

Electronic Handbook of Industrial Resources

DELAWARE

PENNSYLVANIA



MARYLAND



Electronic Handbook of Industrial Resources

DELAWARE

November 2010

Introduction

This resource provides a comprehensive listing of incentives, tools, and resources for industrial manufacturing energy efficiency in the state of Delaware. 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

Delaware has a total of 0.9 million residents and ranks 40th in the nation in terms of GDP, which is \$61.8 billion. The state is home to DuPont, a Fortune 500 Company located in Wilmington. In 2008, Delaware ranked 45th in the nation's industrial energy consumption at 98.3 trillion Btu and 44th in the nation's industrial natural gas consumption at 18.8 trillion Btu.

Aside from wind power potential—both onshore and offshore along the Atlantic Coast and in the Delaware Bay—Delaware has few energy resources. Delaware's population and total energy consumption are among the lowest in the nation. The industrial sector is Delaware's largest consumer of energy, partially due to several energy intensive industries including petroleum refining, chemical production, and other manufacturing sectors. Delaware's leading industries include chemical manufacturing, transportation equipment manufacturing, and food manufacturing. Despite the energy use of these industries, Delaware's overall energy intensity is among the lowest in the nation.¹

Exhibit 1 below compares the industrial energy consumption in Delaware 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 Delaware

Year	Delaware Energy Consumption (Trillion Btu)	National Average (Trillion Btu)
2000	119.2	680.2
2001	123.9	642.8
2002	121.8	642.0
2003	120.8	639.6
2004	109.1	658.7
2005	110.1	696.7
2006	104.6	636.6
2007	101.3	637.0
2008	98.3	614.8

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

Delaware at a Glance

State Information

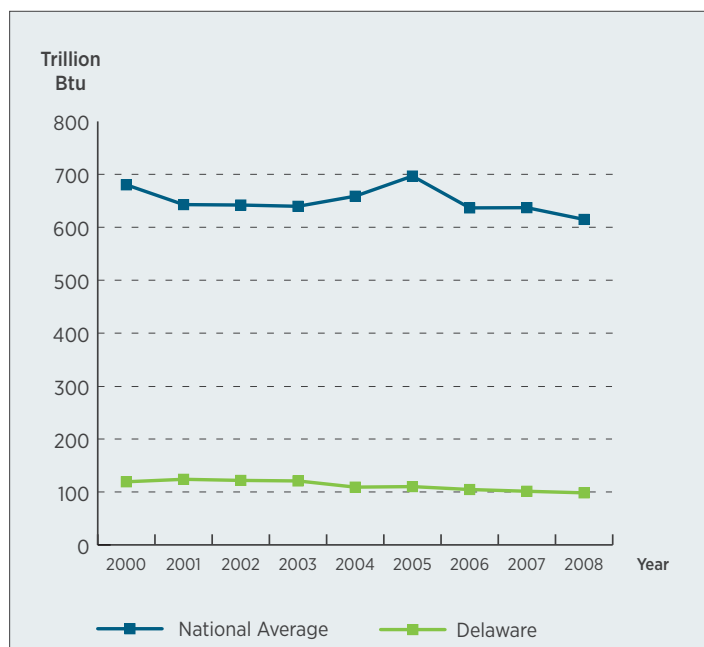
2009 Population (Million)	0.9
2008 GDP (Billion)	61.8
Rank by GDP	40

Energy Statistics

Total Energy Consumption 2008 (Trillion Btu)	295.3
Total Industrial Energy Consumption 2008 (Trillion Btu)	98.3
Total Industrial Energy Consumption Rank	45
Total Industrial Electricity Use 2008 (Trillion Btu)	10.2
Total Industrial Electricity Use Rank	45
Total Industrial Natural Gas Use 2008 (Trillion Btu)	18.8
Total Industrial Natural Gas Use Rank	44

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

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

Lighting

Energize Delaware's Standard Lighting Program for Business

The program offers industrial customers up to \$10,000 for energy efficient lighting improvements.

