

PMC-ND

(1.08.09.13)

U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY
NEPA DETERMINATION

**RECIPIENT:** Bayfield County**STATE:** WI

PROJECT TITLE: WI Office of Energy Innovation: Energy Innovation Grant Program – Bayfield County

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
SEP-ALRD-2018	DE-EE0007494	GFO-0007494-007	

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

CX, EA, EIS APPENDIX AND NUMBER:

Description:

A9 Information gathering, analysis, and dissemination Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

B5.1 Actions to conserve energy or water (a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy efficiency that would not have the potential to cause significant changes in the indoor or outdoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations (such as utilities), and governments (such as state, local, and tribal). Covered actions include, but are not limited to weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings; placement of timers on hot water heaters; installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing, industrial, or building practices; and small-scale energy efficiency and conservation research and development and small-scale pilot projects. Covered actions include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve commercial, residential, agricultural, academic, institutional, or industrial sectors. Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix. (b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region.

B5.16 Solar photovoltaic systems The installation, modification, operation, and removal of commercially available solar photovoltaic systems located on a building or other structure (such as rooftop, parking lot or facility, and mounted to signage, lighting, gates, or fences), or if located on land, generally comprising less than 10 acres within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to the State of Wisconsin Department of Energy Innovation for energy efficiency upgrades and two solar photovoltaic (PV) installations at three county facilities throughout Bayfield County, as outlined below.

At the Bayfield County Courthouse Complex, heating, ventilation and air conditioning energy efficiency upgrades would include the installation of radiation controls and variable air control valves with compatible thermostats. Additionally, the County would upgrade an existing Compressed Natural Gas (CNG) fueling system by replacing compression and motor components with higher capacity models and procure two CNG-enabled vehicles that would be converted to use CNG fueling systems.

Energy efficiency upgrades at the co-located Bayfield County Sheriff Administrative Offices and County Jail, would include the replacement of the air conditioner with a more efficient unit, and a cold air containment curtain would be added in the Sheriff's administrative office. The cold air containment curtain would be installed with ceiling hangers to support curtains or lightweight panels that condense cool air around computer servers. Both a roof-mounted and a ground-mounted PV solar array would be installed at the Bayfield County Jail. The ground mounted PV system would be approximately 95 kW, and roof mounted system would be approximately 18 kW. The ground-mounted PV panels would be on the northwest side of the building between the exterior wall and East 7th Street. The location is currently mowed grass, and would require 50 feet of bored wiring between the array and the northwest wall. There are no obstructions in the area to be removed prior to placement of the ground-mounted panels. The roof-mounted solar panels would not require structural improvements. The entire system would be grid-connected.

The Bayfield County Highway Garage energy efficiency upgrades would include retrofitting existing lighting with LED bulbs to include occupancy sensors in some locations, and building envelope improvements to reduce air leakage (by adding weather stripping and foam), mechanical system optimization (installing demand control ventilation, variable frequency drives on heating, ventilation and air conditioning units, occupancy CO2 sensors, and building system automation. Additionally, a 40kW ground-mounted solar PV system would be installed between the building and Park Memorial Drive, on an area with mowed grass and would require 60 feet of bored wiring. The system would be grid-connected.

Many of the energy efficiency upgrade activities, and the PV installations would require minor electrical modifications for connections. All required building permits and inter-connection agreements would be obtained. The proposed sites for the PV installations are not located in the 100-year floodplain.

In both areas of the ground mounted PV installation, the iPaC database shows three mammals, (the Canada Lynx, the Gray Wolf, and Northern Long-eared Bat), one bird (the Red Knot), and one flowering plants (Fassett's Locoweed), have the potential to be in or around the project area. Additionally, 18 migratory birds have the potential to be in or around the project area (Bald Eagle, Bobolink, Canada Warbler, Cape May Warbler, Connecticut Warbler, Dunlin, Evening Grosbeak, Golden Eagle, Golden-winged Warbler, Harris's Sparrow, Lesser Yellowlegs, Marbled Godwit, Red-headed Woodpecker, Ruddy Turnstone, Rusty Blackbird, Semipalmated Sandpiper, Whimbrel, and the Wood Thrush). Because of the nature of the project (i.e. limited ground disturbance on landscaped and mowed land), it is unlikely that any of the species of concern would be present in the project area. Additionally, the proposed project site is outside of the critical habitat of all listed species. Accordingly, DOE has determined the proposed project will have no effect on federally listed threatened or endangered species. Further, DOE does not anticipate adverse impacts to migratory bird species.

The state of Wisconsin must adhere to the restrictions of their DOE executed Historic Preservation Programmatic Agreement with their State Historic Preservation Office for all proposed activities. Additionally, any changes to the project activities or locations are subject to additional NEPA review by DOE and are not authorized for Federal funding unless and until the Contracting Officer provides written authorization on those additions or modifications.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Office of Weatherization and Intergovernmental Programs – State Energy Program
This NEPA Determination does not require a tailored NEPA provision.

NEPA review completed by Diana Heyder, 07/23/2019

FOR CATEGORICAL EXCLUSION DETERMINATIONS

The proposed action (or the part of the proposal defined in the Rationale above) fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal.

The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

The proposed action is categorically excluded from further NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



Signed By: Casey Strickland

NEPA Compliance Officer

Date: 7/23/2019

FIELD OFFICE MANAGER DETERMINATION

- Field Office Manager review not required
- Field Office Manager review required

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

Field Office Manager's Signature: _____

Field Office Manager

Date: _____