

under subsection (b)(2), the Secretary (in consultation with the Administrator of General Services) shall develop governmentwide Federal purchase guidelines with the goal of replacing the use of PAR 38 halogen lamps in Federal Government buildings with a solid-state-light package described in subsection (b)(2) by not later than the date that is 5 years after the date the award is made.

**(3) Waivers**

**(A) In general**

The Secretary or the Administrator of General Services may waive the application of paragraph (1) or (2) if the Secretary or Administrator determines that the return on investment from the purchase of a solid-state-light package described in paragraph (1) or (2) of subsection (b), respectively, is cost prohibitive.

**(B) Report of waiver**

If the Secretary or Administrator waives the application of paragraph (1) or (2), the Secretary or Administrator, respectively, shall submit to Congress an annual report that describes the waiver and provides a detailed justification for the waiver.

**(i) Report**

Not later than 2 years after December 19, 2007, and annually thereafter, the Administrator of General Services shall submit to the Energy Information Agency a report describing the quantity, type, and cost of each lighting product purchased by the Federal Government.

**(j) Bright Tomorrow Lighting Award Fund**

**(1) Establishment**

There is established in the United States Treasury a Bright Tomorrow Lighting permanent fund without fiscal year limitation to award prizes under paragraphs (1), (2), and (3) of subsection (b).

**(2) Sources of funding**

The fund established under paragraph (1) shall accept—

- (A) fiscal year appropriations; and
- (B) private contributions authorized under subsection (c).

**(k) Authorization of appropriations**

There are authorized to be appropriated such sums as are necessary to carry out this section. (Pub. L. 110-140, title VI, § 655, Dec. 19, 2007, 121 Stat. 1700.)

**§ 17244. Renewable Energy Innovation Manufacturing Partnership**

**(a) Establishment**

The Secretary shall carry out a program, to be known as the Renewable Energy Innovation Manufacturing Partnership Program (referred to in this section as the “Program”), to make assistance awards to eligible entities for use in carrying out research, development, and demonstration relating to the manufacturing of renewable energy technologies.

**(b) Solicitation**

To carry out the Program, the Secretary shall annually conduct a competitive solicitation for

assistance awards for an eligible project described in subsection (e).

**(c) Program purposes**

The purposes of the Program are—

- (1) to develop, or aid in the development of, advanced manufacturing processes, materials, and infrastructure;
- (2) to increase the domestic production of renewable energy technology and components; and
- (3) to better coordinate Federal, State, and private resources to meet regional and national renewable energy goals through advanced manufacturing partnerships.

**(d) Eligible entities**

An entity shall be eligible to receive an assistance award under the Program to carry out an eligible project described in subsection (e) if the entity is composed of—

- (1) 1 or more public or private nonprofit institutions or national laboratories engaged in research, development, demonstration, or technology transfer, that would participate substantially in the project; and
- (2) 1 or more private entities engaged in the manufacturing or development of renewable energy system components (including solar energy, wind energy, biomass, geothermal energy, energy storage, or fuel cells).

**(e) Eligible projects**

An eligible entity may use an assistance award provided under this section to carry out a project relating to—

- (1) the conduct of studies of market opportunities for component manufacturing of renewable energy systems;
- (2) the conduct of multiyear applied research, development, demonstration, and deployment projects for advanced manufacturing processes, materials, and infrastructure for renewable energy systems; and
- (3) other similar ventures, as approved by the Secretary, that promote advanced manufacturing of renewable technologies.

**(f) Criteria and guidelines**

The Secretary shall establish criteria and guidelines for the submission, evaluation, and funding of proposed projects under the Program.

**(g) Cost sharing**

Section 16352 of this title shall apply to a project carried out under this section.

**(h) Disclosure**

The Secretary may, for a period of up to 5 years after an award is granted under this section, exempt from mandatory disclosure under section 552 of title 5 (popularly known as the Freedom of Information Act) information that the Secretary determines would be a privileged or confidential trade secret or commercial or financial information under subsection (b)(4) of such section if the information had been obtained from a non-Government party.

**(i) Sense of the Congress**

It is the sense of the Congress that the Secretary should ensure that small businesses engaged in renewable manufacturing be given pri-

ority consideration for the assistance awards provided under this section.

**(j) Authorization of appropriations**

There is authorized to be appropriated out of funds already authorized to carry out this section \$25,000,000 for each of fiscal years 2008 through 2013, to remain available until expended.

(Pub. L. 110-140, title VI, §656, Dec. 19, 2007, 121 Stat. 1703.)

SUBCHAPTER VI—CARBON CAPTURE AND SEQUESTRATION

PART A—CARBON CAPTURE AND SEQUESTRATION RESEARCH, DEVELOPMENT, AND DEMONSTRATION

**§ 17251. Carbon capture**

**(a) Program establishment**

**(1) In general**

The Secretary shall carry out a program to demonstrate technologies for the large-scale capture of carbon dioxide from industrial sources. In making awards under this program, the Secretary shall select, as appropriate, a diversity of capture technologies to address the need to capture carbon dioxide from a range of industrial sources.

**(2) Scope of award**

Awards under this section shall be only for the portion of the project that—

- (A) carries out the large-scale capture (including purification and compression) of carbon dioxide from industrial sources;
- (B) provides for the transportation and injection of carbon dioxide; and
- (C) incorporates a comprehensive measurement, monitoring, and validation program.

**(3) Preferences for award**

To ensure reduced carbon dioxide emissions, the Secretary shall take necessary actions to provide for the integration of the program under this paragraph with the large-scale carbon dioxide sequestration tests described in section 16293(c)(3) of this title. These actions should not delay implementation of these tests. The Secretary shall give priority consideration to projects with the following characteristics:

**(A) Capacity**

Projects that will capture a high percentage of the carbon dioxide in the treated stream and large volumes of carbon dioxide as determined by the Secretary.

**(B) Sequestration**

Projects that capture carbon dioxide from industrial sources that are near suitable geological reservoirs and could continue sequestration including—

- (i) a field testing validation activity under section 16293 of this title; or
- (ii) other geologic sequestration projects approved by the Secretary.

**(4) Requirement**

For projects that generate carbon dioxide that is to be sequestered, the carbon dioxide

stream shall be of a sufficient purity level to allow for safe transport and sequestration.

**(5) Cost-sharing**

The cost-sharing requirements of section 16352 of this title for research and development projects shall apply to this section.

**(b) Authorization of appropriations**

There is authorized to be appropriated to the Secretary to carry out this section \$200,000,000 per year for fiscal years 2009 through 2013.

(Pub. L. 110-140, title VII, §703, Dec. 19, 2007, 121 Stat. 1708.)

SHORT TITLE

Subtitle A (§§701-708) of title VII of Pub. L. 110-140, which is classified principally to this part, is known as the “Department of Energy Carbon Capture and Sequestration Research, Development, and Demonstration Act of 2007”. See Short Title note set out under section 17001 of this title.

**§ 17252. Review of large-scale programs**

The Secretary shall enter into an arrangement with the National Academy of Sciences for an independent review and oversight, beginning in 2011, of the programs under section 16293(c)(3) of this title and under section 17251 of this title, to ensure that the benefits of such programs are maximized. Not later than January 1, 2012, the Secretary shall transmit to the Congress a report on the results of such review and oversight.

(Pub. L. 110-140, title VII, §704, Dec. 19, 2007, 121 Stat. 1709.)

**§ 17253. Geologic sequestration training and research**

**(a) Study**

**(1) In general**

The Secretary shall enter into an arrangement with the National Academy of Sciences to undertake a study that—

(A) defines an interdisciplinary program in geology, engineering, hydrology, environmental science, and related disciplines that will support the Nation’s capability to capture and sequester carbon dioxide from anthropogenic sources;

(B) addresses undergraduate and graduate education, especially to help develop graduate level programs of research and instruction that lead to advanced degrees with emphasis on geologic sequestration science;

(C) develops guidelines for proposals from colleges and universities with substantial capabilities in the required disciplines that seek to implement geologic sequestration science programs that advance the Nation’s capacity to address carbon management through geologic sequestration science; and

(D) outlines a budget and recommendations for how much funding will be necessary to establish and carry out the grant program under subsection (b).

**(2) Report**

Not later than 1 year after December 19, 2007, the Secretary shall transmit to the Congress a copy of the results of the study pro-