



Research Funding Opportunity

Program Title	American Recovery and Reinvestment Act of 2009: Smart Grid Demonstrations
Solicitation/RFP Code	TBA
Funding Organization(s)	United States Department of Energy (DOE) National Energy Technology Laboratory (NETL)
Funding Amount(s)	Multiple cost-shared cooperative agreements. 50% cost share minimum. The estimated period of performance for each award is 2 - 5 years.
Application Deadline(s)	To be announced in March 2009

Program Summary

DOE/NETL intends to issue, a funding announcement entitled "Smart Grid Demonstrations." The subject FOA will include three topical areas of interest:

1. Regional Demonstrations - demonstrations to quantify smart grid costs and benefits, verify smart grid technology viability, and validate new smart grid business models including application of cyber security measures, at a scale that can then be readily planned and replicated around the country
2. Utility-Scale Energy Storage Demonstrations - demonstrations of major utility-scale energy storage installations; energy storage systems include, but are not limited to, the following technologies, including advanced battery systems (including flow batteries), ultra-capacitors, flywheels, and compressed air energy systems; application areas include wind and photovoltaic (PV) integration, upgrade deferral of transmission and distribution assets, congestion relief, and system regulation
3. Synchrophasor Demonstrations - synchrophasor projects are expected to demonstrate innovative, network-based applications of time-synchronized phasor measurement technologies, otherwise known as synchrophasors, in ways that can be replicated in a secure manner around the country;

Projects should include cooperation and collaboration of the electric utility that owns the grid facilities in electricity control areas. The electric utility should be either the proposing applicant or a significant team member to the applicant. An integrated team approach that includes members of utilities, products and services suppliers, end users, state and municipal governments, the financial community, etc., will be strongly encouraged. The list of stakeholders should include investor owned utilities, rural electric cooperatives, municipally owned electric utilities, prospective merchant plants, energy storage systems manufacturers, the renewable energy production industry, and state or local energy offices.

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