

participants in the project, and the commitment of the participants to completion of a successful project in a manner that will facilitate acceptance of the United States technology or service for future application; and

(G) such other criteria as may be appropriate.

(3) In selecting among proposed projects, the Secretary shall seek to ensure that, relative to otherwise comparable projects in the host country, a selected project will meet the following criteria:

(A) It will reduce environmental emissions, including greenhouse gases, to an extent greater than required by applicable provisions of law.

(B) It will be a more cost-effective technological alternative, based on life cycle capital and operating costs per unit of energy produced and, where applicable, costs per unit of product produced.

(C) It will increase the overall efficiency of energy use.

Priority in selection shall be given to those projects which, in the judgment of the Secretary, best meet these criteria.

**(j) United States-Asia Environmental Partnership**

Activities carried out under this section shall be coordinated with the United States-Asia Environmental Partnership.

**(k) Buy America**

In carrying out this section, the Secretary, through the Agency for International Development, and pursuant to the agreements under subsection (a), shall ensure—

(1) the maximum percentage, but in no case less than 50 percent, of the cost of any equipment furnished in connection with a project authorized under this section shall be attributable to the manufactured United States components of such equipment; and

(2) the maximum participation of United States firms.

In determining whether the cost of United States components equals or exceeds 50 percent, the cost of assembly of such United States components in the host country shall not be considered a part of the cost of such United States component.

**(l) Report to Congress**

The Secretary and the Administrator of the Agency for International Development shall report annually to the Committee on Energy and Natural Resources of the Senate and the appropriate committees of the House of Representatives on the progress being made to introduce innovative energy technologies, and services related thereto, that substantially reduce environmental pollutants, including greenhouse gases, into foreign countries.

**(m) Definitions**

For purposes of this section—

(1) the term “host country” means a foreign country which is—

(A) the participant in or the site of the proposed innovative energy technology project; and

(B) either—

(i) classified as a country eligible to participate in development assistance programs of the Agency for International Development pursuant to applicable law or regulation; or

(ii) a developing country; and

(2) the term “developing country” includes, but is not limited to, countries in Central and Eastern Europe or in the independent states of the former Soviet Union.

**(n) Authorization of appropriations**

There are authorized to be appropriated to the Secretary to carry out the program required by this section, \$100,000,000 for each of the fiscal years 1993, 1994, 1995, 1996, 1997, and 1998.

(Pub. L. 102-486, title XVI, §1608, Oct. 24, 1992, 106 Stat. 3003.)

**§ 13388. Global Climate Change Response Fund**

**(a) Establishment of Fund**

The Secretary of the Treasury, in consultation with the Secretary of State, shall establish a Global Climate Change Response Fund to act as a mechanism for United States contributions to assist global efforts in mitigating and adapting to global climate change.

**(b) Restrictions on deposits**

No deposits shall be made to the Global Climate Change Response Fund until the United States has ratified the United Nations Framework Convention on Climate Change.

**(c) Use of Fund**

Moneys deposited into the Fund shall be used by the President, to the extent authorized and appropriated under section 2222 of title 22, solely for contributions to a financial mechanism negotiated pursuant to the United Nations Framework Convention on Climate Change, including all protocols or agreements related thereto.

**(d) Authorization of appropriations**

There are authorized to be appropriated for deposit in the Fund to carry out the purposes of this section, \$50,000,000 for fiscal year 1994 and such sums as may be necessary for fiscal years 1995 and 1996.

(Pub. L. 102-486, title XVI, §1609, Oct. 24, 1992, 106 Stat. 3007.)

**§ 13389. Greenhouse gas intensity reducing strategies**

**(a) Definitions**

In this section:

**(1) Advisory Committee**

The term “Advisory Committee” means the Climate Change Technology Advisory Committee established under subsection (f)(1).

**(2) Carbon sequestration**

The term “carbon sequestration” means the capture of carbon dioxide through terrestrial, geological, biological, or other means, which prevents the release of carbon dioxide into the atmosphere.

**(3) Committee**

The term “Committee” means the Committee on Climate Change Technology established under subsection (b)(1).

**(4) Developing country**

The term “developing country” has the meaning given the term in section 13387(m) of this title.

**(5) Greenhouse gas**

The term “greenhouse gas” means—

- (A) carbon dioxide;
- (B) methane;
- (C) nitrous oxide;
- (D) hydrofluorocarbons;
- (E) perfluorocarbons; and
- (F) sulfur hexafluoride.

**(6) Greenhouse gas intensity**

The term “greenhouse gas intensity” means the ratio of greenhouse gas emissions to economic output.

**(7) National Laboratory**

The term “National Laboratory” has the meaning given the term in section 15801(3)<sup>1</sup> of this title.

**(b) Committee on Climate Change Technology****(1) In general**

Not later than 180 days after August 8, 2005, the President shall establish a Committee on Climate Change Technology to—

- (A) integrate current Federal climate reports; and
- (B) coordinate Federal climate change technology activities and programs carried out in furtherance of the strategy developed under subsection (c)(1).

**(2) Membership**

The Committee shall be composed of at least 7 members, including—

- (A) the Secretary, who shall chair the Committee;
- (B) the Secretary of Commerce;
- (C) the Chairman of the Council on Environmental Quality;
- (D) the Secretary of Agriculture;
- (E) the Administrator of the Environmental Protection Agency;
- (F) the Secretary of Transportation;
- (G) the Director of the Office of Science and Technology Policy; and
- (H) other representatives as may be determined by the President.

**(3) Staff**

The members of the Committee shall provide such personnel as are necessary to enable the Committee to perform its duties.

**(c) National climate change technology policy****(1) In general**

Not later than 18 months after August 8, 2005, the Committee shall, based on applicable Federal climate reports, submit to the Secretary and the President a national strategy to promote the deployment and commercialization of greenhouse gas intensity reducing technologies and practices developed through research and development programs conducted by the National Laboratories, other Federal research facilities, institutions of higher education, and the private sector.

**(2) Updates**

The Committee shall—

- (A) at the time of submission of the strategy to the President under paragraph (1), also make the strategy available to the public; and
- (B) update the strategy every 5 years, or more frequently as the Committee determines to be necessary.

**(d) Climate Change Technology Program**

Not later than 180 days after the date on which the Committee is established under subsection (b)(1), the Secretary, in consultation with the Committee, shall establish within the Department of Energy the Climate Change Technology Program to—

- (1) assist the Committee in the interagency coordination of climate change technology research, development, demonstration, and deployment to reduce greenhouse gas intensity; and
- (2) carry out the programs authorized under this section.

**(e) Technology inventory****(1) In general**

The Secretary shall conduct and make public an inventory and evaluation of greenhouse gas intensity reducing technologies that have been developed, or are under development, by the National Laboratories, other Federal research facilities, institutions of higher education, and the private sector to determine which technologies are suitable for commercialization and deployment.

**(2) Report**

Not later than 180 days after the completion of the inventory under paragraph (1), the Secretary shall submit to Congress a report that includes the results of the completed inventory and any recommendations of the Secretary.

**(3) Use**

The Secretary shall use the results of the inventory as guidance in the commercialization and deployment of greenhouse gas intensity reducing technologies.

**(4) Updated inventory**

The Secretary shall—

- (A) periodically update the inventory under paragraph (1), including when determined necessary by the Committee; and
- (B) make the updated inventory available to the public.

**(f) Climate Change Technology Advisory Committee****(1) In general**

The Secretary, in consultation with the Committee, may establish under section 7234 of this title a Climate Change Technology Advisory Committee to identify statutory, regulatory, economic, and other barriers to the commercialization and deployment of greenhouse gas intensity reducing technologies and practices in the United States.

**(2) Composition**

The Advisory Committee shall be composed of the following members, to be appointed by

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

the Secretary, in consultation with the Committee:

(A) 1 representative shall be appointed from each National Laboratory.

(B) 3 members shall be representatives of energy-producing trade organizations.

(C) 3 members shall represent energy-intensive trade organizations.

(D) 3 members shall represent groups that represent end-use energy and other consumers.

(E) 3 members shall be employees of the Federal Government who are experts in energy technology, intellectual property, and tax.

(F) 3 members shall be representatives of institutions of higher education with expertise in energy technology development that are recommended by the National Academy of Engineering.

### (3) Report

Not later than 1 year after August 8, 2005, and annually thereafter, the Advisory Committee shall submit to the Committee a report that describes—

(A) the findings of the Advisory Committee; and

(B) any recommendations of the Advisory Committee for the removal or reduction of barriers to commercialization, deployment, and increasing the use of greenhouse gas intensity reducing technologies and practices.

### (g) Greenhouse gas intensity reducing technology deployment

#### (1) In general

Based on the strategy developed under subsection (c)(1), the technology inventory conducted under subsection (e)(1), the greenhouse gas intensity reducing technology study report submitted under subsection (e)(2), and reports under subsection (f)(3), if any, the Committee shall develop recommendations that would provide for the removal of domestic barriers to the commercialization and deployment of greenhouse gas intensity reducing technologies and practices.

#### (2) Requirements

In developing the recommendations under paragraph (1), the Committee shall consider in the aggregate—

(A) the cost-effectiveness of the technology;

(B) fiscal and regulatory barriers;

(C) statutory and other barriers; and

(D) intellectual property issues.

#### (3) Demonstration projects

In developing recommendations under paragraph (1), the Committee may identify the need for climate change technology demonstration projects.

#### (4) Report

Not later than 18 months after August 8, 2005, the Committee shall submit to the President and Congress a report that—

(A) identifies, based on the report submitted under subsection (f)(3), any barriers to, and commercial risks associated with, the

deployment of greenhouse gas intensity reducing technologies; and

(B) includes a plan for carrying out demonstration projects.

### (5) Updates

The Committee shall—

(A) at the time of submission of the report to Congress under paragraph (4), also make the report available to the public; and

(B) update the report every 5 years, or more frequently as the Committee determines to be necessary.

### (h) Procedures for calculating, monitoring, and analyzing greenhouse gas intensity

The Secretary, in collaboration with the Committee and the National Institute of Standards and Technology, and after public notice and opportunity for comment, shall develop standards and best practices for calculating, monitoring, and analyzing greenhouse gas intensity.

### (i) Demonstration projects

#### (1) In general

The Secretary shall, subject to the availability of appropriations, support demonstration projects that—

(A) increase the reduction of the greenhouse gas intensity to levels below that which would be achieved by technologies being used in the United States as of August 8, 2005;

(B) maximize the potential return on Federal investment;

(C) demonstrate distinct roles in public-private partnerships;

(D) produce a large-scale reduction of greenhouse gas intensity if commercialization occurred; and

(E) support a diversified portfolio to mitigate the uncertainty associated with a single technology.

#### (2) Cost sharing

In supporting a demonstration project under this subsection, the Secretary shall require cost-sharing in accordance with section 16352 of this title.

#### (3) Authorization of appropriations

There are authorized to be appropriated such sums as are necessary to carry out this subsection.

### (j) Cooperative research and development agreements

In carrying out greenhouse gas intensity reduction research and technology deployment activities under this subtitle,<sup>2</sup> the Secretary may enter into cooperative research and development agreements under section 3710a of title 15.

(Pub. L. 102-486, title XVI, § 1610, as added Pub. L. 109-58, title XVI, § 1601, Aug. 8, 2005, 119 Stat. 1109.)

#### REFERENCES IN TEXT

Section 15801(3) of this title, referred to in subsec. (a)(7), was in the original “section 3(3) of the Energy Policy Act of 2005” and was translated as meaning sec-

<sup>2</sup> So in original. See References in Text note below.

tion 2(3) of that Act to reflect the probable intent of Congress, because the Energy Policy Act of 2005 does not contain a section 3 and section 2(3) defines “National Laboratory”.

