

Electronic Handbook of Industrial Resources

**PENNSYLVANIA**



# Electronic Handbook of Industrial Resources

## PENNSYLVANIA

November 2010

### Introduction

This handbook provides a comprehensive listing of incentives, tools, and resources for industrial manufacturing energy efficiency in the state of Pennsylvania. The document is organized according to industrial system and features information on rebates, waived fees, tax credits, loans, and other resources, such as analysis tools, education and training programs, and energy assessments. The handbook is based on data available in the *States Incentives and Resources Database*, which is maintained by the U.S. Department of Energy (DOE) Industrial Technologies Program (ITP).

The *States Incentives and Resources Database* is a comprehensive searchable online database of approximately 3,100 energy efficiency incentives organized by state. The database is updated regularly and is accessible via the Save Energy Now State and Regional Partnerships' Web site:

[http://www1.eere.energy.gov/industry/states/state\\_activities/incentive\\_search.aspx](http://www1.eere.energy.gov/industry/states/state_activities/incentive_search.aspx)



# Contents

Introduction .....	2
State Industrial Overview .....	4
Federal and National Industrial Energy Efficiency Programs .....	5
State Incentives by Industrial System.....	5
Building Systems.....	5
Energy Sources.....	7
HVAC .....	8
Industrial Systems / Process Specific .....	9
Lighting.....	10
Load Management.....	11
Industrial Systems General.....	13
End Notes.....	16

# State Industrial Overview

Pennsylvania has a total of 12.6 million residents and ranks 6th in the nation in terms of GDP, which is \$553.3 billion. The state is home to 25 Fortune 500 companies.<sup>1</sup>

Located in the mid-Atlantic region, Pennsylvania is rich in fossil fuels, particularly coal. Pennsylvania's leading energy consuming sector is industrial. In 2008, Pennsylvania ranked 6th in the nation's industrial energy consumption at 1,255.8 trillion Btu and 9th in the nation's industrial natural gas consumption at 205.2 trillion Btu. Pennsylvania's leading industries include chemical manufacturing, food manufacturing, and primary metal manufacturing.<sup>2</sup>

Exhibit 1 below compares the industrial energy consumption in Pennsylvania in relation to the national average. The chart in Exhibit 2 is a visual representation of the same data.

**Exhibit 1: Total Industrial Energy Consumption Statistics in Pennsylvania**

Year	Pennsylvania Energy Consumption (Trillion Btu)	National Average (Trillion Btu)
2000	1,304.5	680.2
2001	1,308.0	642.8
2002	1,283.6	642.0
2003	1,298.6	639.6
2004	1,323.1	658.7
2005	1,300.7	696.7
2006	1,297.2	636.6
2007	1,286.4	637.0
2008	1,255.8	614.8

Source: [http://www.eia.doe.gov/emeu/states/sep\\_use/ind/use\\_ind\\_al.html](http://www.eia.doe.gov/emeu/states/sep_use/ind/use_ind_al.html)

# Pennsylvania at a Glance

## State Information

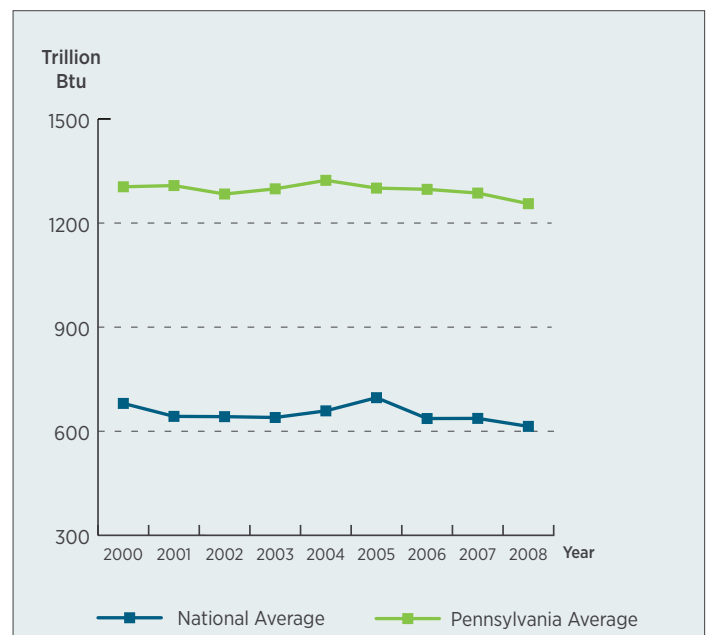
2009 Population (Million)	12.6
2008 GDP (Billion)	553.3
Rank by GDP	6

## Energy Statistics

Total Energy Consumption 2008 (Trillion Btu)	3,899.7
Total Industrial Energy Consumption 2008 (Trillion Btu)	1,255.8
Total Industrial Energy Consumption Rank	6
Total Industrial Electricity Use 2008 (Trillion Btu)	164.2
Total Industrial Electricity Use Rank	5
Total Industrial Natural Gas Use 2008 (Trillion Btu)	205.2
Total Industrial Natural Gas Use Rank	9

Source: [http://tonto.eia.doe.gov/state/state\\_energy\\_profiles.cfm?sid=PA](http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=PA)

**Exhibit 2: Total Industrial Energy Use**



# Federal and National Industrial Energy Efficiency Programs

In addition to the state level programs outlined in more detail in section III there are many government and non-government organizations that have resources to assist industry in the western region to utilize energy more effectively. Financial and technical resources are available from federal agencies, national laboratories, utilities, utility associations, industrial organizations, energy efficiency organizations, state energy offices, energy services companies, nonprofits or nongovernmental organizations, foundations, and private companies.

