

PMC-EF2a

(2.04.02)

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



RECIPIENT: Illinois Department of Commerce & Economic Opportunity

STATE: IL

PROJECT
TITLE : City of Arcola 40 kW Wind Turbine Project

| | | | |
|--|--------------------------------------|----------------------------|-------------------|
| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
| DE-FOA-0000052 | EE0000119 | | 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 Illinois Department of Commerce & Economic Opportunity will provide \$62,265 of Recovery Act funding to the City of Arcola to purchase and install a 40 kilowatt wind turbine on 120-foot self-supporting tower at its waste water treatment plant in Arcola, Illinois. The plant is located on the eastern edge of the city at 435 E. Springfield Lane. The electricity generated by the wind turbine will be used on-site to reduce purchase of utility generated power.

The project site is flat and surrounded by farmland on three sides and the City's industrial park to the south. The plant property is dedicated to the treatment of city wastewater and not available for farming. The ground was previously cleared and graded when the facility was originally developed. The area where the wind turbine is to be sited is currently mown. The project will be fully contained within the plant, thus it will not increase the footprint of the facility. Approximately 500-feet of electrical conduit and cable will connect the wind turbine to the plant's equipment room near the center of the property. The E13 turbine weighs 4,100 pounds. The blades are constructed of a fiberglass composite and have a 44-foot diameter rotor diameter. The area has abundant wind resources and this project is estimated to generate approximately 110,000 kWh per year.

The U.S. Fish and Wildlife Service has reviewed the project and determined that the wind turbine is not likely to adversely affect threatened or endangered species. The Illinois Historic Preservation Agency has determined that the project would have no affect on historic properties. The wind turbine is to be located near a taller (200 foot) communications tower and is not expected to have a significant visual impact. No FAA clearance is required due to the distance from a public airport and the height of the structure (below 200 feet).

Based on the information provided by the State and recipient, the work outlined is consistent with activities identified in Categorical Exclusion B5.1.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

According to the project officer, funding for this effort is \$62,265. Unless there is a significant change in the scope of

this effort, a change in funding will not affect my determination.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

NEPA Compliance Officer

Date: 6/23/10

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: _____