

PMC-EF2a

(2.0 (02)

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**



RECIPIENT: Ohio Department of Development

STATE: OH

**PROJECT TITLE :** Ohio State ARRA-EECBG - Act 1 (County Bldg Retrofits) Lucas County I - Boiler Interconnection

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-FOA-0000013	DE-EE0000714.004		0

**Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:**

**CX, EA, EIS APPENDIX AND NUMBER:**

## Description:

- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand modeling), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- A11** Technical advice and planning assistance to international, national, state, and local organizations.
- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

## Rational for determination:

The Project Activity titled Ohio State ARRA-EECBG (County Bldg Retrofits) Lucas County I - Boiler Interconnection submitted by the Ohio SEO includes upgrading the HVAC system in two County-owned buildings by interconnecting the separate boiler systems to allow for operating flexibility, energy efficiency and energy conservation. Interconnecting the two boiler systems will allow for operating both building heating systems with the more efficient of the two boilers at a higher and more efficient load, benefiting both building's operating costs. The interconnected boiler systems will be capable of allowing either boiler system to heat both buildings in the event that one or the other boiler system should require maintenance, and be capable of isolating both systems (i.e., return to the original configuration) if the need should arise.

The interconnection of the two boilers will be accomplished through the installation of overhead piping. There will be no ground disturbance necessary to accomplish this effort.

The extension of the boiler systems' exhaust stacks is not funded under EECBG and is not included in this NEPA determination.

The Lucas County I - Boiler Interconnection project is categorically excluded from further NEPA review under A9, A11 and B5.1.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Insert the following language in the award:

You are required to:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

This NEPA determination does not include the extension of the boiler exhaust stacks.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: [Signature]  
NEPA Compliance Officer

Date: 5/20/10

**FIELD OFFICE MANAGER DETERMINATION**

Field Office Manager review required

**NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:**

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_  
Field Office Manager

Date: \_\_\_\_\_

PMC-EF2a

(2.0 (02)

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**

**RECIPIENT:**Howard County, Maryland**STATE:** MD**PROJECT TITLE :** Activity 2: Landfill Forced Draft Heater

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
	DE-EE0000742		0

**Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:**

**CX, EA, EIS APPENDIX AND NUMBER:****Description:**

- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

**Rational for determination:**

The Howard County, Maryland ARRA EECBG Activity 2 - Landfill Forced Draft Heater project involves the design, installation and operation of (a) forced draft heaters in the existing Alpha Ridge Landfill maintenance shop to heat the service bays, and (b) supply and return pipelines connecting the existing landfill maintenance shop with the proposed (to be funded by others) landfill gas-to-energy (LFGTE) system. The entire construction and operation of the project would take place within the Alpha Ridge Landfill property boundaries which is owned by Howard County, Maryland.

The project includes the installation of approximately 3,000 linear feet of supply and return pipelines to transmit the recovered waste heat from the LFGTE system, where the waste heat will be recovered, to the forced draft heaters in the maintenance shop. Because the project involves the disturbance of more than 5,000 square feet, an erosion and sediment control plan is required to be filed with, and a grading permit obtained from, Howard County. The area disturbed by installation of the pipeline will either be repaved or reseeded to match the existing ground cover. Because this is a linear project and considered a temporary disturbance, Howard County does not require a stormwater management plan or site development plan to be developed. Also, because this project will disturb less than one acre, an individual permit for the discharge of stormwater associated with construction activities is not required to be filed with the Maryland Department of the Environment. Installation of the forced draft heaters will involve modifications to an existing building, and a building permit and electrical permit will need to be obtained from Howard County.

The closest body of water to the project site is a stormwater management pond located approximately 200 feet southeast of the maintenance shop. The stormwater management pond drains to an unnamed tributary to the Little Patuxent River approximately 900 feet to the south. There are no anticipated impacts to surface water bodies. The forced draft heaters do not combust fuel, and no operational air emissions are anticipated.

