

**(b) Program****(1) In general**

The Secretary shall establish and conduct a program of research, development, demonstration, and commercial application of energy technology for the secondary use of batteries, if the Secretary finds that there are sufficient numbers of batteries to support the program.

**(2) Administration**

The program shall be—

(A) designed to demonstrate the use of batteries in secondary applications, including utility and commercial power storage and power quality;

(B) structured to evaluate the performance, including useful service life and costs, of such batteries in field operations, and the necessary supporting infrastructure, including reuse and disposal of batteries; and

(C) coordinated with ongoing secondary battery use programs at the National Laboratories and in industry.

**(c) Solicitation****(1) In general**

Not later than 180 days after August 8, 2005, the Secretary shall solicit proposals to demonstrate the secondary use of batteries and associated equipment and supporting infrastructure in geographic locations throughout the United States.

**(2) Additional solicitations**

The Secretary may make additional solicitations for proposals if the Secretary determines that the solicitations are necessary to carry out this section.

**(d) Selection of proposals****(1) In general**

Not later than 90 days after the closing date established by the Secretary for receipt of proposals under subsection (c), the Secretary shall select up to five proposals that may receive financial assistance under this section once the Department receives appropriated funds to carry out this section.

**(2) Factors**

In selecting proposals, the Secretary shall consider—

(A) the diversity of battery type;

(B) geographic and climatic diversity; and

(C) life-cycle environmental effects of the approaches.

**(3) Limitation**

No one project selected under this section shall receive more than 25 percent of the funds made available to carry out the program under this section.

**(4) Non-Federal involvement**

In selecting proposals, the Secretary shall consider the extent of involvement of State or local government and other persons in each demonstration project to optimize use of Federal resources.

**(5) Other criteria**

In selecting proposals, the Secretary may consider such other criteria as the Secretary considers appropriate.

**(e) Conditions**

In carrying out this section, the Secretary shall require that—

(1) relevant information be provided to—

(A) the Department;

(B) the users of the batteries;

(C) the proposers of a project under this section; and

(D) the battery manufacturers; and

(2) the costs of carrying out projects and activities under this section are shared in accordance with section 16352 of this title.

(Pub. L. 109-58, title IX, §915, Aug. 8, 2005, 119 Stat. 861.)

**§ 16196. Energy Efficiency Science Initiative****(a) Establishment**

The Secretary shall establish an Energy Efficiency Science Initiative to be managed by the Assistant Secretary in the Department with responsibility for energy conservation under section 7133(a)(9) of this title, in consultation with the Director of the Office of Science, for grants to be competitively awarded and subject to peer review for research relating to energy efficiency.

**(b) Report**

The Secretary shall submit to Congress, along with the annual budget request of the President submitted to Congress, a report on the activities of the Energy Efficiency Science Initiative, including a description of the process used to award the funds and an explanation of how the research relates to energy efficiency.

(Pub. L. 109-58, title IX, §916, Aug. 8, 2005, 119 Stat. 862.)

**§ 16197. Advanced Energy Technology Transfer Centers****(a) Grants**

Not later than 18 months after May 8, 2008, the Secretary shall make grants to nonprofit institutions, State and local governments, cooperative extension services, or institutions of higher education (or consortia thereof), to establish a geographically dispersed network of Advanced Energy Technology Transfer Centers, to be located in areas the Secretary determines have the greatest need of the services of such Centers. In making awards under this section, the Secretary shall—

(1) give priority to applicants already operating or partnered with an outreach program capable of transferring knowledge and information about advanced energy efficiency methods and technologies;

(2) ensure that, to the extent practicable, the program enables the transfer of knowledge and information—

(A) about a variety of technologies; and

(B) in a variety of geographic areas;

(3) give preference to applicants that would significantly expand on or fill a gap in existing programs in a geographical region; and

(4) consider the special needs and opportunities for increased energy efficiency for manufactured and site-built housing, including construction, renovation, and retrofit.

**(b) Activities**

Each Center shall operate a program to encourage demonstration and commercial application of advanced energy methods and technologies through education and outreach to building and industrial professionals, and to other individuals and organizations with an interest in efficient energy use. Funds awarded under this section may be used for the following activities:

- (1) Developing and distributing informational materials on technologies that could use energy more efficiently.
- (2) Carrying out demonstrations of advanced energy methods and technologies.
- (3) Developing and conducting seminars, workshops, long-distance learning sessions, and other activities to aid in the dissemination of knowledge and information on technologies that could use energy more efficiently.
- (4) Providing or coordinating onsite energy evaluations, including instruction on the commissioning of building heating and cooling systems, for a wide range of energy end-users.
- (5) Examining the energy efficiency needs of energy end-users to develop recommended research projects for the Department.
- (6) Hiring experts in energy efficient technologies to carry out activities described in paragraphs (1) through (5).

**(c) Application**

A person seeking a grant under this section shall submit to the Secretary an application in such form and containing such information as the Secretary may require. The Secretary may award a grant under this section to an entity already in existence if the entity is otherwise eligible under this section. The application shall include, at a minimum—

- (1) a description of the applicant's outreach program, and the geographic region it would serve, and of why the program would be capable of transferring knowledge and information about advanced energy technologies that increase efficiency of energy use;
- (2) a description of the activities the applicant would carry out, of the technologies that would be transferred, and of any other organizations that will help facilitate a regional approach to carrying out those activities;
- (3) a description of how the proposed activities would be appropriate to the specific energy needs of the geographic region to be served;
- (4) an estimate of the number and types of energy end-users expected to be reached through such activities; and
- (5) a description of how the applicant will assess the success of the program.

**(d) Selection criteria**

The Secretary shall award grants under this section on the basis of the following criteria, at a minimum:

- (1) The ability of the applicant to carry out the proposed activities.
- (2) The extent to which the applicant will coordinate the activities of the Center with other entities as appropriate, such as State

and local governments, utilities, institutions of higher education, and National Laboratories.

(3) The appropriateness of the applicant's outreach program for carrying out the program described in this section.

(4) The likelihood that proposed activities could be expanded or used as a model for other areas.

**(e) Cost-sharing**

In carrying out this section, the Secretary shall require cost-sharing in accordance with the requirements of section 16352 of this title for commercial application activities.

**(f) Duration****(1) Initial grant period**

A grant awarded under this section shall be for a period of 5 years.

**(2) Initial evaluation**

Each grantee under this section shall be evaluated during its third year of operation under procedures established by the Secretary to determine if the grantee is accomplishing the purposes of this section described in subsection (a). The Secretary shall terminate any grant that does not receive a positive evaluation. If an evaluation is positive, the Secretary may extend the grant for 3 additional years beyond the original term of the grant.

**(3) Additional extension**

If a grantee receives an extension under paragraph (2), the grantee shall be evaluated again during the second year of the extension. The Secretary shall terminate any grant that does not receive a positive evaluation. If an evaluation is positive, the Secretary may extend the grant for a final additional period of 3 additional years beyond the original extension.

**(4) Limitation**

No grantee may receive more than 11 years of support under this section without reapplying for support and competing against all other applicants seeking a grant at that time.

**(g) Prohibition**

None of the funds awarded under this section may be used for the construction of facilities.

**(h) Definitions**

For purposes of this section:

**(1) Advanced energy methods and technologies**

The term "advanced energy methods and technologies" means all methods and technologies that promote energy efficiency and conservation, including distributed generation technologies, and life-cycle analysis of energy use.

**(2) Center**

The term "Center" means an Advanced Energy Technology Transfer Center established pursuant to this section.

**(3) Distributed generation**

The term "distributed generation" means an electric power generation technology, including photovoltaic, small wind, and micro-com-

bined heat and power, that serves electric consumers at or near the site of production.

**(4) Cooperative Extension**

The term “Cooperative Extension” means the extension services established at the land-grant colleges and universities under the Smith-Lever Act of May 8, 1914 [7 U.S.C. 341 et seq.].