ITP is one such program that provides industrial manufacturers across the country with a variety of energy efficiency tools, resources, and incentives. ITP is a prime example of DOE's commitment to improving the energy efficiency of industrial operations in the United States. ITP is a multi-faceted outreach and deployment initiative designed specifically for industrial manufacturers. ITP supports research and development of energy efficient technologies, provides industry with energy management and assessment tools, resources, and information.

Several other federal agencies offer energy efficiency incentives in addition to the multitude of DOE resources. The Internal Revenue Service, for instance, provides tax incentives to industrial manufacturers that implement energy efficiency projects. In addition, the U.S. Environmental Protection Agency provides loans on new energy efficient construction and incentives on the implementation of combined heat and power systems. Finally, the U.S. Department of Agriculture is another federal agency that provides incentives to rural and small industrial operations seeking to become more energy efficient.

## State Incentives by Industrial System

### Building Systems

#### Commercial Loan Program

Commercial loans, equity investment, subordinated debt, and royalty financing are available for the following project types: solar water heat, solar space heat, solar thermal electric, solar thermal process heat, photovoltaics, landfill gas, wind, biomass, hydroelectric, fuel cells, CHP/cogeneration, and other distributed generation technologies.

**For More Information:**

<http://www.wppsef.org/investments.html>

**Sponsor:** West Penn Power

**Sponsor Type:** Utility

#### Custom Incentive Program

The Custom Incentive component of the program offers an incentive of \$0.10 per kilowatt hour reduced. Under the Technical Study component of the program, you may also qualify for 50% reimbursement of the study's cost, with possible additional

reimbursement following successful implementation of recommended projects. To qualify, measures and technical studies must meet PPL Electric Utilities' cost-effectiveness threshold and technical criteria. Incentives will be subject to an annual cap for each project and for each participating customer.

**For More Information:**

<http://www.pplelectric.com/e-power/Commercial/custom+incentive+program.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

#### Energy Advisor

Free of charge, current UGI Utilities, Inc. commercial and industrial customers can use and access the UGI Utilities Energy Advisor service. The UGI Utilities Energy Advisor service includes a Technical and Business Ask an Expert Hotline (one-on-one access to engineers and industry business experts), proprietary information databases libraries (including

benchmark and targeted research tools), and monthly informational and resource-rich newsletter.

**For More Information:**

[http://www.ugi.com/portal/page/portal/UGI/Business\\_Gas/Energy\\_Advisor](http://www.ugi.com/portal/page/portal/UGI/Business_Gas/Energy_Advisor)

**Sponsor:** UGI Penn Natural Gas, Inc.

**Sponsor Type:** Utility

#### Energy Conservation

PPL helps clients save money by improving energy efficiency in areas such as lighting, heating and cooling systems, information and building control systems. They can install modern energy-information systems to improve decision-making.

**For More Information:**

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services

**Sponsor Type:** Utility

## Energy Consulting

PPL energy experts can prepare requests for proposals, prepare, design, and build specifications, provide analysis for building envelopes, conduct feasibility studies, and provide a full range of energy-consulting services.

### For More Information:

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services

**Sponsor Type:** Utility

## Energy Efficiency Rebate Program

The PECO Natural Gas Energy Efficiency Rebate Program offers a \$300 rebate to PECO customers who install an ENERGY STAR® qualified, high-efficiency natural gas furnace or boiler.

### For More Information:

[http://www.peco.com/pecobiz/energy\\_savings\\_products\\_services\\_and\\_rebates/natural\\_gas\\_rebates\\_and\\_solutions/Energy+Efficiency+Rebate+Program.htm](http://www.peco.com/pecobiz/energy_savings_products_services_and_rebates/natural_gas_rebates_and_solutions/Energy+Efficiency+Rebate+Program.htm)

**Sponsor:** PECO

**Sponsor Type:** Utility

## Energy Efficiency Rebates

PECO customers receive 20% discounts toward the purchase of energy efficient and renewable energy equipment.

### For More Information:

<http://www.energyfederation.org/peco/default.php>

**Sponsor:** PECO

**Sponsor Type:** Utility

## HVAC Rebates

PPL Electric Utilities is providing financial incentives to our business customers who purchase qualifying HVAC equipment. Rebates are available for a wide range of products such as central air conditioners, chiller pipe insulation, cooling tower fan motors, air-source heat pumps, and more.

### For More Information:

<http://www.pplelectric.com/e-power/Commercial/hvac+rebates.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

## Pennsylvania Energy Harvest Grant Program

The Pennsylvania Department of Environmental Protection (DEP) and the Pennsylvania Department of Agriculture initiated the Pennsylvania Energy Harvest program in 2003 to improve air quality, preserve land, protect local watersheds, and provide economic opportunities for the state's agricultural community. The initiative finances the implementation of clean and renewable-energy technologies that have measurable benefits in terms of pollution reduction, environmental quality, and reduced energy use.

### For More Information:

[http://www.portal.state.pa.us/portal/server.pt/community/energy\\_harvest/10397](http://www.portal.state.pa.us/portal/server.pt/community/energy_harvest/10397)

**Sponsor:** Pennsylvania Department of Environmental Protection

**Sponsor Type:** State

## Performance Contracting

PPL provides energy performance contracting with guaranteed savings that enable clients to fund infrastructure improvements, often with little to no out-of-pocket costs.

### For More Information:

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services

**Sponsor Type:** Utility

## PPL Economic Development Partnership Program LEED Certification Program

Qualified organizations can receive reimbursement for U. S. Green Building Council registration fees, design review, construction review, and initial certification review fees up to a maximum of \$5,000 per project located in PPL's Pennsylvania Service Region. Projects which achieve Gold certification will be rewarded with an additional \$5,000 grant on achieving gold status.

### For More Information:

[http://www.pplelectric.com/NR/rdonlyres/93446100-48BD-4FF6-94B8-2CA2B4D6C95A/0/PPLEconomic\\_Development\\_Partnership\\_Program.pdf](http://www.pplelectric.com/NR/rdonlyres/93446100-48BD-4FF6-94B8-2CA2B4D6C95A/0/PPLEconomic_Development_Partnership_Program.pdf)

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

## State Energy Program

This program provides financial incentives for the production of renewable energy, as well as overall decreased energy consumption.

### For More Information:

<http://www.depweb.state.pa.us/energy/cwp/view.asp?a=1374&Q=482975>

**Sponsor:** Pennsylvania State Energy Program

**Sponsor Type:** State

## Sustainable Development Fund Grant Program

The Sustainable Development Fund (SDF) provides financial assistance for three types of grants: Sustainable Energy Business Planning Grants, Sustainable Energy Demonstration Grants, and other grants that follow the SDF's mission of promoting renewable energy, energy conservation, and sustainable energy businesses.

### For More Information:

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

**Sponsor:** PECO

**Sponsor Type:** Utility

## Sustainable Energy Fund (SEF)

West Penn Power's (WPP) SEF provides a variety of investment tools to fund sustainable energy technologies which parallels its mission and will benefit the WPP service region. The investment tools include: commercial loans, equity investment, subordinated debt, and royalty financing.

**For More Information:**

<http://www.wppsef.org/investments.html>

**Sponsor:** West Penn Power

**Sponsor Type:** Utility

## Water Heater Program

Warren Electric Cooperative is offering rebates of \$1.00 per gallon for the purchase of an energy efficient water heater.

**For More Information:**

<http://warrenec.coop/products.php>

**Sponsor:** Warren Electric Cooperative

**Sponsor Type:** Utility

## Water Heater Rebate Program

The utility is offering incentives of \$50 off the purchase of a water heater that holds less than 80 gallons, and a \$100 rebate for a water heater that hold more than 80 gallons. The utility is also offering a \$50 rebate for customers who install a load control switch on their water heater.

**For More Information:**

<http://www.adamsec.com/waterheating.aspx>

**Sponsor:** Adams Electric Cooperative

**Sponsor Type:** Utility

# Energy Sources

## Commercial Loan Program

Commercial loans, equity investment, subordinated debt, and royalty financing are available for the following project types: solar water heat, solar space heat, solar thermal electric, solar thermal process heat, photovoltaics, landfill gas, wind, biomass, hydroelectric, fuel cells, CHP/cogeneration, and other distributed generation technologies.

**For More Information:**

<http://www.wppsef.org/investments.html>

**Sponsor:** West Penn Power

**Sponsor Type:** Utility

## Hess C-Neutral

This program helps businesses become leaders in environmental stewardship and consumer advocates. Businesses have the option to bundle natural gas, electricity, and/or fuel oil with carbon offset credits, making their total energy purchase 100% carbon neutral.

**For More Information:**

<http://www.hessenergy.com/green/carbon.htm>

**Sponsor:** Hess Energy

**Sponsor Type:** Other

## Pennsylvania Energy Development Authority (PEDA) Grants

PEDA issues periodic funding solicitations to provide support for innovative, advanced energy projects, and for businesses interested in locating or expanding their alternative-energy manufacturing or production operations in Pennsylvania.

**For More Information:**

[http://www.portal.state.pa.us/portal/server.pt/community/peda/10496/peda\\_grant\\_announcement/622080](http://www.portal.state.pa.us/portal/server.pt/community/peda/10496/peda_grant_announcement/622080)

**Sponsor:** Pennsylvania Energy

Development Authority

**Sponsor Type:** State

## Renewable Energy Certificates

An organization can play an important role in supporting renewable energy by purchasing Renewable Energy Certificates from Hess. An organization's green power purchase can range from 1% to 100% of its electricity usage.

**For More Information:**

<http://www.hessenergy.com/products/green/Renewable.aspx>

**Sponsor:** Hess Energy

**Sponsor Type:** Other

## Renewable Energy Program -- Geothermal and Wind Projects

The Renewable Energy Program provides financial assistance in the forms of grants and loan funds to promote the use of alternative energy in the Commonwealth.

**For More Information:**

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=191>

**Sponsor:** Pennsylvania Department of Community and Economic Development

**Sponsor Type:** State

## Solar Energy Program

The Solar Energy Program provides financial assistance in the forms of grants and loan funds to promote the use of alternative energy in the Commonwealth.

**For More Information:**

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=197>

**Sponsor:** Pennsylvania Department of Environmental Protection

**Sponsor Type:** State

## State Energy Program

This program provides financial incentives for the production of renewable energy, as well as overall decreased energy consumption.

**For More Information:**

<http://www.depweb.state.pa.us/energy/cwp/view.asp?a=1374&Q=482975>

**Sponsor:** Pennsylvania State Energy Program

**Sponsor Type:** State

**Sustainable Energy Fund (SEF)**

WPP's SEF provides a variety of investment tools to fund sustainable energy technologies which parallels its mission and will benefit the WWP service region. The investment tools include: commercial loans, equity investment, subordinated debt, and royalty financing.