The Howard County, Maryland ARRA EECBG Activity 2 – Landfill Forced Draft Heater project is categorically excluded from further NEPA review under A9, A11 and B5.1.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Insert the following language in the award:

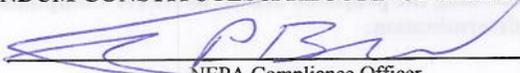
You are required to:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

This project is contingent upon Howard County first installing an LFGTE system at the Alpha Ridge Landfill.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature:   
NEPA Compliance Officer

Date: 5/20/10

**FIELD OFFICE MANAGER DETERMINATION**

Field Office Manager review required

**NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:**

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_  
Field Office Manager

Date: \_\_\_\_\_

PMC-EF2a

(2.0.02)

U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION



RECIPIENT: Kansas State University (KSU)

STATE: KS

PROJECT TITLE : EECBG DE-EE0000727 KSU Wind Turbine Research & Refurbishment

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-FOA 0000013	DE-EE0000727.003		0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

**CX, EA, EIS APPENDIX AND NUMBER:**

## Description:

- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

## Rational for determination:

The State of Kansas (Kansas Corporation Commission) would utilize EECBG funds to: 1) fund research projects involving computer and laboratory-based activities in the area of electrical computer engineering to improve the utilization of wind energy technology, and 2) fund the refurbishment of a Zond 750 wind turbine (750 kW capacity) recently donated by a local utility to Kansas State University. As funds remain available, they would be used to support the environmental evaluation associated with the future installation of the wind turbine. EECBG funds would not be used to install the turbine once refurbishment is complete. These activities constitute information gathering and actions to conserve energy and are therefore categorically excluded under NEPA under CX A9 and CX B5.1.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Insert the following language in the award:

You are required to:

EECBG funds shall only be used as described in the rationale above, and shall not be used for the installation of the refurbished Zond 750 wind turbine.

Note to Specialist :

None Given.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: \_\_\_\_\_

NEPA Compliance Officer

Date: \_\_\_\_\_

5/20/10

PMC-EF2a

(20102)

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**



RECIPIENT: City of Jacksonville

STATE: FL

**PROJECT TITLE :** SOW for Activity #7 Community Energy Efficiency Incentives Program (Supercedes DE-EE0000777.002)

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-FOA-0000013	DE-EE0000777.004		0

**Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:**

**CX, EA, EIS APPENDIX AND NUMBER:**

## Description:

- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- A11** Technical advice and planning assistance to international, national, state, and local organizations.
- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

## Rational for determination:

The following activities are bound by the City of Jacksonville's signed Statement of Work (SOW) and are therefore categorically excluded under NEPA:

- Activity #7 Community Energy Efficiency Incentives

The Program would be comprised of two parts:

Part I – Community Energy Efficiency Grants would competitively award sub-grants to non-profit organizations which demonstrate the greatest need for energy efficiency retrofits and provide required matching funds. Minimum evaluation criteria would consist of ownership of facility, age of facility/mechanical systems, potential consumption savings, capacity of organization to complete the project, and service to the community.

Part II – Community Energy Efficiency Programs would allocate grant funds to contractors under the management of Jacksonville's municipal electrical utility (JEA) to strategically supplement and expand the utility's residential and commercial demand side management programs.

Any projects submitted for EECBG funding that fall outside the bounds of the city's signed SOW will require a separate NEPA determination review.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

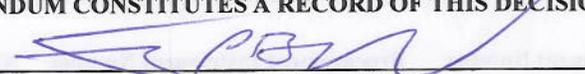
Activity #7 was previously reviewed for NEPA under Award No. DE-EE0000777.002. At that time the activities were not bound by a signed SOW.

As part of that NEPA review, Part I - Community Energy Efficiency Grants did not receive a final NEPA approval pending submittal of additional project-specific information for DOE review. With the activity now bound to the SOW that condition is now lifted.

