

of carbon dioxide. The preference provided for under this subparagraph shall not delay the implementation of the large-scale sequestration tests under this paragraph.

**(D) Definition**

For purposes of this paragraph, the term “large-scale” means the injection of more than 1,000,000 tons of carbon dioxide from industrial sources annually or a scale that demonstrates the ability to inject and sequester several million metric tons of industrial source carbon dioxide for a large number of years.

**(4) Preference in project selection from meritorious proposals**

In making competitive awards under this subsection, subject to the requirements of section 16353 of this title, the Secretary shall—

(A) give preference to proposals from partnerships among industrial, academic, and government entities; and

(B) require recipients to provide assurances that all laborers and mechanics employed by contractors and subcontractors in the construction, repair, or alteration of new or existing facilities performed in order to carry out a demonstration or commercial application activity authorized under this subsection shall be paid wages at rates not less than those prevailing on similar construction in the locality, as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, and the Secretary of Labor shall, with respect to the labor standards in this paragraph, have the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (15 Fed. Reg. 3176; 5 U.S.C. Appendix) and section 3145 of title 40.

**(5) Cost sharing**

Activities under this subsection shall be considered research and development activities that are subject to the cost sharing requirements of section 16352(b) of this title.

**(6) Program review and report**

During fiscal year 2011, the Secretary shall—

(A) conduct a review of programmatic activities carried out under this subsection; and

(B) make recommendations with respect to continuation of the activities.

**(d) Authorization of appropriations**

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

- (1) \$240,000,000 for fiscal year 2008;
- (2) \$240,000,000 for fiscal year 2009;
- (3) \$240,000,000 for fiscal year 2010;
- (4) \$240,000,000 for fiscal year 2011; and
- (5) \$240,000,000 for fiscal year 2012.

(Pub. L. 109–58, title IX, §963, Aug. 8, 2005, 119 Stat. 891; Pub. L. 110–140, title VII, §702(a), Dec. 19, 2007, 121 Stat. 1704.)

AMENDMENTS

2007—Pub. L. 110–140, §702(a)(1), substituted “and sequestration research, development, and demonstration” for “research and development” in section catchline.

Subsec. (a). Pub. L. 110–140, §702(a)(2), in introductory provisions, substituted “and sequestration research, development, and demonstration” for “research and development” and “capture and sequestration technologies related to industrial sources of carbon dioxide” for “capture technologies on combustion-based systems”.

Subsec. (b)(5). Pub. L. 110–140, §702(a)(3), added par. (5).

Subsecs. (c), (d). Pub. L. 110–140, §702(a)(4), added subsecs. (c) and (d) and struck out former subsec. (c). Text of former subsec. (c) read as follows: “From amounts authorized under section 16291(b) of this title, the following sums are authorized for activities described in subsection (a)(2):

- “(1) \$25,000,000 for fiscal year 2006;
- “(2) \$30,000,000 for fiscal year 2007; and
- “(3) \$35,000,000 for fiscal year 2008.”

EFFECTIVE DATE OF 2007 AMENDMENT

Amendment by Pub. L. 110–140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

**§ 16294. Research and development for coal mining technologies**

**(a) Establishment**

The Secretary shall carry out a program for research and development on coal mining technologies.

**(b) Cooperation**

In carrying out the program, the Secretary shall cooperate with appropriate Federal agencies, coal producers, trade associations, equipment manufacturers, institutions of higher education with mining engineering departments, and other relevant entities.

**(c) Program**

The research and development activities carried out under this section shall—

(1) be guided by the mining research and development priorities identified by the Mining Industry of the Future Program and in the recommendations from relevant reports of the National Academy of Sciences on mining technologies;

(2) include activities exploring minimization of contaminants in mined coal that contribute to environmental concerns including development and demonstration of electromagnetic wave imaging ahead of mining operations;

(3) develop and demonstrate coal bed electromagnetic wave imaging, spectroscopic reservoir analysis technology, and techniques for horizontal drilling in order to—

- (A) identify areas of high coal gas content;
- (B) increase methane recovery efficiency;
- (C) prevent spoilage of domestic coal reserves; and
- (D) minimize water disposal associated with methane extraction; and

(4) expand mining research capabilities at institutions of higher education.

(Pub. L. 109–58, title IX, §964, Aug. 8, 2005, 119 Stat. 892.)

**§ 16295. Oil and gas research programs**

**(a) In general**

The Secretary shall conduct a program of research, development, demonstration, and commercial application of oil and gas, including—