**For More Information:**

<http://www.wppsef.org/investments.html>

**Sponsor:** West Penn Power

**Sponsor Type:** Utility

**Wind-Energy System Exemption**

This tax exemption stipulates that wind turbines and related equipment (including towers and foundations) may not be counted by tax assessors when setting property values.

**For More Information:**

<http://www.dsireusa.org/documents/Incentives/PA26F.htm>

**Sponsor:** Pennsylvania Department of Revenue

**Sponsor Type:** State

**Energy Efficiency Projects**

The utility's sister company, Constellation Energy Projects & Services Group, helps commercial customers develop solutions to achieve energy goals.

**For More Information:**

<http://www.newenergy.com/portal/site/menuitem.1b1af2559c566632782c7883da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

## HVAC

**Commercial Loan Program**

Commercial loans, equity investment, subordinated debt, and royalty financing are available for the following project types: solar water heat, solar space heat, solar thermal electric, solar thermal process heat, photovoltaics, landfill gas, wind, biomass, hydroelectric, fuel cells, CHP/cogeneration, and other distributed generation technologies.

**For More Information:**

<http://www.wppsef.org/investments.html>

**Sponsor:** West Penn Power

**Sponsor Type:** Utility

**Custom Incentive Program**

The Custom Incentive component of the program offers an incentive of \$0.10 per kilowatt hour reduced. Under the Technical Study component of the program, you may also qualify for 50% reimbursement of the study's cost, with possible additional reimbursement following successful implementation of recommended projects. To qualify, measures and technical studies must meet PPL Electric Utilities' cost-effectiveness threshold and technical criteria. Incentives will be subject to an annual cap for each project and for each participating customer.

**For More Information:**

<http://www.pplelectric.com/e-power/Commercial/custom+incentive+program.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

**Electric Thermal Storage Rebate**

Rebates of \$75/kw (up to \$750) are available for the purchase of electric thermal storage units.

**For More Information:**

<http://www.bedfordrec.com/Objects/MemberServices/ETS.pdf>

**Sponsor:** Bedford Rural Electric Cooperative

**Sponsor Type:** Utility

**Energy Conservation**

PPL helps clients save money by improving energy efficiency in areas such as lighting, heating and cooling systems, information and building control systems. They can install modern energy-information systems to improve decision-making.

**For More Information:**

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services

**Sponsor Type:** Utility

**Energy Efficiency Rebate Program**

The PECO Natural Gas Energy Efficiency Rebate Program offers a \$300 rebate to PECO customers who install an ENERGY STAR® qualified, high-efficiency natural gas furnace or boiler.

**For More Information:**

[http://www.peco.com/pecobiz/energy\\_savings\\_products\\_services\\_and\\_rebates/natural\\_gas\\_rebates\\_and\\_solutions/Energy+Efficiency+Rebate+Program.htm](http://www.peco.com/pecobiz/energy_savings_products_services_and_rebates/natural_gas_rebates_and_solutions/Energy+Efficiency+Rebate+Program.htm)

**Sponsor:** PECO

**Sponsor Type:** Utility

**Geothermal Heating System Rebate**

The cooperative is offering rebates of \$250/ton for the purchase of geothermal heat pump systems.

**For More Information:**

<http://www.bedfordrec.com/Objects/MemberServices/GeoThermalComfort.pdf>

**Sponsor:** Bedford Rural Electric Cooperative

**Sponsor Type:** Utility

**High-Efficiency HVAC and Retrofits**

Allegheny provides rebates to commercial and industrial customers who install a high-efficiency air conditioner or a high-efficiency heat pump.



**For More Information:**

<http://www.alleghenypower.com/EngConserve/PABus/HVAC.asp>

**Sponsor:** Allegheny Power  
**Sponsor Type:** Utility

**HVAC Rebates**

PPL Electric Utilities is providing financial incentives to our business customers who purchase qualifying HVAC equipment. Rebates are available for a wide range of products such as central air conditioners, chiller pipe insulation, cooling tower fan motors, air-source heat pumps, and more.

**For More Information:**

<http://www.pplelectric.com/e-power/Commercial/hvac+rebates.htm>

**Sponsor:** PPL Electric Utilities  
**Sponsor Type:** Utility

**Water Heater Program**

Warren Electric Cooperative is offering rebates of \$1.00 per gallon for the purchase of an energy efficient water heater.

**For More Information:**

<http://warrenec.coop/products.php>

**Sponsor:** Warren Electric Cooperative  
**Sponsor Type:** Utility

## Industrial Systems / Process Specific

**Commercial/Business  
Energy Advisor**

Commercial Energy Advisor has low- and no-cost steps you can take to operate your facilities more efficiently, and long term solutions you can employ to save energy and money.

**For More Information:**

<http://www.touchstoneenergy.com/efficiency/bea/Pages/default.aspx>

**Sponsor:** Touchstone Energy  
Cooperatives  
**Sponsor Type:** Utility

**Custom Incentive Program**

The Custom Incentive component of the program offers an incentive of \$0.10 per kilowatt hour reduced. Under the Technical Study component of the program, you may also qualify for 50% reimbursement of the study's cost, with possible additional reimbursement following successful implementation of recommended projects. To qualify, measures and technical studies must meet PPL Electric Utilities' cost-effectiveness threshold and technical criteria. Incentives will be subject to an annual cap for each project and for each participating customer.

**For More Information:**

<http://www.pplelectric.com/e-power/Commercial/custom+incentive+program.htm>

**Sponsor:** PPL Electric Utilities  
**Sponsor Type:** Utility

**Data Pulses**

Data Pulses provides unedited, near real-time energy data respective to a facility -including demand pulse signals and/or synchronizing time signals - to customers, or upon customer consent, to the appropriate authorized competitive service provider.

**For More Information:**

<http://www.alleghenypower.com/Bus2Bus/Bus2BusEngEfficiency.asp>

**Sponsor:** Allegheny Power  
**Sponsor Type:** Utility

**Energy Audits**

PPL energy staff identifies facility energy usage, determines where money is being wasted, and establishes priorities for improvements.

**For More Information:**

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services  
**Sponsor Type:** Utility

**Energy Consulting**

PPL energy experts can prepare requests for proposals, prepare design and build specifications, provide analysis for building envelopes, conduct feasibility studies, and provide a full range of energy-consulting services.

**For More Information:**

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services  
**Sponsor Type:** Utility

**Motor and Other Rebates**

PPL offers commercial and industrial customers rebates on ceiling and wall insulation, premium efficient motors, high-efficiency compressors, and more.

**For More Information:**

<http://www.pplelectric.com/e-power/Commercial/motors+and+other+rebates.htm>

**Sponsor:** PPL Electric Utilities  
**Sponsor Type:** Utility

**Renewable Energy Program --  
Geothermal and Wind Projects**

The Renewable Energy Program provides financial assistance in the forms of grants and loan funds to promote the use of alternative energy in the Commonwealth.

**For More Information:**

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=191>

**Sponsor:** Pennsylvania Department  
of Community and Economic  
Development  
**Sponsor Type:** State

## Sustainable Development Fund Grant Program

The SDF provides financial assistance for three types of grants: Sustainable Energy Business Planning Grants, Sustainable Energy Demonstration Grants, and other grants that follow the SDF's mission of promoting renewable energy, energy conservation, and sustainable energy businesses.

### For More Information:

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

**Sponsor:** PECO

**Sponsor Type:** Utility

## Variable Frequency Drives

Customers can improve the efficiency of their motor applications, particularly variable loads such as fans and pumps through the installation of Variable Frequency Drives (VFD) to receive a rebate of 50% of the VFD's cost before taxes, for each eligible drive rebate.

### For More Information:

<http://www.alleghenypower.com/EngConserv/PABus/Drives.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Energy Efficiency Projects

The utility's sister company, Constellation Energy Projects & Services Group, helps commercial customers develop solutions to achieve energy goals.

### For More Information:

<http://www.newenergy.com/portal/site/menuitem.1b1af2559c566632782c7883da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

# Lighting

## Custom Incentive Program

The Custom Incentive component of the program offers an incentive of \$0.10 per kilowatt hour reduced. Under the Technical Study component of the program, you may also qualify for 50% reimbursement of the study's cost, with possible additional reimbursement following successful implementation of recommended projects. To qualify, measures and technical studies must meet PPL Electric Utilities' cost-effectiveness threshold and technical criteria. Incentives will be subject to an annual cap for each project and for each participating customer.

### For More Information:

<http://www.pplelectric.com/e-power/Commercial/custom+incentive+program.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

## Energy Conservation

PPL helps clients save money by improving energy efficiency in areas such as lighting, heating and cooling systems, information and building control systems. They can install modern energy-information systems to improve decision-making.

### For More Information:

<http://www.pplenergyservices.com/energy+efficiency/energy+efficiency/>

**Sponsor:** PPL Energy Services

**Sponsor Type:** Utility

## Lighting Program

PPL offers rebates to commercial and industrial customers for installing occupancy controls or energy efficient light fixtures and systems.

### For More Information:

<http://www.pplelectric.com/e-power/Commercial/lighting.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

## Mercury Vapor Lighting Replacement Program

The Energy Policy Act of 2005 mandates that mercury vapor lamp ballasts shall not be manufactured or imported after January 1, 2008, and additional regulations regarding the manufacturing of mercury vapor lamps will completely eliminate availability by 2011. These regulations are designed to promote energy efficiency and conservation with lighting installations. Allegheny Power offers several alternate lighting types to replace mercury vapor lighting when the fixtures fail.

### For More Information:

[http://www.alleghenypower.com/CSC/Services/Mercury\\_Vapor\\_Replacement.asp](http://www.alleghenypower.com/CSC/Services/Mercury_Vapor_Replacement.asp)

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Watt Watchers Commercial Lighting Efficiency Program

The Watt Watchers Commercial Lighting Efficiency Program will provide rebates to commercial customers for certain lighting modifications that improve efficiency.

### For More Information:

<http://www.alleghenypower.com/EngConserv/PABus/Lighting.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

# Load Management

## Advanced Metering and Energy Data Services

Allegheny offers its commercial customers the ability to access historical electric load data in 15, 30, or 60 minute increments for an individual facility or for multiple facilities. In today's changing energy industry, this data could be the critical information needed to make money saving energy decisions.

### For More Information:

<http://www.alleghenypower.com/EngConserv/PA/Bus2BusEECPa.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Data Pulses

This program provides unedited near real-time energy data respective to a facility. Data Pulses provides demand pulse signals and/or synchronizing time signals to the customer— upon customer consent— to the customer's authorized Competitive Service Provider. This service enables customers to take advantage of load management systems and tools.

### For More Information:

<http://www.alleghenypower.com/Bus2Bus/Bus2BusEngEffeciency.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Demand Response

Hess Demand Response offers customers an opportunity to generate recurring revenue. Customers earn money by committing to reduce electricity usage the few times a year when their local power grid is at its peak, or when there is a significant spike in energy prices. For this commitment to reduce usage, Hess will pay customers every month. When they fulfill their commitment during a demand response event, Hess will pay them even more.

### For More Information:

<http://www.hessenergy.com/products/electricity/DR.aspx>

**Sponsor:** Hess Energy

**Sponsor Type:** Other

## Demand Response Programs

Allegheny Energy offers two demand response programs: Economic Load Response and Interruptible Load Resource. The Economic Load Response Program offers financial incentives to customers who reduce their power consumption during periods of high electrical demand or prices. To qualify, customers must have the ability to reduce their electric demand by a minimum of 100 kW per hour. The Interruptible Load Resource Program pays customers if they are called to reduce electrical usage during system emergencies. To participate, customers must agree to be available for up to 10 reductions

per year and have the ability to reduce demand by a minimum of 100 kW per hour.

### For More Information:

<http://www.alleghenypower.com/Bus2Bus/Bus2BusEngEffeciency.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Demand Response Programs

Allegheny Power offers two demand response programs: Economic Load Response and Interruptible Load Resource. The Economic Load Response Program offers financial incentives to customers who reduce their power consumption during periods of high electrical demand or prices. To qualify, customers must have the ability to reduce their electric demand by a minimum of 100 kW per hour. The Interruptible Load Resource Program pays customers if they are called to reduce electrical usage during system emergencies. To participate, customers must agree to be available for up to 10 reductions per year and have the ability to reduce demand by a minimum of 100 kW per hour.

### For More Information:

<http://www.alleghenypower.com/Bus2Bus/Bus2BusEngEffeciency.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Dual Fuel System Program

By participating in the Load Management Program, a dual fuel system qualifies for a special, lower electric rate. Bedford Rural Electric also offers a \$500 rebate towards the purchase of a new heat pump with oil, gas, or propane backup, and \$750 with an ETS booster backup.

### For More Information:

<http://www.bedfordrec.com/Objects/MemberServices/DualFuelSystem.pdf>

**Sponsor:** Bedford Rural Electric Cooperative

**Sponsor Type:** Utility

## Energy Advisor

Free of charge, current UGI Utilities, Inc. commercial and industrial customers can use and access the UGI Utilities Energy Advisor service. The UGI Utilities Energy Advisor service includes a Technical and Business Ask an Expert Hotline (one-on-one access to engineers and industry business experts), proprietary information databases libraries (including benchmark and targeted research tools), and monthly informational and resource-rich newsletter.

### For More Information:

[http://www.ugi.com/portal/page/portal/UGI/Business\\_Gas/Energy\\_Advisor](http://www.ugi.com/portal/page/portal/UGI/Business_Gas/Energy_Advisor)

**Sponsor:** UGI Penn Natural Gas, Inc.

**Sponsor Type:** Utility

## Energy Data Services

Energy data services give Allegheny Energy customers the ability to access historical electric load data in 15-, 30-, or 60-minute increments for an individual facility or for multiple facilities. This data could be used to make money saving energy decisions.

### For More Information:

<http://www.alleghenypower.com/Bus2Bus/EnergyDataServices/EnergyDataServices.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Energy Data Services (EDS)

EDS is a powerful data collection tool that turns a customer's energy usage data into the critical information needed to make money-saving energy decisions.

### For More Information:

<http://www.alleghenypower.com/Bus2Bus/EnergyDataServices/EnergyDataServices.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Energy Management Services

Energy Management Services (EMS) provides evaluation of a customer's total energy use for the purpose of establishing energy conservation solutions that reduce the customer's annual energy expenses. EMS utilizes equipment inventory reports, historical energy bills, walk-through audits, load analysis, and equipment decision-making to provide the optimal use of energy in a facility.

### For More Information:

<http://www.gasauthority.com/cms/Commercial+%26+Industrial/39.html>

**Sponsor:** Municipal Gas Authority of Georgia

**Sponsor Type:** Other

## Generation Buy-Back Program

The utility will offer incentives to commercial and industrial customers that voluntarily reduce energy usage during peak energy times. Participating business customers are then paid a portion of the wholesale cost.

### For More Information:

<http://www.alleghenypower.com/Bus2Bus/Bus2BusEngEffeciency.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

## Load Management Program

To save money on future power purchases, customers can volunteer to have a load control switch attached to their electric hot water heater or electric heating and cooling system.

### For More Information:

<http://www.adamsec.com/loadmangprogram.aspx>

**Sponsor:** Adams Electric Cooperative

**Sponsor Type:** Utility

## Load Management Program

Residential and non-residential customers are eligible to participate in this program, which powers down water heaters during high use periods. Customers receive a \$2.50 monthly credit on their electric bills.

### For More Information:

<http://www.central.coop/energy-savings/load-management-program/>

**Sponsor:** Central Electric Cooperative

**Sponsor Type:** Utility

## Load Management Program

Residential and non-residential customers are eligible to participate in this program, which powers down water heaters during high use periods. Customers receive a \$2.00 monthly credit on their electric bills.

### For More Information:

<http://www.screc.com/Services.html#Load>

**Sponsor:** Sullivan County Rural Electric Cooperative

**Sponsor Type:** Utility

## Smart Returns

Two programs are available for companies who agree to reduce energy use by a guaranteed amount during periods of system-wide, power grid emergencies. Interruptible Load for Reliability Program offers more, guaranteed savings for a preset level of participation, and the Voluntary Load Reduction Program offers flexible participation with fewer savings.

