

U.S. Department of Energy



Categorical Exclusion Determination Form

Project Title: 25A1786 - Scaling and Commercialization of Algae Harvesting Technologies

Program or Field Office: Advanced Research Projects Agency - Energy (ARPA-E)

Location: *- Multiple States - Ohio, Indiana, Alabama, California

otion: American Recovery and Reinvestm	nent Act: 🔀
(AVS) has demonstrated an innovative technology for removing the water from suspended a	algae that
mption by utilizing surface physics and capillary action to more effectively harvest, dewater, a	ind dry algae
al to transform the economics of algae-based biofuel production, removing the major barrier to	o large-scale
alternative fuel source. A lab-scale prototype system has demonstrated 95% energy reduction	on in comparison t
ased on surface physics of materials, it uses several interacting web surfaces to continually e	O
parallel mature core component technologies including web materials and process controls.	This approach
1 31 3	extract algae fron prototype system

provides an efficient and low-cost approach to parallel development and testing of new materials and devices to accelerate technology development. Production scale HDD systems will be designed, fabricated and tested on mobile platforms in both salt water and fresh water environments.

Categorical Exclusion(s) Applied:	
X - B3.6 Siting/construction/operation/decommissioning of facilities for bench-scale research	n, 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 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.

		Digitally signed by William J. Bierbowe
NEPA Compliance Officer:	/s/ William J. Bierbower	DN: cn=William J. Bierbower, o, ou,
		email=william.bierbower@hq.doe.gov

c=US Date Determined: 01/14/2010 Date: 2010.01.14 12:56:09 -05'00'

Comments: Webmaster:

