

Pennsylvania Incentives/Policies for Renewables & Efficiency

DCED - Alternative and Clean Energy Program

Program Overview

State:	Pennsylvania
Incentive Type:	Industry Recruitment/Support
Eligible Efficiency Technologies:	Clothes Washers, Dishwasher, Refrigerators, Dehumidifiers, Ceiling Fan, Water Heaters, Lighting, Lighting Controls/Sensors, Chillers, Furnaces, Boilers, Heat pumps, Central Air conditioners, CHP/Cogeneration, Energy Mgmt. Systems/Building Controls, Comprehensive Measures/Whole Building, Other Unspecified Technologies
Eligible Renewable/Other Technologies:	Landfill Gas, Wind, Biomass, Hydroelectric, Geothermal Electric, Fuel Cells, Geothermal Heat Pumps, Municipal Solid Waste, MSW must be Waste-to-Energy, Anaerobic Digestion, Small Hydroelectric, Renewable Fuels, Fuel Cells using Renewable Fuels, Geothermal Direct-Use
Applicable Sectors:	Commercial, Industrial
Amount:	Varies by project, but program generally requires matching funds at least equivalent to DCED funding Manufacturer Loans: \$35,000 per job created within 3 years Manufacturer Grants: \$10,000 per job created within 3 years Loans for distribution projects, high performance buildings: \$5 million (also \$3/square foot of space served for geothermal)
Maximum Incentive:	Grants for distribution projects, high performance buildings: \$2 million Grants for Energy Savings Contracts (ESCO): \$500,000 Grants for Feasibility Studies: \$175,000 Loan guarantee grants: Up to 75% of deficient funds up to \$5 million Incentives generally limited to 50% of project costs, except grants for high performance buildings limited to 10% of project costs.
Terms:	Loan interest rates from 1-5% depending on project type; failure to meet job creation requirements may result in repayment of grants or additional interest payments over the remaining term of the loan.
Funding Source:	Alternative Energy Investment Fund (state-issued bonds)
Program Budget:	\$165 million
Start Date:	May 2009
Web Site:	http://www.newpa.com/find-and-apply-for-fundj...
Authority 1:	Special Session H.B. 1
Date Enacted:	07/09/2008

Summary:

Note: It is important to note that some applicants are only eligible to apply under some aspects of the program. Political subdivisions are only permitted to apply for loans, or for grants for Clean Energy Projects. Businesses and non-profits may apply for loans, but may only apply for grants for Alternative Energy Production Projects and for site preparation for an alternative energy system as a Clean Energy Project.

In July 2008, Pennsylvania enacted a broad \$650 million alternative energy bill designed to provide support for a variety of renewable energy and energy efficiency technologies. Included in this legislation was a provision authorizing the creation of a grant and loan program for alternative energy and clean energy production projects. The program is jointly administered by the Department of Community and Economic Development (DCED) and the Department of Environmental Protection (DEP), under the direction of Commonwealth Finance Authority (CFA). Program guidelines were issued in May 2009 and revised in March 2010. Incentives are available to businesses (including non-profits), economic development organizations, and political subdivisions (e.g., local governments, schools, etc.).

The program will offer support for alternative energy and clean energy projects in the form of loans, grants and loan guarantees (i.e., grants to be used in the event of a financing default). Under this program, alternative energy production projects and clean energy

production projects are governed by distinct sets of definitions and rules. Eligible activities for each type of project are described briefly below (see program rules for more detailed descriptions).

Clean Energy Projects

- Construction or renovation of a High Performance Building.
- Site preparation of a business park consisting exclusively of certified High Performance Buildings.
- Installation of equipment to facilitate or improve energy conservation or energy efficiency (including but not limited to heating, lighting, and cooling equipment). Equipment must be Energy Star rated if applicable.
- Installation of an alternative energy system which produces energy from sources defined under the state [Alternative Energy Portfolio Standard \(AEPS\)](#), including wind, geothermal, biomass, waste energy, hydroelectric, fuel cells, biologically derived methane gas, fuel cells, and biomass; but **not including solar energy**.*
- Replacement or enhancement of an existing energy system that utilizes nonrenewable energy with an energy system that utilizes alternative energy (as described above).
- Modification of the contract terms of an energy service project by a political subdivision pursuant to a new energy savings contract (ESCO) with a qualified provider under the Guaranteed Energy Savings Act (GESA) of 1996.

Alternative Energy Production Projects (construction or development of):

- An alternative energy project which produces energy from sources defined under the state [Alternative Energy Portfolio Standard \(AEPS\)](#), including wind, geothermal, biomass, waste energy, hydroelectric, fuel cells, biologically derived methane gas, fuel cells, and biomass; but **not including solar energy**.*
- A facility that manufactures or produces alternative fuels
- A facility that manufactures or produces products, including component parts that provide alternative energy (as defined above), improve energy efficiency, or conserve energy
- An alternative energy or alternative fuel R&D facility
- A project for the development or enhancement of rail transportation systems that deliver alternative fuels or high efficiency locomotives.

Both types of project allow eligible costs associated with the preparation of plans, specifications, studies, and surveys, necessary or incidental to facilitating or developing an eligible project, and costs (up to 3%) associated with administering a grant. The individual support mechanisms are described in more detail below. For all types of support, there is a general requirement that applicants provide matching funds equivalent to the funding offered under the program (i.e., incentives generally limited to 50% of costs).

Loans

Loans are available at a fixed interest rate which varies based on project type. As of September 2010 interest rates were set at 1% for energy conservation and energy efficiency projects, 4% for high performance building projects, and 5% for alternative energy production projects (may change based on market conditions). Loans may generally be amortized over a period corresponding to the life of the equipment, not to exceed 25 years, and must be repaid within 10 years. Loans for energy efficiency and energy conservation projects (including geothermal systems) have a 10-year amortization. Loans for manufacturing facilities are limited to \$35,000 per job created within three years of loan approval. Failure to create the requisite number of jobs within three years may cause the interest rate to be raised by 3% over the remaining portion of the loan. Loans are also generally limited to \$5 million, although higher amounts may be authorized on a case-by-case basis as determined by the DCED.

Grants

Grants for manufacturing facilities are available for up to \$10,000 per job created within three years of grant approval. Grants are limited to \$2 million for other alternative energy, clean energy projects, and high performance building projects; \$500,000 for energy savings contracts (ESCOs); and \$175,000 for planning and feasibility studies. Grants for green building projects are also limited to 10% of costs (as opposed to the general limit of 50% of costs for other projects).



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Loan Guarantees

Loan guarantees will take the form of a grant that may be used in the event of financing default on the part of the applicant. Loan guarantees are limited to 75% of the deficiency up to \$5 million. The term of the grant may not exceed five years.

