

(5) optimized transmission line configurations (including multiple phased transmission lines);

(6) modular equipment;

(7) wireless power transmission;

(8) ultra-high voltage lines;

(9) high-voltage DC technology;

(10) flexible AC transmission systems;

(11) energy storage devices (including pumped hydro, compressed air, superconducting magnetic energy storage, flywheels, and batteries);

(12) controllable load;

(13) distributed generation (including PV, fuel cells, and microturbines);

(14) enhanced power device monitoring;

(15) direct system state sensors;

(16) fiber optic technologies;

(17) power electronics and related software (including real time monitoring and analytical software);

(18) mobile transformers and mobile substations; and

(19) any other technologies the Commission considers appropriate.

(b) Authority

In carrying out the Federal Power Act (16 U.S.C. 791a et seq.) and the Public Utility Regulatory Policies Act of 1978 (16 U.S.C. 2601 et seq.), the Commission shall encourage, as appropriate, the deployment of advanced transmission technologies.

(Pub. L. 109-58, title XII, §1223, Aug. 8, 2005, 119 Stat. 953.)

REFERENCES IN TEXT

The Federal Power Act, referred to in subsec. (b), is act June 10, 1920, ch. 285, 41 Stat. 1063, as amended, which is classified generally to chapter 12 (§791a et seq.) of Title 16, Conservation. For complete classification of this Act to the Code, see section 791a of Title 16 and Tables.

The Public Utility Regulatory Policies Act of 1978, referred to in subsec. (b), is Pub. L. 95-617, Nov. 9, 1978, 92 Stat. 3117, as amended. For complete classification of this Act to the Code, see Short Title note set out under section 2601 of Title 16, Conservation, and Tables.

§ 16423. Advanced Power System Technology Incentive Program

(a) Program

The Secretary is authorized to establish an Advanced Power System Technology Incentive Program to support the deployment of certain advanced power system technologies and to improve and protect certain critical governmental, industrial, and commercial processes. Funds provided under this section shall be used by the Secretary to make incentive payments to eligible owners or operators of advanced power system technologies to increase power generation through enhanced operational, economic, and environmental performance. Payments under this section may only be made upon receipt by the Secretary of an incentive payment application establishing an applicant as either—

(1) a qualifying advanced power system technology facility; or

(2) a qualifying security and assured power facility.

(b) Incentives

Subject to availability of funds, a payment of 1.8 cents per kilowatt-hour shall be paid to the owner or operator of a qualifying advanced power system technology facility under this section for electricity generated at such facility. An additional 0.7 cents per kilowatt-hour shall be paid to the owner or operator of a qualifying security and assured power facility for electricity generated at such facility. Any facility qualifying under this section shall be eligible for an incentive payment for up to, but not more than, the first 10,000,000 kilowatt-hours produced in any fiscal year.

(c) Eligibility

For purposes of this section:

(1) Qualifying advanced power system technology facility

The term “qualifying advanced power system technology facility” means a facility using an advanced fuel cell, turbine, or hybrid power system or power storage system to generate or store electric energy.

(2) Qualifying security and assured power facility

The term “qualifying security and assured power facility” means a qualifying advanced power system technology facility determined by the Secretary, in consultation with the Secretary of Homeland Security, to be in critical need of secure, reliable, rapidly available, high-quality power for critical governmental, industrial, or commercial applications.

(d) Authorization

There are authorized to be appropriated to the Secretary for the purposes of this section, \$10,000,000 for each of the fiscal years 2006 through 2012.

(Pub. L. 109-58, title XII, §1224, Aug. 8, 2005, 119 Stat. 954.)

PART B—TRANSMISSION OPERATION IMPROVEMENTS

§ 16431. Federal utility participation in transmission organizations

(a) Definitions

In this section:

(1) Appropriate Federal regulatory authority

The term “appropriate Federal regulatory authority” means—

(A) in the case of a Federal power marketing agency, the Secretary, except that the Secretary may designate the Administrator of a Federal power marketing agency to act as the appropriate Federal regulatory authority with respect to the transmission system of the Federal power marketing agency; and

(B) in the case of the Tennessee Valley Authority, the Board of Directors of the Tennessee Valley Authority.

(2) Federal power marketing agency

The term “Federal power marketing agency” has the meaning given the term in section 796 of title 16.