For More Information:

<http://www.energizedelaware.org/sites/default/files/file/Eff%20Plus/DE%20Business%20Lighting%20Wksht%206-7.pdf>

Sponsor: Delaware Sustainable Energy Utility

Sponsor Type: Nonprofit

HVAC

No incentives found in this category at time of publication.

Other Building Systems

Energy Management with Energy Profiler Online

Delmarva Power has an Internet-based tool that can help customers make energy management decisions. Energy Profiler Online enables users to analyze usage for multiple sites or facilities, review usage data for energy choice decisions, measure the effectiveness of energy efficiency efforts, and generate management reports.

For More Information:

<http://www.delmarva.com/business/services/commercial/energy/>

Sponsor: Delmarva Power

Sponsor Type: Utility

Industrial Systems / Process Specific

Commercial/Business Energy Advisor

Commercial Energy Advisor has low- and no-cost steps users can take to operate facilities more efficiently, as well as long-term solutions that can be employed to save energy and money.

For More Information:

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

Sponsor: Touchstone Energy Cooperatives

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 Consulting

Chesapeake Utilities offers technical services, such as project management, performance monitoring feasibility studies, and cost comparisons.

For More Information:

<http://www.chpkgas.com/business/energyconsult.htm>

Sponsor: Chesapeake Utilities
Sponsor Type: Utility

Energy Guide

With this tool, users can access unbiased advice about energy choices, browse an online store of ENERGY STAR®- rated efficient products, and get personalized recommendations on ways to save energy at a home or business. This tool will compare energy use and teach users to reduce.

For More Information:

<http://www.energyguide.com/>

Sponsor: Delaware Electric Cooperative
Sponsor Type: Utility

Energy Manager Resources

Touchstone Energy Cooperatives has teamed up with E Source, the nation's premier energy technology group, to provide 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

Energy Savings Resources

Delaware Sustainable Energy Utility offers a variety of energy savings resources, such as links to incentive programs and materials on creating an Energy Awareness Guidebook.

For More Information:

<http://www.energizedelaware.org/business/energy-saving-resources-and-tools>

Sponsor: Delaware Sustainable Energy Utility
Sponsor Type: Nonprofit

Energy Sources

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 the 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

Renewable Resource Program

The Delaware Electric Cooperative offers grants to offset the installed cost of photovoltaic, solar water heating, and wind and geothermal renewable energy technologies.

For More Information:

<http://www.delaware.coop/resources.php>

Sponsor: Delaware Electric Cooperative
Sponsor Type: Utility

Research and Development Grants

The Green Energy Fund offers a Research and Development Program provides grants to projects that develop or improve renewable energy technology in Delaware.

For More Information:

<http://delcode.delaware.gov/title29/c080/sc02/index.shtml#TopOfPage>

Sponsor: Delaware Department of Natural Resources and Environmental Control for an Energy Efficiency Program
Sponsor Type: State

Technology and Demonstration Grants

The Technology and Demonstration Program provides grants to projects that demonstrate the market potential for renewable technologies and accelerate the commercialization of these technologies in Delaware.

For More Information:

<http://delcode.delaware.gov/title29/c080/sc02/index.shtml#TopOfPage>

Sponsor: Delaware Department of Natural Resources and Environmental Control for an Energy Efficiency Program

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

Load Management

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 the local power grid is at its peak, or when there is a significant spike in energy prices. In exchange for this commitment to reduce usage, Hess will compensate customers every month. When the customers fulfill the commitment during a demand response event, Hess will compensate customers even more.

For More Information:

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

Sponsor: Hess Energy

Sponsor Type: Other

Energy Management with Energy Profiler Online

Delmarva Power has an Internet-based tool that can help customers make energy management decisions. Energy Profiler Online enables users to analyze usage for multiple sites or facilities, review usage data for energy choice decisions, measure the effectiveness of energy efficiency efforts, and generate management reports.

For More Information:

<http://www.delmarva.com/business/services/commercial/energy/>

Sponsor: Delmarva Power

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 a company's energy efficiency, track changes in the company's energy 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

End Notes

¹ Energy Information Administration, State Energy Profiles: Delaware. http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=DE. Accessed October 12, 2010.

EERE Information Center

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

www.eere.energy.gov/informationcenter

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy