



# U.S. Department of Energy

## Categorical Exclusion Determination Form

**Program or Field Office:** Advanced Research Projects Agency - Energy

**Project Title:** ITN Energy Systems - Low-cost Electrochromic Film on Plastic for Net-zero Energy Building

**Location:** \*- Multiple States - Colorado, Michigan

**Proposed Action or Project Description:**

American Recovery and Reinvestment Act:

Funding will support development of electrochromic (EC) film manufacturing process at in-lab and pilot-scale, EC film sample analysis, and updating of commercialization impact evaluation.

Proposed work consists of (1) testing and optimizing in-lab EC film manufacturing process, (2) scaling process to pilot-scale and testing and optimizing pilot-scale process, and (3) analyzing EC film samples produced. This work will be performed at ITN Energy System's facility in Littleton, CO.

Proposed work also consists of updating the commercialization impact evaluation for the proposed process based on updated capital and production cost estimates. This work will be performed at the University of Michigan campus in Ann Arbor, MI.

**Categorical Exclusion(s) Applied:**

X - B3.6 Siting/construction/operation/decommissioning of facilities for bench-scale research, conventional laboratory operations, small-scale research and development and pilot projects

X - B5.1 Actions to conserve energy

X- A9 - Information gathering/data analysis/document preparation/dissemination

\*-For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR10 21 [Click Here](#)

This action would not: threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders; require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include such categorically excluded facilities; disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; or adversely affect environmentally sensitive resources (including but not limited to those listed in paragraph B.(4)) of Appendix B to Subpart D of 10 CFR 1021). Furthermore, there are no extraordinary circumstances related to this action that may affect the significance of the environmental effects of the action; this action is not "connected" to other actions with potentially significant impacts, is not related to other proposed actions with cumulatively significant impacts, and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Date Determined: Sep 21, 2011

Comments:

Webmaster:

