

vided under subsection (b) to support energy research and development activities, to remain available until expended, subject to any other conditions in an applicable appropriations Act.

**(e) Authorization of appropriations**

There are authorized to be appropriated such sums as are necessary to provide the cost of a direct loan under subsection (b).

(Pub. L. 109-58, title IV, §412, Aug. 8, 2005, 119 Stat. 754.)

**§ 15973. Western integrated coal gasification demonstration project**

**(a) In general**

Subject to the availability of appropriations, the Secretary shall carry out a project to demonstrate 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.