

tions, public service organizations, and government agencies as the Secretary determines appropriate to support timely and extensive development of safety codes and standards relating to fuel cell vehicles, hydrogen energy systems, and stationary, portable, and micro fuel cells.

**(b) Educational efforts**

The Secretary shall support educational efforts by organizations and agencies described in subsection (a) to share information, including information relating to best practices, among those organizations and agencies.

**(c) Authorization of appropriations**

There are authorized to be appropriated to carry out this section—

- (1) \$4,000,000 for fiscal year 2006;
- (2) \$7,000,000 for fiscal year 2007;
- (3) \$8,000,000 for fiscal year 2008;
- (4) \$10,000,000 for fiscal year 2009;
- (5) \$9,000,000 for fiscal year 2010; and
- (6) such sums as are necessary for each of fiscal years 2011 through 2020.

(Pub. L. 109–58, title VIII, § 809, Aug. 8, 2005, 119 Stat. 851.)

**§ 16159. Disclosure**

Section 13293 of this title shall apply to any project carried out through a grant, cooperative agreement, or contract under this subchapter.

(Pub. L. 109–58, title VIII, § 810, Aug. 8, 2005, 119 Stat. 852.)

**§ 16160. Reports**

**(a) Secretary**

Subject to subsection (c), not later than 2 years after August 8, 2005, and triennially thereafter, the Secretary shall submit to Congress a report describing—

- (1) activities carried out by the Department under this subchapter,<sup>1</sup> for hydrogen and fuel cell technology;
- (2) measures the Secretary has taken during the preceding 3 years to support the transition of primary industry (or a related industry) to a fully commercialized hydrogen economy;
- (3) any change made to the strategy relating to hydrogen and fuel cell technology to reflect the results of a learning demonstrations;
- (4) progress, including progress in infrastructure, made toward achieving the goal of producing and deploying not less than—
  - (A) 100,000 hydrogen-fueled vehicles in the United States by 2010; and
  - (B) 2,500,000 hydrogen-fueled vehicles in the United States by 2020;
- (5) progress made toward achieving the goal of supplying hydrogen at a sufficient number of fueling stations in the United States by 2010 including by integrating—
  - (A) hydrogen activities; and
  - (B) associated targets and timetables for the development of hydrogen technologies;
- (6) any problem relating to the design, execution, or funding of a program under this subchapter;

<sup>1</sup> So in original. The comma probably should not appear.

(7) progress made toward and goals achieved in carrying out this subchapter and updates to the developmental roadmap, including the results of the reviews conducted by the National Academy of Sciences under subsection (b) for the fiscal years covered by the report; and

(8) any updates to strategic plans that are necessary to meet the goals described in paragraph (4).

**(b) External review**

The Secretary shall enter into an arrangement with the National Academy of Sciences under which the Academy will review the programs under sections 16154 and 16157 of this title every fourth year following August 8, 2005. The Academy's review shall include the program priorities and technical milestones, and evaluate the progress toward achieving them. The first review shall be completed not later than 5 years after August 8, 2005. Not later than 45 days after receiving the review, the Secretary shall transmit the review to Congress along with a plan to implement the review's recommendations or an explanation for the reasons that a recommendation will not be implemented.

**(c) Authorization of appropriations**

There is authorized to be appropriated to carry out this section \$1,500,000 for each of fiscal years 2006 through 2020.

(Pub. L. 109–58, title VIII, § 811, Aug. 8, 2005, 119 Stat. 852.)

**§ 16161. Solar and wind technologies**

**(a) Solar energy technologies**

The Secretary shall—

- (1) prepare a detailed roadmap for carrying out the provisions in this subchapter related to solar energy technologies and for implementing the recommendations related to solar energy technologies that are included in the report transmitted under subsection (e);
- (2) provide for the establishment of 5 projects in geographic areas that are regionally and climatically diverse to demonstrate the production of hydrogen at solar energy facilities, including one demonstration project at a National Laboratory or institution of higher education;
- (3) establish a program—
  - (A) to develop optimized concentrating solar power devices that may be used for the production of both electricity and hydrogen; and
  - (B) to evaluate the use of thermochemical cycles for hydrogen production at the temperatures attainable with concentrating solar power devices;
- (4) coordinate with activities sponsored by the Department's Office of Nuclear Energy, Science, and Technology on high-temperature materials, thermochemical cycles, and economic issues related to solar energy;
- (5) provide for the construction and operation of new concentrating solar power devices or solar power cogeneration facilities that produce hydrogen either concurrently with, or independently of, the production of electricity;