

**§ 16298e. Carbon dioxide removal task force and report**

**(a) Definition of carbon dioxide removal**

In this section, the term “carbon dioxide removal” means the capture of carbon dioxide directly from ambient air or, in dissolved form, from seawater, combined with the sequestration of that carbon dioxide, including through—

- (1) direct air capture and sequestration;
- (2) enhanced carbon mineralization;
- (3) bioenergy with carbon capture and sequestration;
- (4) forest restoration;
- (5) soil carbon management; and
- (6) direct ocean capture.

**(b) Report**

Not later than 180 days after December 27, 2020, the Secretary of Energy (in this section referred to as the “Secretary”), in consultation with the heads of any other relevant Federal agencies, shall prepare a report that—

- (1) estimates the magnitude of excess carbon dioxide in the atmosphere that will need to be removed by 2050 to achieve net-zero emissions and stabilize the climate;
- (2) inventories current and emerging approaches of carbon dioxide removal and evaluates the advantages and disadvantages of each of the approaches; and
- (3) identifies recommendations for legislation, funding, rules, revisions to rules, financing mechanisms, or other policy tools that the Federal Government can use to sufficiently advance the deployment of carbon dioxide removal projects in order to meet, in the aggregate, the magnitude of needed removals estimated under paragraph (1), including policy tools, such as—
  - (A) grants;
  - (B) loans or loan guarantees;
  - (C) public-private partnerships;
  - (D) direct procurement;
  - (E) incentives, including subsidized Federal financing mechanisms available to project developers;
  - (F) advance market commitments;
  - (G) regulations; and
  - (H) any other policy mechanism determined by the Secretary to be beneficial for advancing carbon dioxide removal methods and the deployment of carbon dioxide removal projects.

**(c) Submission; publication**

The Secretary shall—

- (1) submit the report prepared under subsection (b) to the Committee on Energy and Natural Resources of the Senate and the Committees on Energy and Commerce and Science, Space, and Technology of the House of Representatives; and
- (2) as soon as practicable after completion of the report, make the report publicly available.

**(d) Evaluation; revision**

**(1) In general**

Not later than 2 years after the date on which the Secretary publishes the report under subsection (c)(2), and every 2 years thereafter, the Secretary shall evaluate the

findings and recommendations of the report, or the most recent updated report submitted under paragraph (2)(B), as applicable, taking into consideration any issues and recommendations identified by the task force established under subsection (e)(1).

**(2) Revision**

After completing each evaluation under paragraph (1), the Secretary shall—

(A) revise the report as necessary; and

(B) if the Secretary revises the report under subparagraph (A), submit and publish the updated report in accordance with subsection (c).

**(e) Task force**

**(1) Establishment and duties**

Not later than 60 days after December 27, 2020, the Secretary shall establish a task force—

(A) to identify barriers to advancement of carbon dioxide removal methods and the deployment of carbon dioxide removal projects;

(B) to inventory existing or potential Federal legislation, rules, revisions to rules, financing mechanisms, or other policy tools that are capable of advancing carbon dioxide removal methods and the deployment of carbon dioxide removal projects;

(C) to assist in preparing the report described in subsection (b) and any updates to the report under subsection (d); and

(D) to advise the Secretary on matters pertaining to carbon dioxide removal.

**(2) Members and selection**

The Secretary shall—

(A) develop criteria for the selection of members to the task force established under paragraph (1); and

(B) select members for the task force in accordance with the criteria developed under subparagraph (A).

**(3) Meetings**

The task force shall meet not less frequently than once each year.

**(4) Evaluation**

Not later than 7 years after December 27, 2020, the Secretary shall—

(A) reevaluate the need for the task force established under paragraph (1); and

(B) submit to Congress a recommendation as to whether the task force should continue.

(Pub. L. 116-260, div. Z, title V, §5002, Dec. 27, 2020, 134 Stat. 2550.)

**Editorial Notes**

**CODIFICATION**

Section was enacted as part of the Energy Act of 2020, and not as part of the Energy Policy Act of 2005 which comprises this chapter.

**PART G—SCIENCE**

**§ 16311. Science**

**(a) In general**

The Secretary shall conduct, through the Office of Science, programs of research, develop-

ment, demonstration, and commercial application in high energy physics, nuclear physics, biological and environmental research, basic energy sciences, advanced scientific computing research, and fusion energy sciences, including activities described in this part. The programs shall include support for facilities and infrastructure, education, outreach, information, analysis, and coordination activities.

**(b) Authorization of appropriations**

There are authorized to be appropriated to the Secretary to carry out research, development, demonstration, and commercial application activities of the Office of Science, including activities authorized under this part (including the amounts authorized under the amendment made by section 976(b)<sup>1</sup> and including basic energy sciences, advanced scientific and computing research, biological and environmental research, fusion energy sciences, high energy physics, nuclear physics, research analysis, and infrastructure support)—

- (1) \$4,153,000,000 for fiscal year 2007;
- (2) \$4,586,000,000 for fiscal year 2008;
- (3) \$5,200,000,000 for fiscal year 2009;
- (4) \$5,814,000,000 for fiscal year 2010;
- (5) \$5,247,000,000 for fiscal year 2011;
- (6) \$5,614,000,000 for fiscal year 2012; and
- (7) \$6,007,000,000 for fiscal year 2013.

**(c) Allocations**

From amounts authorized under subsection (b), the following sums are authorized:

(1) For activities under the Fusion Energy Sciences program (including activities under section 16312 of this title)—

- (A) \$355,500,000 for fiscal year 2007;
- (B) \$369,500,000 for fiscal year 2008;
- (C) \$384,800,000 for fiscal year 2009; and

(D) in addition to the amounts authorized under subparagraphs (A), (B), and (C), such sums as may be necessary for ITER construction, consistent with the limitations of section 16312(c)(5) of this title.

(2) For activities under the catalysis research program under section 16313 of this title—

- (A) \$36,500,000 for fiscal year 2007;
- (B) \$38,200,000 for fiscal year 2008; and
- (C) such sums as may be necessary for fiscal year 2009.

(3) For activities under the Systems Biology Program under section 16317 of this title such sums as may be necessary for each of fiscal years 2007 through 2009.

(4) For activities under the Energy and Water Supplies program under section 16319 of this title, \$30,000,000 for each of fiscal years 2007 through 2009.

(5) For the energy research fellowships programs under section 16324 of this title, \$40,000,000 for each of fiscal years 2007 through 2009.

(6) For the advanced scientific computing activities under section 976—<sup>1</sup>

- (A) \$270,000,000 for fiscal year 2007;
- (B) \$350,000,000 for fiscal year 2008; and
- (C) \$375,000,000 for fiscal year 2009.

(7) For the science and engineering education pilot program under section 16323 of this title—

- (A) \$4,000,000 for each of fiscal years 2007 and 2008; and
- (B) \$8,000,000 for fiscal year 2009.

**(d) Integrated bioenergy research and development**

In addition to amounts otherwise authorized by this section, there are authorized to be appropriated to the Secretary for integrated bioenergy research and development programs, projects, and activities, \$49,000,000 for each of the fiscal years 2005 through 2009. Activities funded under this subsection shall be coordinated with ongoing related programs of other Federal agencies, including the Plant Genome Program of the National Science Foundation. Of the funds authorized under this subsection, at least \$5,000,000 for each fiscal year shall be for training and education targeted to minority and socially disadvantaged farmers and ranchers.

(Pub. L. 109-58, title IX, §971, Aug. 8, 2005, 119 Stat. 898; Pub. L. 110-69, title V, §5007, Aug. 9, 2007, 121 Stat. 617; Pub. L. 111-358, title IX, §903, Jan. 4, 2011, 124 Stat. 4045.)

**Editorial Notes**

REFERENCES IN TEXT

This part, referred to in subsecs. (a) and (b), was in the original “this subtitle”, meaning subtitle G (§§971-984A) of title IX of Pub. L. 109-58, Aug. 8, 2005, 119 Stat. 898, which enacted this part and amended section 5523 of Title 15, Commerce and Trade. For complete classification of subtitle G to the Code, see Tables.

Section 976, referred to in subsecs. (b) and (c)(6), is section 976 of Pub. L. 109-58. Subsection (a) of section 976 is classified to section 16316 of this title and subsection (b) of section 976 amended section 5523 of Title 15, Commerce and Trade.

AMENDMENTS

2011—Subsec. (b)(5) to (7). Pub. L. 111-358 added pars. (5) to (7).

2007—Subsec. (b)(4). Pub. L. 110-69 added par. (4).

**§ 16312. Fusion energy sciences program**

**(a) Declaration of policy**

It shall be the policy of the United States to conduct research, development, demonstration, and commercial applications to provide for the scientific, engineering, and commercial infrastructure necessary to ensure that the United States is competitive with other countries in providing fusion energy for its own needs and the needs of other countries, including by demonstrating electric power or hydrogen production for the United States energy grid using fusion energy at the earliest date.

**(b) Planning**

**(1) In general**

Not later than 180 days after August 8, 2005, the Secretary shall submit to Congress a plan (with proposed cost estimates, budgets, and lists of potential international partners) for the implementation of the policy described in subsection (a) in a manner that ensures that—

- (A) existing fusion research facilities are more fully used;

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