Special Session H.B. 1 authorized a total of \$165 million for this program. Visit the program web site and review the funding guidelines for additional program details and application procedures.

** While solar energy is in fact eligible under the state AEPS, a specific solar energy program was also authorized as part of the enabling legislation and as a result solar energy projects have been excluded from some other programs created by the same legislation. The program guidelines do not list solar energy as an eligible technology.*

Contact:

Program Information - DCED Alternative and Clean Energy Program
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Center for Business Financing - Site Development Division
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Pennsylvania Incentives/Policies for Renewables & Efficiency

Sustainable Development Fund Financing Program (PECO Territory)

Program Overview:

State:	Pennsylvania
Incentive Type:	Local Loan Program
Eligible Efficiency Technologies:	Lighting, Chillers, Boilers, Heat pumps, Central Air conditioners, Comprehensive Measures/Whole Building, Custom/Others pending approval, Unspecified Technologies
Eligible Renewable/Other Technologies:	Passive Solar Space Heat, Solar Water Heat, Solar Space Heat, Solar Thermal Process Heat, Photovoltaics, Landfill Gas, Wind, Biomass, Hydroelectric, Fuel Cells, Geothermal Heat Pumps, CHP/Cogeneration, Fuel Cells using Renewable Fuels
Applicable Sectors:	Commercial, Industrial, Nonprofit, Schools, PECO Service Territory
Amount:	Varies by project
Terms:	Vary by financing instrument
Web Site:	http://www.trfund.com/sdf/financing.html
Summary:	

The Pennsylvania Public Utility Commission created the Sustainable Development Fund (SDF) in its final order of the PECO Energy electric utility restructuring proceeding. The Reinvestment Fund, Inc. (TRF), which was formed in 1985 to build wealth and opportunity for low-wealth communities and low- and moderate-income individuals, administers the SDF. The SDF later received additional funding and responsibilities as a result of the PECO Energy/Unicom merger settlement. That settlement added funding for new wind development, for solar photovoltaics and for renewable energy education, as well as a lump-sum payment and an increase in SDF's core fund. In total, the fund has received approximately \$31.8 million in income over its lifetime.

The SDF provides financial assistance to eligible projects in the form of commercial loans, subordinated debt, royalty financing, and equity financing. The Sustainable Development Fund provides financial assistance for the following types of ventures:

- Companies and ventures that generate electricity using renewable energy sources;
- Manufacturers, distributors and installers of renewable energy, advanced clean energy and energy-conserving products and technologies; and,
- Companies and organizations that are end-users of renewable energy, advanced clean energy and energy-conserving products and technologies.

The specific terms of the financial support are flexible and are determined on a case-by-case basis. SDF also has a lease-financing product for large nonprofit institutions (schools and hospitals) and commercial real estate owners for energy conservation improvements.

The SDF Commercial Financing Program provides flexible business loans to:

- Manufacturers, wholesalers/distributors, retailers and service companies who want to finance equipment upgrades or electricity energy savings improvements to their plant/office facilities;
- End-user companies wishing to purchase advanced clean energy systems; and
- Start-ups and expansions of companies producing clean energy.

According to the [2009 Program Plan](#), during calendar year 2009 the SDF anticipated awarding up to \$4 million in equity investments, loans, and other forms of financing, depending on available opportunities. Please see the [2008 Annual Report](#) for



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information on past SDF activities. More recent information on fund activities and plans is not available. For more information on financing opportunities, visit the program website above.

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Web Site: <http://www.trfund.com/sdf>

Pennsylvania Incentives/Policies for Renewables & Efficiency

Pennsylvania Public Utilities Commission Solar Alternative Energy Credits

Program Overview:

State:	Pennsylvania
Incentive Type:	Performance-Based Incentive
Eligible Renewable/Other Technologies:	Photovoltaics
Applicable Sectors:	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Multi-Family Residential, Agricultural, Institutional
Amount:	Varies based on market conditions; as of April 2011 the market price for PA-sourced SRECs was approximately \$220/MWh (\$0.22/kWh) although some individual trades have taken place at substantially lower and higher prices.
Maximum Incentive:	Varies based on market conditions; SACP does not represent a price ceiling because it is only determined after the fact
Eligible System Size:	No system size limitations
Equipment Requirements:	Systems generally require a utility-grade performance meter (exception exists for some facilities of 15 kW or smaller)
Web Site:	http://paaeps.com/credit/
Authority 1:	73 P.S. § 1648.1 et seq.
Date Enacted:	11/30/2004 (subsequently amended)
Date Effective:	06/01/2006
Authority 2:	PUC Rulemaking Order Docket No. L-00060180
Date Enacted:	09/25/2008
Date Effective:	11/22/2008

Summary:

Pennsylvania's [Alternative Energy Portfolio Standard \(AEPS\)](#), created by S.B. 1030 on November 30, 2004, requires each electric distribution company (EDC) and electric generation supplier (EGS) to retail electric customers in Pennsylvania to supply roughly 18% of its electricity using alternative-energy resources -- roughly 8% from Tier I technologies and 10% from Tier II technologies -- by 2021. The standard also contains a solar set-aside requiring obligated entities to procure a small percentage of their electricity sales from photovoltaic (PV) systems as part of the Tier I requirement. As with the other components of Pennsylvania's AEPS, the percentage requirement ramps up slowly over time. The obligation is set at 0.0120% for the compliance year running from June 2009 - May 2010, accelerating to an ultimate target of 0.5% in compliance year 2020-2021.

Under Pennsylvania law, a solar alternative energy credit (SAEC) represents proof that 1 megawatt-hour (MWh) of electricity was generated by a qualifying PV facility. In many other states the term "solar renewable energy certificate" or "SREC" is used to represent the functional equivalent (i.e., a means of compliance with a solar energy standard) of an SAEC in Pennsylvania. Electricity suppliers must purchase SAECs in order to meet their compliance obligations under the law, or pay a Solar Alternative Compliance Payment (SACP) for any shortfalls in SAEC purchases.

In Pennsylvania the SACP varies from year to year based largely on the market price of SAECs traded during the prior compliance year, thus it is only known after the end of a compliance year. The SACP for a given year is calculated as 200% times the sum of (1) the market value of SAECs for the reporting period and (2) the levelized value of up-front rebates received by sellers of SAECs (see PUC order listed above for a more detailed description). For the 2009-2010 compliance year the SACP was \$654.37, the largest part of which is attributable to the weighted average SAEC market price of \$325.00 per SAEC for the period. As of April 2011, the market price for Pennsylvania-sourced credits was roughly \$220 per SAEC/SREC, with significant variations above and below this average for individual transactions.*

Under this system SAECs represent a potentially significant source of revenue for owners of qualifying PV facilities with a value determined by demand in the trading market. Eligible generators in Pennsylvania, including on-site generators, retain ownership of SAECs generated by their system until they voluntarily transfer them to another party. A generator remains eligible to generate SAECs for as long as the facility remains certified as an eligible generator. An SAEC may generally be used for compliance by a utility for the compliance year during which it was generated or the two subsequent compliance years. However, SAECs purchased by a utility during a time period for which the utility is under rate caps -- rate caps for some utilities did not expire until January 1, 2011 -- may be used by the utility in the compliance year the rate caps are lifted or in the subsequent compliance year.

In order to begin producing SAECs that can be used for compliance with Pennsylvania's AEPS, a generator must apply for and be certified as an eligible generator. In order to be considered an eligible generator for the purpose of the AEPS, the generator must generally be located either within the state of Pennsylvania or within the broader PJM region. The exception to this rule is that energy from resources located within the footprint of the Midwest Independent Systems Operator (MISO) -- which also serves a small portion of Pennsylvania -- may be used for compliance in areas served by the MISO. The practical impact of this exception is that out-of-state resources located in the MISO may only be used for compliance by the Pennsylvania Power Co. or energy suppliers operating within its service territory.

Systems must be operational before the owner can apply for a certification number. Once a generator has received a certification number from the program administrator, they may create an account on the PJM-EIS Generation Attributes Tracking System (GATS). The GATS is used to track the generation and transfer of SAECs from an eligible facility. The GATS issues SAECs to correspond with energy generation readings that the system owner uploads to the system. Systems of 15 kilowatts (kW) or less that are not equipped with production meters may elect to use an engineering estimate of expected energy production in lieu of uploading actual meter readings into GATS. The [Pennsylvania Sunshine solar rebate program](#) requires that participating systems be equipped with a utility-grade meter to measure energy production, thus the engineering estimate option not available to Pennsylvania Sunshine participants.

Generally, Pennsylvania will only recognize the generation of SAECs by a system after the date of the application for certification. However, if a generator has already been certified in another state and has generated SAECs recorded by the GATS, those SAECs will be recognized by Pennsylvania. If the facility is located in another state that allows the use of energy production estimates for systems of 10 kW or less, the same estimates will be used in Pennsylvania.

The program website contains additional information on Pennsylvania's AEPS, registering a facility, and using credit brokers and aggregators.

**It is important to note that SAECs/SRECs produced by facilities located in Pennsylvania may be eligible for other compliance markets such as those in Ohio and the District of Columbia. The prices quoted here include transactions where Pennsylvania-sourced SAECs/SRECs have been sold into markets beyond Pennsylvania.*

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Pennsylvania Incentives/Policies for Renewables & Efficiency

DCED - Alternative and Clean Energy Program

Program Overview:

State:	Pennsylvania
Incentive Type:	State Grant Program
Eligible Efficiency Technologies:	Clothes Washers, Dishwasher, Refrigerators, Dehumidifiers, Ceiling Fan, Water Heaters, Lighting, Lighting Controls/Sensors, Chillers, Furnaces, Boilers, Heat pumps, Central Air conditioners, CHP/Cogeneration, Energy Mgmt. Systems/Building Controls, Comprehensive Measures/Whole Building, Other Unspecified Technologies
Eligible Renewable/Other Technologies:	Landfill Gas, Wind, Biomass, Hydroelectric, Geothermal Electric, Fuel Cells, Geothermal Heat Pumps, Municipal Solid Waste, MSW Must be Waste-to-Energy, Daylighting, Anaerobic Digestion, Small Hydroelectric, Renewable Fuels, Fuel Cells using Renewable Fuels, Geothermal Direct-Use
Applicable Sectors:	Commercial, Industrial, Nonprofit, Schools, Local Government, Multi-Family Residential
Amount:	Varies by project, but program generally requires matching funds at least equivalent to DCED funding Manufacturer Loans: \$35,000 per job created within 3 years Manufacturer Grants: \$10,000 per job created within 3 years Loans for distribution projects, high performance buildings: \$5 million (also limited to \$3/square foot of space served for geothermal)
Maximum Incentive:	Grants for distribution projects, high performance buildings: \$2 million Grants for Energy Savings Contracts (ESCO): \$500,000 Grants for Feasibility Studies: \$175,000 Loan guarantee grants: Up to 75% of deficient funds up to \$5 million Incentives generally limited to 50% of project costs, except grants for high performance buildings limited to 10% of project costs.
Equipment Requirements:	Energy Star rating required for energy efficiency improvements if applicable
Funding Source:	Alternative Energy Investment Fund (state issued bonds)
Program Budget:	\$165 million
Start Date:	May 2009
Web Site:	http://www.newpa.com/find-and-apply-for-fundi...
Authority 1:	Special Session H.B. 1
Date Enacted:	07/09/2008

Summary:

Note: It is important to note that some applicants are only eligible to apply under some aspects of the program. Political subdivisions are only permitted to apply for loans, or for grants for Clean Energy Projects. Businesses and non-profits may apply for loans, but may only apply for grants for Alternative Energy Production Projects and for site preparation for an alternative energy system as a Clean Energy Project.

In July 2008, Pennsylvania enacted a broad \$650 million alternative energy bill designed to provide support for a variety of renewable energy and energy efficiency technologies. Included in this legislation was a provision authorizing the creation of a grant and loan program for alternative energy and clean energy production projects. The program is jointly administered by the Department of Community and Economic Development (DCED) and the Department of Environmental Protection (DEP), under the direction of Commonwealth Finance Authority (CFA). Program guidelines were issued in May 2009 and revised in March 2010. Incentives are available to businesses (including non-profits), economic development organizations, and political subdivisions (e.g., local governments, schools, etc.).

The program will offer support for alternative energy and clean energy projects in the form of loans, grants and loan guarantees (i.e.,

grants to be used in the event of a financing default). Under this program, alternative energy production projects and clean energy production projects are governed by distinct sets of definitions and rules. Eligible activities for each type of project are described briefly below (see program rules for more detailed descriptions).

Clean Energy Projects

- Construction or renovation of a High Performance Building.
- Site preparation of a business park consisting exclusively of certified High Performance Buildings.
- Installation of equipment to facilitate or improve energy conservation or energy efficiency (including but not limited to heating, lighting, and cooling equipment). Equipment must be Energy Star rated if applicable.
- Installation of an alternative energy system which produces energy from sources defined under the state [Alternative Energy Portfolio Standard \(AEPS\)](#), including wind, geothermal, biomass, waste energy, hydroelectric, fuel cells, biologically derived methane gas, fuel cells, and biomass; but **not including solar energy**.*
- Replacement or enhancement of an existing energy system that utilizes nonrenewable energy with an energy system that utilizes alternative energy (as described above).
- Modification of the contract terms of an energy service project by a political subdivision pursuant to a new energy savings contract (ESCO) with a qualified provider under the Guaranteed Energy Savings Act (GESA) of 1996.

Alternative Energy Production Projects (construction or development of):

- An alternative energy project which produces energy from sources defined under the state [Alternative Energy Portfolio Standard \(AEPS\)](#), including wind, geothermal, biomass, waste energy, hydroelectric, fuel cells, biologically derived methane gas, fuel cells, and biomass; but **not including solar energy**.*
- A facility that manufactures or produces alternative fuels
- A facility that manufactures or produces products, including component parts that provide alternative energy (as defined above), improve energy efficiency, or conserve energy
- An alternative energy or alternative fuel R&D facility
- A project for the development or enhancement of rail transportation systems that deliver alternative fuels or high efficiency locomotives.

Both types of project allow eligible costs associated with the preparation of plans, specifications, studies, and surveys, necessary or incidental to facilitating or developing an eligible project, and costs (up to 3%) associated with administering a grant. The individual support mechanisms are described in more detail below. For all types of support, there is a general requirement that applicants provide matching funds equivalent to the funding offered under the program (i.e., incentives generally limited to 50% of costs).

Loans

Loans are available at a fixed interest rate which varies based on project type. As of September 2010 interest rates were set at 1% for energy conservation and energy efficiency projects, 4% for high performance building projects, and 5% for alternative energy production projects (may change based on market conditions). Loans may generally be amortized over a period corresponding to the life of the equipment, not to exceed 25 years, and must be repaid within 10 years. Loans for energy efficiency and energy conservation projects (including geothermal systems) have a 10-year amortization. Loans for manufacturing facilities are limited to \$35,000 per job created within three years of loan approval. Failure to create the requisite number of jobs within three years may cause the interest rate to be raised by 3% over the remaining portion of the loan. Loans are also generally limited to \$5 million, although higher amounts may be authorized on a case-by-case basis as determined by the DCED.

Grants

Grants for manufacturing facilities are available for up to \$10,000 per job created within three years of grant approval. Grants are limited to \$2 million for other alternative energy, clean energy projects, and high performance building projects; \$500,000 for energy savings contracts (ESCOs); and \$175,000 for planning and feasibility studies. Grants for green building projects are also limited to



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10% of costs (as opposed to the general limit of 50% of costs for other projects).

Loan Guarantees

Loan guarantees will take the form of a grant that may be used in the event of financing default on the part of the applicant. Loan guarantees are limited to 75% of the deficiency up to \$5 million. The term of the grant may not exceed five years.

Special Session H.B. 1 authorized a total of \$165 million for this program. Visit the program web site and review the funding guidelines for additional program details and application procedures.

**While solar energy is in fact eligible under the state AEPS, a specific solar energy program was also authorized as part of the enabling legislation and as a result solar energy projects have been excluded from some other programs created by the same legislation. The program guidelines do not list solar energy as an eligible technology. However, it appears that some solar technologies could qualify if they are incorporated into the broader design of a High Performance Building.*

Contact:

Program Information - DCED Alternative and Clean Energy Program
Department of Community and Economic Development
Center for Business Financing - Site Development Division
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Pennsylvania Incentives/Policies for Renewables & Efficiency

DCED - High Performance Building Incentives Program

Program Overview:

State:	Pennsylvania
Incentive Type:	State Grant Program
Eligible Efficiency Technologies:	Comprehensive Measures/Whole Building
Eligible Renewable/Other Technologies:	Passive Solar Space Heat, Solar Water Heat, Solar Space Heat, Photovoltaics, Wind, Biomass, Geothermal Heat Pumps, Bio-gas, Daylighting, Small Hydroelectric
Applicable Sectors:	Commercial, Residential
Amount:	Vary by project, but program generally requires matching funds at least equivalent to DCED funding
Maximum Incentive:	Residential loans/loan guarantees: \$100,000 Commercial loans/loan guarantees: \$2 million Grants: Lesser of 10% of project costs or \$500,000
Equipment Requirements:	Projects must achieve minimum certification under LEED, Green Globes, or the National Green Building standard (e.g., Gold under LEED NC); projects must also meet additional requirements in certain categories.
Funding Source:	Alternative Energy Investment Fund (state issued bonds)
Program Budget:	\$25 million (grants and loans combined)
Start Date:	April 2009
Expiration Date:	None
Web Site:	http://www.newpa.com/find-and-apply-for-fundj...
Authority 1:	Special Session H.B. 1
Date Enacted:	07/09/2009

Summary:

In July 2008, Pennsylvania enacted a broad \$650 million alternative energy bill designed to provide support for a variety of renewable energy and energy efficiency technologies. Included in this legislation was a provision authorizing the creation of a \$25 million grant and loan program for high performance buildings. The program is jointly administered by the Department of Community and Economic Development (DCED) and the Department of Environmental Protection (DEP), under the direction of Commonwealth Finance Authority (CFA). Program guidelines were issued in April 2009 and revised in November 2009. Incentives are available to both in-state small businesses (100 or fewer total employees) and individuals for the construction or major renovation of homes or commercial buildings. Homes must be primary residences in order to be eligible.

The program will offer support for green buildings in the form of loans, grants and loan guarantees (i.e., grants to be used in the event of a financing default). In order to be eligible for incentives, new construction and major renovation projects must achieve the applicable Gold certification under USGBC LEED* or the National Green Building Standard, or at least 3 Globes under the GBI Green Globes system. Buildings must also meet additional requirements in certain categories. Funds may be used for the following project costs:

- Acquisition of land and buildings, rights-of-way, and easements necessary for project construction
- Clearing and preparation of land to build an eligible project
- Construction or renovation of a high performance building
- Project planning, design, and modeling work
- Registration and certification of a project with the U.S. Green Building Council (USGBC)
- Commissioning and enhanced verification of building performance



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The individual support mechanisms are described in more detail below. For all types of support, there is a general requirement that applicants provide matching funds equivalent to the funding offered under the program.

Loans

Loans are available at a fixed interest rate -- 4% as of March 2011 -- and must be repaid within 10 years. The maximum loan is \$100,000 for residential projects and \$2 million for small business projects. Loans may be amortized over a period of up to 25 years.

Grants

Grants are available for up to 10% of eligible project costs or \$500,000. Applicants may request both a grant and a loan, but not for the same project.

Loan Guarantees

Loan guarantees will take the form of a grant that may be used in the event of financing default on the part of the applicant, up to \$100,000 for residential projects and \$2 million for small business projects.

Visit the program web site and review the funding guidelines for additional program details and application procedures.