### For More Information:

[http://www.peco.com/pecobiz/smart\\_returns/Smart+Returns+Addl.htm](http://www.peco.com/pecobiz/smart_returns/Smart+Returns+Addl.htm)

**Sponsor:** PECO

**Sponsor Type:** Utility

## Water Heater Management Program

The Southwest Central Rural Electric Cooperative Corporation is giving customers free water heaters in exchange for participation in a program that would allow the utility to power down that water heater during high use periods.

### For More Information:

[http://www.reaenergy.com/water\\_heater\\_management\\_program.htm](http://www.reaenergy.com/water_heater_management_program.htm)

**Sponsor:** REA Energy Cooperative Incorporated

**Sponsor Type:** Utility

## Water Heater Program

If a customer agrees to participate in the Cooperative's load reduction program, they will be granted free water heater service.

### For More Information:

<http://www.northwesternrec.com/hotwater.aspx>

**Sponsor:** Northwestern Rural Electric Cooperative Association

**Sponsor Type:** Utility

## Water Heater Program

Rebates of \$25 are available to customers who participate in the load reduction program. Other \$25 incentives are available to customers who switch from gas water heaters to electric water heaters.

### For More Information:

<http://www.tri-countyrec.com/trico/waterheaters.asp>

**Sponsor:** Tri-County Rural Electric Cooperative

**Sponsor Type:** Utility

## Water Heater Rebate Program

The utility is offering incentives of \$50 off the purchase of a water heater that holds less than 80 gallons, and a \$100 rebate for a water heater that hold more than 80 gallons. The utility is also offering a \$50 rebate for customers who install a load control switch on their water heater.

### For More Information:

<http://www.adamsec.com/waterheating.aspx>

**Sponsor:** Adams Electric Cooperative

**Sponsor Type:** Utility

## Constellation NewEnergy Online

This is an energy-management tool that is available to all electricity customers free of charge. The tool allows customers to find opportunities to improve their company's energy efficiencies, track changes in their company's usage, and compare usage across multiple facilities.

**For More Information:**

<http://www.newenergy.com/portal/site/menuitem.987b194dd5e782ce18a805e4da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

**Energy Efficiency Projects**

The utility's sister company, Constellation Energy Projects & Services Group, helps commercial customers develop solutions to achieve energy goals.

**For More Information:**

<http://www.newenergy.com/portal/site/menuitem.1b1af2559c566632782c7883da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

**Load Response for your Business**

Commercial customers can receive financial rewards, either in the form of dollars or energy bill credits, for using less energy on days when regional power grids are under stress.

**For More Information:**

<http://www.newenergy.com/portal/site/menuitem.c2d5c4a31e3b3661571c5010747176a0?title=lr>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

**Industrial Systems General****Alternative and Clean Energy Program**

The Alternative and Clean Energy Program provides financial assistance in the form of grant and loan funds that will be used by eligible applicants for the utilization, development, and construction of alternative and clean energy projects in the Commonwealth.

**For More Information:**

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=212>

**Sponsor:** Pennsylvania Department of Community and Economic Development

**Sponsor Type:** State

**Custom Incentive Program**

The Custom Incentive component of the program offers an incentive of \$0.10 per kilowatt hour reduced. Under the Technical Study component of the program, you may also qualify for 50% reimbursement of the study's cost, with possible additional reimbursement following successful implementation of recommended projects. To qualify, measures and technical studies must meet PPL Electric Utilities' cost-effectiveness threshold and technical criteria. Incentives will be subject to an annual cap for each project and for each participating customer.

**For More Information:**

<http://www.ppelectric.com/e-power/Commercial/custom+incentive+program.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

**Custom Technology Applications Program**

The Custom Technology Applications Program is focused on reducing energy and demand in the small and large, commercial and industrial, and governmental/non-profit customers with usage of 1 million to 2.5 million kWh/ year. Allegheny Power will provide incentives to the customer up to 25% of the capital investment, and up to \$100,000 of the project, to obtain the energy and demand savings.

**For More Information:**

<http://www.alleghenypower.com/EngConserv/PABus/CustTechApps.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

**Energy Data Services (EDS)**

EDS is a powerful data collection tool that turns a customer's energy usage data into the critical information needed to make money-saving energy decisions.

**For More Information:**

<http://www.alleghenypower.com/Bus2Bus/EnergyDataServices/EnergyDataServices.asp>

**Sponsor:** Allegheny Power

**Sponsor Type:** Utility

**Energy Manager Resources**

Touchstone Energy Cooperatives has teamed up with E Source, the nation's premier energy technology group, to provide you with an array of technology briefs and quarterly reports designed to help commercial energy managers.

**For More Information:**

<https://touchstoneenergy.cooperative.com/public/programs/ManagersResources.html>

**Sponsor:** Touchstone Energy Cooperatives

**Sponsor Type:** Utility

**ETS Rebate Program**

Warren Electric Cooperative offers a \$50.00 rebate per kW for installation of a new electric thermal storage unit.

**For More Information:**

<http://warre nec.coop/products.php>

**Sponsor:** Warren Electric Cooperative

**Sponsor Type:** Utility

**e-VALUATOR Web-Based Energy Analysis Service**

This online tool helps customers evaluate their energy use. This will help to identify energy inefficiencies and areas for energy improvement.

**For More Information:**

<http://www.peco.com/pecobiz/e-valuator/>

**Sponsor:** PECO

**Sponsor Type:** Utility

## Free Energy Audits

On-site energy audits are available at no cost to the consumer-member.

