

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@netl.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:

Mandatory Documents

Other Attachments Form

Move Form to Complete

Move Form to Delete

Mandatory Documents for Submission

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

Optional Documents

Disclosure of Lobbying Activities (SF-LLL)

Move Form to Submission List

Move Form to Delete

Optional Documents for Submission

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 checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision		
* If Revision, select appropriate letter(s): _____ * Other (Specify): _____		
* 3. Date Received: Completed by Grants.gov upon submission.		4. Applicant Identifier: _____
5a. Federal Entity Identifier: _____		* 5b. Federal Award Identifier: _____
State Use Only:		
6. Date Received by State: _____		7. State Application Identifier: _____
8. APPLICANT INFORMATION:		
* a. Legal Name: Connecticut Office of Policy and Management		
* b. Employer/Taxpayer Identification Number (EIN/TIN): 06-6000798		* c. Organizational DUNS: 807853015
d. Address:		
* Street1: 450 Capitol Avenue, MS52ENR		
Street2: _____		
* City: Hartford		
County: _____		
* State: CT: Connecticut		
Province: _____		
* Country: USA: UNITED STATES		
* Zip / Postal Code: 06106-1379		
e. Organizational Unit:		
Department Name: _____		Division Name: Policy Development & Planning
f. Name and contact information of person to be contacted on matters involving this application:		
Prefix: Mr.		* First Name: John
Middle Name: _____		
* Last Name: Ruckes		
Suffix: _____		
Title: _____		
Organizational Affiliation: _____		
* Telephone Number: 860-418-6384		Fax Number: 860-418-6495
* Email: john.ruckes@ct.gov		

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.):

Entire State

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

State Energy Program Recovery Act (ARRA)

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

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.

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="38,542,000.00"/>
* 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="1,006,200.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="39,548,200.00"/>

* 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.

[Empty text input area for Applicant Federal Debt Delinquency Explanation]

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:

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: TO12569)

Market Title: Geothermal Incentive 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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input checked="" 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 checked="" 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 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 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 checked="" 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 : 65,018,000.00 MBtus

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

Ground-Source Heat Pump Program - This is a new program, which would offer a grant for new or retrofit systems. The grant would be a simple rebate based on SRCC ratings for system capacity. Guidelines will be established for determining the maximum size of the system that will be incented for each site. Although the program will be open to all residential and non-residential entities, it is expected that the majority of the installations will be in homes, particularly in the first two years of the program, owing to the time required to properly plan, engineer and construct a commercial project.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Installations completed	600

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$5,000,000.00
Other	
Utility companies	
Market Budget Total	\$5,000,000.00

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: TO12569)

Market Title: Geothermal Incentive Program

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: TO12569)

Market Title: Solar Thermal

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 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 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 checked="" 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 checked="" 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 : 37,783,000.00 MBtus

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

Solar Thermal Program - This is a new program, aimed at homeowners and business owners who wish to supplement their existing (or planned) domestic hot water (DHW) systems with solar collectors. A simple rebate program providing an incentive is expected to provide 1,750 new projects, primarily residential, over the first two years. The program would be open to all customers currently using gas, oil or electricity for DHW, and to builders planning to use these fuels for their planned DHW systems.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 # of projects	1,000

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$4,000,000.00
Other	
Utility companies	
Market Budget Total	\$4,000,000.00

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: TO12569)

Market Title: Solar Thermal

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: TO12569)

Market Title: Fuel Cell Program

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input checked="" 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 checked="" 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 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 : 169,232,000.00 MBtus

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

This grant program would support the installation of fuel cells in appropriate applications where a minimum of 50% of the waste heat is utilized. The funding would extend the current On-Site Distributed Generation Program, under the same incentive structure.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Completed Fuel Cell Projects	14

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$8,000,000.00
Other	\$173,100.00
Utility companies	
Market Budget Total	\$8,173,100.00

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: TO12569)

Market Title: Fuel Cell Program

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: TO12569)

Market Title: Solar PV 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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 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 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 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 : 16,530,000.00 MBtus

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

This grant program would be open to all Connecticut residential and commercial customers, and run under the same rules as the Solar Rebate Program for homeowners and the On-Site Renewable DG Program for commercial entities. A grant of up to \$2,000/kWPTC would be awarded, subject to performance adjustments. It is expected that most not-for-profit applications will be submitted to the existing OSDG Program, which offers substantially higher incentives to compensate for the inability to take advantage of federal tax credits.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Projects completed	300

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$3,000,000.00
Other	\$173,100.00
Utility companies	
Market Budget Total	\$3,173,100.00

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: TO12569)

Market Title: Solar PV Program

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: TO12569)

Market Title: Home Energy Solutions

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input checked="" 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 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 checked="" 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 checked="" 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 type="checkbox"/> Low-income Weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input checked="" 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 : 334,900,000.00 MBtus

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

Residents can lower their energy bill with just one, in-home visit. A specialist will perform an energy assessment of the home, find and professionally seal critical leaks and drafts, replace incandescent bulbs with compact fluorescents lamps, provide and install water conservation devices and check insulation and appliances. Residents may also receive valuable rebate forms (including rebates for geothermal system performance and for the installation of high-efficiency central air conditioning and heat pump systems), and information on additional energy-saving measures. There is a low, \$75 charge for this program for customers who heat their homes with electricity or natural gas. Typically, Oil-heat customers can also participate for \$300 but with the addition of ARRA funds, oil heat customers will be able to participate for \$75.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	# households completed	8,100

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: TO12569)

Market Title: Home Energy Solutions

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$6,250,000.00
Other	
Utility companies	
Market Budget Total	\$6,250,000.00
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: TO12569)

Market Title: Small Business Energy Advantage

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input checked="" 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 checked="" 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 checked="" 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 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 type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income Weatherization	<input checked="" type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input checked="" type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input checked="" 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 : 350,412,400.00 MBtus

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

Small Business Energy Advantage is a program that provides direct customer services which include no-obligation energy assessments, cash incentives and zero-percent financing for qualified customers to implement upgrades in areas such as (but not limited to) lighting and refrigeration.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	# projects completed	417

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$2,875,000.00
Other	
Utility companies	
Market Budget Total	\$2,875,000.00

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: TO12569)

Market Title: Small Business Energy Advantage

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: TO12569)

Market Title: Energy Opportunities-Commercial and Industrial

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 checked="" 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 checked="" 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 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 checked="" type="checkbox"/> Industrial processing	<input checked="" 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 checked="" type="checkbox"/> Energy and environment	<input checked="" type="checkbox"/> Low-income Weatherization	<input checked="" type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input checked="" type="checkbox"/> Manufacturing	<input checked="" 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 : 572,920,000.00 MBtus

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

The Energy Opportunities (EO) program helps businesses maximize electric and natural gas savings including retrofits to lighting, motors and controls and HVAC equipment. The objective of this program is to improve the energy efficiency of a customer's existing facility by capturing retrofit opportunities. These opportunities are realized by: 1) exchanging functioning yet inefficient equipment with high-efficiency equipment; 2) retrofitting existing equipment with energy-saving devices, modifications, or controls; and 3) improving a facility's performance.

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Projects completed	153

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$3,375,000.00
Other	
Utility companies	
Market Budget Total	\$3,375,000.00

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: TO12569)

Market Title: Energy Opportunities-Commercial and Industrial

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: TO12569)

Market Title: State Building Energy Improvements

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 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 type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input checked="" 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 type="checkbox"/> Manufacturing	<input checked="" type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input checked="" 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 : 300,000,000.00 MBtus

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

The State of Connecticut will implement a variety of projects within state-owned buildings to reduce energy consumption and obtain efficiencies for energy that is consumed. The State Department of Public Works will be responsible for identification and implementation of specific projects. Under this program activity:

- Existing lighting systems will be replaced with more energy efficient systems and lighting controls will be installed.
- Lower power variable frequency drive motors will replace existing motors.
- Energy management systems (EMS) will be installed or upgraded.
- Through building energy audits and commissioning/re-commissioning, improvements to heating, ventilation, and air conditioning (HVAC) systems will be made, such as economizers, dampers, and EMS controls.
- Boiler and burner replacements and upgrades will be made.
- Other energy measures may be considered on a case-by-case basis.

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: TO12569)

Market Title: State Building Energy Improvements

7. Program Year Milestones* :

Milestone	Planned (Number)
1 Number of State Facilities receiving Energy Improvements	5

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$5,000,000.00
Other	
Utility companies	
Market Budget Total	\$5,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

*Please use additional pages if more space is needed.

**Mandatory requirement

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: TO12569)

Market Title: Building Code Training & Compliance

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 checked="" type="checkbox"/> Residential buildings
<input checked="" 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 checked="" 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 type="checkbox"/> Low-income Weatherization	<input type="checkbox"/> Waste management and recycling
<input checked="" 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 : 152,000,000.00 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: TO12569)

Market Title: Building Code Training & Compliance

The State Building Inspector and the Codes and Standards Committee will continue the process of adopting the 2009 International Energy Conservation Code (IECC) Code including adoption of the ANSI/ASHRAE/IESNA Standard 90.1-2007.

The update of the Energy Code portion of the State Building Code to the 2009 IECC including and Connecticut Amendments will meet or exceed the 2009 IECC and ANSI/ASHRAE/IESNA Standard 90.1-2007 code requirements for residential buildings and commercial buildings

The Office of Education and Data Management (OEDM) will be responsible for the development, coordination, sponsorship and presentation of Energy Code training programs throughout the state for the new updated to the Energy Portion of the State Building Code.

The Connecticut Building Code Enforcement Pre-Licensure Training Program shall be revised to incorporate requirements from the American Recovery Act and Reinvestment Act of 2009 along with the updated 2009 IECC and ASHRAE 90.1-2007.

The Connecticut Building Code Enforcement Licensure Examination and Test Banks will be updated with questions associated with the 2009 IECC and ASHRAE 90.1-2007.

OEDM will continue to work with, establish partnerships with organizations such as the Connecticut Institute for Sustainable Energy, Northeast Energy Efficiency Partnerships, Inc., AIA Connecticut, professional construction associations and building trade associations/unions, to promote the knowledge and understanding associated with the implementation of and compliance with the Energy Code portion of the State Building Code.

OEDM will work with the local building code enforcement officials, potential partners, and other Connecticut State Agencies in developing an annual measurement system that will incorporate the evaluation of the rate of compliance with the Energy Code portion of the State Building Code. Implementation of this IECC 2009 code is anticipated for late 2011.

Mandatory Measure-
Through the adoption and implement of the updates to the Energy Code Portion of the State Building Code mandatory thermal efficiency standards for new and renovated buildings will continue in the State of Connecticut.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	State Building Inspector and the Codes and Standards Committee meetings to develop and adopt the updated Energy Codes	8
2	Implementation of the updated Energy Code Portion of the State Building Code including 2009 IECC in late 2011.	1
3	Distribution of a baseline needs assessment and energy code compliance survey to the 169 local Connecticut building official offices including the development of survey and analysis of results.	169
4	Update OEDM Energy Code Training Programs using new energy conservation code and information from the baseline needs assessment.	1
5	Energy Code related training programs offered to building officials, design professionals, construction trade professionals and the construction industry.	24
6	Evaluation of updated energy code training programs and modification as needed.	24
7	Distribution of a year end needs assessment and energy code compliance survey to the 169 local Connecticut building official offices including the development of survey and analysis of results	169
8	Development of an annual measurement system that will incorporate the evaluation of the rate of compliance with the Energy Code portion of the State Building Code.	1

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$300,000.00
Other	
Utility companies	
Market Budget Total	\$300,000.00
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: TO12569)

Market Title: Clean Cities

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"/> Transportation

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 checked="" type="checkbox"/> Alternative Fuels	<input type="checkbox"/> Federal, state and local facilities	<input checked="" 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 checked="" type="checkbox"/> Clean Cities	<input checked="" 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 checked="" 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 : 0.00 MBtus

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

The Clean Cities program focuses on the utilization of petroleum reduction technologies in the transportation sector. This includes alternatively fueled vehicles and infrastructure, idling reduction technologies, and education and outreach on these technologies. There are four designated Clean Cities Coalitions in Connecticut: Greater New Haven, Clean Cities of Southwestern Connecticut, Norwich Clean Cities, and Capital Clean Cities.

The SEP-ARRA Recovery funding is intended to provide support to all four coalitions to enable them to continue to facilitate the growth of alternate fuels and petroleum reducing technologies in Connecticut.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	# of alternatively fueled vehicles placed in service	50
2	# of fueling infrastructure additions/improvements	3

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: TO12569)

Market Title: Clean Cities

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$200,000.00
Other	
Utility companies	
Market Budget Total	\$200,000.00
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: TO12569)

Market Title: Building Operator Training

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings <input 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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input 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 checked="" 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 type="checkbox"/> Geothermal <input 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 checked="" type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input checked="" 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 checked="" type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input checked="" type="checkbox"/> Schools <input type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input checked="" 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 checked="" type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 49,400,000.00 MBtus

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

The BOC (Building Operators Certification) course provides training to building facilities management personnel to help them improve operations, and includes strong energy and water savings components.

BOC Training consists of Level 1 (eight full-day sessions) and Level 2 (seven full-day sessions). We will offer both Level 1 and Level 2 (The number of each TBD).

Over the next 3 years a total of 7 training courses will be provided, with 30 participants for each training session, or around 240 students. It would be made available to State and Municipal Employees.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	# of BOC Courses	7

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: TO12569)

Market Title: Building Operator Training

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$250,000.00
Other	
Utility companies	
Market Budget Total	\$250,000.00
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: TO12569)

Market Title: ARRA Administration

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: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

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 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 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 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 : 0.00 MBtus

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

OPM staff will oversee sub-recipient agreements and ensure timely reporting as required under ARRA. This may include field visits to sub-recipients to ensure compliance with ARRA requirements. Staff will collect and compile reports for submittal to the Dept. of Energy

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	Quarterly Progress reports	12
2	Field inspections	24

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$292,000.00
Other	
Utility companies	
Market Budget Total	\$292,000.00

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET
(Grant Number: TO12569)

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

Market Title: ARRA Administration

b. Leveraged funds anticipated (outside approved budget)	

Recovery Ramp-Up

Introduction

The Connecticut Office of Policy and Management (OPM) is well positioned to quickly and efficiently expand our energy activities. OPM has been involved in administering sub-grants and contracts through the State Energy Program (SEP) and SEP Special Projects for a number of years. While our primary focus has been on energy efficiency and renewable energy programs, our mission over the past several years has been to work with a number of other state agencies and private entities to integrate climate change activities into our SEP program. With these monies, we will broaden our focus to emphasize those activities that will create and retain jobs. We have discussed these goals with our sub-recipients. As soon as our Notice of Financial Assistance Award is issued, we are ready to expedite contractual arrangements with our sub-recipients to get the funds flowing quickly.

We are committed to the goal of using existing program infrastructure to be able to deliver programs quickly and efficiently. As such, we will supplement existing programs and in some cases, create new programs with entities that already are delivering energy efficiency and renewable energy services.

Job Creation, Energy Saved, and Greenhouse Gas Reductions

A recently completed study on energy efficiency programs indicated that more than 14 direct jobs and 22 indirect jobs are created per \$1 million spent on energy efficiency programs in CT. The figures in the following table are based on this information and estimates of energy savings or clean energy generated.

Program	Estimate of Energy Saved/Created- MMBTUs	Jobs created- Direct/Indirect	Greenhouse Gas Reductions-Tons
Building Code Training and Compliance	152,000	5/7	1216
Building Operator Training	49,400	3/5	375
Clean Cities	0	2/4	
Energy Opportunities- Commercial and Industrial	572,920	47/76	4380
Fuel Cell Program	169,232	112/176	1500
Geothermal Incentive Program	65,018	70/110	494
Home Energy Solutions	334,900	87/137	2510
Small Business Energy Advantage	350,412	40/64	3140
Solar PV Program	16,530	42/66	132
Solar Thermal	37,783	56/88	306
State Building Energy Improvements	300,000	70/110	2370
TOTALS	2,048,195	534/843	16,423

Funding levels and commitment to expand and not to supplant

The Governor, the Connecticut Office of Policy and Management, and its sub-recipients all understand that funds are only to be used to supplement, and not to supplant, existing program funds. As such, we have prepared the following table as directed in the grant solicitation. Please pay particular attention to the Notes.

Funding Levels

Program	Funding Level 2008	Planned Funding 2009*	Planned Funding 2010*	ARRA Allocation
Building Code Training and Compliance	0	0	0	300,000
Building Operator Training	90,562	31,100	0	250,000
Clean Cities	0	0	0	200,000
Energy Opportunities-Commercial and Industrial	34,155,231	14,353,278	18,455,639	3,375,000
Fuel Cell Program	2,190,000	3,000,000	3,000,000	8,000,000
Geothermal Incentive Program	0	0	0	5,000,000
Home Energy Solutions	9,292,702	14,233,713	19,719,569	6,250,000
Small Business Energy Advantage	13,535,532	10,560,524	14,562,236	2,875,000
Solar PV Program	23,513,000	7,732,500	7,732,500	3,000,000
Solar Thermal	0	0	0	4,000,000
State Building Energy Improvements	0	0	0	5,000,000

*Does not include ARRA dollars

Notes:

1. Building Operator Training in 2008 was the final year of a DOE competitive grant (NT42984). We planned to maintain one course in 2009 through our SEP Base Grant, which is currently in progress. Prior to ARRA funding, no additional courses were planned.
2. Solar PV Program-The Clean Energy Fund had accumulated funding from previous years. All accumulated funds were expended in 2008. For this reason, the planned funding dropped dramatically.
3. Energy Opportunities-Commercial and Industrial and the Small Business Energy Advantage: Because both programs were oversubscribed in 2008, the Department of Public Utilities Control gave authorization to Connecticut Light & Power to spend funds based on anticipated receipts in 2009. As a result, 2008 funding levels are bloated while 2009 levels are lower than they ordinarily would be.

**State of Connecticut
Governor's Assurances**

- (1) The applicable State regulatory authority will seek to implement, in appropriate proceedings for each electric and gas utility, under its rate-making authority a general policy that ensures that utility financial incentives are aligned with helping their customers use energy more efficiently and that provide timely cost recovery and a timely earnings opportunity for utilities associated with cost-effective measurable and verifiable efficiency savings, in a way that sustains or enhances utility customers' incentives to use energy more efficiently.**

In the state of Connecticut, the Connecticut Department of Public Utility Control (DPUC) is the state regulator that has ratemaking authority for state utilities. In its ratemaking function for electric and gas utilities it is pursuing and will continue to pursue a general policy that ensures that utility incentives are aligned with helping their customers use energy more efficiently and provide timely cost recovery and timely earnings opportunities for utilities associated with cost effective measurable and verifiable energy efficient savings in a way that sustains and enhances utility customers' incentives to use energy more efficiently.

In 2007, the Connecticut General Assembly adopted, Public Act 07-242, *An Act Concerning Electricity and Energy Efficiency* (Act). In Section 107 of the Act, the DPUC is required to implement decoupling of distribution revenues from the volume of electricity sales. The Act further requires the Department to achieve decoupling through one of the following means, either singly or in combination: 1) a mechanism that adjusts actual distribution revenues to allowed distribution revenues; 2) rate design changes that increase the amount of revenue recovered through fixed distribution charges; or 3) a sales adjustment clause and/or rate design changes that increase the amount of revenue recovered through fixed distribution charges. On February 4, 2009 the DPUC issued its first rate decision since the adoption of the Act, ordering 'decoupling' for United Illuminating, one of Connecticut's two non-municipal electric distribution companies. It will be the general policy of the DPUC to follow the Act in any future electric rate cases brought before the DPUC.

It has also been the long-standing policy of the Connecticut DPUC to engage in a similar review for regulated gas utilities. Connecticut has for many years issued rate decisions that provided gas utilities financial incentives aligned with helping customers use energy more efficiently. At present, rate cases with two of our states' three gas utilities are pending before the DPUC and 'decoupling' has been an integral part of the hearings held on the rate petitions of those companies. The decisions in those two cases will be issued by the end of the summer of 2009. It will be the general policy of the DPUC to continue to pursue and enhance these actions in future gas rate cases brought before the DPUC.

- (2) The State, or the applicable units of local government that have authority to adopt building codes, will implement the following:**

(A) A residential building energy code (or codes) that meets or exceeds the most recent International Energy Conservation Code, or achieves equivalent or greater energy savings.

(B) A commercial building energy code (or codes) throughout the State that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1–2007, or achieves equivalent or greater energy savings.

(C) A plan to achieve 90 percent compliance with the above energy codes within eight years. This plan will include active training and enforcement programs and annual measurement of the rate of compliance.

Under Connecticut General Statutes Section 29-252, the State Building Inspector and the Codes and Standards Committee shall, jointly, with the approval of the Commissioner of Public Safety, adopt and administer the State Building Code. Under C.G.S Section 29-256a, the building code shall require that buildings and building elements be designed to provide optimum cost effective energy efficiency over the life of the building

The State of Connecticut, in compliance with this statute, has been consistently following the procedure of adopting a State Building Code with regularity since 1971.

The Division of Fire, Emergency and Building Services within the State of Connecticut, Department of Public Safety, is divided into four offices including the Office of State Building Inspector, the Office of State Fire Marshal, the Office of Statewide Emergency Telecommunications and the Office of Education and Data Management. The Office of State Building Inspector and the Office of Education and Data Management will lead the division in the implementation of the State of Connecticut's Energy Code assurance requirements.

(A) A building energy code (or codes) for residential buildings that meets or exceeds the most recently published International Energy Conservation Code or achieves equivalent or greater energy savings.

In the fall of 2008 the State Building Inspector and the Codes and Standards Committee began the process of adopting the 2009 International Energy Conservation Code (IECC) Code including adoption of the ANSI/ASHRAE/IESNA Standard 90.1-2007. Implementation of this IECC 2009 code is anticipated for late 2011. This planned implementation will update the Energy Code portion of the State Building Code from the 2006 IECC, including the ANSI/ASHRAE/IESNA Standard 90.1-2004 to the 2009 IECC. Additional Connecticut Amendments will be incorporated which will meet or exceed the 2009 IECC code requirements for residential buildings.

The process for adoption of the latest version of the International Energy Conservation Code may take between twelve and eighteen months. This adoption process includes multiple regulatory state agency reviews and approvals prior to implementation.

(B) A building energy code (or codes) for commercial buildings throughout the State that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1-2007, or achieves equivalent or greater energy savings.

The Energy Code Portion of the State Building Code will meet or exceed ANSI/ASHRAE/IESNA Standard 90.1-2007 with the adoption and implementation of the 2009 International Energy Conservation Code with Connecticut Amendments as discussed in (2) (A).

(C) A plan to achieve 90 percent compliance with the above energy codes within eight years. This plan will include active training and enforcement programs and annual measurement of the rate of compliance.

(i)

In 1998, the Office of Education and Data Management (OEDM) was established within the Division of Fire, Emergency and Building Services as part of a comprehensive plan to promote and achieve uniform state building code enforcement and compliance. This Office supports the Energy Code portion of the State Building Code throughout the State of Connecticut by providing training on a regular basis to licensed code officials/inspectors along with outreach training to the building trades and design professionals. The Office is financially supported by a dedicated "Code Education Fund" through an assessment on building permit fees incurred by Connecticut's 169 municipalities.

(ii)

Together with the Office of the State Building Inspector, in 2000 OEDM implemented a pre-licensure building code enforcement training program for new code enforcement officials within the state. This training program currently incorporates comprehensive training on the International Energy Conservation Code for residential and commercial buildings and the ANSI/ASHARE/IESNA Standard 90.1 for commercial buildings. The Building Code Enforcement Pre-Licensure Training Program shall be revised to incorporate requirements from the American Recovery Act and Reinvestment Act of 2009 along with the updated 2009 IECC and ASHRAE 90.1-2007.

(iii)

Together with the Office of the State Building Inspector, in 1999 OEDM implemented annual career development training programs for existing building code enforcement officials. These programs regularly incorporated training on the residential and commercial building construction issues of the Energy Code portion of the State Building Code. These energy code training programs shall be updated to the requirements in the 2009 International Energy Conservation Code for residential and commercial buildings and in the ANSI/ASHARE/IESNA Standard 90.1 -2007 for commercial buildings.

(iv)

OEDM will continue to work with and establish partnerships with organizations such as the Connecticut Institute for Sustainable Energy, Northeast Energy Efficiency Partnerships, Inc., AIA Connecticut, professional construction associations and building trade associations/unions, to promote the knowledge and understanding associated with the implementation of and compliance with the Energy Code portion of the State Building Code.

(v)

OEDM will work with the local building code enforcement officials, potential partners, and other Connecticut State Agencies in developing an annual measurement system that will incorporate the evaluation of the rate of compliance with the Energy Code portion of the State Building Code. This monitoring system may include but not be limited to various resources, such as an Energy Code compliance survey with municipal code officials or other systematic approach of building permit audits for energy code compliance. This system, along with any additional training needs, will be supported utilizing a small portion of ARRA funds.

(3) The State will to the extent practicable prioritize the grants toward funding energy efficiency and renewable energy programs, including—

- (A) the expansion of existing energy efficiency programs approved by the State or the appropriate regulatory authority, including energy efficiency retrofits of buildings and industrial facilities, that are funded by the State or through rates under the oversight of the applicable regulatory authority, to the extent applicable;**
- (B) the expansion of existing programs, approved by the State or the appropriate regulatory authority, to support renewable energy projects and deployment activities, including programs operated by entities which have the authority and capability to manage and distribute grants, loans, performance incentives, and other forms of financial assistance; and**
- (C) cooperation and joint activities between States to advance more efficient and effective use of this funding to support the priorities described in this section.**

(A) The State of Connecticut intends to use existing infrastructure developed for the delivery of energy efficiency programs in the state. The Connecticut Energy Efficiency Fund (CEEF), overseen by the Energy Conservation Management Board (ECMB), is funded through ratepayer funds. Actual program delivery is overseen by the electric utility companies: United Illuminating (UI) and Connecticut Light and Power (CL&P). In areas of the state served by municipal utilities, the Connecticut Municipal Electric Energy Cooperative (CMEEC) implements similar programs. The State will expand programs that are operated by these entities. For example, while UI, CL&P, and CMEEC focus primarily on electric efficiency, (and to a lesser extent, natural gas efficiency), ARRA funds will be used in part to expand the universe to address fuel oil efficiency measures. Among the suite of programs through the above-mentioned entities, we expect to focus on particular programs that address the following sectors: residential audits/measure installation, small business retrofits, and commercial/industrial retrofits.

(B) The Connecticut Clean Energy Fund (CEF) is a ratepayer-based fund focused on the use of renewable sources of energy to reduce reliance on imported energy, enhance market demand for renewable energy, and develop the renewable industry in Connecticut. The organization has several ongoing programs focused on energy production, including solar PV, fuel cells, biomass, and a small wind demonstration program. The State of Connecticut plans to utilize the CEF to expand existing activities (PV, fuel cells). Funding will also be utilized to address new sectors that have considerable demand, but have not been funded to date. These programs will be a solar

thermal program as well as a geothermal program. Both programs will target the residential and commercial sectors.

(C) Because the Department of Energy strongly encourages the use of existing infrastructure to deliver efficiency/renewable programs under this grant, and those programs are specific to Connecticut, there are limited opportunities for cooperative activities between neighboring states. However, through our Clean Cities coalitions, we have partnered with Ocean State Clean Cities (Rhode Island), and plan to continue to do so.

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. Amendment number:	TO12569 A000	2. Program/Project Title State Energy Program
3. Name and Address	Connecticut Office of Policy a 450 Capital Avenue MS 52 ENR Hartford CT 06106-1379	4. Program/Project Start Date 04/01/2009
		5. Completion Date 03/31/2012

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		\$ 38,542,000.00		\$ 38,542,000.00
2. GRANTEE			\$ 0.00		\$ 0.00	\$ 0.00
3. OTHER			\$ 0.00		\$ 346,200.00	\$ 346,200.00
4. UTILITY			\$ 0.00		\$ 660,000.00	\$ 660,000.00
5. TOTALS		\$ 0.00	\$ 0.00	\$ 38,542,000.00	\$ 1,006,200.00	\$ 39,548,200.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) Utility Companies	(2) OTHER (ratepayer funds thru	(3) DOE	(4)	
a. Personnel	\$ 0.00	\$ 0.00	\$ 137,275.68		\$ 137,275.68
b. Fringe Benefits	\$ 0.00	\$ 0.00	\$ 74,019.06		\$ 74,019.06
c. Travel	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
d. Equipment	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
e. Supplies	\$ 0.00	\$ 0.00	\$ 7,642.39		\$ 7,642.39
f. Contractual	\$ 660,000.00	\$ 346,200.00	\$ 38,250,000.00		\$ 39,256,200.00
g. Construction	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
h. Other	\$ 0.00	\$ 0.00	\$ 7,500.00		\$ 7,500.00
i. Total Direct Charges	\$ 660,000.00	\$ 346,200.00	\$ 38,476,437.13		\$ 39,482,637.13
i. Indirect Charges	\$ 0.00	\$ 0.00	\$ 65,562.87		\$ 65,562.87
k. Totals	\$ 660,000.00	\$ 346,200.00	\$ 38,542,000.00		\$ 39,548,200.00
7. Program Income	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00

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



BUDGET EXPLANATION FOR FORMULA GRANTS

Applicant: Connecticut Office of Policy a

Budget period: 04/01/2009 - 03/31/2012

Award number: TO12569

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>
Lead Planning Analyst (5% in each of three years for a total of 15%)	Management of grants pertaining to state facility energy efficiency programs
Policy Development Coordinator (5% in each of three years for a total of 15%)	Grant management administration and oversight. Will be the lead person in administration and oversight of renewable programs and state facility efficiency programs under ARRA
Policy Development Coordinator (5% in each of three years for a total of 15%)	Grant management administration and oversight. Will be the lead person in administration and oversight of utility energy efficiency programs
Planning Specialist (20% in each of three years for a total of 60%)	Management of State Energy Program grants; will be responsible for the program management for SEP ARRA funds. Will provide management oversight for Clean Cities activities.
Purchase of Service Policy Manager (5% in each of three years for a total of 15%)	Management of grants; will provide assistance to State Energy Program Manager; will be responsible for arranging Building Operator Training.
Research Analyst (5% in each of three years for a total of 15%)	Management of grants. Will provide grant management oversight of the Department of Public Safety.
Director (5% in each of three years for a total of 15%)	Administers and oversees and manages the general operation of the staff of the Energy Unit at OPM. Works closely with the Governor's office on energy issues. Will provide oversight for all ARRA funds flowing into OPM.

Direct Personnel Compensation:

<u>Position</u>	<u>Salary/Rate</u>	<u>Time</u>	<u>Direct Pay</u>
Lead Planning Analyst (5% in each of three years for a total of 15%)	\$88,824.00	15 % FT	\$13,323.60
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$114,034.00	15 % FT	\$17,105.10
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$86,189.28	15 % FT	\$12,928.39
Planning Specialist (20% in each of three years for a total of 60%)	\$102,425.04	60 % FT	\$61,455.02
Purchase of Service Policy Manager (5% in each of three years for a total of 15%)	\$71,448.00	15 % FT	\$10,717.20
Research Analyst (5% in each of three years for a total of 15%)	\$13,019.76	15 % FT	\$1,952.96
Director (5% in each of three years for a total of 15%)	\$131,956.00	15 % FT	\$19,793.40
		Direct Pay Total	\$137,275.67

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.

Fringe Benefits Calculations

Position	Direct Pay	Rate	Benefits
Lead Planning Analyst (5% in each of three years for a total of 15%)	\$13,323.60	53.92 %	\$7,184.09
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$17,105.10	53.92 %	\$9,223.07
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$12,928.39	53.92 %	\$6,970.99
Planning Specialist (20% in each of three years for a total of 60%)	\$61,455.02	53.92 %	\$33,136.55
Purchase of Service Policy Manager (5% in each of three years for a total of 15%)	\$10,717.20	53.92 %	\$5,778.71
Research Analyst (5% in each of three years for a total of 15%)	\$1,952.96	53.92 %	\$1,053.04
Director (5% in each of three years for a total of 15%)	\$19,793.40	53.92 %	\$10,672.60
		Fringe Benefits Total	\$74,019.05

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

a. Proposed travel:

Purpose of Trip	Number of Trips	Cost Per Trip	Total
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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:

Equipment	Unit Cost	Number	Total Cost	Justification of Need
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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:

General Category	Cost	Justification of Need
office supplies, paper, toner, file folders, etc.	\$7,642.39	basic office needs estimated over the course of three years
Materials and Supplies Total	\$7,642.39	

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 numbe is listed.

