

73 P.S. § 1648.1

PENNSYLVANIA STATUTES, ANNOTATED BY LEXISNEXIS(R)

* THIS DOCUMENT IS CURRENT THROUGH ALL 2004 LEGISLATION *
*** MAY 2005 ANNOTATION SERVICE ***

PENNSYLVANIA STATUTES
TITLE 73. TRADE AND COMMERCE
CHAPTER 18F. ALTERNATIVE ENERGY PORTFOLIO STANDARDS ACT

73 P.S. § 1648.1 (2004)

§ 1648.1. Short title

This act shall be known and may be cited as the Alternative Energy Portfolio Standards Act.

§ 1648.2. Definitions

The following words and phrases when used in this act shall have the meanings given to them in this section unless the context clearly indicates otherwise:

"ALTERNATIVE ENERGY CREDIT." A tradable instrument that is used to establish, verify and monitor compliance with this act. A unit of credit shall equal one megawatt hour of electricity from an alternative energy source.

"ALTERNATIVE ENERGY PORTFOLIO STANDARDS." Standards establishing that a certain amount of energy sold from alternative energy sources is included as part of the sources of electric generation by electric utilities within this Commonwealth.

"ALTERNATIVE ENERGY SOURCES." The term shall include the following existing and new sources for the production of electricity:

- (1) Solar photovoltaic or other solar electric energy.
- (2) Solar thermal energy.
- (3) Wind power.
- (4) Large-scale hydropower, which shall mean the production of electric power by harnessing the hydroelectric potential of moving water impoundments, including pumped storage that does not meet the requirements of low-impact hydropower under paragraph (5).

(5) Low-impact hydropower consisting of any technology that produces electric power and that harnesses the hydroelectric potential of moving water impoundments, provided such incremental hydroelectric development:

- (i) does not adversely change existing impacts to aquatic systems;
- (ii) meets the certification standards established by the Low Impact Hydropower Institute and American Rivers, Inc., or their successors;
- (iii) provides an adequate water flow for protection of aquatic life and for safe and effective fish passage;
- (iv) protects against erosion; and
- (v) protects cultural and historic resources.

(6) Geothermal energy, which shall mean electricity produced by extracting hot water or steam from geothermal reserves in the earth's crust and supplied to steam turbines that drive generators to produce electricity.

(7) Biomass energy, which shall mean the generation of electricity utilizing the following:

- (i) organic material from a plant that is grown for the purpose of being used to produce electricity or is protected by the Federal Conservation Reserve Program (CRP) and provided further that crop production on CRP lands does not prevent achievement of the water quality protection, soil erosion prevention or wildlife enhancement purposes for which the land was primarily set aside; or
- (ii) any solid nonhazardous, cellulosic waste material that is segregated from other waste materials, such as waste pallets, crates and landscape or right-of-way tree trimmings or agricultural sources, including orchard tree crops, vineyards, grain, legumes, sugar and other crop by-products or residues.

(8) Biologically derived methane gas, which shall include methane from the anaerobic digestion of organic materials from yard waste, such as grass clippings and leaves, food waste, animal waste and sewage sludge. The term also includes landfill methane gas.

(9) Fuel cells, which shall mean any electrochemical device that converts chemical energy in a hydrogen-rich fuel directly into electricity, heat and water without combustion.

(10) Waste coal, which shall include the combustion of waste coal in facilities in which the waste coal was disposed or abandoned prior to July 31, 1982, or disposed of thereafter in a permitted coal refuse disposal site regardless of when disposed of, and used to generate electricity, or such other waste coal combustion meeting alternate eligibility requirements established by regulation. Facilities combusting waste coal shall use at a minimum a combined fluidized bed boiler and be outfitted with a limestone injection system and a fabric filter particulate removal system. Alternative energy credits shall be calculated based upon the proportion of waste coal utilized to produce electricity at the facility.

(11) Coal mine methane, which shall mean methane gas emitting from abandoned or working coal mines.

