



U.S. Department of Energy

Categorical Exclusion Determination Form



Program or Field Office: Advanced Research Projects Agency - Energy

Project Title: 0289-1600 Sheetak - Non-Equilibrium Asymmetric Thermoelectric Devices

Location: Tennessee

Proposed Action or Project Description:

American Recovery and Reinvestment Act: ☒

Funding will support bench-scale research and development on a novel thermoelectric device for use in various air conditioning applications. The proposed work is consistent with the goals of BEETIT: the development of energy efficient cooling technologies and air conditioners for buildings, to save energy and reduce GHG emissions.

Proposed work consists entirely of RD&D work to be completed in Sheetak's facilities in Austin, TX and the National Nanotechnology Infrastructure Network on the campus of the University of Texas - Austin in Austin, TX. The work performed will be limited to in-lab design, analysis, and development.

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

*-For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR 1021 [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: Aug 10, 2010

Comments:

Webmaster:

