

onstrate production of energy from coal mined in the western United States using integrated gasification combined cycle technology (referred to in this section as the “demonstration project”).

(b) Components

The demonstration project—

(1) may include repowering of existing facilities;

(2) shall be designed to demonstrate the ability to use coal with an energy content of not more than 9,000 Btu/lb.; and

(3) shall be capable of removing and sequestering carbon dioxide emissions.

(c) All types of western coals

Notwithstanding the foregoing, and to the extent economically feasible, the demonstration project shall also be designed to demonstrate the ability to use a variety of types of coal (including subbituminous and bituminous coal with an energy content of up to 13,000 Btu/lb.) mined in the western United States.

(d) Location

The demonstration project shall be located in a western State at an altitude of greater than 4,000 feet above sea level.

(e) Cost sharing

The Federal share of the cost of the demonstration project shall be determined in accordance with section 16352 of this title.

(f) Loan guarantees

Notwithstanding subchapter XIII, the demonstration project shall not be eligible for Federal loan guarantees.

(Pub. L. 109–58, title IV, §413, Aug. 8, 2005, 119 Stat. 755.)

Editorial Notes

REFERENCES IN TEXT

Subchapter XIII, referred to in subsec. (f), was in the original “title XIV”, meaning title XIV of Pub. L. 109–58, Aug. 8, 2005, 119 Stat. 1061, which enacted subchapter XIII of this chapter and section 13557 of this title. For complete classification of title XIV to the Code, see Tables.

§ 15974. Coal gasification

The Secretary is authorized to provide loan guarantees for a project to produce energy from a plant using integrated gasification combined cycle technology of at least 400 megawatts in capacity that produces power at competitive rates in deregulated energy generation markets and that does not receive any subsidy (direct or indirect) from ratepayers.

(Pub. L. 109–58, title IV, §414, Aug. 8, 2005, 119 Stat. 755.)

§ 15975. Petroleum coke gasification

The Secretary is authorized to provide loan guarantees for at least 5 petroleum coke gasification projects.

(Pub. L. 109–58, title IV, §415, Aug. 8, 2005, 119 Stat. 756.)

§ 15976. Electron scrubbing demonstration

The Secretary shall use \$5,000,000 from amounts appropriated to initiate, through the

Chicago Operations Office, a project to demonstrate the viability of high-energy electron scrubbing technology on commercial-scale electrical generation using high-sulfur coal.

(Pub. L. 109–58, title IV, §416, Aug. 8, 2005, 119 Stat. 756.)

§ 15977. Department of Energy transportation fuels from Illinois basin coal

(a) In general

The Secretary shall carry out a program to evaluate the commercial and technical viability of advanced technologies for the production of Fischer-Tropsch transportation fuels, and other transportation fuels, manufactured from Illinois basin coal, including the capital modification of existing facilities and the construction of testing facilities under subsection (b).

(b) Facilities

For the purpose of evaluating the commercial and technical viability of different processes for producing Fischer-Tropsch transportation fuels, and other transportation fuels, from Illinois basin coal, the Secretary shall support the use and capital modification of existing facilities and the construction of new facilities at—

(1) Southern Illinois University Coal Research Center;

(2) University of Kentucky Center for Applied Energy Research; and

(3) Energy Center at Purdue University.

(c) Gasification products test center

In conjunction with the activities described in subsections (a) and (b), the Secretary shall construct a test center to evaluate and confirm liquid and gas products from syngas catalysis in order that the system has an output of at least 500 gallons of Fischer-Tropsch transportation fuel per day in a 24-hour operation.

(d) Milestones

(1) Selection of processes

Not later than 180 days after August 8, 2005, the Secretary shall select processes for evaluating the commercial and technical viability of different processes of producing Fischer-Tropsch transportation fuels, and other transportation fuels, from Illinois basin coal.

(2) Agreements

Not later than 1 year after August 8, 2005, the Secretary shall offer to enter into agreements—

(A) to carry out the activities described in this section, at the facilities described in subsection (b); and

(B) for the capital modifications or construction of the facilities at the locations described in subsection (b).

(3) Evaluations

Not later than 3 years after August 8, 2005, the Secretary shall begin, at the facilities described in subsection (b), evaluation of the technical and commercial viability of different processes of producing Fischer-Tropsch transportation fuels, and other transportation fuels, from Illinois basin coal.

(4) Construction of facilities**(A) In general**

The Secretary shall construct the facilities described in subsection (b) at the lowest cost practicable.

(B) Grants or agreements

The Secretary may make grants or enter into agreements or contracts with the institutions of higher education described in subsection (b).

(e) Cost sharing

The cost of making grants under this section shall be shared in accordance with section 16352 of this title.

(f) Authorization of appropriations

There is authorized to be appropriated to carry out this section \$85,000,000 for the period of fiscal years 2006 through 2010.

(Pub. L. 109-58, title IV, §417, Aug. 8, 2005, 119 Stat. 756.)

PART C—FEDERAL COAL LEASES

§ 15991. Inventory requirement**(a) Review of assessments****(1) In general**

The Secretary of the Interior, in consultation with the Secretary of Agriculture and the Secretary, shall review coal assessments and other available data to identify—

(A) Federal lands with coal resources that are available for development;

(B) the extent and nature of any restrictions on the development of coal resources on Federal lands identified under paragraph (1); and

(C) with respect to areas of such lands for which sufficient data exists, resources of compliant coal and supercompliant coal.

(2) Definitions

For purposes of this subsection—

(A) the term “compliant coal” means coal that contains not less than 1.0 and not more than 1.2 pounds of sulfur dioxide per million Btu; and

(B) the term “supercompliant coal” means coal that contains less than 1.0 pounds of sulfur dioxide per million Btu.

(b) Completion and updating of the inventory

The Secretary—

(1) shall complete the inventory under subsection (a) by not later than 2 years after August 8, 2005; and

(2) shall update the inventory as the availability of data and developments in technology warrant.

(c) Report

The Secretary shall submit to the Committee on Resources of the House of Representatives and to the Committee on Energy and Natural Resources of the Senate and make publicly available—

(1) a report containing the inventory under this section, by not later than 2 years after the effective date of this section; and

(2) each update of such inventory.

(Pub. L. 109-58, title IV, §437, Aug. 8, 2005, 119 Stat. 762.)

Editorial Notes

REFERENCES IN TEXT

The effective date of this section, referred to in subsec. (c)(1), probably means the date of enactment of Pub. L. 109-58, which enacted this section.

Statutory Notes and Related Subsidiaries

CHANGE OF NAME

Committee on Resources of House of Representatives changed to Committee on Natural Resources of House of Representatives by House Resolution No. 6, One Hundred Tenth Congress, Jan. 5, 2007.

SHORT TITLE

For short title of subtitle D of title IV of Pub. L. 109-58, which enacted this part, as the “Coal Leasing Amendments Act of 2005”, see section 431 of Pub. L. 109-58, set out as a note under section 15801 of this title.

SUBCHAPTER V—INDIAN ENERGY

§ 16001. Energy efficiency in federally assisted housing

The Secretary of Housing and Urban Development shall promote energy conservation in housing that is located on Indian land and assisted with Federal resources through—

(1) the use of energy-efficient technologies and innovations (including the procurement of energy-efficient refrigerators and other appliances);

(2) the promotion of shared savings contracts; and

(3) the use and implementation of such other similar technologies and innovations as the Secretary of Housing and Urban Development considers to be appropriate.

(Pub. L. 109-58, title V, §506(a), Aug. 8, 2005, 119 Stat. 779.)

Statutory Notes and Related Subsidiaries

SHORT TITLE

For short title of title V of Pub. L. 109-58, which enacted this subchapter, as the “Indian Tribal Energy Development and Self-Determination Act of 2005”, see section 501 of Pub. L. 109-58, set out as a note under section 15801 of this title.

SUBCHAPTER VI—NUCLEAR MATTERS

PART A—GENERAL NUCLEAR MATTERS

§ 16011. Demonstration hydrogen production at existing nuclear power plants**(a) Demonstration projects**

The Secretary shall provide for the establishment of 2 projects in geographic areas that are regionally and climatically diverse that demonstrate the commercial production of hydrogen at existing nuclear power plants.

(b) Economic analysis

Prior to making an award under subsection (a), the Secretary shall determine whether the use of existing nuclear power plants is a cost-effective means of producing hydrogen.