

port containing detailed summaries of the roadmaps prepared under subsections (a)(1) and (b)(1), descriptions of the Secretary's progress in establishing the projects and other programs required under this section, and recommendations for promoting the availability of advanced solar and wind energy technologies for the production of hydrogen.

**(f) Definitions**

For purposes of this section—

(1) the term “concentrating solar power devices” means devices that concentrate the power of the sun by reflection or refraction to improve the efficiency of a photovoltaic or thermal generation process;

(2) the term “minority institution” has the meaning given to that term in section 1067k of title 20;

(3) the term “part B institution” has the meaning given to that term in section 1061 of title 20; and

(4) the term “photovoltaic devices” means devices that convert light directly into electricity through a solid-state, semiconductor process.

**(g) Authorization of appropriations**

There is authorized to be appropriated such sums as are necessary for carrying out the activities under this section for each of fiscal years 2006 through 2020.

(Pub. L. 109–58, title VIII, §812, Aug. 8, 2005, 119 Stat. 853.)

**§ 16162. Technology transfer**

In carrying out this subchapter, the Secretary shall carry out programs that—

(1) provide for the transfer of critical hydrogen and fuel cell technologies to the private sector;

(2) accelerate wider application of those technologies in the global market;

(3) foster the exchange of generic, nonproprietary information; and

(4) assess technical and commercial viability of technologies relating to the production, distribution, storage, and use of hydrogen energy and fuel cells.

(Pub. L. 109–58, title VIII, §813, Aug. 8, 2005, 119 Stat. 855.)

**§ 16163. Miscellaneous provisions**

**(a) Representation**

The Secretary may represent the United States interests with respect to activities and programs under this subchapter, in coordination with the Department of Transportation, the National Institute of Standards and Technology, and other relevant Federal agencies, before governments and nongovernmental organizations including—

(1) other Federal, State, regional, and local governments and their representatives;

(2) industry and its representatives, including members of the energy and transportation industries; and

(3) in consultation with the Department of State, foreign governments and their representatives including international organizations.

**(b) Regulatory authority**

Nothing in this subchapter shall be construed to alter the regulatory authority of the Department.

(Pub. L. 109–58, title VIII, §814, Aug. 8, 2005, 119 Stat. 855.)

**§ 16164. Cost sharing**

The costs of carrying out projects and activities under this subchapter shall be shared in accordance with section 16352 of this title.

(Pub. L. 109–58, title VIII, §815, Aug. 8, 2005, 119 Stat. 855.)

**§ 16165. Savings clause**

Nothing in this subchapter shall be construed to affect the authority of the Secretary of Transportation that may exist prior to August 8, 2005, with respect to—

(1) research into, and regulation of, hydrogen-powered vehicles fuel systems integrity, standards, and safety under subtitle VI of title 49;

(2) regulation of hazardous materials transportation under chapter 51 of title 49;

(3) regulation of pipeline safety under chapter 601 of title 49;

(4) encouragement and promotion of research, development, and deployment activities relating to advanced vehicle technologies under section 5506<sup>1</sup> of title 49;

(5) regulation of motor vehicle safety under chapter 301 of title 49;

(6) automobile fuel economy under chapter 329 of title 49; or

(7) representation of the interests of the United States with respect to the activities and programs under the authority of title 49.

(Pub. L. 109–58, title VIII, §816, Aug. 8, 2005, 119 Stat. 855.)

REFERENCES IN TEXT

Section 5506 of title 49, referred to in par. (4), was repealed by Pub. L. 112–141, div. E, title II, §2010(a), July 6, 2012, 126 Stat. 887.

SUBCHAPTER IX—RESEARCH AND DEVELOPMENT

**§ 16181. Goals**

**(a) In general**

In order to achieve the purposes of this subchapter, the Secretary shall conduct a balanced set of programs of energy research, development, demonstration, and commercial application with the general goals of—

(1) increasing the efficiency of all energy intensive sectors through conservation and improved technologies;

(2) promoting diversity of energy supply;

(3) decreasing the dependence of the United States on foreign energy supplies;

(4) improving the energy security of the United States; and

(5) decreasing the environmental impact of energy-related activities.

<sup>1</sup> See References in Text note below.