Name of Proposed Sub	Total Cost	Basis of Cost*
----------------------	------------	----------------

Connecticut Clean Energy Fund (CEF) (includes \$346,200 in-kind cost share)	\$20,346,200.00	Based on costs of establishing two new programs and supplementing two existing programs
Connecticut Light and Power (includes \$522,000 in-kind cost share)	\$9,722,000.00	Based on supplementing existing programs to make programs "fuel blind"
United Illuminating (includes \$138,000 in-kind cost share)	\$2,438,000.00	Based on supplementing existing programs to make programs "fuel blind"
Connecticut Municipal Electrical Energy Cooperative	\$1,000,000.00	Based on supplementing existing programs for residential and the commercial industrial sectors
CT Department of Public Works	\$5,000,000.00	Based on a project list of over 5 million dollars
CT Department of Public Safety	\$300,000.00	Based on an estimate from the Dept. of Public Safety on the need for additional training and compliance activities
Northwest Energy Efficiency Council	\$250,000.00	Estimate based on historical experience
Greater New Haven Clean Cities	\$50,000.00	To cover ongoing activities over the grant period
Capital Clean Cities	\$50,000.00	To cover ongoing activities over the grant period
Norwich Clean Cities	\$50,000.00	To cover ongoing activities over the grant period
Clean Cities of SW Connecticut	\$50,000.00	To cover ongoing activities over the grant period
Contracts and Subgrants Total	\$39,256,200.00	

*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>
Room Rental	\$7,500.00	Estimate of need for Building Operator Training, based on 50 sessions at \$150/day room rental
Other Direct Costs Total	\$7,500.00	

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.
Department of Energy

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: MaryAnn Palmarozza Phone Number: (860)418-6360

Indirect costs calculations:

<u>Indirect Cost Account</u>	<u>Direct Total</u>	<u>Indirect Rate</u>	<u>Total Indirect</u>
Total Salaries	\$137,275.68	47.76 %	\$65,562.86
		Indirect Costs Total	\$65,562.86

Budget Information - Non Construction Programs

Section A - Budget Summary		Estimated Unobligated Funds			New or Revised Budget		Total (g)
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)		
1. SEP-ARRA	81.041			\$20,000,000		\$20,000,000	
2. CT Clean Energy Fund					\$346,200	\$346,200	
3.						\$0	
4.						\$0	
5. Totals		\$0	\$0	\$20,000,000	\$346,200	\$20,346,200	
Section B - Budget Categories							
6. Object Class Categories	(1) DOE	(2) CT Clean Energy Fund (3)		(4)	Grant Program, Function or Activity		Total (5)
		Federal	Non-Federal		Federal	Non-Federal	
a. Personnel		\$520,000	\$140,000			\$660,000	
b. Fringe Benefits		\$288,000	\$77,000			\$365,000	
c. Travel		\$40,000	\$4,000			\$44,000	
d. Equipment						\$0	
e. Supplies						\$0	
f. Contractual		\$19,058,400	\$100,000			\$19,158,400	
g. Construction						\$0	
h. Other						\$0	
i. Total Direct Charges (sum of 6a-6h)		\$19,906,400	\$321,000	\$0	\$0	\$20,227,400	
j. Indirect Charges		\$93,600	\$25,200			\$118,800	
k. Totals (sum of 6i-6j)		\$20,000,000	\$346,200	\$0	\$0	\$20,346,200	
7. Program Income						\$0	

Section C - Non-Federal Resources					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals	
8. Connecticut Clean Energy Fund (in-kind)	\$346,200				\$346,200
9.					\$0
10.					\$0
11.					\$0
12. Total (sum of lines 8 - 11)	\$346,200	\$0	\$0		\$346,200

Section D - Forecasted Cash Needs					
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Total for 1st Year					
13. Federal	\$500,000	\$800,000	\$1,700,000		\$2,000,000
14. Non-Federal	\$15,000	\$20,000	\$30,000		\$35,000
15. Total (sum of lines 13 and 14)	\$515,000	\$820,000	\$1,730,000		\$2,035,000

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project					
(a) Grant Program	Future Funding Periods (Years)				(e) Fourth
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. SEP-ARRA	\$8,500,000	\$6,500,000			
17. CT Clean Energy Fund	\$146,200	\$100,000			
18.					
19.					
20. Total (sum of lines 16-19)	\$8,646,200	\$6,600,000	\$0		\$0

Section F - Other Budget Information	
21. Direct Charges	55%
22. Indirect Charges	18%

Indirect consists of Rent Utilities Insurance (10.7%); Telephone, Computer Operations, other office expenses 7.3%

Indirect consists of additional administrative costs for expansion of existing programs.



STATE OF CONNECTICUT
Office of Policy and Management

Davis Bacon Act Requirements

The Office of Policy and Management will incorporate into all sub-grant awards made under this application language that will ensure compliance as may be necessary with Davis Bacon Act requirements.

To the extent necessary, additional reporting requirements will be incorporated to document compliance with applicable federal law.

Raymond L. Wilson
Director – Energy Research & Policy Development
4/23/2009

A handwritten signature in black ink, appearing to read 'Raymond L. Wilson', written over a horizontal line.