

Electronic Handbook of Industrial Resources
DISTRICT OF COLUMBIA



VIRGINIA

MARYLAND

Electronic Handbook of Industrial Resources

DISTRICT OF COLUMBIA

November 2010

Introduction

This resource provides a comprehensive listing of incentives, tools, and resources for industrial manufacturing energy efficiency in the District of Columbia. It 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. It is based on data available in the *States Incentives and Resources Database*, maintained by the U.S. Department of Energy's (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



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State Industrial Overview

The District of Columbia has a total of over half of one million residents and ranks 35th in the nation in terms of GDP, which is \$97.2 billion. It is home to four Fortune 500 companies. In 2008, DC ranked 51st in the nation's industrial energy consumption at 4.0 trillion Btu and 51st in the nation's industrial natural gas consumption at less than 1 trillion Btu.¹

The average price of energy in DC is among the highest in the country, stemming from high natural gas and motor gasoline prices. Nonetheless, approximately two-thirds of all DC households use natural gas for heating homes.²

Exhibit 1 below compares the industrial energy consumption in the District of Columbia 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 the District of Columbia

| Year | District of Columbia Energy Consumption (Trillion Btu) | National Average (Trillion Btu) |
|------|--|---------------------------------|
| 2000 | 3.6 | 680.2 |
| 2001 | 4.2 | 642.8 |
| 2002 | 4.2 | 642.0 |
| 2003 | 4.5 | 639.6 |
| 2004 | 4.2 | 658.7 |
| 2005 | 3.8 | 696.7 |
| 2006 | 3.6 | 636.6 |
| 2007 | 4.0 | 637.0 |
| 2008 | 4.0 | 614.8 |

Source: http://www.eia.doe.gov/emeu/states/sep_use/ind/use_ind_dc.html

District of Columbia at a Glance

State Information

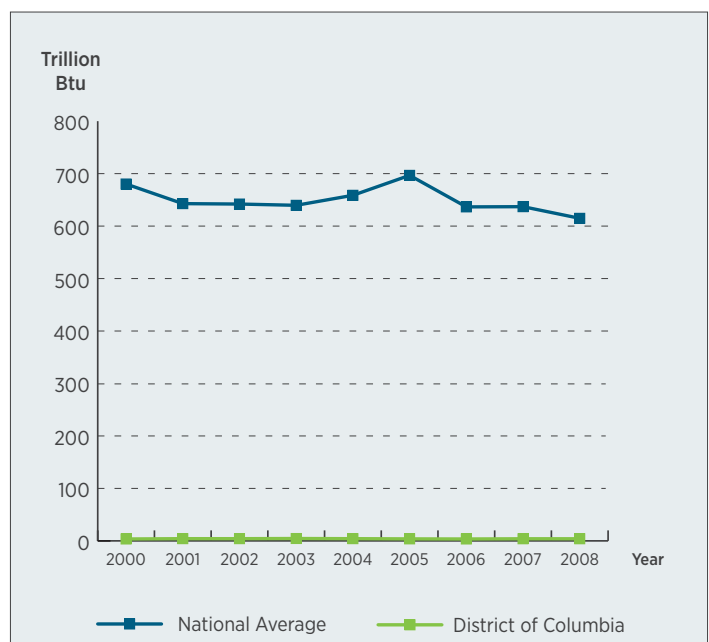
| | |
|---------------------------|--------|
| 2009 Population (Million) | 0.6 |
| 2008 GDP (Billion) | \$97.2 |
| Rank by GDP | 35 |

Energy Statistics

| | |
|---|-------|
| Total Energy Consumption 2008 (Trillion Btu) | 180.4 |
| Total Industrial Energy Consumption 2008 (Trillion Btu) | 4.0 |
| Total Industrial Energy Consumption Rank | 51 |
| Total Industrial Electricity Use 2008 (Trillion Btu) | 1.0 |
| Total Industrial Electricity Use Rank | 51 |
| Total Industrial Natural Gas Use 2008 (Trillion Btu) | 0.0 |
| Total Industrial Natural Gas Use Rank | 51 |

Source: http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=DC

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, non-profits or non-governmental 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. It also provides no-cost energy assessments to industrial plants of all size.

Several other federal agencies offer energy efficiency incentives in addition to the multitude of DOE resources. 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

Industrial Systems General

Commercial & Industrial Energy Efficiency Incentive Program

The PEPCO Commercial and Industrial (C&I) Energy Efficiency Incentive Program is designed to promote and encourage energy efficiency projects both large and small. From changing out light fixtures to replacing major mechanical equipment, the program provides cash incentives to reduce qualified project costs. Each of the incentive plans that compose this incentive program is designed to support the purchase and installation of specific energy efficiency upgrades that play a vital role in making a building more efficient and reducing electric bills.

For More Information:
<https://cienergyefficiency.pepco.com/Overview.aspx>

Sponsor: PEPCO
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

Custom Incentive Program

This utility offers industrial and commercial customers an opportunity to apply for energy efficiency improvements that are not included in the utility's other incentive programs.

For More Information:

<https://cienergyefficiency.pepco.com/Custom.aspx>

Sponsor: PEPCO
Sponsor Type: Utility

District of Columbia Revenue Bond Program

The District of Columbia Revenue Bond Program provides below-market interest rate loans to qualified private enterprises that are located in the Enterprise Zone, as well as nonprofit and manufacturing organizations citywide. Bonds can be issued to assist in financing a broad variety of capital projects, including commercial development, infrastructure improvements, and equipment and machinery used in business.

For More Information:
<http://olbd.dc.gov/olbd/cwp/view.a.3.q.633601.asp>

Sponsor: District Department of the Environment
Sponsor Type: State

Energy Analysis

The utility offers energy analysis services to help commercial customers of various sizes determine an electricity plan that helps them achieve energy goals.

For More Information:

<https://www.gexaenergy.com/business/Solutions/products.aspx>

Sponsor: Gexa Energy

Sponsor Type: Utility

Energy Audit

BlueStar Energy offers its commercial and industrial customers free energy audits.

For More Information:

<http://www.bluestarenergy.com/efficiency-audit.html>

Sponsor: BlueStar Energy

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

Industrial Assessment Center (IAC): University of Delaware

The University of Delaware's IAC is funded by the U.S. Department of Energy, and provides no cost energy assessments to local manufacturers in Delaware, Maryland, Washington, D.C., and Pennsylvania.

For More Information:

<http://www.ece.udel.edu/iac/>

Sponsor: U.S. Department of Energy

Sponsor Type: Federal

Motors

This program provides customers with cash rebates the purchase of energy efficient motors. Rebates depend on the size and efficiency of the motors, but range from \$45 per hp to \$700 per 200 hp. The utility also provides custom incentives.

For More Information:

<https://cienergyefficiency.pepco.com/Motors.aspx>

Sponsor: PEPCO

Sponsor Type: Utility

Trade Ally Network

The PEPCO Commercial and Industrial Energy Efficiency Incentive Program Trade Ally Network provides a listing of experienced energy efficiency contractors, distributors, and other professionals.

For More Information:

<https://cienergyefficiency.pepco.com/Findally.aspx>

Sponsor: PEPCO

Sponsor Type: Utility

Variable Frequency Drives

This program provides customers with cash rebates for the purchase of energy efficient variable frequency drives. Rebates depend on the size and efficiency of the equipment but range from \$1700 per 5 hp to \$7000 per 100 hp. The utility also provides custom incentives.

For More Information:

<https://cienergyefficiency.pepco.com/Variable.aspx>

Sponsor: PEPCO

Sponsor Type: Utility

Vending Equipment and Cooler Controls

This program provides customers with cash rebates of \$75 for the purchase of controls for refrigerated machines and \$30 for controls for non-refrigerated machines. There are also customized incentives as well.

