

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

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Move Form to Complete

Move Form to Delete

Mandatory Documents for Submission

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

Optional Documents

Disclosure of Lobbying Activities (SF-LLL)
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Move Form to Submission List

Move Form to Delete

Optional Documents for Submission

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Instructions

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

 - This application can be completed in its entirety offline; however, you will need to login to the Grants.gov website during the submission process.
 - You can save your application at any time by clicking the "Save" button at the top of your screen.
 - The "Save & Submit" button will not be functional until all required data fields in the application are completed and you clicked on the "Check Package for Errors" button and confirmed all data required data fields are completed.
- Open and complete all of the documents listed in the "Mandatory Documents" box. Complete the SF-424 form first.

 - It is recommended that the SF-424 form be the first form completed for the application package. Data entered on the SF-424 will populate data fields in other mandatory and optional forms and the user cannot enter data in these fields.
 - The forms listed in the "Mandatory Documents" box and "Optional Documents" may be predefined forms, such as SF-424, forms where a document needs to be attached, such as the Project Narrative or a combination of both. "Mandatory Documents" are required for this application. "Optional Documents" can be used to provide additional support for this application or may be required for specific types of grant activity. Reference the application package instructions for more information regarding "Optional Documents".
 - To open and complete a form, simply click on the form's name to select the item and then click on the => button. This will move the document to the appropriate "Documents for Submission" box and the form will be automatically added to your application package. To view the form, scroll down the screen or select the form name and click on the "Open Form" button to begin completing the required data fields. To remove a form/document from the "Documents for Submission" box, click the document name to select it, and then click the <= button. This will return the form/document to the "Mandatory Documents" or "Optional Documents" box.
 - All documents listed in the "Mandatory Documents" box must be moved to the "Mandatory Documents for Submission" box. When you open a required form, the fields which must be completed are highlighted in yellow with a red border. Optional fields and completed fields are displayed in white. If you enter invalid or incomplete information in a field, you will receive an error message.
- Click the "Save & Submit" button to submit your application to Grants.gov.

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

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): <input type="text"/> * Other (Specify) <input type="text"/>
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* 3. Date Received: <input type="text" value="Completed by Grants.gov upon submission."/>	4. Applicant Identifier: <input type="text"/>
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5a. Federal Entity Identifier: <input type="text"/>	* 5b. Federal Award Identifier: <input type="text"/>
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State Use Only:

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

* a. Legal Name: <input type="text" value="Connecticut Office of Policy and Management"/>	
* b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text" value="06-0666798"/>	* c. Organizational DUNS: <input type="text" value="807853015"/>

d. Address:

* Street1:	<input type="text" value="450 Capitol Avenue, MS 52ENR"/>
Street2:	<input type="text"/>
* City:	<input type="text" value="Hartford"/>
County:	<input type="text"/>
* State:	<input type="text" value="CT: Connecticut"/>
Province:	<input type="text"/>
* Country:	<input type="text" value="USA: UNITED STATES"/>
* Zip / Postal Code:	<input type="text" value="06106-1379"/>

e. Organizational Unit:

Department Name: <input type="text"/>	Division Name: <input type="text"/>
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f. Name and contact information of person to be contacted on matters involving this application:

Prefix: <input type="text" value="Mr."/>	* First Name: <input type="text" value="John"/>	
Middle Name:	<input type="text"/>	
* Last Name:	<input type="text" value="Ruckes"/>	
Suffix:	<input type="text"/>	
Title:	<input type="text"/>	
Organizational Affiliation: <input type="text"/>		
* Telephone Number: <input type="text" value="860-418-6384"/>	Fax Number: <input type="text"/>	
* Email: <input type="text" value="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"/>
* c. State	<input type="text"/>
* d. Local	<input type="text"/>
* e. Other	<input type="text" value="1,006,200.00"/>
* f. Program Income	<input type="text"/>
* 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]

Other Attachment File(s)

* Mandatory Other Attachment Filename:

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

Project/Performance Site Location(s)