Part II - Community Energy Efficiency Programs received an unconditional NEPA approval under Award No. DE-EE0000777.002. The City has subsequently indicated that it wants to bind the activities under Part II to their signed SOW as well. The NEPA approval described above binds Part II of Activity #7 to the City's signed SOW and therefore supersedes the prior NEPA approval for Part II granted in Award No. DE-EE0000777.002.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: \_\_\_\_\_

  
NEPA Compliance Officer

Date: \_\_\_\_\_

5/20/10

**FIELD OFFICE MANAGER DETERMINATION**

Field Office Manager review required

**NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:**

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_

\_\_\_\_\_  
Field Office Manager

Date: \_\_\_\_\_

PMC-EF2a

(20102)

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**



RECIPIENT: Ohio Department of Development

STATE: OH

**PROJECT TITLE :** Ohio State ARRA-EECBG - Act 1 (County Bldg Retrofits) City of Athens - Wastewater Plant Improvement

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-FOA-0000013	DE-EE0000714.005		0

**Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:**

**CX, EA, EIS APPENDIX AND NUMBER:**

## Description:

- A11** Technical advice and planning assistance to international, national, state, and local organizations.
- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
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## Rational for determination:

The project titled Ohio State ARRA\_EECBG - Activity 1 - County Building Retrofits for City of Athens Wastewater Treatment Plant submitted by the Ohio SEO includes the purchase and installation of energy efficient treatment components and the upgrade of building and facility HVAC, window, and lighting systems.

## Specific improvements include:

1. Headworks (grit tank) improvements: upgrade existing grit removal system with a more energy efficient vortex system, and upgrade existing 10 Hp blower to a 0.75 Hp mixer.
2. Control building improvements: Upgrade existing HVAC system with more efficient components.
3. Facility lighting improvements: Upgrade existing facility grounds lighting with more efficient lighting fixtures. EECBG funds will not be used for installing new light poles unless the new light poles are proven to be more energy efficient than the existing light poles, and/or are the only poles that are specifically required to support the new more efficient lighting fixtures.
4. Power improvements: upgrade existing generator with a more efficient generator.
5. Facility window improvements: upgrade existing facility single-pane windows with triple-paned windows.

City of Athens Wastewater Treatment Plant improvements, as described above, are categorically excluded from further NEPA review under A9, A11 and B5.1.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Insert the following language in the award:

You are required to:

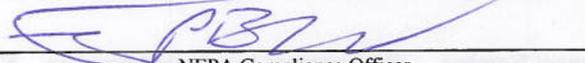
If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of

approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

EECBG funding may not be used to purchase and install new light poles unless it is proven that those light poles are specifically required to support the new energy efficient lighting fixtures.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature:  Date: 5/20/10  
NEPA Compliance Officer

**FIELD OFFICE MANAGER DETERMINATION**

Field Office Manager review required

**NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:**

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Field Office Manager

PMC-EF2a

(2.0.02)

U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION



RECIPIENT: State of Missouri

STATE: MO

PROJECT TITLE : EECBG Program Implementation & Subgrants - Harrisonville/Cass

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0000761		0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

**CX, EA, EIS APPENDIX AND NUMBER:**

## Description:

**B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

## Rational for determination:

The state of Missouri would pass \$225,000 of DOE EECBG funding to City of Harrisonville/County of Cass to purchase equipment which will be used in the City's wastewater treatment plant and will enhance the plants energy efficiency.

The equipment purchased will be:

- Digester Feed Pump;
- Filtrate Pump Type;
- Digester Effluent Pump;
- Top Entry Mixer;
- Digester Heat Exchanger;
- Sludge Thickener; and
- Valves

This project comprises actions to conserve energy and is CX'd under B5.1.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: \_\_\_\_\_

Date: \_\_\_\_\_

5/20/10

PMC-EF2a

(20102)

U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION



RECIPIENT: Idaho Office of Energy Resources

STATE: ID

PROJECT TITLE : City of Blackfoot methane capture and use

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
81.128	DE-EE0000814.001		ID0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

**CX, EA, EIS APPENDIX AND NUMBER:**

## Description:

**B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

## Rational for determination:

The Idaho Office of Energy Resources proposes to use \$86,000 of EECBG funding for the City of Blackfoot methane capture and use project. DOE funds will primarily be used to complete the City of Blackfoot's purchase and installation of equipment.