**Click [here](#) for more information on the United States Green Building Council's Leadership in Energy and Environmental Design (LEED) Green Building Rating System.*

Contact:

Program Information - DCED High Performance Building Program
Department of Community and Economic Development
Center for Business Financing - Site Development Division
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Web Site: <http://www.newpa.com/index.aspx>

Pennsylvania Incentives/Policies for Renewables & Efficiency

DCED - Solar Energy Incentives Program

Program Overview:

State:	Pennsylvania
Incentive Type:	State Grant Program
Eligible Renewable/Other Technologies:	Solar Water Heat, Solar Thermal Process Heat, Photovoltaics
Applicable Sectors:	Commercial, Industrial, Nonprofit, Schools, Local Government
Amount:	Varies by project, but program generally requires matching funds at least equivalent to DCED funding Manufacturer loans: \$35,000 per job created within 3 years Manufacturer grants: \$5,000 per job created within 3 years Loans for distribution projects: Lesser of \$5 million or \$2.25/watt Loans for solar thermal projects or R&D facilities: \$5 million Grants for distribution projects: Lesser of \$1 million or \$2.25/watt Grants for solar thermal projects or R&D facilities: \$1 million Grants for feasibility studies: 50% of cost up to \$175,000 Loan guarantee grants: Up to 75% of deficient funds up to \$30 million
Maximum Incentive:	
Equipment Requirements:	PV systems must be new and UL-listed; solar thermal systems must be new and SRCC OG-100 rated (or comparable rating approved by the DEP)
Installation Requirements:	Energy generation projects must produce at least 80% of maximum annual output compared to optimal placement and orientation
Funding Source:	Alternative Energy Investment Fund (state issued bonds)
Program Budget:	\$80 million
Start Date:	09/01/2011 (2011 solicitation)
Expiration Date:	10/31/2011 (2011 solicitation)
Web Site:	http://www.newpa.com/find-and-apply-for-fundi...
Authority 1:	Special Session H.B. 1
Date Enacted:	07/09/2008
Summary:	

Note: While this program is currently closed, it will be accepting new applications from September 1, 2011 - October 31, 2011.

In July 2008, Pennsylvania enacted legislation providing \$650 million to support a variety of renewable energy and energy efficiency technologies. Included in this legislation was a provision authorizing the creation of a \$80 million grant and loan program for solar energy technologies. The program is jointly administered by the Department of Community and Economic Development (DCED) and the Department of Environmental Protection (DEP), under the direction of Commonwealth Finance Authority (CFA). Program guidelines were first issued in April 2009 although they have been revised since that time. Incentives are available to businesses (including non-profits), economic development organizations, and political subdivisions (e.g., local governments, schools, etc.).

The program will offer support for solar technologies in the form of loans, grants and loan guarantees (i.e., grants to be used in the event of a financing default). Eligible facilities are defined as those that generate, distribute, or store solar energy; manufacturing or assembly facilities for solar panels or other solar equipment; and solar technology R&D facilities. This definition includes both solar photovoltaic (PV) and solar thermal systems. All systems must have a lifetime of at least four years. Funds may be used for the following project costs:

- Acquisition of land and buildings, rights-of-way, and easements necessary for project construction
- Clearing and preparation of land to build an eligible project
- Construction or renovation of a building to manufacture solar components and systems
- Equipment purchases for the manufacture of solar systems
- Purchase, installation and construction of facilities to produce, distribute, and store solar energy or produce hot water using solar energy
- Project planning and feasibility studies
- Permit fees
- Administrative costs associated with an eligible project, not to exceed 3% of funding

The individual support mechanisms are described in more detail below. For all types of support, there is a general requirement that applicants provide matching funds equivalent to the funding offered under the program. Energy generation projects must undergo a solar shade analysis which shows annual energy production of at least 80% of optimal. In addition, all PV energy systems must be new and UL-listed and solar thermal systems must be new and SRCC OG-100 rated (or comparable rating approved by the DEP). All systems must be installed in accordance with the applicable construction codes and standards.

Loans

Loans are available at a fixed interest rate -- 5% as of August 2011 -- for terms of up to 10 years (equipment) or 15 years (real estate). Loans for manufacturing facilities are limited to \$35,000 per job created within three years of loan approval. Loans for energy production projects are generally limited to \$5 million although larger loans of greater than may be considered on a case-by-case basis. Loans for PV energy production projects are also limited to \$2.25 per watt.

Grants

Grants for manufacturing facilities are available for up to \$5,000 per job created within three years of grant approval. Grants for energy production facilities are generally limited to \$1 million, although larger grants may be considered on a case-by-case basis. Grants for PV energy production projects are also limited to \$2.25 per watt. Planning and feasibility studies are also eligible for grants of the lesser of 50% of the cost of the study or \$175,000. The guidelines state that the CFA prefers to support generation projects through loans rather than grants; however, it will consider grant requests from projects for which there is not a long-term contract (10 years or more) in place for the Solar Renewable Energy Certificates (SRECs) produced by the project.

Loan Guarantees

Loan guarantees will take the form of a grant that may be used in the event of financing default on the part of the applicant. Loan guarantees are limited to 75% of the deficiency up to \$30 million. The term of the grant may not exceed five years.

Visit the program web site and review the funding guidelines for additional program details and application procedures.

Contact:

Program Information - DCED Solar Energy Program
Department of Community and Economic Development
Center for Business Financing - Grants Division
Commonwealth Keystone Building
400 North Street, 4th Floor
Harrisburg, PA 17120-0225
Phone: (717) 787-7120
Fax: (717) 772-3581
E-Mail: ra-dcedcbf@state.pa.us
Web Site: <http://www.newpa.com/index.aspx>

Pennsylvania Incentives/Policies for Renewables & Efficiency

DCED - Wind and Geothermal Incentives Program

Program Overview

State:	Pennsylvania
Incentive Type:	State Grant Program
Eligible Renewable/Other Technologies:	Wind, Geothermal Electric, Geothermal Heat Pumps, Geothermal Direct-Use
Applicable Sectors:	Commercial, Industrial, Nonprofit, Schools, Local Government
Amount:	Varies by project, but program generally requires matching funds at least equivalent to DCED funding Manufacturer loans: \$35,000 per job created within 3 years Manufacturer grants: \$5,000 per job created within 3 years Loans for geothermal systems: \$3 per square foot of space served up to \$5 million
Maximum Incentive:	Loans for wind energy production projects: \$5 million Grants for wind energy production projects: \$1 million Grants for feasibility studies: 50% of cost up to \$175,000 Loan guarantee grants: Up to 75% of deficient funds up to \$5 million
Funding Source:	Alternative Energy Investment Fund (state issued bonds)
Program Budget:	\$25 million
Start Date:	January 2009
Web Site:	http://www.newpa.com/find-and-apply-for-fundi...
Authority 1:	Special Session H.B. 1
Date Enacted:	07/09/2008
Summary:	

In July 2008, Pennsylvania enacted a broad \$650 million alternative energy bill designed to provide support for a variety of renewable energy and energy efficiency technologies. Included in this legislation was a provision authorizing the creation of a \$25 million grant and loan program for wind and geothermal energy technologies. The program is jointly administered by the Department of Community and Economic Development (DCED) and the Department of Environmental Protection (DEP), under the direction of Commonwealth Finance Authority (CFA). Program guidelines were initially issued in January 2009 with revisions issued later in June and October 2009. Incentives are available to businesses (including non-profits), economic development organizations, and political subdivisions (e.g., local governments, schools, etc.).

The program will offer support for wind and geothermal technologies in the form of loans, grants and loan guarantees (i.e., grants to be used in the event of a financing default). The definition of geothermal includes, but is not limited to, closed-loop geothermal heat pump systems that use the ground, groundwater, or an underground mine as an energy source. Eligible wind energy-related applications include energy production facilities and manufacturing facilities for wind turbines and other system components. Funds may be used for the following project costs:

- Acquisition of land and buildings, rights-of-way, and easements necessary for project construction
- Clearing and preparation of land to build an eligible project
- Construction or renovation of a building to manufacture wind or geothermal components and systems
- Equipment purchases for the manufacture of wind or geothermal systems
- Purchase, installation, and construction of facilities to produce and distribute geothermal or wind energy
- Project planning and feasibility studies



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- Permit fees
- Administrative costs associated with an eligible project, not to exceed 3% of funding

The individual support mechanisms are described in more detail below. For all types of support, there is a general requirement that applicants provide matching funds equivalent to the funding offered under the program.

Loans

Loans are generally available at a fixed interest rate for terms of up to 10 years (equipment) or 15 years (real estate). Interest rates are set at 1% for geothermal projects and determined by market rates (5% as of July 2011) for other projects. Loans for manufacturing facilities are limited to \$35,000 per job created within three years of loan approval. Loans for geothermal systems may not exceed \$3 per square foot of space to be served by the system, up to \$5 million. Loans for wind energy generation or distribution projects are limited to \$5 million.

Grants

Grants for renewable energy manufacturing facilities are available for up to \$5,000 per job created within three years of grant approval. Grants for wind energy production or distribution facilities are limited to \$1 million. Planning and feasibility studies are also eligible for grants of the lesser of 50% of the cost of the study or \$175,000. Grants are not available for the installation of geothermal energy systems.

Loan Guarantees

Loan guarantees will take the form of a grant that may be used in the event of financing default on the part of the applicant. Loan guarantees are limited to 75% of the deficiency up to \$5 million. The term of the grant may not exceed five years.

Visit the program web site and review the funding guidelines for additional program details and application procedures.

Contact:

Program Information - DCED Renewable Energy Program
Department of Community and Economic Development
Center for Business Financing - Site Development Division
Commonwealth Keystone Building
400 North Street, 4th Floor
Harrisburg, PA 17120-0225
Phone: (717) 787-7120
Fax: (717) 772-3581
E-Mail: ra-dcedcbf@state.pa.us
Web Site: <http://www.newpa.com/index.aspx>

Pennsylvania Incentives/Policies for Renewables & Efficiency

Pennsylvania Green Energy Loan Fund

Program Overview:

State:	Pennsylvania
Incentive Type:	State Loan Program
Eligible Efficiency Technologies:	Water Heaters, Lighting, Lighting Controls/Sensors, Chillers, Furnaces, Boilers, Heat pumps, Central Air conditioners, Energy Mgmt. Systems/Building Controls, Duct/Air sealing, Building Insulation, Windows, Doors, Roofs, Custom/Others pending approval, Appliances and Plug Loads
Eligible Renewable/Other Technologies:	Solar Water Heat, Photovoltaics, Wind, Biomass, Geothermal Heat Pumps, CHP/Cogeneration, Other Distributed Generation Technologies
Applicable Sectors:	Commercial, Industrial, Nonprofit, Schools, Local Government, Multi-Family Residential
Amount:	Varies by project; loans may range from \$100,000 to \$2.5 million
Maximum Incentive:	\$2.5 million loan maximum (approximately)
Terms:	Interest rates vary on a case-by-case basis, but generally from 4.0 - 6.5%; loan terms determined by life of equipment for up to 15 years; loans secured by financed assets or other collateral.
Expiration Date:	No expiration, revolving loan fund
Funding Source:	American Recovery and Reinvestment Act (ARRA); additional ARRA leveraged funds
Program Budget:	\$48 million (\$12 million initial ARRA capital; \$36 million in additional leveraged funds)
Start Date:	2010
Web Site:	http://www.trfund.com/financing/energy/page1f...

Summary:

The Pennsylvania Green Energy Loan Fund, administered by The Reinvestment Fund (TRF) will provide loans to finance energy conservation and energy efficiency improvements in buildings throughout Pennsylvania. Eligible borrowers include commercial, industrial, multi-family residential, non-profit, and government entities. The program notably will not provide loans for energy improvements made in single-family residential dwellings.

Supported improvements generally include energy retrofit measures (limited or extensive), equipment replacement, or gut rehabs in existing, occupied buildings. Projects involving new construction may be eligible on a case-by-case basis. The program may also support projects involving combined heat and power (CHP) or on-site renewable energy systems in conjunction with a larger building energy efficiency project. In order to qualify for a loan, a project must result in an estimated energy consumption reduction of at least 25%. Eligible improvements are generally custom in nature, but the following possible improvements are listed in the program application:

- Air sealing
- Building insulation
- HVAC systems and controls
- Interior and exterior lighting and controls
- Domestic hot water (heating system and plumbing)
- Appliances and other plug loads
- Windows, exterior, doors, and roofs
- On-site energy systems such as PV, solar water heating, geothermal, wind, biomass, and CHP systems

Loans are available in amounts from roughly \$100,000 to \$2.5 million. Interest rates will be determined on a case-by-case basis but



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are generally expected to be from 4.0% to 6.5%. The loan term will be set to correspond to the expected life of the equipment, up to 15 years. Loans will be secured by the financed assets, or other collateral such as personal or corporate guarantees. Applications will be accepted on a rolling basis.

The program will operate as a revolving loan program where the fund is replenished by interest and principal repayments made on prior loans. The fund is initially capitalized with \$12 million in American Recovery and Reinvestment Act (ARRA) funding, to which the TRF has added an additional \$36 million in leveraged funds. Please see the program web site for additional information and program materials.