(12) Demand-side management consisting of the management of customer consumption of electricity or the demand for electricity through the implementation of:

(i) energy efficiency technologies, management practices or other strategies in residential, commercial, institutional or government customers that reduce electricity consumption by those customers;

(ii) load management or demand response technologies, management practices or other strategies in residential, commercial, industrial, institutional and government customers that shift electric load from periods of higher demand to periods of lower demand; or

(iii) industrial by-product technologies consisting of the use of a by-product from an industrial process, including the reuse of energy from exhaust gases or other manufacturing by-products that are used in the direct production of electricity at the facility of a customer.

(13) Distributed generation system, which shall mean the small-scale power generation of electricity and useful thermal energy.

"ALTERNATIVE ENERGY SYSTEM." A facility or energy system that uses a form of alternative energy source to generate electricity and delivers the electricity it generates to the distribution system of an electric distribution company or to the transmission system operated by a regional transmission organization.

"COMMISSION." The Pennsylvania Public Utility Commission.

"COST-RECOVERY PERIOD." The longer of:

(1) the period during which competitive transition charges under 66 Pa.C.S. § 2808 (relating to competitive transition charge) or intangible transition charges under [66 Pa.C.S. § 2812](#) (relating to approval of transition bonds) are recovered; or

(2) the period during which an electric distribution company operates under a Pennsylvania Public Utility Commission-approved generation rate plan that has been approved prior to or within one year of the effective date of this act, but in no case shall the cost-recovery period under this act extend beyond December 31, 2010.

"CUSTOMER-GENERATOR." A nonutility owner or operator of a net metered distributed generation system with a nameplate capacity of not greater than 50 kilowatts if installed at a residential service or not larger than 1,000 kilowatts at other customer service locations, except for customers whose systems are above one megawatt and up to two megawatts who make their systems available to operate in parallel with the electric utility during grid emergencies as defined by the regional transmission organization or where a microgrid is in place for the purpose of maintaining critical infrastructure, such as homeland security assignments, emergency services facilities, hospitals, traffic signals, wastewater treatment plants or telecommunications facilities, provided that technical rules for operating generators interconnected with facilities of an electric distribution company, electric cooperative or municipal electric system have been promulgated by the Institute of Electrical and Electronic Engineers and the Pennsylvania Public Utility Commission.

"DEPARTMENT." The Department of Environmental Protection of the Commonwealth.

"ELECTRIC DISTRIBUTION COMPANY." The term shall have the same meaning given to it in 66 Pa.C.S. Ch. 28 (relating to restructuring of electric utility industry).

"ELECTRIC GENERATION SUPPLIER." The term shall have the same meaning given to it in 66 Pa.C.S. Ch. 28 (relating to restructuring of electric utility industry).

"FORCE MAJEURE." Upon its own initiative or upon a request of an electric distribution company or an electric generator supplier, the Pennsylvania Public Utility Commission, within 60 days, shall determine if alternative energy resources are reasonably available in the marketplace in sufficient quantities for the electric distribution companies and electric generation suppliers to meet their obligations for that reporting period under this act. If the commission determines that alternative energy resources are not reasonably available in sufficient quantities in the marketplace for the electric distribution companies and electric generation suppliers to meet their obligations under this act, then the commission shall modify the underlying obligation of the electric distribution company or electric generation supplier or recommend to the General

Assembly that the underlying obligation be eliminated.

"MUNICIPAL SOLID WASTE." This will include energy from existing waste to energy facilities which the Department of Environmental Protection has determined are in compliance with current environmental standards, including, but not limited to, all applicable requirements of the Clean Air Act (69 Stat. 322, [42 U.S.C. § 7401](#) et seq.) and associated permit restrictions and all applicable requirements of the act of July 7, 1980 (P.L. 380, No. 97), known as the Solid Waste Management Act.

"NET METERING." The means of measuring the difference between the electricity supplied by an electric utility and the electricity generated by a customer-generator when the renewable energy generating system is intended primarily to offset part or all of the customer-generator's requirements for electricity.

"REGIONAL TRANSMISSION ORGANIZATION." An entity approved by the Federal Energy Regulatory Commission (FERC) that is created to operate and manage the electrical transmission grids of the member electric transmission utilities as required under FERC Order 2000, Docket No. RM99- 2-000, FERC Chapter 31.089 (1999) or any successor organization approved by the FERC.

"REPORTING PERIOD." The 12-month period from June 1 through May 31. A reporting year shall be numbered according to the calendar year in which it begins and ends.

"RETAIL ELECTRIC CUSTOMER." The term shall have the same meaning given to it in 66 Pa.C.S Ch. 28 (relating to restructuring of electric utility industry).

"TIER I ALTERNATIVE ENERGY SOURCE." Energy derived from:

- (1) Solar photovoltaic energy.
- (2) Wind power.
- (3) Low-impact hydropower.
- (4) Geothermal energy.
- (5) Biologically derived methane gas.
- (6) Fuel cells.
- (7) Biomass energy.
- (8) Coal mine methane.

"TIER II ALTERNATIVE ENERGY SOURCE." Energy derived from:

- (1) Waste coal.
- (2) Distributed generation systems.
- (3) Demand-side management.
- (4) Large-scale hydropower.
- (5) Municipal solid waste.
- (6) Generation of electricity utilizing by-products of the pulping process and wood manufacturing process, including bark, wood chips, sawdust and lignin in spent pulping liquors.
- (7) Integrated combined coal gasification technology.

"TRUE-UP PERIOD." The period each year from the end of the reporting year until September 1.

§ 1648.3. Alternative energy portfolio standards

(a) GENERAL COMPLIANCE AND COST RECOVERY.--

(1) From the effective date of this act through and including the 15th year after enactment of this act and each year thereafter, the electric energy sold by an electric distribution company or electric generation supplier to retail electric customers in this Commonwealth shall be comprised of electricity generated from alternative energy sources and in the percentage amounts as described under subsections (b) and (c).

(2) Electric distribution companies and electric generation suppliers shall satisfy both requirements set forth in subsections (b) and (c), provided, however, that an electric distribution company or an electric generation supplier shall be excused from its obligations under this section to the extent that the commission determines that force majeure exists.

(3) All costs for:

(i) the purchase of electricity generated from alternative energy sources, including the costs of the regional transmission organization, in excess of the regional transmission organization real-time locational marginal pricing, or its successor, at the delivery point of the alternative energy source for the electrical

production of the alternative energy sources; and

(ii) payments for alternative energy credits,

in both cases that are voluntarily acquired by an electric distribution company during the cost recovery period on behalf of its customers shall be deferred as a regulatory asset by the electric distribution company and fully recovered, with a return on the unamortized balance, pursuant to an automatic energy adjustment clause under 66 Pa.C.S. § 1307 (relating to sliding scale of rates; adjustments) as a cost of generation supply under [66 Pa.C.S. § 2807](#) (relating to duties of electric distribution companies) in the first year after the expiration of its cost-recovery period. After the cost recovery period, any direct or indirect costs for the purchase by electric distribution of resources to comply with this section, including, but not limited to, the purchase of electricity generated from alternative energy sources, payments for alternative energy credits, cost of credits banked, payments to any third party administrators for performance under this act and costs levied by a regional transmission organization to ensure that alternative energy sources are reliable, shall be recovered on a full and current basis pursuant to an automatic energy adjustment clause under [66 Pa.C.S. § 1307](#) as a cost of generation supply under 66 Pa.C.S. § 2807.

(b) TIER I AND SOLAR PHOTOVOLTAIC SHARES.--

(1) Two years after the effective date of this act, at least 1.5% of the electric energy sold by an electric distribution company or electric generation supplier to retail electric customers in this Commonwealth shall be generated from Tier I alternative energy sources. Except as provided in this section, the minimum percentage of electric energy required to be sold to retail electric customers from alternative energy sources shall increase to 2% three years after the effective date of this act. The minimum percentage of electric energy required to be sold to retail electric customers from alternative energy sources shall increase by at least 0.5% each year so that at least 8% of the electric energy sold by an electric distribution company or electric generation supplier to retail electric customers in that certificated territory in the 15th year after the effective date of this subsection is sold from Tier I alternative energy resources.