For More Information:

<https://cienergyefficiency.pepco.com/Refri.aspx>

Sponsor: PEPCO

Sponsor Type: Utility

Lighting

Lighting and Lighting Controls

This program provides customers with rebates from \$15 to \$60 per fixture for the purchase of energy efficient lighting equipment on both new and existing construction.

For More Information:

<https://cienergyefficiency.pepco.com/Lighting.aspx>

Sponsor: PEPCO

Sponsor Type: Utility

Lighting Retrofit Services

BlueStar Energy provides lighting retrofit incentives that require no capital investment to qualified clients.

For More Information:

<http://www.bluestarenergy.com/efficiency-retrofit.html>

Sponsor: BlueStar Energy

Sponsor Type: Utility

HVAC

HVAC Systems

This program provides customers with cash rebates from \$35/ton to \$70/ton depending on the energy efficient rating of new HVAC equipment purchased.

For More Information: <https://cienergyefficiency.pepco.com/HVAC.aspx>

Sponsor: PEPCO
Sponsor Type: Utility

Building Systems

Energy Savings for Existing Construction

This utility offers Retro-Commissioning (RCx) services for achieving energy efficiency in existing buildings. A maximum of \$30,000 or 50% of the cost is available as a cash incentive for RCx.

For More Information: <https://cienergyefficiency.pepco.com/EnergySaveEB.aspx>

Sponsor: PEPCO
Sponsor Type: Utility

Energy Savings for New Construction

This utility offers enhanced commissioning (ECx) services for achieving energy efficiency in new construction projects. A maximum of \$20,000 or 50% of the cost is available as a cash incentive for ECx.

For More Information: <https://cienergyefficiency.pepco.com/EnergySavingNC.aspx>

Sponsor: PEPCO
Sponsor Type: Utility

Industrial Systems / Process Specific

Custom Incentive Program

This utility offers industrial and commercial customers an opportunity to apply for energy efficiency improvements that are not included in the utility's other incentive programs.

For More Information: <https://cienergyefficiency.pepco.com/Custom.aspx>

Sponsor: PEPCO
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

Energy Sources

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

Green Power Connection™

This program enables customers to install renewable-powered generators and then sell unused power back to the power grid.

For More Information:

<http://www.pepco.com/home/choice/dc/greenpower/>

Sponsor: PEPCO
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

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

Load Management

Chief Energy Officer (CEO) Online

PEPCO's CEO Online is the online energy management tool for business. CEO Online allows for electronic access to electric load data, for an individual facility or for all of a company's buildings. This unique management tool enables monitoring and analysis for a variety of electric consumption statistics.

For More Information: <http://www.pepco.com/business/services/commercial/energy/>

Sponsor: PEPCO
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

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 Solutions

Ohms Energy offers a suite of energy-management services, including energy analytics, energy procurement, and emissions tracking and trading.

For More Information:

<http://ohmsenergy.com/DemandResponseRates2.php?state=DC>

Sponsor: Ohms Energy

Sponsor Type: Other

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

Energy Manager

Integrys Energy Services provides a free web-based tool to help industrial and commercial customers track and analyze their energy use and demand. The Energy Manager assists companies in reducing their facility's energy use and lowering costs.

For More Information:

<http://www.integrysenergy.com/service/energymanager.aspx>

Sponsor: Integrys Energy Services

Sponsor Type: Utility

Industrial Assessment Center (IAC): University of Delaware

The University of Delaware's IAC is funded by the U.S. Department of Energy, and provides no cost energy assessments to local manufacturers in Delaware, Maryland, Washington, D.C., and Pennsylvania.

For More Information:

<http://www.ece.udel.edu/iac/>

Sponsor: U.S. Department of Energy

Sponsor Type: Federal

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

End Notes

¹ U.S. Department of Energy, Industrial Technologies Program, State and Regional Partnerships, “Industrial Technologies Program Activities in District of Columbia.” http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=DC.

² Energy Information Administration, “State/Territory Energy Profiles,” Accessed October 4, 2010. http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=DC.

EERE Information Center

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

www.eere.energy.gov/informationcenter

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