

(Pub. L. 102-486, title XIII, § 1305, Oct. 24, 1992, 106 Stat. 2973.)

**§ 13336. Coalbed methane recovery**

**(a) Study of barriers and environmental and safety aspects**

The Secretary, in consultation with the Administrator of the Environmental Protection Agency and the Secretary of the Interior, shall conduct a study of—

(1) technical, economic, financial, legal, regulatory, institutional, or other barriers to coalbed methane recovery, and of policy options for eliminating such barriers; and

(2) the environmental and safety aspects of flaring coalbed methane liberated from coal mines.

Within two years after October 24, 1992, the Secretary shall submit a report to the Congress detailing the results of such study.

**(b) Information dissemination**

Beginning one year after October 24, 1992, the Secretary, in consultation with the Administrator of the Environmental Protection Agency and the Secretary of the Interior, shall disseminate to the public information on state-of-the-art coalbed methane recovery techniques, including information on costs and benefits.

**(c) Demonstration and commercial application program**

The Secretary, in consultation with the Administrator of the Environmental Protection Agency and the Secretary of the Interior, shall establish a coalbed methane recovery demonstration and commercial application program, which shall emphasize gas enrichment technology. Such program shall address—

(1) gas enrichment technologies for enriching medium-quality methane recovered from coal mines to pipeline quality;

(2) technologies to use mine ventilation air in nearby power generation facilities, including gas turbines, internal combustion engines, or other coal fired powerplants;

(3) technologies for cofiring methane recovered from mines, including methane from ventilation systems and degasification systems, together with coal in conventional or clean coal technology boilers; and

(4) other technologies for producing and using methane from coal mines that the Secretary considers appropriate.

(Pub. L. 102-486, title XIII, § 1306, Oct. 24, 1992, 106 Stat. 2974.)

**§ 13337. Metallurgical coal development**

(a) The Secretary shall establish a research, development, demonstration, and commercial application program on metallurgical coal utilization for the purpose of developing techniques that will lead to the greater and more efficient utilization of the Nation's metallurgical coal resources.

(b) The program referred to in subsection (a) of this section shall include the use of metallurgical coal—

(1) as a boiler fuel for the purpose of generating steam to produce electricity, including

blending metallurgical coal with other coals in order to enhance its efficient application as a boiler fuel;

(2) as an ingredient in the manufacturing of steel; and

(3) as a source of pipeline quality coalbed methane.

(Pub. L. 102-486, title XIII, § 1307, Oct. 24, 1992, 106 Stat. 2975.)

**§ 13338. Utilization of coal wastes**

**(a) Coal waste utilization program**

The Secretary, in consultation with the Secretary of the Interior, shall establish a research, development, demonstration, and commercial application program on coal waste utilization for the purpose of developing techniques that will lead to the greater and more efficient utilization of coal wastes from mining and processing, other than coal ash.

**(b) Use as boiler fuel**

The program referred to in subsection (a) of this section shall include projects to facilitate the use of coal wastes from mining and processing as a boiler fuel for the purpose of generating steam to produce electricity.

(Pub. L. 102-486, title XIII, § 1308, Oct. 24, 1992, 106 Stat. 2975.)

**§ 13339. Underground coal gasification**

**(a) Program**

The Secretary shall conduct a research, development, demonstration, and commercial application program for underground coal gasification technology for in-situ conversion of coal to a cleaner burning, easily transportable gaseous fuel. The goal and objective of this program shall be to accelerate the development and commercialization of underground coal gasification. In carrying out this program, the Secretary shall give equal consideration to all ranks of coal.

**(b) Demonstration projects**

As part of the program authorized in subsection (a) of this section, the Secretary may solicit proposals for underground coal gasification technology projects to fulfill the goal and objective of subsection (a) of this section.

(Pub. L. 102-486, title XIII, § 1309, Oct. 24, 1992, 106 Stat. 2975.)

**§ 13340. Low-rank coal research and development**

The Secretary shall pursue a program of research and development with respect to the technologies needed to expand the use of low-rank coals which take into account the unique properties of lignites and sub-bituminous coals, including, but not limited to, the following areas—

(1) high value-added carbon products;

(2) fuel cell applications;

(3) emissions control and combustion efficiencies;

(4) coal water fuels and underground coal gasification;

(5) distillates; and

(6) any other technologies which will assist in the development of niche markets for lignites and sub-bituminous coals.

(Pub. L. 102-486, title XIII, § 1310, Oct. 24, 1992, 106 Stat. 2975.)

#### § 13341. Magnetohydrodynamics

##### (a) Program

The Secretary shall carry out a research, development, demonstration, and commercial application program in magnetohydrodynamics. The purpose of this program shall be to determine the adequacy of the engineering and design information completed to date under Department of Energy contracts related to magnetohydrodynamics retrofit systems and to determine whether any further Federal investment in this technology is warranted.

##### (b) Solicitation of proposals

In order to carry out the program authorized in subsection (a) of this section, the Secretary may solicit proposals from the private sector and seek to enter into an agreement with appropriate parties.

(Pub. L. 102-486, title XIII, § 1311, Oct. 24, 1992, 106 Stat. 2976.)

#### § 13342. Oil substitution through coal liquefaction

##### (a) Program direction

The Secretary shall conduct a program of research, development, demonstration, and commercial application for the purpose of developing economically and environmentally acceptable advanced technologies for oil substitution through coal liquefaction.

##### (b) Program goals

The goals of the program established under subsection (a) of this section shall include—

- (1) improved resource selection and product quality;
- (2) the development of technologies to increase net yield of liquid fuel product per ton of coal;
- (3) an increase in overall thermal efficiency; and
- (4) a reduction in capital and operating costs through technology improvements.

##### (c) Proposals

Within 180 days after October 24, 1992, the Secretary shall solicit proposals for conducting activities under this section.

(Pub. L. 102-486, title XIII, § 1312, Oct. 24, 1992, 106 Stat. 2976.)

#### § 13343. Authorization of appropriations

There are authorized to be appropriated to the Secretary for carrying out this part \$278,139,000 for fiscal year 1993 and such sums as may be necessary for fiscal years 1994 through 1997.

(Pub. L. 102-486, title XIII, § 1313, Oct. 24, 1992, 106 Stat. 2976.)

#### PART B—CLEAN COAL TECHNOLOGY PROGRAM

#### § 13351. Additional clean coal technology solicitations

##### (a) Program design

Additional clean coal technology solicitations described in subsection (b) of this section shall

be designed to ensure the timely development of cost-effective technologies or energy production processes or systems utilizing coal that achieve greater efficiency in the conversion of coal to useful energy when compared to currently commercially available technology for the use of coal and the control of emissions from the combustion of coal. Such program shall be designed to ensure, to the greatest extent possible, the availability for commercial use of such technologies by the year 2010.

##### (b) Additional solicitations

In conducting the Clean Coal Program established by Public Law 98-473, the Secretary shall consider the potential benefits of conducting additional solicitations pursuant to such program and, based on the results of that consideration, may carry out such additional solicitations, which shall be similar in scope and percentage of Federal cost sharing as that provided by Public Law 101-121.

(Pub. L. 102-486, title XIII, § 1321, Oct. 24, 1992, 106 Stat. 2976.)

#### REFERENCES IN TEXT

Public Law 98-473, referred to in subsec. (b), is Pub. L. 98-473, Oct. 12, 1984, 98 Stat. 1837, as amended. For complete classification of this Act to the Code, see Tables.

Public Law 101-121, referred to in subsec. (b), is Pub. L. 101-121, Oct. 23, 1989, 103 Stat. 701, as amended. For complete classification of this Act to the Code, see Tables.

#### PART C—OTHER COAL PROVISIONS

#### § 13361. Clean coal technology export promotion and interagency coordination

##### (a) Establishment

There shall be established within the Trade Promotion Coordinating Committee (established by the President on May 23, 1990) a Clean Coal Technology Subgroup (in this part referred to as the “CCT Subgroup”) to focus interagency efforts on clean coal technologies. The CCT Subgroup shall seek to expand the export and use of clean coal technologies, particularly in those countries which can benefit from gains in the efficiency of, and the control of environmental emissions from, coal utilization.

##### (b) Membership

The CCT Subgroup shall include 1 member from each agency represented on the Energy, Environment, and Infrastructure Working Group of the Trade Promotion Coordinating Committee as of October 24, 1992. The Secretary shall serve as chair of the CCT Subgroup and shall be responsible for ensuring that the functions of the CCT Subgroup are carried out through its member agencies.

##### (c) Consultation

(1) In carrying out this section, the CCT Subgroup shall consult with representatives from the United States coal industry, representatives of railroads and other transportation industries, organizations representing workers, the electric utility industry, manufacturers of equipment utilizing clean coal technology, members of organizations formed to further the goals of envi-