The system will be comprised of simple on site piping to route digester gas to an existing City owned generator. Methane produced from the digesters will be used to power the generator which in turn will be used to supplement the power usage at the City's wastewater treatment facility. It is anticipated that up to 56,000 cubic feet of methane will be produced per day and the City of Blackfoot currently has a gas purifier system that can be upgraded to provide a good quality - relatively clean gas to the generator. No additional treatments will be required to process the raw methane as it will be used solely to supplement power usage at the City's wastewater treatment facility.

The City of Blackfoot Wastewater Treatment Plant currently sits on approximately 10.6 acres southwest of the City. The sludge digesters are located on the west side of the site and the existing City owned generator is located on the north edge of the digester facilities. No additional acreage will be needed as the generator is already on site. No new structures will be constructed as part of this activity. Minor amounts of on-site piping and the electrical control system will be installed to convey the gas to and control the City owned generator. There may be minor amounts of piping and electrical systems routed through existing treatment buildings.

The City currently maintains a wastewater discharge permit with US EPA and a solids waste land application permit through Idaho Department of Environmental Quality (IDEQ). The City does not maintain an air permit and it is not expected that one will be required as no changes are being made to the production of methane or other gases and the generator is small enough to be exempt under IDEQ rules. The City of Blackfoot is currently working through the IDEQ permit determination process.

## Waste Stream Requirements:

Prior to the expenditure of Federal funds to implement any of the above-mentioned activities, the City of Blackfoot has the affirmative responsibility to ensure that it has a waste management plan addressing waste generated by their proposed actions. The plan will describe the plan to dispose of any sanitary or hazardous waste, e.g. construction and demolition debris, old light bulbs, lead ballasts, piping, roofing materials, discarded equipment, debris, asbestos, etc. generated as a result of the proposed project. The recipient must ensure that it will comply with all federal, state and local regulations for waste disposal.

This cogeneration project would provide an efficient energy source and an annual energy savings to the city of approximately \$15,750 per year. Based on this information, this action is categorically excluded under CX number 5.1,

Actions to Conserve Energy.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: [Signature]  
NEPA Compliance Officer

Date: 5/20/10

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: \_\_\_\_\_  
Field Office Manager

Date: \_\_\_\_\_

PMC-EF2a

(20102)

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**



RECIPIENT: State of Connecticut, Office of Policy and Management

STATE: CT

PROJECT TITLE : EECBG- Windsor - Nature Center Geothermal project

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-FOA-0000013			0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

**CX, EA, EIS APPENDIX AND NUMBER:**

Description:

- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.
- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.

**Rational for determination:**

The Town of Windsor is proposing to use ARRA funds provided by the Department of Energy to install a 14 ton vertical closed-loop ground source heat pump system in the Northwest Park Nature Center. This project will require 4 to 5 bore holes which will be drilled to a depth of 525 feet. Windsor will follow all IGSHA guidelines for installation and grouting. The boreholes will be encased with thermally enhance bentonite grout. The recipient verified that the refrigerant used will be a non-toxic mixture of potable water and 20 to 25% propylene glycol solution. These standards will mitigate the risk of contamination from surface run-off to ground water. This site is not located within an aquifer protection area, the site and surrounding area is currently served by public drinking water provided by the Metropolitan District. The driller will be state licensed; all drilling will be conducted on the lawn directly adjacent to the building, the area has been previously disturbed from the construction of the building. There are neither wetlands nor floodplains located on the site in question. The Connecticut Department of Environmental Protection will be consultant on this matter, though no permits are required for closed loop systems in Connecticut. According to the Fish and Wildlife's Critical Habitat Mapping Platform, there are no areas of critical habitat located in or near the proposed site. In addition, species located within the Nature Center are not listed on the Natural Database. The area will be restored to previous grade and condition, and will be reseeded with native seed. A building permit from the Town of Windsor will be required before project implementation can occur.

The Project will be used as a teaching aide for at least 80 school districts with approximately 6,000 students that visit the park annually. The nature center will also serve as a model of market-ready to distribute renewable energy technologies.

After a thorough review of the information submitted for the proposed project, it has been concluded that the actions involved will not have a significant impact to human health and /or the environment. Therefore the proposed project is hereby Categorical Excluded under CX B5.1 "actions to conserve regulations" and A9 "information gathering, document preparation, and dissemination" from further NEPA review

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Insert the following language in the award:

You are required to:  
Obtain a building permit from the Town of Windsor before project implementation can occur.

Note to Specialist :

NEPA review conducted by John Jediny

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: Steve Blazek Date: 5/19/2010  
NEPA Compliance Officer

**FIELD OFFICE MANAGER DETERMINATION**

Field Office Manager review required

**NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:**

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Field Office Manager

PMC-EF2a

(2004.02)

**U.S. DEPARTMENT OF ENERGY  
EERE PROJECT MANAGEMENT CENTER  
NEPA DETERMINATION**



**RECIPIENT:** VA Dept of Mines, Minerals and Energy

**STATE:** VA

**PROJECT TITLE :** Northampton County Geothermal Upgrade

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-FOA-0000013	DE-EE0000864		0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

**CX, EA, EIS APPENDIX AND NUMBER:**

**Description:**

- A9** Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B5.1** Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

**Rational for determination:**

The County of Northampton in Virginia is proposing to install a 90 ton closed looped ground source heat pump. The system will be comprised of a hybrid 4 by 12 borehole design. The hybrid system will be used to provide dedicated cooling and heating for 4 distinct climate zones within the building. The systems can then be switched over so that all 4 GSHP systems can service all 4 climate zones, this allows the system to be extremely dynamic in using and dispersing heat/cooling to and from the ground. The system will utilize food-grade Propylene Glycol at a ratio to water of 30% as a heat exchanging fluid. All boreholes will be entirely encased with thermally enhanced bentonite grout from top to bottom. These measures taken will mitigate the risk of sub-surface contamination, from the system itself or from surface to sub-surface run-off.

The grantee has stated that there are no known wetlands, floodplains, or coastal zones located on or near the proposed location for the system's installation. Investigation conducted using the FWS's Wetlands Inventory and FEMA's Mapping Information Platform confirmed this. The system will be installed on an existing parking lot adjacent to the building it will service. Therefore the impacts to cultural/archeological and T&E species are not expected giving the level of disturbance from the previous construction activities related to the paved parking lot. The grantee has stated within the GSHP Questionnaire that, "The project specifications require the installing contractor to comply with the requirements of the IGHP and the NGWA." The borefield installer is required by Virginia law and in the grantees bid document to be certified a Class A contractor with water well drilling specialty. The GSHP system is required and the grantee has committed to adhering to the Virginia Department of Health regulations and guidelines related to system installation. For erosion control the contractor is required by the applicant to construct and maintain a silt fence around the entire construction site, as well as protect all inlet drains. The surface will be restored to previous grade and re-paved. All waste materials are specified to be properly disposed of in accordance with Virginia Dept. of Transportation and the Department of Environmental Quality.

DOE has determined that this project does not have a significant impact to the human health and/or environment. This project is hereby Categoricaly Excluded under A9 "Information Gathering" and B5.1 "Actions to Conserve Energy".

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: Steve Blazek Date: 5/19/2010  
NEPA Compliance Officer

**FIELD OFFICE MANAGER DETERMINATION**

Field Office Manager review required

**NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:**

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Field Office Manager