This subtitle, referred to in subsec. (j), appearing in the original, is unidentifiable because title XVI of Pub. L. 102-486, of which this section is a part, does not contain subtitles.

#### SUBCHAPTER VIII—REDUCTION OF OIL VULNERABILITY

##### § 13401. Goals

It is the goal of the United States in carrying out energy supply and energy conservation research and development—

(1) to strengthen national energy security by reducing dependence on imported oil;

(2) to increase the efficiency of the economy by meeting future needs for energy services at the lowest total cost to the Nation, including environmental costs, giving comparable consideration to technologies that enhance energy supply and technologies that improve the efficiency of energy end uses;

(3) to reduce the air, water, and other environmental impacts (including emissions of greenhouse gases) of energy production, distribution, transportation, and utilization, through the development of an environmentally sustainable energy system;

(4) to maintain the technological competitiveness of the United States and stimulate economic growth through the development of advanced materials and technologies;

(5) to foster international cooperation by developing international markets for domestically produced sustainable energy technologies, and by transferring environmentally sound, advanced energy systems and technologies to developing countries to promote sustainable development;

(6) to consider the comparative environmental and public health impacts of the energy to be produced or saved by the specific activities;

(7) to consider the obstacles inherent in private industry’s development of new energy technologies and steps necessary for establishing or maintaining technological leadership in the area of energy and energy efficiency resource technologies; and

(8) to consider the contribution of a given activity to fundamental scientific knowledge.

(Pub. L. 102-486, title XX, §2001, Oct. 24, 1992, 106 Stat. 3057.)

#### PART A—OIL AND GAS SUPPLY ENHANCEMENT

##### § 13411. Enhanced oil recovery

###### (a) Program direction

The Secretary shall conduct a 5-year program, in accordance with sections 13541 and 13542 of this title, on technologies to increase the recoverability of domestic oil resources to—

(1) improve reservoir characterization;

(2) improve analysis and field verification;

(3) field test and demonstrate enhanced oil recovery processes, including advanced processes, in reservoirs the Secretary considers to be of high priority, ranked primarily on the

basis of oil recovery potential and risk of abandonment;

(4) transfer proven recovery technologies to producers and operators of wells, including stripper wells, that would otherwise be likely to be abandoned in the near term due to declining production;

(5) improve enhanced oil recovery process technology for more economic and efficient oil production;

(6) identify and develop new recovery technologies;

(7) study reservoir properties and how they affect oil recovery from porous media;

(8) improve techniques for meeting environmental requirements;

(9) improve data bases of reservoir and environmental conditions; and

(10) lower lifting costs on stripper wells by utilizing advanced renewable energy technologies such as small wind turbines and others.

###### (b) Program goals

###### (1) Near-term priorities

The near-term priorities of the program include preserving access to high potential reservoirs, identifying available technologies that can extend the lifetime of wells and of stripper well property, and developing environmental field operations for waste disposal and injection practices.

###### (2) Mid-term priorities

The mid-term priorities of the program include developing and testing identified but unproven technologies, and transferring those technologies for widespread use.

###### (3) Long-term priorities

The long-term priorities of the program include developing advanced techniques to recover oil not recoverable by other techniques.

###### (c) Accelerated program plan

Within 180 days after October 24, 1992, the Secretary shall prepare and submit to the Congress a plan for carrying out under this section the accelerated field testing of technologies to achieve the priorities stated in subsection (b). In preparing the plan, the Secretary shall consult with appropriate representatives of industry, institutions of higher education, Federal agencies, including national laboratories, and professional and technical societies, and with the Advisory Board established under section 13522 of this title.

###### (d) Proposals

Within 1 year after October 24, 1992, the Secretary shall solicit proposals for conducting activities under this section.

###### (e) Consultation

In carrying out the provisions of this section, the Secretary shall consult representatives of the oil and gas industry with respect to innovative research and development proposals to improve oil and gas recovery and shall consider relevant technical data from industry and other research and information centers and institutes.

###### (f) Authorization of appropriations

There are authorized to be appropriated to the Secretary for carrying out this section, includ-