) where they will be leveraged with other state funds and made available to homeowners across the state. The programs of the SEU are built upon a shared savings model where homeowners will re-pay, through energy savings, a portion of the capital cost of improvements, thereby essentially operating a revolving loan program and allowing residents to benefit for years to come.

(Grant Number: DE-EE-0000342)

State Title: Buildings/Technical Assistance

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: DE

3. Program Year: 9-11 Date Start: 04/30/09 Date End: 04/30/12

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input checked="" type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input checked="" type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input checked="" type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 11.28 BBTus

6. Description (executive summary of goals and objectives)*

See attached sheet.

7. Program Year Milestones*

	Milestone	Planned (Number)
1	Retrofit businesses for energy efficiency improvements	500-1000
2		
3		
4		

*Please use additional pages if more space is needed.

**Mandatory requirement

8. Standard Metrics (required):**

JOB METRICS	Planned
Jobs Created	80
Jobs Retained	
TOTAL JOBS	80

9. Specific Metric Activity (required):**

Metric Activity: _____

SPECIFIC METRICS	Planned
Jobs Created	80
Energy Saved (3 years)	33.84 BBTU
Renewable Energy Installed	0
GHG Emissions reduced	1.5 - 3.0% reduction 1990 levels (All ARRA/SEP Funds)
Energy Cost Savings	\$6,500 per business
Funds leveraged	\$1.4 Million

10. User Specified Metrics (optional): *

METRICS	Planned

11. Program Year Funds by Source *

	Planned
a. SEP grant (all funds in the approved budget)	
SEP ARRA Funding	\$ 4.7 Million
	\$
Market Budget Total	\$ 4.7 Million
b. Leveraged funds anticipated (outside approved budget)	
Federal Tax Credit	\$ 1.4 Million
	\$

**Please use additional pages if more space is needed.*

***Mandatory requirement*

Business, Commercial and Manufacturing Energy Efficiency

Funding for energy efficiency improvements for small businesses, commercial firms and Delaware industries is another area in need. To remain competitive, Delaware businesses need to be as efficient as possible and to reduce their energy consumption and costs for energy to maintain profitability. The recent Delaware Energy Answers Business Program provided grants for business enterprises to audit their facilities, install state of the art lighting systems, replace outdated refrigeration systems, HVAC improvements, motor and process efficiencies, and similar measures. We propose another significant portion of ARRA funding be directed to a similar program, with funding to small businesses, commercial establishments and our manufacturing base to help with energy efficiency upgrades.

Funds dedicated to the commercial sector will be administered through DNREC's Energy Office by the SEU using a proposed shared savings model to deliver services that has succeeded in a initial pilot project. ARRA monies directed to this sector will be leveraged with other state funds made available to the SEU through sale of allowances from the Regional Greenhouse Gas Initiative (RGGI).

(Grant Number: DE-EE-0000342)

State Title: Renewables

1. Market (choose one):

<input type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input checked="" type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: DE

3. Program Year: 10-12 Date Start: 04/30/09 Date End: 04/30/12

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input checked="" type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input checked="" type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input checked="" type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input checked="" type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input checked="" type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input checked="" type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: _____ MBtus

6. Description (executive summary of goals and objectives)*

See attached sheet.

7. Program Year Milestones*

	Milestone	Planned (Number)
1	Renewable energy installations (capacity)	2 – 3 MW
2		
3		
4		

*Please use additional pages if more space is needed.

**Mandatory requirement

8. Standard Metrics (required):**

JOB METRICS	Planned
Jobs Created	101
Jobs Retained	
TOTAL JOBS	101

9. Specific Metric Activity (required):**

Metric Activity: _____

SPECIFIC METRICS	Planned
Jobs Created	101
Energy saved (from traditional sources)	2 to 3 MW
Renewable Energy Installed	2 – 3 MW
GHG Emissions Reduced	1.5 to 3.0% reduction 1990 levels (All ARRA/SEP Funds)
Energy Cost Savings	\$2,667/individual
Funds leveraged	\$13.5 Million

10. User Specified Metrics (optional): *

METRICS	Planned

11. Program Year Funds by Source *

	Planned
a. SEP grant (all funds in the approved budget)	
ARRA SEP Funds	\$ 4.5 Million
	\$
Market Budget Total	\$ 4.5 Million
b. Leveraged funds anticipated (outside approved budget)	
Private Investment/Federal ITC	\$ 13.5 Million
	\$

**Please use additional pages if more space is needed.*

***Mandatory requirement*

Statewide Renewable Energy Funding

The Economic Stimulus Package again offers an outstanding opportunity to provide additional funding to stimulate the growth of customer-sited renewable energy applications in Delaware. The current Green Energy Fund (GEF) capitalized through a systems benefit charge to Delmarva Power customers is inadequate to meet the demand for incentives to install renewable energy systems. Currently, GEF dollars are exhausted, reservations for rebates extend out to 2011 for residential systems and there is a shortfall of approximately \$5.0 million to meet current funding commitments for Delmarva customers alone. Similar backlogs exist in comparable (but smaller) programs run by other utility providers in Delaware.

ARRA funds directed to renewable energy projects will be administered by DNREC's Energy Office through a program similar to the existing GEF. These funds will be used to provide up to a total of 55% of renewable energy system costs from a combination of state and federal funding (30% ITC). Dollars will be made available for all Delaware ratepayers, regardless of electric supplier, in quantities proportional to the number of metered customers each utility services. To receive ARRA funding for renewables, recipients must participate in a home or commercial energy auditing program and complete at least one energy efficiency improvement to be eligible.

(Grant Number: DE-EE-0000342)

State Title: Buildings/Technical Assistance

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: DE

3. Program Year: 10-12 Date Start: 04/30/09 Date End: 04/30/12

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input checked="" type="checkbox"/> Performance contracting	
<input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: _____ MBtus

6. Description (executive summary of goals and objectives)*

See attached sheet.

7. Program Year Milestones*

	Milestone	Planned (Number)
1	Energy Efficiency Upgrades	20-30 Schools
2		
3		
4		

*Please use additional pages if more space is needed.

**Mandatory requirement

8. Standard Metrics (required):**

JOB METRICS	Planned
Jobs Created	31
Jobs Retained	
TOTAL JOBS	31

9. Specific Metric Activity (required):**

Metric Activity: ARRA SEP

SPECIFIC METRICS	Planned
Jobs Created	31
Energy Saved	12.96 BBTU
GHG Emissions reduced	1.5 to 3.0% reduction 1990 levels (all ARRA SEP funds)
Renewable Energy installed capacity and generated	
Energy Cost Savings	\$66,700 per school
Funds leveraged	To be determined

10. User Specified Metrics (optional): *

METRICS	Planned

11. Program Year Funds by Source *

	Planned
a. SEP grant (all funds in the approved budget)	
ARRA SEP Funds	\$ 1.8 Million
	\$
Market Budget Total	\$ 1.8 Million
b. Leveraged funds anticipated (outside approved budget)	
To be determined	\$
	\$

**Please use additional pages if more space is needed.*

***Mandatory requirement*

Energy Efficiency in State Facilities

Delaware's state buildings are in need of energy efficiency upgrades, upgrades that will not only bear financial returns to the state, but will help reduce energy demands and emissions from energy generating facilities. Delaware maintains over 200 state buildings, many of which were built years before modern energy efficiency technologies became standard practice. Many of the state's schools, also considered "state facilities" for purposes of ARRA funding, are in need of energy efficiency improvements and ineligible for Energy Efficiency Conservation Block Grant funds (EECBG)

Delaware proposes to use a portion of ARRA monies to enter into performance contracts or other vehicles for upgrades to energy systems in certain school buildings and to direct energy savings into more energy efficiency projects into the future, thereby leveraging the ARRA monies for years to come. State office facilities will be eligible for use of EECBG dollars to be applied for in the very near future.

Efficiency services for schools and state office buildings will also be administered through DNREC's Energy Office by the SEU, which has the capability to use other sources of funds, including bond revenue and RGGI funds, to leverage ARRA dollars. The shared savings model used by the SEU again offers the opportunity to prolong the benefits accruing from ARRA.

(Grant Number: DE-EE-0000342)

State Title: Administrative

1. Market (choose one):

<input type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input checked="" type="checkbox"/> Administration

2. State: DE

3. Program Year: 10-12 Date Start: 04/30/09 Date End: 04/30/12

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: N/A MBtus

6. Description (executive summary of goals and objectives)*

The Department of Natural Resources and Environmental Control and the Delaware Energy Office will incur significant new administrative responsibilities with the administration of ARRA SEP and EECBG SEP funding. Due to the significant reduction in the annual SEP formula allocation the decision to use ARRA SEP funding to support Energy Office operational costs and a portion of staff salaries was made. Additionally, several new positions required to support the administrative workload of managing the ARRA SEP and EECBG SEP funds are requested to be partially funded with ARRA funds. Federal requirements to track and verify energy savings, jobs created, GHG emissions achieved and other metrics are part of this increased responsibility. The amount of administrative funding required is approximately 5% of the total ARRA funding.

7. Program Year Milestones* (3 years)

	Milestone	Planned (Number)
1	Direct overall management and administration of ARRA SEP Program	12
2	Monitor and verify ARRA SEP funding through SEU and Renewable Energy Program	12
3	Prepare quarterly Reports	12
4	Travel in Support of ARRA SEP Programs	4

*Please use additional pages if more space is needed.

**Mandatory requirement

8. Standard Metrics (required):**

JOB METRICS	Planned
Jobs Created	3
Jobs Retained	
TOTAL JOBS	3

9. Specific Metric Activity (required):**

Metric Activity: _____

SPECIFIC METRICS	Planned
Jobs Created	3

10. User Specified Metrics (optional): *

METRICS	Planned

11. Program Year Funds by Source *

	Planned
a. SEP grant (all funds in the approved budget)	
ARRA SEP Funding	\$ 1.231 Million
	\$
Market Budget Total	\$ 1.231 Million
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

**Please use additional pages if more space is needed.*

***Mandatory requirement*