(2) Of the electric energy required to be sold from Tier I sources, the total percentage that must be sold from solar photovoltaic technologies is for:

(i) Years 1 through 4--0.0013%.

- (ii) Years 5 through 9--0.0203%.
- (iii) Years 10 through 14--0.2500%.
- (iv) Years 15 and thereafter--0.5000%.

(3) Upon commencement of the beginning of the 6th reporting year, the commission shall undertake a review of the compliance by electric distribution companies and electric generation suppliers with the requirements of this act. The review shall also include the status of alternative energy technologies within this Commonwealth and the capacity to add additional alternative energy resources. The commission shall use the results of this review to recommend to the General Assembly additional compliance goals beyond year 15. The commission shall work with the department in evaluating the future alternative energy resource potential.

(c) TIER II SHARE.-- Of the electrical energy required to be sold from alternative energy sources identified in Tier II, the percentage that must be from these technologies is for:

- (1) Years 1 through 4 - 4.2%.
- (2) Years 5 through 9 - 6.2%.
- (3) Years 10 through 14 - 8.2%.
- (4) Years 15 and thereafter - 10.0%.

(d) EXEMPTION DURING COST-RECOVERY PERIOD.-- Compliance with subsections (a), (b) and (c) shall not be required for any electric distribution company that has not reached the end of its cost-recovery period or for electric generation supplier sales in the service territory of an electric distribution company that has not reached the end of its cost-recovery period. At the conclusion of an electric distribution company's cost-recovery period, this exception shall no longer apply, and compliance shall be required at the percentages in effect at that time. Electric distribution companies and electric generation suppliers whose sales are exempted under this subsection and who voluntarily sell electricity generated from Tier I and Tier II sources during the cost-recovery period may bank credits consistent with subsection (e)(7).

(e) ALTERNATIVE ENERGY CREDITS.--

- (1) The commission shall establish an alternative energy credits program as needed to implement this act. The provision of services pursuant to this section shall be exempt from the competitive

procurement procedures of 62 Pa.C.S. (relating to procurement).

(2) The commission shall approve an independent entity to serve as the alternative energy credits program administrator. The administrator shall have those powers and duties assigned by commission regulations. Such powers and duties shall include, but not be limited to, the following:

(i) To create and administer an alternative energy credits certification, tracking and reporting program. This program should include, at a minimum, a process for qualifying alternative energy systems and determining the manner credits can be created, accounted for, transferred and retired.

(ii) To submit reports to the commission at such times and in such manner as the commission shall direct.

(3) All qualifying alternative energy systems must include a qualifying meter to record the cumulative electric production to verify the advanced energy credit value. Qualifying meters will be approved by the commission as defined in paragraph (4).

(4) (i) An electric distribution company or electric generation supplier shall comply with the applicable requirements of this section by purchasing sufficient alternative energy credits and submitting documentation of compliance to the program administrator.

(ii) For purposes of this subsection, one alternative energy credit shall represent one megawatt hour of qualified alternative electric generation, whether self-generated, purchased along with the electric commodity or separately through a tradable instrument and otherwise meeting the requirements of commission regulations and the program administrator.

(5) The alternative energy credits program shall include provisions requiring a reporting period as defined in section 2 for all covered entities under this act. The alternative energy credits program shall also include a true-up period as defined in section 2. The true-up period shall provide entities covered under this act the ability to obtain the required number of alternative energy credits or to make up any shortfall of the alternative energy credits they may be required to obtain to comply with this act. A force majeure provision shall also be provided for under the true-up period provisions.

(6) An electric distribution company and electric generation supplier may bank or place in reserve alternative energy credits produced in one

reporting year for compliance in either or both of the two subsequent reporting years, subject to the limitations set forth in this subsection and provided that the electric distribution company and electric generation supplier are in compliance for all previous reporting years. In addition, the electric distribution company and electric generation supplier shall demonstrate to the satisfaction of the commission that such credits:

(i) were in excess of the alternative energy credits needed for compliance in the year in which they were generated and that such excess credits have not previously been used for compliance under this act;

(ii) were produced by the generation of electrical energy by alternative energy sources and sold to retail customers during the year in which they were generated; and

(iii) have not otherwise been nor will be sold, retired, claimed or represented as part of satisfying compliance with alternative or renewable energy portfolio standards in other states.

(7) An electric distribution company or an electric generation supplier with sales that are exempted under subsection (d) may bank credits for retail sales of electricity generated from Tier I and Tier II sources made prior to the end of the cost-recovery period and after the effective date of this act. Bankable credits shall be limited to credits associated with electricity sold from Tier I and Tier II sources during a reporting year which exceeds the volume of sales from such sources by an electric distribution company or electric generation supplier during the 12-month period immediately preceding the effective date of this act. All credits banked under this subsection shall be available for compliance with subsections (b) and (c) for no more than two reporting years following the conclusion of the cost-recovery period.

(8) The commission or its designee shall develop a registry of pertinent information regarding all available alternative energy credits, credit transactions among electric distribution companies and electric generation suppliers, the number of alternative energy credits sold or transferred and the price paid for the sale or transfer of the credits. The registry shall provide current information to electric distribution companies, electric generation suppliers and the general public on the status of alternative energy credits created, sold or transferred within this Commonwealth.

(9) The commission may impose an administrative fee on an alternative energy credit transaction. The amount of this fee may not exceed the actual direct cost of processing the transaction by the alternative energy credits administrator. The commission is authorized to utilize up to 5% of the alternative compliance fees generated under subsection (f) for administrative expenses directly associated with this act.

(10) The commission shall establish regulations governing the verification and tracking of energy efficiency and demand-side management measures pursuant to this act, which shall include benefits to all utility customer classes. When developing regulations, the commission must give reasonable consideration to existing and proposed regulations and rules in existence in the regional transmission organizations that manage the transmission system in any part of this Commonwealth. All verified reductions shall accrue credits starting with the passage of this act.

(11) The commission shall within 120 days of the effective date of this act develop a depreciation schedule for alternative energy credits created through demand-side management, energy efficiency and load management technologies and shall develop standards for tracking and verifying savings from energy efficiency, load management and demand-side management measures. The commission shall allow for a 60-day public comment period and shall issue final standards within 30 days of the close of the public comment period.

(f) ALTERNATIVE COMPLIANCE PAYMENT.--

(1) At the end of each program year, the program administrator shall provide a report to the commission and to each covered electric distribution company showing their status level of alternative energy acquisition.

(2) The commission shall conduct a review of each determination made under subsections (b) and (c). If, after notice and hearing, the commission determines that an electric distribution company or electric generation supplier has failed to comply with subsections (b) and (c), the commission shall impose an alternative compliance payment on that company or supplier.

(3) The alternative compliance payment, with the exception of the solar photovoltaic share compliance requirement set forth in subsection (b)(2), shall be \$ 45 times the number of additional alternative energy credits needed in order to comply with subsection (b) or (c).

(4) The alternative compliance payment for the solar photovoltaic share shall be 200% of the average market value of solar renewable energy credits sold during the reporting period within the service region of the regional transmission organization.

(5) The commission shall establish a process to provide for, at least annually, a review of the alternative energy market within this Commonwealth and the service territories of the regional transmission organizations that manage the transmission system in any part of this Commonwealth. The commission will use the results of this study to identify any needed changes to the cost associated with the alternative compliance payment program. If the commission finds that the costs associated with the alternative compliance payment program must be changed, the commission shall present these findings to the General Assembly for legislative enactment.

(g) TRANSFER TO SUSTAINABLE DEVELOPMENT FUNDS.--

(1) Notwithstanding the provisions of [66 Pa.C.S. §§ 511](#) (relating to disposition, appropriation and disbursement of assessments and fees) and 3315 (relating to disposition of fines and penalties), alternative compliance payments imposed pursuant to this act shall be paid into Pennsylvania's Sustainable Energy Funds created under the commission's restructuring orders under 66 Pa.C.S. Ch. 28 (relating to restructuring of electric utility industry). Alternative compliance payments shall be paid into a special fund of the Pennsylvania Sustainable Energy Board, established by the commission under Docket M-00031715, and made available to the Regional Sustainable Energy Funds under procedures and guidelines approved by the Pennsylvania Energy Board.

(2) The alternative compliance payments shall be utilized solely for projects that will increase the amount of electric energy generated from alternative energy resources for purposes of compliance with subsections (b) and (c).

(h) NONSEVERABILITY.-- The provisions of subsection (a) are declared to be nonseverable. If any provision of subsection (a) is held invalid, the remaining provisions of this act shall be void.

§ 1648.4. Portfolio requirements in other states

If an electric distribution supplier or electric generation company provider sells electricity in any other state and is subject to renewable energy portfolio requirements in that state, they shall list any such requirement and shall indicate how it satisfied those renewable energy portfolio requirements. To prevent double-counting, the electric

distribution supplier or electric generation company shall not satisfy Pennsylvania's alternative energy portfolio requirements using alternative energy used to satisfy another state's portfolio requirements. Energy derived only from alternative energy sources inside the geographical boundaries of this Commonwealth or within the service territory of any regional transmission organization that manages the transmission system in any part of this Commonwealth shall be eligible to meet the compliance requirements under this act. Electric distribution companies and electric generation suppliers shall document that this energy was not used to satisfy another state's renewable energy portfolio standards.

§ 1648.5. Interconnection standards for customer-generator facilities

The commission shall develop technical and net metering interconnection rules for customer-generators intending to operate renewable onsite generators in parallel with the electric utility grid, consistent with rules defined in other states within the service region of the regional transmission organization that manages the transmission system in any part of this Commonwealth. The commission shall convene a stakeholder process to develop Statewide technical and net metering rules for customer-generators. The commission shall develop these rules within nine months of the effective date of this act.

§ 1648.6. Health and safety standards

The department shall cooperate with the Department of Labor and Industry as necessary in developing health and safety standards, as needed, regarding facilities generating energy from alternative energy sources. The department shall establish appropriate and reasonable health and safety standards to ensure uniform and proper compliance with this act by owners and operators of facilities generating energy from alternative energy sources as defined in this act.

§ 1648.7. Interagency responsibilities

(a) COMMISSION RESPONSIBILITIES.-- The commission will carry out the responsibilities delineated within this act. The commission also shall, in cooperation with the department, conduct an ongoing alternative energy resources planning assessment for this Commonwealth. This assessment will, at a minimum, identify current and operating alternative energy facilities, the potential to add future alternative energy generating capacity and the conditions of the alternative energy marketplace. The assessment will identify needed methods to maintain or increase the relative competitiveness of the alternative energy market within this Commonwealth.

(b) DEPARTMENT RESPONSIBILITIES.-- The department shall ensure that all qualified alternative energy sources meet all applicable environmental standards and shall verify that an alternative energy source meets the standards set forth in section 2.

(c) COOPERATION BETWEEN COMMISSION AND DEPARTMENT.-- The commission and the department shall work cooperatively to monitor the performance of all aspects of this act and will provide an annual report to the chairman and minority chairman of the Environmental Resources and Energy Committee of the Senate and the chairman and minority chairman of the Environmental Resources and Energy Committee of the House of Representatives. The report shall include at a minimum:

- (1) The status of the compliance with the provisions of this act by electric distribution companies and electric generation suppliers.
- (2) Current costs of alternative energy on a per kilowatt hour basis for all alternative energy technology types.
- (3) Costs associated with the alternative energy credits program under this act, including the number of alternative compliance payments.
- (4) The status of the alternative energy marketplace within this Commonwealth.
- (5) Recommendations for program improvements.

§ 1648.8. Rural electric cooperatives

Each rural electric cooperative operating within this Commonwealth shall offer to its retail customers a voluntary program of energy efficiency and demand-side management programs as a means to satisfy compliance with the requirements of this act.