

NOTICE & DISCLAIMER

In order to provide greater transparency to the public regarding the expenditure of funds authorized by the American Recovery and Reinvestment Act of 2009, the DOE State Energy Program has posted on its public website the ARRA Formula Grant applications submitted by each grantee state and territory.

These applications provide information about the state offices responsible for administering the funds, as well as an overview of how the funds are to be spent.

PLEASE NOTE: The information contained in this ARRA SEP Formula Grant application document may not reflect the final document as approved by DOE. The posted document is subject to change and may have modifications pending.

APPLICATION FOR FEDERAL ASSISTANCE SF-424

Version 02

1. Type of Submission:

- Preapplication
- Application
- Changed/Corrected Application

2. Type of Application:

- New
 - Continuation
 - Revision
- If Revision, select appropriate letter(s)
Other (specify):

3. Date Received

06/03/2009

4. Applicant Identifier:

5a. Fed Entity Identifier:

5b. Federal Award Identifier:

EE00342

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

a. Legal Name: Delaware Energy Office

b. Employer/Taxpayer Identification Number (EIN/TIN):

c. Organizational DUNS:

d. Address:

Street 1: 1203 College Park Drive

Street 2: Suite 101

City: Dover

County: Kent

State: DE

Province:

Country: U.S.A.

Zip / Postal Code: 19904-

e. Organizational Unit:

Department Name:

Nat. Res. & Environ. Control

Division Name:

Office of the Secretary

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

Prefix: First Name: Charlie

Middle Name: T

Last Name: Smisson, Jr.

Suffix:

Title: State Energy Coordinator

Organizational Affiliation:

Telephone Number: (302)735-3480

Fax Number: () -

Email: charlie.smisson@state.de.us

APPLICATION FOR FEDERAL ASSISTANCE SF-424

Version 02

9. Type of Applicant:

A State Government (State)

10. Name of Federal Agency:

U. S. Department of Energy

11. Catalog of Federal Domestic Assistance Number:

81.041

CFDA Title:

State Energy Program

12. Funding Opportunity Number:

DE-FOA-0000052

Title:

13. Competition Identification Number:

Title:

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

Statewide

15. Descriptive Title of Applicant's Project:

APPLICATION FOR FEDERAL ASSISTANCE SF-424

Version 02

Applicant Federal Debt Delinquency Explanation:

The following field should contain an explanation if the Applicant 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.

**U.S. DEPARTMENT OF ENERGY
GOLDEN FIELD OFFICE**



BUDGET EXPLANATION FOR FORMULA GRANTS

Applicant: Delaware Energy Office

Budget period: 04/01/2009 - 04/30/2012

Award number: EE00342

Amendment number: A000

1. **PERSONNEL** - Prime Applicant only (all other participant costs are listed in 6 below and form DOE F 4600.4, Section B. Line 6.f. Contracts and Sub-Grants).

Positions to be supported under the proposed award and brief description of the duties of professionals:

<u>Position</u>	<u>Description of Duties of Professionals</u>
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Direct Personnel Compensation:

<u>Position</u>	<u>Salary/Rate</u>	<u>Time</u>	<u>Direct Pay</u>
	\$0.00		

2. **FRINGE BENEFITS**

- a. Are the fringe cost rates approved by a Federal Agency? If so, identify the agency and date of latest rate agreement or audit below, and include a copy of the rate agreement.
- b. If a above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations as an attachment.

3. **TRAVEL** - Identify total foreign and domestic travel as separate items.

- a. Proposed travel:

<u>Purpose of Trip</u>	<u>Number of Trips</u>	<u>Cost Per Trip</u>	<u>Total</u>
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4. **EQUIPMENT** - As defined in 10 CFR 660.202. Definitions are at http://www.access.gpo.gov/nara/cfr/waisidx_00/10cf

- a. Basis of cost estimates (e.g., vendor quotes, prior purchases of similar or like items, etc.):

- b. Equipment to be purchased and justification of need:

<u>Equipment</u>	<u>Unit Cost</u>	<u>Number</u>	<u>Total Cost</u>	<u>Justification of Need</u>
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5. MATERIALS AND SUPPLIES - As defined in 10 CFR 660.202.

a. Basis cost estimates (e.g., vendor quotes, prior purchases of like items, etc.):

b. Supplies to be purchased and justification of need:

<u>General Category</u>	<u>Cost</u>	<u>Justification of Need</u>
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6. CONTRACTS AND SUBGRANTS - All other participant costs including subcontractor sub-grants, and consultants

For ongoing subcontractors and sub recipients described elsewhere in the application, document and item number is listed.

<u>Name of Proposed Sub</u>	<u>Total Cost</u>	<u>Basis of Cost*</u>
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*For example, Competitive, Historical, Quote, Catalog

7. OTHER DIRECT COSTS - All direct costs not included in above categories

a. Basis for cost estimates (e.g., vendor quotes, prior purchase of similar items, etc.):

b. Other direct costs and justification of need:

<u>General Description</u>	<u>Cost</u>	<u>Justification of Need</u>
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8. INDIRECT COSTS

a. Are the indirect cost rates approved by a Federal agency? If so, identify the agency and date of latest rate agreement or audit and provide a copy of the rate agreement.

b. If the above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations separately.

The name and phone number of the individual responsible for negotiating the State's indirect cost rates.

Name:

Phone Number:

Federal Assistance Budget Information

OMB Burden Disclosure Statement

Public reporting burden for this collection of information is estimated to average 1.87 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Information Resources Management Policy, Plans and Oversight, Records Management Division, HR-422 - GTN, Paperwork Reduction Project (1910-0400), U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, DC 20585; and to the Office of Management and Budget (OMB), Paperwork Reduction Project (1910-0400), Washington, DC 20503.

1. Program/Project Identification No. Amendment number:	EE00342 A000	2. Program/Project Title State Energy Program
3. Name and Address Delaware Energy Office 1203 College Park Drive Dover DE 19904-		4. Program/Project Start Date 04/01/2009
		5. Completion Date 04/30/2012

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DOE	81.041	\$ 0.00		\$ 24,231,000.00		\$ 24,231,000.00
2. GRANTEE			\$ 0.00		\$ 0.00	\$ 0.00
3.						
4.						
5. TOTALS		\$ 0.00	\$ 0.00	\$ 24,231,000.00	\$ 0.00	\$ 24,231,000.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1)	DOE	(2)	(3)	
a. Personnel		\$ 447,832.00			\$ 447,832.00
b. Fringe Benefits		\$ 225,775.00			\$ 225,775.00
c. Travel		\$ 15,000.00			\$ 15,000.00
d. Equipment		\$ 0.00			\$ 0.00
e. Supplies		\$ 34,755.00			\$ 34,755.00
f. Contractual		\$ 23,330,000.00			\$ 23,330,000.00
g. Construction		\$ 0.00			\$ 0.00
h. Other		\$ 111,493.00			\$ 111,493.00
i. Total Direct Charges		\$ 24,164,855.00			\$ 24,164,855.00
j. Indirect Charges		\$ 66,145.00			\$ 66,145.00
k. Totals		\$ 24,231,000.00			\$ 24,231,000.00
7. Program Income		\$ 0.00			\$ 0.00

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. Amendment number:	EE00342 A000	2. Program/Project Title State Energy Program
3. Name and Address Delaware Energy Office 1203 College Park Drive Dover DE 19904-	4. Program/Project Start Date 04/01/2009	5. Completion Date 04/30/2012

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DOE	81.041	\$ 0.00		\$ 24,231,000.00		\$ 24,231,000.00
2. GRANTEE			\$ 0.00		\$ 0.00	\$ 0.00
3.						
4.						
5. TOTALS		\$ 0.00	\$ 0.00	\$ 24,231,000.00	\$ 0.00	\$ 24,231,000.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	Grant Program, Function or Activity					Total (5)
	(1)	DOE	(2)	(3)	(4)	
a. Personnel		\$ 447,832.00				\$ 447,832.00
b. Fringe Benefits		\$ 225,775.00				\$ 225,775.00
c. Travel		\$ 15,000.00				\$ 15,000.00
d. Equipment		\$ 0.00				\$ 0.00
e. Supplies		\$ 34,755.00				\$ 34,755.00
f. Contractual		\$ 23,330,000.00				\$ 23,330,000.00
g. Construction		\$ 0.00				\$ 0.00
h. Other		\$ 111,493.00				\$ 111,493.00
i. Total Direct Charges		\$ 24,164,855.00				\$ 24,164,855.00
j. Indirect Charges		\$ 66,145.00				\$ 66,145.00
k. Totals		\$ 24,231,000.00				\$ 24,231,000.00
7. Program Income		\$ 0.00				\$ 0.00

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Administrative

1. Market (choose one):

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

2. State: DE

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 04/30/2012

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

- | | | |
|--|---|--|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input 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 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 checked="" type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 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.

