

PMC-EF2a

(20+02)

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



RECIPIENT: City of Chicago Dept. of Transportation

STATE: IL

PROJECT TITLE : Chicago Climate Action Plan Advanced Transportation Technologies Initiative

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-FG36-06GO86052	GFO-GO86052-002	GO86052

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 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.
- B5.23 Electric vehicle charging stations** The installation, modification, operation, and removal of electric vehicle charging stations, using commercially available technology, within a previously disturbed or developed area. Covered actions are limited to areas where access and parking are 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.

Rational for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the City of Chicago Department of Transportation (DOT) to advance its Chicago Climate Action Plan Advanced Transportation Initiative. DOE funding would be used to purchase four hybrid diesel electric trucks for the City's fleet and install 15 electric vehicle (EV) charging stations at eight locations. IGO, a sub-recipient to the Chicago DOT, would use non-DOE funding to install one solar canopy to power two EV charging stations at one location.

DOE made a previous NEPA determination, GFO-GO86052-001 (CX A9, B5.1 9/9/2011), which included the purchase of five electric refuse trucks, the build-out of car-sharing fleets, and funding to staff one position in the Chicago Department of Environmental Management to perform analysis and oversight functions. This NEPA determination applies to the revised scope of work for Task 1 and Task 2 which includes the purchase of hybrid diesel electric trucks and the installation of EV charging stations.

Chicago DOT proposes to purchase and operate four hybrid diesel electric aerial service trucks for daily use by the Bureau of Forestry. The hybrid-electric system provides engine-off utilization of the aerial device, eliminating idling except as necessary to recharge the batteries periodically during use. It is projected that the fuel usage will be reduced by up to 40%, resulting in reduced carbon emissions and increased efficiency in the municipal fleet.

Chicago DOT proposes to install 15 EV charging stations in the Chicago area for use with the plug-in electric vehicles previously approved. All charging stations would be installed in existing paved parking lots with nearby electric service at the following addresses:

1. 1701 Orrington Ave, Evanston, IL 60201, two EV stations
2. 1945 W. Wilson, Chicago, IL 60640, two EV stations
3. 3365 W. Lawrence, Chicago, IL 60625, two EV stations
4. 1115 North Boulevard, Oak Park, IL 60301, two EV stations
5. 2122 Central Street, Evanston, IL 60201, two EV stations
6. 825 Hinman Ave, Evanston, IL 60202, two EV stations
7. 2125 W. North Avenue, Chicago, IL 60647, two EV stations
8. 5006 S. Cornell Ave, Chicago, IL 60615, one EV station

Trenching would be required for electrical conduit at each location. The trenching would be minimal and would occur at previously disturbed locations. The local utility company, ComEd would bring electrical service to each site. The EV stations would be available to IGO participants. None of the proposed locations are within a historic district or near a historic building.

A single, cantilevered solar canopy, funded with non-DOE resources, would be installed at the first location, 1701 Orrington Ave, Evanston, IL 60201, to provide power to two EV charging stations. The proposed 10 kW solar photovoltaic (PV) canopy would measure 38.5 ft. long, 20 ft. wide and 12 ft. high. It would be supported by two piers, approximately 4 ft. in diameter and 14 ft. deep. There would be approximately 50 ft. of trenching for electrical conduit at a depth of 2 ft. and a width of 2 ft. The solar canopy would be grid connected.

The U.S. Fish and Wildlife Service Endangered Species Program website identifies the Piping plover, Hine's emerald dragonfly and Eastern Massasauga (rattlesnake) as endangered or threatened species within Cook County, Illinois. DOE has determined that these species would not be affected because the proposed project would occur on previously disturbed properties and does not support their necessary habitat. The proposed scope of work would not have adverse effects on wetlands, floodplains, or cultural resources, as these resources are not known to occur at the proposed sites.

Cook County, Illinois is designated nonattainment for the eight-hour Ozone National Ambient Air Quality Standard (NAAQS), Particulate Matter (PM) 2.5 (1997) and Lead (2008). Due to the minimal amount of construction expected and the nature of the project, DOE has determined that the EV charging stations and vehicle purchase would not have any adverse impact to emission levels of Ozone, PM 2.5 and Lead.

Based on review of the project information and the above analysis, DOE has determined purchase of four hybrid diesel electric trucks and the installation of 15 electric vehicle (EV) charging stations at eight locations would not have significant individual or cumulative impact to human health and/or environment. DOE has determined that the work outlined is consistent with the actions identified in Categorical Exclusion B5.1, "actions to conserve energy," and B5.23, "electric vehicle charging station," and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

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 :

Kelly Daigle 12/3/2012

DOE Funding: \$ 1,772,401

Cost Share: \$2,323,449

Total Project Cost: \$ 4,095,850

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

 Electronically
Signed By: Lori Gray
NEPA Compliance Officer

Date: _____ 12/3/2012

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: _____