PMC-EF2a

(2.06.02)

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

RECIPIENT: EnerG2 **STATE:** WA

PROJECT TITLE : Establishing Electric Drive Vehicle Component Manufacturing

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
		GFO-10-589	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.

B3.6 Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).

B1.31 Relocation of machinery and equipment, such as analytical laboratory apparatus, electronic hardware, maintenance equipment, and health and safety equipment, including minor construction necessary for removal and installation, where uses of the relocated items will be similar to their former uses and consistent with the general missions of the receiving structure.

Rational for determination:

Washington Department of Commerce will provide $1,800,000 in Recovery Act funds to EnerG2, Inc., a University of Washington-linked startup launched in 2003, to initiate Phase III of its growth plan. The EnerG2 corporate office is located at 100 Northlake Way, Suite 300, Seattle, WA; the work will be conducted in the company's 7500sqft research and manufacturing facility.

The company's technical foundation rests on proprietary synthesis of carbon-based nanomaterials that radically improve the performance of energy storage devices, specifically, vehicular ultracapacitors. EnerG2's Research and Development program (Phase I) has received, to date, investment of venture capital ($11M), DOD SBIR funds ($850K), and WA Technology Center sponsorship ($240K). In 2009, DOE funded 2/3 of a new $28.4M nano-carbon manufacturing plant to be built in Albany, Oregon by September 2011 (Phase II).

Recovery Act funds will be used to (1) develop an ultracapacitor electrode optimized for EnerG2's unique nanostructured carbon and for large format storage devices, and (2) design and specify EnerG2's first product to be mass manufactured in the new plant. The current work is in support of the company's Phase III plans to construct an advanced ultracapacitor device manufacturing plant in Washington (tentatively sited in Pasco, WA) in 2012. The funding will initiate the Phase III effort through the conduct of R&D items (1) and (2) noted above and also support installation of a pilot-scale ultracapacitor assembly line at EnerG2's Research and Manufacturing facility. The pilot assembly line will consist of electrode and device assembly areas. Test stations will also be installed to allow cells to be characterized for performance characteristics. EnerG2's facility is occupied and has the required permits for the work proposed.

In view of the information provided by the State and recipient, DOE has determined that the work outlined is consistent with activities identified in Categorical Exclusions B1.31, B3.6, and 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 the project is $1,800,000. Absent 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: _____ Date: 9/1/10

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