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Administrative

7. Program Year Milestones* :

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

8. Standard metrics (required)**

JOB METRICS		Planned
Job Creation		
Jobs created through Recovery Act funds		
Jobs created		3

9. Specific metric activity (required)**

SPECIFIC METRICS		Planned
Special exception: No metrics for this activity		
No metrics for this activity		
Exempt from metric reporting		Yes

10. User specified metrics (optional)*

METRICS		Planned

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)		
DOE		\$1,231,000.00
Market Budget Total		\$1,231,000.00
b. Leveraged funds anticipated (outside approved budget)		

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Business/Commercial Building Energy Efficiency Program

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: 2009

Date Start: 04/01/2009 Date End: 04/30/2012

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative Fuels	<input type="checkbox"/> Federal, state and local facilities	<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 MBtus

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

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Business/Commercial Building Energy Efficiency Program

Funding for energy efficiency improvements for small businesses, commercial firms and Delaware manufacturing 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 high efficiency lighting systems including lighting controls, replace outdated energy-inefficient refrigeration systems (such as those used in many convenience stores and super-markets to keep produce cool) with high efficiency systems, HVAC improvements, motor and process energy efficiencies, and similar measures. We propose another significant portion of ARRA funding be directed to this new Business/Commercial Building Energy Efficiency Program, with funding to small businesses, commercial establishments and our manufacturing base to help with energy efficiency upgrades similar to those listed above. The types of upgrades would be determined from the result of a comprehensive energy audit of the facility that would be provided by this program.

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).

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Retrofit businesses for energy efficiency improvements	1,000

8. Standard metrics (required)**

JOB METRICS	Planned
Job Creation	
Jobs created through Recovery Act funds	
Jobs created	80

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Building Energy Audits	
Building energy audits, by sector	
Audits performed (Commercial)	1,000
Floor space audited (Commercial)	0
Auditor's projection of energy savings (Commercial)	0

10. User specified metrics (optional)*

METRICS	Planned

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Business/Commercial Building Energy Efficiency Program

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$4,700,000.00
Market Budget Total	\$4,700,000.00
b. Leveraged funds anticipated (outside approved budget)	
Other Federal	\$1,400,000.00

DOE F 540.1
(08/05)

U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Green Energy Program

1. Market (choose one):

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

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 04/30/2012

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

<input type="checkbox"/> Agriculture <input type="checkbox"/> Alternative Fuels <input type="checkbox"/> Appliance efficiency and standards <input type="checkbox"/> Bioenergy and biobased products <input type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input type="checkbox"/> Carpools, vanpools, and ridesharing <input type="checkbox"/> Clean Cities <input type="checkbox"/> Climate change planning <input type="checkbox"/> Combined heat and power <input checked="" type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input type="checkbox"/> Energy and environment <input type="checkbox"/> Energy building codes <input type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input type="checkbox"/> Federal, state and local facilities <input type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input checked="" type="checkbox"/> Geothermal <input checked="" type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input type="checkbox"/> Performance contracting <input type="checkbox"/> Policy and energy legislation	<input type="checkbox"/> Procurement of efficient products ** <input type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input checked="" type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input type="checkbox"/> Schools <input checked="" type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input type="checkbox"/> Water systems <input type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 0.00 MBtus

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

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Green Energy Program

Green Energy Program (Renewables)

The ARRA 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. The ARRA funding used for this program will provide rebates for the installation of solar photovoltaic and solar hot water systems, small wind applications, and geothermal (closed-loop ground source heat pump) systems for homes, businesses, and institutional buildings. The funds will provide up to a total of 55% of renewable energy system costs from a combination of state (25%) 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 must complete at least one energy efficiency improvement to be eligible.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Renewable Energy Installtions (MW of capacity)	3

8. Standard metrics (required)**

JOB METRICS	Planned
Job Creation	
Jobs created through Recovery Act funds	
Jobs created	101

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Renewable Energy Market Development	
Other systems installed (kilowatts)	
Number of systems installed	0
Total capacity of systems installed	3,000

10. User specified metrics (optional)*

METRICS	Planned

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Green Energy Program

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$4,500,000.00
Market Budget Total	\$4,500,000.00
b. Leveraged funds anticipated (outside approved budget)	
Other	\$13,500,000.00

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Institutional Buildings Energy Efficiency Program

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: 2009

Date Start: 04/01/2009 Date End: 04/30/2012

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative Fuels	<input checked="" type="checkbox"/> Federal, state and local facilities	<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 checked="" 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 : 0.00 MBtus

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

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Institutional Buildings Energy Efficiency Program

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. Types of energy efficiency improvements that will be accomplished include replacement of old inefficient lighting systems with state of the art energy efficient lighting technologies to include lighting control systems, HVAC efficiency upgrades, replacement of inefficient motors and pumps, and possible boiler replacement with high efficiency models. Other 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 through revenue redirected back to the SEU to sustain programs in future years.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Energy Efficiency Upgrades in Schools	30

8. Standard metrics (required)**

JOB METRICS	Planned
Job Creation	
Jobs created through Recovery Act funds	
Jobs created	31

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Financial incentives provided, by incentive type and sector	
Monetary value of financial incentives (Institutional; Other)	1,800,000

10. User specified metrics (optional)*

METRICS	Planned

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Institutional Buildings Energy Efficiency Program

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$1,800,000.00
Market Budget Total	\$1,800,000.00
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Residential Energy Efficiency

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: 2009

Date Start: 04/01/2009 Date End: 04/30/2012

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative Fuels	<input type="checkbox"/> Federal, state and local facilities	<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 : 52.40 MBtus

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

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: EE00342)

Market Title: Residential 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. The proposed Residential Energy Efficiency Program operated by the SEU will combine direct incentives in the form of rebates with a shared savings concept for larger scale home energy efficiency projects. This shared savings concept once implemented will essentially act as a revolving loan in that the portion of the shared savings redirected to the SEU can be used to support more home improvement projects.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Reduce Home Energy Operating Expenses per program year	15,000

8. Standard metrics (required)**

JOB METRICS	Planned
Job Creation	
Jobs created through Recovery Act funds	
Jobs created	258

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Financial incentives provided, by incentive type and sector	
Monetary value of financial incentives (Residential; Other)	0

DOE F 540.1
(08/05)

**U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET
(Grant Number: EE00342)**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

Market Title: Residential Energy Efficiency

10. User specified metrics (optional)*

METRICS	Planned

11. Program Year Funds by Source*

a. SEP Grant (all funds in the approved budget)	
DOE	\$12,000,000.00
Market Budget Total	\$12,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

*Please use additional pages if more space is needed.

**Mandatory requirement

State Plan - Master File Worksheet**State: DE Program Year: 2009**

This worksheet should be completed as specified in Section III of the State Energy Program Application Package.

1. Description of State Energy Goals to be achieved (10CFR 420.13.b.2)

The State of Delaware, through the Department of Natural Resources and Environmental Control (DNREC), Delaware Energy Office, has made a firm commitment to energy efficiency/renewable energy that is realistically achievable in 2006-2007. The intent of the State Energy Program (SEP) Plan is to reach the broadest possible range of target audiences. To accomplish this, the Energy Office has developed a variety of activities under the Program Measures area. These activities include revision of the State Building and Thermal Standards, distribution of energy/environmental materials for students and teachers and the general public, continued development and promotion of the Delaware Clean State Program, and the development of market transformation activities to promote energy efficiency and renewable energy resources.

This year's SEP Plan will once again emphasize the areas of Public Education, Renewable Energy Applications, Building Codes and Standards, Technical Assistance/Buildings, Energy Star, Strategic and Emergency Energy Planning and Alternative Fuel Vehicles. Planned activities will have a public component. The Energy Policy Act of 1992 (P.L. 102-486) and its many provisions concerning energy efficiency, codes and standards, alternative fuels and electrical generation, distribution and transmission must be made understandable to the citizens of the state. The Energy Office will coordinate with and utilize State agencies and departments in this effort and develop a cooperative, working relationship with State utilities and fuel suppliers to insure this transfer occurs. Energy emergency planning activities have been strengthened with the development of the new Delaware Energy Emergency Response Plan.

2. Selection of State Goals (10CFR 420.13.b.2.ii)

Goals were originally developed as components of the State of Delaware's State Energy Program Plan. Goals are to reduce the total energy use in Delaware by 25% by year 2012 based on 1990 calendar year energy consumption, increase the economic well being of Delaware's citizens, protect the environment, and minimize the impacts of future fuel shortages.

3. Measuring Achievements (10CFR 420.13.b.2.iii)

Goals will be measured by the accomplishment of identified milestones in each program measure. Milestones will include items such as alternative fuel vehicles purchases, number of workshops, renewable resource applications, and technical assistance provided to state and local entities.

4. State Strategy (10CFR 420.13.b.2.iv)

Program activities in Delaware's SEP are developed to achieve the overall goals identified in Section III.I of the State Plan/Master file. These are refined annually through a review of each year's plan conducted every fall through suggestions and comments by staff members, DOE, and other States.

5. 25% or more improvement in the efficiency of use of energy by 2012 (1990 baseline)

The Energy Office will seek to quantify this reduction through the development of revised State Energy Program Plan for 2006-2007. Realistic goals based on the development of new technology and efficient products should provide a reduction in the 25 percent range by the year 2012 based on base calendar year 1990 consumption. This reduction can be achieved by an aggressive development and implementation of all program measures contained in SEP.

6. Mandatory Activities (10CFR 420.13.b.4.v and 15)

State Plan - Master File Worksheet (continued)**State: DE Program Year: 2009**

The State Legislature passed Senate Bill 306 in June 2004 which required all building code jurisdictions in the state to use the International Energy Congress Code 2000 version, as a thermal code base for residential buildings and ASHRAE/IES Standard 90.1 - 1999 for commercial buildings. In other words, no thermal code in the state can be less than that mandated by these standards. The Energy Office will continue to provide education and materials to interested parties on this subject matter.

The lead agency in Delaware for the implementation of the Ride Share Program is the Office of Management and Budget, Office of Fleet Management. Fleet Services has developed multiple approaches to improving and further developing a carpool/vanpool program and the improvement of public transportation in the state in coordination with the Department of Transportation. The Energy Office coordinates with both agencies to further improvements in this area.

The State of Delaware's procurement designee is the Division of Support Operations in the Office of Management and Budget. The Energy Office will continue working with the Division to integrate the concept of life cycle costing into the purchasing procedures for energy intensive items. Particular emphasis will be placed on vehicle procurement, lighting equipment, computers, copiers, HVAC equipment and printers. Contracts for paper products emphasize the use of recycled paper products. Energy Star purchasing and life cycle costing will be emphasized.

Right turn on red and left turn on red became effective in Delaware on August 5, 1976. This mandatory program measure is intended to reduce motor fuel consumption by permitting vehicles to make right and left turns after a full stop at a red traffic signal. It is based on the expectation that diminishing unnecessary idling time without undue safety risk may save energy.

The State Energy Program Plan maintains an intergovernmental coordination program. The Governor and the General Assembly have a longstanding commitment to reduce energy consumption in the state and in State facilities in particular. This program calls on the expertise of Delaware Departments and Agencies and Local Governments to improve energy management and reduce consumption in public buildings in the state. The Energy Office will work with all state agencies to implement a new state facilities energy efficiency plan.

7. Environmental Impact (10CFR 420.13.b.5)

The Environmental Residuals Statements that were submitted with the Base and Supplemental SECP Plans remain current. The Environmental Residuals Statement for Renewable Resources was included with the 1980 plan and remains current. The Alternate Fuel Vehicle Measure will promote use of cleaner fuels and will also produce a net decrease in pollutants, as well as activities associated with the Renewable, Pollution Prevention and Climate Change Measures.

8. Supplementing Weatherization (10CFR 420.13.b.6)

Not applicable.

9. Supplementing State/Local Funds (10CFR 420.13.b.7)

The State of Delaware's State Energy Plan (SEP) does not contain activities that involve the purchase of or installation of materials or equipment for weatherization of low-income housing that would supplement and not supplant these activities.

10. Compliance with Laws and Regulations (10CFR 420.13.b.8)

All applicable Federal and State laws and regulations are effectively complied with.

State Plan - Master File Worksheet (continued)**State: DE Program Year: 2009****11. Energy Emergency Plan (10CFR 420.13.b.9)**

The Delaware Energy Office maintains energy emergency response capability by direction of the Delaware Emergency Operations Plan. The revised Delaware Energy Emergency Response Plan is the mechanism for implementation of this responsibility. In the event of an energy emergency, the plan would provide the standard operating procedures to deal with the emergency and assure public health, safety and welfare. Recent natural disasters necessitated the need to revise and update the State's Energy Emergency Plan to meet current contingencies. The Energy Office will maintain liaison with State and regional emergency officials to insure emphasis and inclusion of energy-related response activities in all future contingencies.

12. Monitoring Approach (Annual SEP Guidance)

implementation, monitoring, reporting, financial responsibility and subcontracting.

Staff members will address program-monitoring responsibility by aggressively pursuing an evaluation/monitoring program during the 2006/2007 program year.