

Eco-Innovation activities in key countries beyond Europe

Advanced Research Projects Agency-Energy (ARPA-E), USA

<http://arpa-e.energy.gov/Home.aspx>



"The program approach is unique and has proved to be very efficient, based in an organisation that operates at the intersection of fundamental and applied clean energy research aimed at solving key clean technology challenges. Its high-risk/high-reward bets has created new industries and yielded economy-wide returns on initial investment."

The Advanced Research Projects Agency – Energy (ARPA-E) funds the development and deployment of transformational and disruptive energy technologies and systems. It focuses on high-risk concepts with potentially high rewards. It translates science into breakthrough technologies that promise genuine transformation in the ways energy is generated, stored, and utilized. The mission of ARPA-E is to overcome the long-term and high-risk technological barriers in the development of energy technologies.

Funding instruments: ARPA-E publishes calls for proposals. The programme employs a merit review process to select projects based on their potential impact on ARPA-E's mission and their innovative technical approaches and project teams. ARPA-E coordinates closely with other Department of Energy programs, the rest of the federal government, academia, and the private sector to identify "white space" where others are not making investments in innovation but that would be appropriate for ARPA-E's support. The agency supports projects for up to three years. The percentage of cost sharing requirements depends on the nature of applicants (e.g. non-profit or profit) and ranges between minimum 5% and 50% of the budget that the applicants have to provide themselves.

Target groups: For-profit entities, educational institutions, and non profits that are incorporated or otherwise headquartered in the United States, Federally Funded Research and Development Centers (FFRDCs), non-DOE/NNSA Government-Owned Government-Operated laboratories (GOGOs), state and local government entities. Specific rules apply to each category.

APRE-E focuses on creative "out-of-the-box" transformational energy research that industry by itself cannot or will not support due to its **high risk**, but where success would provide **dramatic benefits** for the nation.

Technical details:

- National program
- Established by The America Competes act of 2007, and the American Recovery and Reinvestment Act.
- Managed by the Department of Energy (DOE).
- Budget: 180 M\$ for Fiscal Year.



Boosting Eco-Innovation through Cooperation In Research and Dissemination



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