**(5) Land-grant colleges and universities**

The term “land-grant colleges and universities” means—

(A) 1862 Institutions (as defined in section 7601 of title 7);

(B) 1890 Institutions (as defined in section 7601 of title 7); and

(C) 1994 Institutions (as defined in section 7601 of title 7).

**(i) Authorization of appropriations**

In addition to amounts otherwise authorized to be appropriated in section 16191 of this title, there are authorized to be appropriated for the program under this section such sums as may be appropriated.

(Pub. L. 109-58, title IX, §917, Aug. 8, 2005, 119 Stat. 863; Pub. L. 110-229, title VI, §601, May 8, 2008, 122 Stat. 850.)

**Editorial Notes**

REFERENCES IN TEXT

The Smith-Lever Act of May 8, 1914, referred to in subsec. (h)(4), is act May 8, 1914, ch. 79, 38 Stat. 372, which is classified generally to subchapter IV (§341 et seq.) of chapter 13 of Title 7, Agriculture. For complete classification of this Act to the Code, see Short Title note set out under section 341 of Title 7 and Tables.

CODIFICATION

May 8, 2008, referred to in subsec. (a), was in the original “the date of enactment of the National Forests, Parks, Public Land, and Reclamation Projects Authorization Act of 2008” and was translated as meaning the date of enactment of the Consolidated Natural Resources Act of 2008, Pub. L. 110-229, which amended this section generally, to reflect the probable intent of Congress. The National Forests, Parks, Public Land, and Reclamation Projects Authorization Act of 2008, was S. 2616, 110th Congress, introduced in the Senate on Feb. 8, 2008, with action thereon indefinitely postponed. The provisions of section 601 of that bill generally amended section 917 of Pub. L. 109-58 (this section) and was a predecessor version of section 601 of Pub. L. 109-229.

AMENDMENTS

2008—Pub. L. 110-229 amended section generally. Prior to amendment, section related to grants for the establishment of a network of Advanced Energy Efficiency Technology Transfer Centers.

**§ 16198. Smart energy and water efficiency pilot program**

**(a) Definitions**

In this section:

**(1) Eligible entity**

The term “eligible entity” means—

(A) a utility;

(B) a municipality;

(C) a water district;

(D) an Indian Tribe or Alaska Native village; and

(E) any other authority that provides water, wastewater, or water reuse services.

**(2) Smart energy and water efficiency pilot program**

The term “smart energy and water efficiency pilot program” or “pilot program” means the pilot program established under subsection (b).

**(b) Smart energy and water efficiency pilot program**

**(1) In general**

The Secretary shall establish and carry out a smart energy and water efficiency pilot program in accordance with this section.

**(2) Purpose**

The purpose of the smart energy and water efficiency pilot program is to award grants to eligible entities to demonstrate unique, advanced, or innovative technology-based solutions that will—

(A) improve the net energy balance of water, wastewater, and water reuse systems;

(B) improve the net energy balance of water, wastewater, and water reuse systems to help communities across the United States make measurable progress in conserving water, saving energy, and reducing costs;

(C) support the implementation of innovative and unique processes and the installation of established advanced automated systems that provide real-time data on energy and water; and

(D) improve energy-water conservation and quality and predictive maintenance through technologies that utilize internet connected technologies, including sensors, intelligent gateways, and security embedded in hardware.

**(3) Project selection**

**(A) In general**

The Secretary shall make competitive, merit-reviewed grants under the pilot program to not less than 3, but not more than 5, eligible entities.

**(B) Selection criteria**

In selecting an eligible entity to receive a grant under the pilot program, the Secretary shall consider—

(i) energy and cost savings;

(ii) the uniqueness, commercial viability, and reliability of the technology to be used;

(iii) the degree to which the project integrates next-generation sensors software, analytics, and management tools;

(iv) the anticipated cost-effectiveness of the pilot project through measurable energy savings, water savings or reuse, and infrastructure costs averted;

(v) whether the technology can be deployed in a variety of geographic regions and the degree to which the technology can be implemented in a wide range of applications ranging in scale from small towns to large cities, including Tribal communities;