Project/Performance Site Primary Location I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

* Street1:

Street2:

* City: County:

* State:

Province:

* Country:

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

Project/Performance Site Location 1 I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

* Street1:

Street2:

* City: County:

* State:

Province:

* Country:

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

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. Standard metrics (required)**

JOB METRICS	Planned
Total Jobs	

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned

10. User specified metrics (optional)*

METRICS	Planned

11. 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
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 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. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	0
Jobs Retained	5
Total Jobs	5

9. Specific metric activity (required)**

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(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

SPECIFIC METRICS	Planned
Building Codes and Standards	
Building code adoption	
New and existing buildings covered by new code (IECC 2006; IECC 2009)	28,700

10. User specified metrics (optional)*

METRICS	Planned

11. 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: Building Operator Training

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 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 checked="" type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input 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 checked="" 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 : 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 210 students. It would be made available to State and Municipal Employees.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	# of BOC Courses	7

8. Standard metrics (required)**

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

JOB METRICS	Planned
Jobs Created	0
Jobs Retained	3
Total Jobs	3

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Workshops, Training, and Education	
Workshops, training, and education sessions, by sector	
Number of workshops, training, and education sessions held (INSTITUTIONAL)	7
Number of people attending (INSTITUTIONAL)	210

10. User specified metrics (optional)*

METRICS	Planned

11. 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: 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

8. Standard metrics (required)**

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

JOB METRICS	Planned
Jobs Created	0
Jobs Retained	2
Total Jobs	2

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Transportation	
Alternative fuel vehicles purchased	
Vehicles purchased	50
New alternative refueling stations emplaced	
Stations emplaced	3

10. User specified metrics (optional)*

METRICS	Planned

11. 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: 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"/> Manufacturing	<input checked="" type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Motors and other industrial systems	<input checked="" type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Performance contracting	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Policy and energy legislation	
<input type="checkbox"/> ENERGY STAR		

5. Estimated Annual Energy Savings : 185,580,000.00 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. Standard metrics (required)**

	Planned
JOB METRICS	
Jobs Created	47
Jobs Retained	0
Total Jobs	47

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Building Retrofits	
Buildings retrofitted, by sector	
Buildings retrofitted (COMMERCIAL)	100
Square footage retrofitted (COMMERCIAL)	8,450,000
Buildings retrofitted (INDUSTRIAL)	53
Square footage retrofitted (INDUSTRIAL)	4,785,000

10. User specified metrics (optional)*

METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Total value of investments incentivized, by incentive type and sector	
Total value of investments incentivized (INDUSTRIAL; REBATES)	1,375,000
Total value of investments incentivized (COMMERCIAL; REBATES)	2,000,000

11. 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
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. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	112
Jobs Retained	0
Total Jobs	112

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Renewable Energy Market Development	
Renewable energy systems installed, by energy type	
Number of systems installed (OTHER RENEWABLE ENERGY)	14
Size of systems installed (OTHER RENEWABLE ENERGY)	8,350

10. User specified metrics (optional)*

METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Total value of investments incentivized, by incentive type and sector	
Total value of investments incentivized (INDUSTRIAL; OTHER)	4,000,000
Total value of investments incentivized (INSTITUTIONAL; OTHER)	4,000,000

11. 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
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: 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"/> Biocnergy 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. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	70
Jobs Retained	0
Total Jobs	70

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Renewable Energy Market Development	
Ground source geothermal systems installed	
Number of systems installed	600
Capacity of systems installed	2,984

10. User specified metrics (optional)*

METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Total value of investments incentivized, by incentive type and sector	
Total value of investments incentivized (COMMERCIAL; REBATES)	2,250,000
Total value of investments incentivized (RESIDENTIAL; REBATES)	2,250,000

11. 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)	

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 checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings : 106,218,000.00 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

8. Standard metrics (required)**

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

JOB METRICS	Planned
Jobs Created	87
Jobs Retained	0
Total Jobs	87

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Building Energy Audits	
Building energy audits, by sector	
Audits performed (RESIDENTIAL)	8,100
Floor space audited (RESIDENTIAL)	16,800,000
Auditor's projection of energy savings (RESIDENTIAL)	4,316,000

10. User specified metrics (optional)*

METRICS	Planned

11. 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 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 checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings : 119,176,000.00 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. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	40
Jobs Retained	0
Total Jobs	40

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Building Retrofits	
Buildings retrofitted, by sector	
Buildings retrofitted (COMMERCIAL)	417
Square footage retrofitted (COMMERCIAL)	3,336,000

10. User specified metrics (optional)*

METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Total value of investments incentivized, by incentive type and sector	
Total value of investments incentivized (COMMERCIAL; REBATES)	2,875,000

11. 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
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. Standard metrics (required)**

	Planned
JOB METRICS	
Jobs Created	42
Jobs Retained	0
Total Jobs	42

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Renewable Energy Market Development	
Renewable energy systems installed, by energy type	
Number of systems installed (SOLAR ENERGY)	300
Size of systems installed (SOLAR ENERGY)	1,500

10. User specified metrics (optional)*

METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Total value of investments incentivized, by incentive type and sector	
Total value of investments incentivized (RESIDENTIAL; REBATES)	3,000,000

11. 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
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. Standard metrics (required)**

JOB METRICS	Planned
Jobs Created	56
Jobs Retained	0
Total Jobs	56

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

9. Specific metric activity (required)**

SPECIFIC METRICS	Planned
Renewable Energy Market Development	
Solar thermal systems installed	
Number of systems installed	1,000
Capacity of systems installed	70,000

10. User specified metrics (optional)*

METRICS	Planned
Financial Incentives for Energy Efficiency and Other Covered Investments	
Total value of investments incentivized, by incentive type and sector	
Total value of investments incentivized (RESIDENTIAL; REBATES)	3,600,000

11. 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
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 : 50,000,000.00 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. Standard metrics (required)**

	JOB METRICS	Planned
	Jobs Created	70
	Jobs Retained	0
	Total Jobs	70

9. Specific metric activity (required)**

	SPECIFIC METRICS	Planned
	Building Retrofits	
	Buildings retrofitted, by sector	
	Buildings retrofitted (PUBLIC)	5
	Square footage retrofitted (PUBLIC)	1,250,000

10. User specified metrics (optional)*

	METRICS	Planned

11. 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

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	185,580	47/76	4380
Fuel Cell Program	169,232	112/176	1500
Geothermal Incentive Program	65,018	70/110	494
Home Energy Solutions	106,218	87/137	2510
Small Business Energy Advantage	119,176	40/64	3140
Solar PV Program	16,530	42/66	132
Solar Thermal	37,783	56/88	306
State Building Energy Improvements	50,000	70/110	1180
TOTALS	950,937	534/843	15,233

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.

Computation of rates Total of 53.92% breaks out as follows:

Life	0.03
Medical	12.16
Unemployment	0.09
FICA-Soc. Sec.	6.20
FICA- Medicare	1.45
Retirement	33.99

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:

<u>General Category</u>	<u>Cost</u>	<u>Justification of Need</u>
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 number is listed.

<u>Name of Proposed Sub</u>	<u>Total Cost</u>	<u>Basis of Cost*</u>
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, date of agreement: April 8,2009

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
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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 in a cursive style.

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		Total (g)
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	
1. SEP-ARRA				\$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

Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) DOE	(2) CT Clean Energy Fund	(3)	(4)	
a. Personnel		\$520,000	\$140,000		\$660,000
b. Fringe Benefits (Retirement, Medical, Payroll Tax & UC, Life Ins & ADO)		\$288,000	\$77,000		\$365,000
c. Travel		\$40,000	\$4,000		\$44,000
d. Equipment					\$0
e. Supplies					\$0
f. Contractual - Financial Assistance Agreements and Rebates		\$19,058,400	\$100,000		\$19,158,400
g. Construction					\$0
h. Other - Program Inspectors, Consultants, Training					\$0
i. Total Direct Charges (sum of 6a-6h)		\$19,906,400	\$321,000	\$0	\$20,227,400
j. Indirect Charges (18% of line a) (Rent/Utilities/Ins/Office Supply/Telephone/Computer Ops)		\$93,600	\$25,200	\$0	\$118,800
k. Totals (sum of 6i-j)		\$20,000,000	\$346,200	\$0	\$20,346,200
7. Program Income		\$0	\$0	\$0	\$0

55%

18%

SE-ARRA (Rev. 4-82)
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Section C - Non-Federal Resources

(a) Grant Program	(b) Applicant	(c) State				(d) Other Sources	(e) Totals
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		
8. CT Clean Energy Fund	\$346,200					\$346,200	
9.	\$0					\$0	
10.	\$0					\$0	
11.	\$0					\$0	
12. Total (sum of lines 8 - 11)	\$346,200	\$0	\$0	\$0	\$0	\$346,200	
Section D - Forecasted Cash Needs							
13. Federal	\$5,000,000	\$600,000	\$1,700,000			\$2,000,000	
14. Non-Federal	\$100,000	\$20,000	\$30,000			\$35,000	
15. Total (sum of lines 13 and 14)	\$5,100,000	\$620,000	\$1,730,000			\$2,035,000	

\$100,000

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project

(a) Grant Program	Future Funding Periods (Year)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16. SEP-ARRA	\$9,500,000	\$6,500,000	\$0	\$0
17. CT Clean Energy Fund	\$146,200	\$100,000	\$0	\$0
18.		\$0	\$0	\$0

1st Year Fed \$500,000 CCEF \$500,000
2nd Year Fed \$0 CCEF \$500,000
3rd Year Fed \$2,500,000 CCEF \$4,500,000
4th Year Fed \$0 CCEF \$2,500,000

\$2,000,000 \$5,000,000
 \$7,500,000 \$0 \$12,500,000 \$0

19.			\$0	\$0	\$0
20. Total (sum of lines 16-19)			\$0	\$6,600,000	\$0

Section F - Other Budget Information
 21. Direct Charges
 22. Indirect Charges 18%
 Indirect consists of Rent, utilities, insurance (10.7%), computer operations, telephones, and other office expenses (7.3%)

\$15,246,200

23. Remarks
 Fringe rate is made up of retirement (33.5%), Payroll Tax and UC (8.65%), Medical Prem. (12.5%), and Life Insurance & ADD (0.35%)
 In-kind contribution consists of additional administrative costs for expansion of existing programs.

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Instructions for the SF-424A
 Public Reporting Burden for this collection of information is estimated to average 3 0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Please do not return your completed form to the Office of Management and Budget. Send it to the address provided by the sponsoring agency.

General Instructions
 This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines 6-k of Section B.

Section A. Budget Summary Lines 1-4 Columns (a) and (b)
 For applications pertaining to a single Federal grant program (Federal Domestic Assistance Catalog number) and not requiring a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).
 For multiple functions or activities, enter the name of each activity or function on each line in Column (a) and enter the catalog number in Column (b). For applications pertaining to multiple programs where name of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).
 For applications pertaining to multiple programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

Lines 1-4, Columns (c) through (g)
 For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Column (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

Section C. Non-Federal Resources
Lines 8-11—Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.
Column (a)—Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.
Column (b)—Enter the contribution to be made by the applicant.
Column (c)—Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.
Column (d)—Enter the amount of cash and in-kind contributions to be made

Section E. Budget Estimates of Federal Funds Needed for Balance of the Project
Lines 16-19—Enter in Column (a) the same grant program titles shown in Column (g), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding periods (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.
 If more than four lines are needed to list the program titles, submit additional schedules as necessary.
Line 20—Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the

Section B. Budget Categories
Line 5—Show the totals for all columns used.
Line 6a-f—Show the totals of Lines 6a to 6f in each column.
Line 6j—Show the amount of indirect cost.
Line 6k—Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (a) and (f) on Line 5.
Line 7—Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program narrative statement the nature and source of income. The estimated amount or program income may be considered by the federal grantor agency in determining the total amount of the grant.
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Column (d)—Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e)—Enter totals of Columns (b), (c), and (d).

Line 12—Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

Section D. Forecasted Cash Needs

Line 13—Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14—Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15—Enter the totals of amounts on Lines 13 and 14.

schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

Section F. Other Budget Information

Line 21—Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22—Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23—Provide any other explanations or comments deemed necessary.

PMC-
EF1

(2/06/02)

**U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
ENVIRONMENTAL CHECKLIST
(To Be Completed by Potential Recipient)**



PART I: General Information

DOE Project Officer: Teresa Jones **Date:** 5/7/2009

Project Title: State Energy Program-American Recovery and Reinvestment Act

ST:CT

Organization Name: CT Office of Policy and Management

Solicitation Number: DE-FOA-0000052 **Award No:**

1. Please describe the intended use of DOE funding in your proposed project. For example, would the funding be applied to the entire project or only support a phase of the project? Describe the activity as specifically as possible, i.e. planning, feasibility study, design, data analysis, education or outreach activities, construction, capital purchase and/or equipment installation or modification. If the project involves construction, also describe the operation of the completed facility/equipment. Funding will be used to provide financial incentives for a variety of programs. Specific energy efficiency programs address improvements in residential, commercial, institutional and industrial buildings. Primary activities would include "equipment replacement, installation, or modification.

Funding will also be used to incentivize "renewable" energy in the following areas: geothermal heat pump incentives, solar photovoltaic incentives, fuel cell incentives, and solar thermal incentives. This would again involve equipment installation and modification. Geothermal systems in particular may involve some excavation and the use of refrigerants, as indicated on the checklist. There are also building permits required for installation of some types of equipment.

A small portion of the funds will be utilized for training of building operators and for training of building officials. Finally, some funds will be used to support the Department of Energy's clean cities coalitions.

2. Does any part of your project require review and/or permitting by any other federal, state, regional, local, environmental, or regulatory agency? Yes No

3. Has any review (e.g., NEPA documentation, permits, agency consultations) been completed? Yes No If yes, is a finding or report available and how can a copy be obtained?

4. Is the proposed project part of a larger scope of work? Yes No If yes, please describe.

Do you anticipate requesting additional federal funding for subsequent phases of this project?

Yes No If yes, please describe.

5. Does the scope of your project **only** involve one or more of the following:

- Information gathering such as literature surveys, inventories, audits,
- Data analysis including computer modeling,
- Document preparation such as design, feasibility studies, analytical energy supply and demand studies, or
- Information dissemination, including document mailings, publication, distribution, training, conferences, and informational programs.

Preparer:
John Ruckes
Business Contact:
David Kalafa

Phone:
860-418-6384
Phone:
860-418-6301

Email:
john.ruckes@ct.gov
Email:
david.kalafa@ct.gov

PART II: Environmental Considerations

Section A Conditions or special areas are present, required, or could be affected by your project:

1. Clearing or Excavation

Depending upon the design of a closed-loop geothermal heat pump system, there may be excavation required in excess of one acre. While we do not anticipate that residential applications will exceed that threshold, it is possible that some commercial applications might exceed the one acre threshold.

3. New or Modified Federal/State Permits And/or Requests for Exemptions

Building permits are generally required for fuel cell installations, geothermal installations, and solar installations. In addition, the Connecticut Siting Council must be notified of any fuel cell installations

Section B. Would your project use, disturb, or produce any chemicals or biological substances?

(i.e., pesticides,

industrial process, fuels, lubricants, bacteria)

3. Chemical Storage, Use, and Disposal

Permit Required Quantity: 3282 Permit Type:

Specific nature of use:

Geothermal heat pump systems, by nature, require the use of refrigerant. The quantity listed, in lbs., is based on the assumption of approximately 1.1 lbs. of refrigerant per ton of installed capacity.

Section C. Would your project require or produce any radiological materials?

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