Contact:

Program Information - PA Green Energy Loan Fund
The Reinvestment Fund (TRF)
718 Arch Street, Suite 300 North
Philadelphia, PA 19106-1591
Phone: (215) 574-5800
E-Mail: PaGELF@trfund.com
Web Site: <http://www.trfund.com/>

Pennsylvania Incentives/Policies for Renewables & Efficiency

Small Business Pollution Prevention Assistance Account Loan Program

Program Overview:

State:	Pennsylvania
Incentive Type:	State Loan Program
Eligible Efficiency Technologies:	Lighting, Chillers, Furnaces, Boilers, Heat pumps, Central Air conditioners, Motors, Processing and Manufacturing Equipment, Custom/Others pending approval
Eligible Renewable/Other Technologies:	Not specified, but must meet general project eligibility criteria
Applicable Sectors:	Commercial, Industrial, (no more than 100 full-time employees)
Amount:	Up to 75% of total eligible project cost
Maximum Incentive:	\$100,000
Terms:	2% fixed interest; Maximum loan term of 10 years
Web Site:	http://www.portal.state.pa.us/portal/server.p...

Summary:

The Pollution Prevention Assistance Account (PPAA) offers low-interest loans to help small businesses (100 full-time employees or less) located within the state implement energy efficiency and pollution prevention projects. Loans may be issued for 75% of project costs up to \$100,000, with terms of up to 10 years. The program is only available to qualifying businesses that adopt or install pollution prevention or energy efficient equipment or processes that reduce or reuse raw materials on-site, reduce the production of waste, or significantly reduce energy consumption and are directly related to the business activity. Renewable energy systems are eligible for loans under this program if they meet the project eligibility criteria. A list of potentially eligible projects is provided in the program guidelines.

The program is administered by the PA Department of Environmental Protection and the PA Department of Community and Economic Development. Since the program's inception in 1999, DEP has received 186 loan applications totaling more than \$9.3 million. In order to qualify, the project must have a payback that is less than or equal to the loan term, and the expected benefits must extend past the term of the loan. Applications are available at the program website above.

Contact:

Gene DelVecchio
Pennsylvania Department of Environmental Protection
Office of Energy and Technology Deployment
Rachel Carson State Office Building
400 Market Street, 15th Floor
Harrisburg, PA 17105-8772
Phone: (717) 783-8411
Fax: (717) 783-2703
E-Mail: gdelvecchi@state.pa.us
Web Site: <http://www.depweb.state.pa.us>

Pennsylvania Incentives/Policies for Renewables & Efficiency**Pennsylvania Sunshine Solar Rebate Program**

Program Overview:

State:	Pennsylvania
Incentive Type:	State Rebate Program
Eligible Renewable/Other Technologies:	Solar Water Heat, Solar Thermal Process Heat, Photovoltaics
Applicable Sectors:	Commercial, Industrial, Residential, Low-Income Residential, Agricultural Residential PV: \$0.75/W DC Commercial PV: \$0.50 - \$0.75/W DC (varies by system size)
Amount:	Residential Battery Backup (1-10 kW only): \$0.35 - \$1.00/amp-hour; actual value varies according to the rebate step of associated PV system Solar Thermal: 35% of installed cost Low-income (PV and solar thermal): 35% of installed cost Residential PV: lesser of \$7,500 or 35% of installed costs Commercial PV: lesser of \$52,500 or 35% of installed costs
Maximum Incentive:	Residential Battery Backup (1-10 kW only): 400 amp-hrs/kW; actual value varies according to the rebate step of associated PV system Solar Thermal: \$5,000 for residential, \$50,000 for commercial
Eligible System Size:	Residential PV: 1 kW minimum (10 kW maximum for battery back-up) Commercial PV: 3 kW minimum
Equipment Requirements:	Equipment must be new; PV equipment must be listed as eligible under the California Solar Initiative (CSI); Utility grade meter (new or refurbished) required for PV systems; SRCC OG-100 certification required for solar thermal collectors
Installation Requirements:	Work must be performed by a program-approved installer; PV systems must generally be grid-connected (exceptions on a case-by-case basis); Shade and system performance analysis must indicate system output at least 80% of optimum; Newly constructed homes must be Energy Star certified
Ownership of Renewable Energy Credits:	Not specified, but net metering customers generally retain title to RECs
Funding Source:	Pennsylvania Energy Independence Fund (state bonds)
Program Budget:	\$100 million (total over life of the program)
Start Date:	05/18/2009 (date of program opening); 09/01/2010 (battery back addition)
Web Site:	http://www.portal.state.pa.us/portal/server.p...
Authority 1:	Special Session H.B. 1
Date Enacted:	07/09/2008
Date Effective:	05/18/2009 (date of program opening)
Summary:	

Note: As of August 19, 2011 this program is operating under a waiting list system. Applications will continue to be accepted, but rebates for waiting list applications are not guaranteed. Funding will only be assigned to new projects as it becomes available through attrition of older projects. Please see the program web site for additional details.

The Pennsylvania Sunshine program offers rebates to residential and small commercial residents that install photovoltaic (PV) and

solar thermal systems. Systems that use solar thermal energy for the purpose of radiant heating or pool or hot tub heating are not eligible; however, other types of uses which require heated water are eligible (e.g., industrial process heating). The program was authorized in July 2008 by the state legislature and began accepting applications in May 2009 under the administration of the Pennsylvania Department of Environmental Protection (DEP). Only systems installed after the date of program opening are eligible for rebates. A total of \$100 million (funded through state bonds) is available for rebates over the lifetime of the program. The DEP expects the program as a whole to last three to four years.

All residential applicants must be Pennsylvania residents, own the home upon which the system is installed, and use it as a primary residence (i.e., vacation homes and investment properties do not qualify for residential rebates). Small business applicants must be for-profit entities located within the state of Pennsylvania with no more than 100 full-time employees. This definition includes producers of an agricultural commodity. Low-income residents (60% or less of median state income) are eligible for higher incentives than other applicants.

It is important to note that residents and small businesses do not submit incentive applications themselves. Applications must be submitted on behalf of the applicant by an approved installer. Households are eligible for only one PV and one solar thermal rebate. Small businesses may receive multiple rebates, but are only permitted to submit one PV application and one solar thermal application at a time and must complete the project and rebate process prior to submitting another application.

The Pennsylvania Department of Environmental Protection has issued a policy statement on "double-dipping" from multiple solar rebate programs (e.g., the PA Sunshine and the PPL Electric Utilities solar rebate programs). Double-dipping is generally not permitted; however, the DEP does identify some circumstances where participation in PA Sunshine and another solar rebate program would not be considered double-dipping. Click [here](#) or visit the program website to view the DEP's statement.

The program is set up to provide rebates that decline over time as certain benchmarks, or "steps", of installed capacity are reached. The residential and small business portions are assigned separate incentive schedules for PV rebates, but the schedules are combined for solar thermal installations. Each residential PV step has been allotted 10 megawatts (MW) of installed capacity. Each small business PV step was initially allotted 10 MW of installed capacity, except the fourth step, which received only 5 MW but has since been expanded and extended. Solar thermal incentives are scheduled to be stepped down at intervals of 1,500 installed systems.

The program website contains a tally of installed projects to inform homeowners and installers of the incentive status. Residential sector applications met the third milestone in November 2010 and applications are now being reviewed under the fourth and final tier of incentives. Small business applications reached the fourth capacity milestone in May 2010, prompting a program suspension. The small business program was re-opened in June 2010. As of early July 2011 the program web site listed 12.2 MW in available capacity remaining for the final small business PV step and 4.3 MW for the final residential PV step. In 2011 a separate stepped incentive schedule was added for battery back-up systems. This incentive is effective for battery back-up systems installed on or after September 1, 2010.

The list below describes incentive levels and other program rules as they stood as of July 5, 2011.

- **Residential PV:** \$0.75/W for systems of 1-10 kilowatts (kW). Systems larger than 10 kW are eligible, but incentives are limited to first 10 kW.
- **Residential Battery Back-up:** \$0.35 - \$1.00/amp-hour, based on the incentive step under which the associated PV system was approved. Systems larger than 10 kW are not eligible for battery back-up incentives.
- **Small Business PV:** \$0.75/W for systems of 3-10 kW and \$0.50/W for next 90 kW. Systems larger than 100 kW are eligible, but incentives are limited to first 100 kW.
- **Solar Thermal:** 35% of installed system cost, with maximums of \$5,000 for residences and \$50,000 for small businesses.
- **Low-Income (PV and Solar Thermal):** 35% of installed costs (the maximum rebate authorized by the enabling legislation).

All work must be performed by approved installers (see list on program website), and systems are subject to a variety of equipment and installation requirements. System owners or site hosts are permitted to assign the rebate to an installer or a leasing company. The application procedures generally require that systems be grid-connected, but exceptions to this requirement may be granted by



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the DEP on a case-by-case basis at the applicant's request. The program will not cover costs associated with roof repair. Provisions also exist for system inspections and performance reporting.

Ownership of renewable energy credits (RECs) or other environmental attributes produced by rebated systems is not addressed in the program rules; however, Pennsylvania's [net metering rules](#) grant the customer-generator title RECs generated by net metered systems unless the customer assigns them to another entity or specifically rejects ownership. Please consult the program guidelines or contact the DEP for further program details.

Contact:

Public Information - PA Sunshine
Pennsylvania Department of Environmental Protection
Office of Energy and Technology Deployment
PO Box 8772
Harrisburg, PA 17105-8772
Phone: (717) 783-8411
E-Mail: pasunshine@pa.gov
Web Site: <http://www.depweb.state.pa.us/energy>

Pennsylvania Incentives/Policies for Renewables & Efficiency**PECO Energy (Gas & Electric) – Commercial Energy Efficiency Rebate Program**

Program Overview:

State:	Pennsylvania
Incentive Type:	Utility Rebate Program
Eligible Efficiency Technologies:	Lighting, Lighting Controls/Sensors, Chillers, Heat pumps, Central Air conditioners, Motors, Motor VFDs, Led Exit Signs, Commercial Cooking Equipment, Commercial Refrigeration Equipment
Applicable Sectors:	Commercial, Industrial, Nonprofit, Local Government, State Government, Fed. Government, Multi-Family Residential, Institutional
Amount:	Unitary and Split Air Conditioning Systems and Air Source Heat Pumps: \$25-\$45/ton Chillers: \$10-\$40/ton Room Air Conditioners: \$60 Ground Source Heat Pumps, New Ground Loop: \$400/ton Ground Source Heat Pumps, Existing Ground Loop: \$40/ton Hotel Occupancy sensors: \$30-\$80 Fluorescent Lamps: \$1-\$9 Lighting Fixtures: \$15-\$45 Lighting Controls/Sensors: \$0.09-\$0.12/Watts Controlled LED Lamps: \$15 LED Signs/Fixtures: \$15-\$45 LED Traffic Lights: \$48 - \$52 LED Street Lights: \$50 - \$120 Motors: \$8-\$475 based on horse power Refrigeration measures: \$4-\$400 Ice Makers: \$100-\$500 Cooking Measures: \$1-\$2000 Custom Incentives Also Available
Equipment Requirements:	Unitary and Split Air Conditioning Systems and Air Source Heat Pumps: 15 SEER or 10.2-12 EER/TBD IEER depending on size Air-Cooled Chillers: 1.04 kW/ton-IPLV Ground Source Heat Pumps: EER 17
Expiration Date:	5/31/11
Web Site:	http://www.pecosmartideas.com/programsandreba...

Summary:

PECO energy provides custom and prescriptive incentives for commercial energy efficiency retrofits including HVAC systems, Lighting, Drives and Motors, Refrigeration and Food Services. Government and Non-profit organizations can qualify for additional equipment incentives including street/traffic lighting, audits and technical assistance. Customers should mail completed, signed incentive application forms with receipts to the address below.

Contact:

PECO Commercial
4377 County Line Road
Chalfont, PA 18914
Phone: (888) 573-2672
Web Site: <http://www.peco.com/SmartIdeas>

Pennsylvania Incentives/Policies for Renewables & Efficiency

PECO Energy (Gas) – Heating Efficiency Rebate Program

Program Overview:

State:	Pennsylvania
Incentive Type:	Utility Rebate Program
Eligible Efficiency Technologies:	Water Heaters, Furnaces , Boilers
Applicable Sectors:	Commercial, Residential
Amount:	Natural Gas Furnaces/Boilers: \$300 Natural Gas Storage Tank Water Heater: \$50 Furnaces/Boilers/Water Heaters: must be ENERGY STAR qualified Water Heaters: Business Customers not eligible
Equipment Requirements:	Furnaces: Must have a 90% or greater AFUE rating Boilers: Must have an 85% or greater AFUE rating Water Heaters: Must have an EF of 0.67 or greater
Web Site:	http://www.peco.com/SmartIdeas

Summary:

The PECO Smart Gas Efficiency Upgrade Program offers rebates and incentives to residential and small business customers that install an ENERGY STAR qualified, high-efficiency natural gas furnace or boiler, and to residential customers who install an ENERGY STAR qualified water heater. The program is available to PECO natural gas customers in the natural gas service area of Bucks, Chester, Delaware and Montgomery Counties. Customers are only eligible if they are replacing existing natural gas heating equipment, or converting to natural gas from another home heating fuel. The rebate application and the product receipt must be mailed to PECO within 45 days of equipment installation. Appliances for use in new construction are not eligible for this program.

Contact:

PECO Natural Gas Energy Efficiency Rebates
PECO Smart Home Rebates
PO Box 40088
Portland, OR 97240-0088
Phone: (888) 573-2672
Web Site: <http://www.peco.com/SmartIdeas>