### For More Information:

[http://www.reaenergy.com/member\\_services.htm](http://www.reaenergy.com/member_services.htm)

**Sponsor:** REA Energy Cooperative Incorporated

**Sponsor Type:** Utility

## High Performance Building Program

The High Performance Building Program provides financial assistance in the forms of grants and loan funds to underwrite the cost premiums associated with the design and construction or major renovation of high performance buildings in the Commonwealth.

### For More Information:

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=198>

**Sponsor:** Pennsylvania Department of Community and Economic Development

**Sponsor Type:** State

## HVAC Rebates

PPL Electric Utilities is providing financial incentives to our business customers who purchase qualifying HVAC equipment. Rebates are available for a wide range of products such as central air conditioners, chiller pipe insulation, cooling tower fan motors, air-source heat pumps, and more.

### For More Information:

<http://www.pplelectric.com/e-power/Commercial/hvac+rebates.htm>

**Sponsor:** PPL Electric Utilities

**Sponsor Type:** Utility

## Pennsylvania Energy Harvest Grant Program

The Pennsylvania DEP and the Pennsylvania Department of Agriculture initiated the Pennsylvania Energy Harvest program in 2003 to improve air quality, preserve land,

protect local watersheds, and provide economic opportunities for the state's agricultural community. The initiative finances the implementation of clean and renewable-energy technologies that have measurable benefits in terms of pollution reduction, environmental quality, and reduced energy use.

### For More Information:

[http://www.portal.state.pa.us/portal/server.pt/community/energy\\_harvest/10397](http://www.portal.state.pa.us/portal/server.pt/community/energy_harvest/10397)

**Sponsor:** Pennsylvania Department of Environmental Protection

**Sponsor Type:** State

## Renewable Energy Program -- Geothermal and Wind Projects

The Renewable Energy Program provides financial assistance in the forms of grants and loan funds to promote the use of alternative energy in the Commonwealth.

### For More Information:

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=191>

**Sponsor:** Pennsylvania Department of Community and Economic Development

**Sponsor Type:** State

## Small Business Pollution Prevention Assistance Account (PPAA) Loan Program

PPAA offers low-interest loans to help small businesses implement energy efficiency and pollution prevention projects.

### For More Information:

<http://www.ahs2.dep.state.pa.us/GrantsCenter/ProgramSummary.asp?ID=53>

**Sponsor:** Pennsylvania Department of Environmental Protection

**Sponsor Type:** State

## Solar Energy Program

The Solar Energy Program provides financial assistance in the forms of grants and loan funds to promote the use of alternative energy in the Commonwealth.

### For More Information:

<http://www.newpa.com/find-and-apply-for-funding/funding-and-program-finder/funding-detail/index.aspx?progId=197>

**Sponsor:** Pennsylvania Department of Community and Economic Development

**Sponsor Type:** State

## State Energy Program

This program provides financial incentives for the production of renewable energy, as well as overall decreased energy consumption.

### For More Information:

<http://www.depweb.state.pa.us/energy/cwp/view.asp?a=1374&Q=482975>

**Sponsor:** Pennsylvania State Energy Program

**Sponsor Type:** State

## Sustainable Energy Fund

This \$32 million fund is available to residential and non-residential customers who reduce their building's energy consumption by a minimum of 25%.

### For More Information:

<http://www.trfund.com/financing/energy/energy.html>

**Sponsor:** The Reinvestment Fund

**Sponsor Type:** Other

## Sustainable Energy Fund for the Penelec Region

This grant program is designed to promote the generation and use of renewable energy, energy conservation, and development of renewable energy businesses initiatives. This program is open to businesses in the Penelec Region of Pennsylvania.

**For More Information:**

<http://www.cfalleghenies.org/penelec.htm>

**Sponsor:** Community Foundation for the Alleghenies

**Sponsor Type:** Nonprofit

## Constellation NewEnergy Online

This is an energy-management tool that is available to all electricity customers free of charge. The tool allows customers to find opportunities to improve their company's energy efficiencies, track changes in their company's usage, and compare usage across multiple facilities.

**For More Information:**

<http://www.newenergy.com/portal/site/menuitem.987b194dd5e782ce18a805e4da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

## Energy Efficiency Projects

Constellation Energy Projects Services provides solutions designed to achieve energy goals and promote a sustainable future by offering an extensive array of products and services.

**For More Information:**

<http://www.newenergy.com/portal/site/cne/menuitem.1b1af2559c566632782c7883da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

## Energy Efficiency Projects

The utility's sister company, Constellation Energy Projects & Services Group, helps commercial customers develop solutions to achieve energy goals.

**For More Information:**

<http://www.newenergy.com/portal/site/menuitem.1b1af2559c566632782c7883da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

## End Notes

- <sup>1</sup> “Save Energy Now State Partnerships: ITP Activities in Pennsylvania.” The Office of Energy Efficiency and Renewable Energy (EERE). [http://www1.eere.energy.gov/industry/states/state\\_activities/map\\_new.asp?stid=PA](http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=PA).
- <sup>2</sup> U.S. Energy Information Administration, “State/Territory Energy Profiles,” Accessed October 4, 2010. [http://tonto.eia.doe.gov/state/state\\_energy\\_profiles.cfm?sid=PA](http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=PA)



**EERE Information Center**

1-877-EERE-INFO (1-877-337-3463)

*[www.eere.energy.gov/informationcenter](http://www.eere.energy.gov/informationcenter)*

U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy