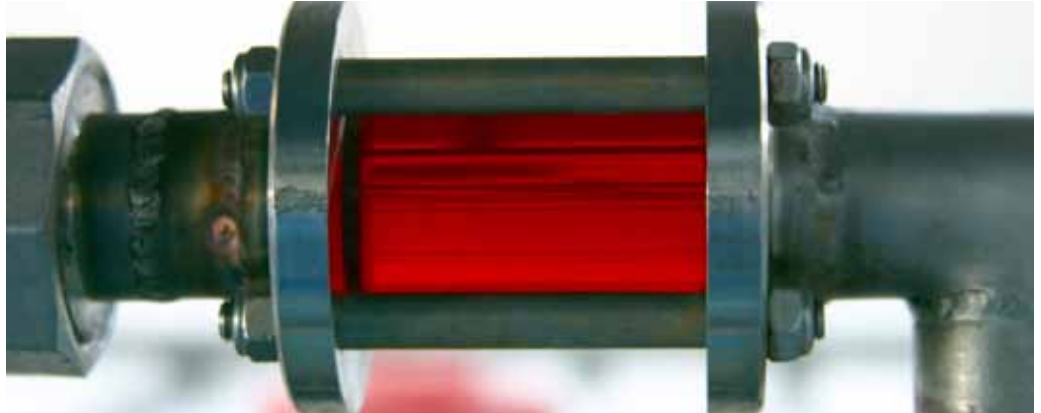


Virginia Industrial Resource Fact Sheet

Introduction

Virginia's economy is ranked 11th in the nation in terms of 2008 GDP, generating \$397.0 billion annually. Industrial manufacturing is an important sector of Virginia's economy providing the state with 76,966 jobs and supplying \$ 37,726.3 million worth of goods in 2006. The manufacturing of transportation equipment, beverages and tobacco products, food, chemicals, and plastics are the largest sectors of industrial activity based on total value of shipments. In 2007, Virginia's industrial sector ranked 18th in the nation in terms of energy expended accounting for 567.4 trillion Btu (or 21.7 percent of statewide energy consumption). The state's industrial natural gas consumption totaled 78.2 trillion Btu which was 25th in the nation in 2007. Moreover, the industrial sector accounted for 19.0 million metric tons of carbon dioxide emissions according to 2005 data.

In 2007, Virginia government published the Virginia Energy Plan in order strategize ways to provide the Commonwealth with reliable energy supplies at reasonable rates and increase the use of conservation and efficiency measures in Virginia. Of note, the plan states that Virginia should help industrial consumers implement waste-to-energy, heat recovery, and combined heat and power projects along with establishing energy assessment centers that would offer energy audits and assessments to small commercial and industrial consumers. Also in 2007, the state approved Chapter 933 of the 2007 Acts of Assembly, which established that it is in the public interest to promote cost-effective conservation of energy through fair and effective demand side management, conservation, energy efficiency, and load management programs, including consumer education. The Commonwealth made a goal of reducing ten percent of their electric energy consumption by 2022 by requiring electric companies to implement energy efficiency programs to their customers.



State Programs

State Government: Virginia Department of Mines, Minerals, and Energy Department offers industrial sector grants to encourage the production of photovoltaic panels in Virginia, along with tax incentives for pollution control equipment, and the installation of alternative energy equipment such as solar, wood or cogeneration.

Utility Resources

Power Administration: Tennessee Valley Authority (TVA) provides support, technology, expertise, and financial resources to existing businesses and industries in the Valley to help them grow and be more efficient and profitable. These resources include technical assistance, low-interest loans, and other tools needed by businesses for successful operation.

Investor-Owned Utilities: Allegheny Power and Dominion Virginia Power, and Washington Gas offer their industrial customers load management programs. Furthermore, Columbia Gas of Virginia offers technical assistance to help industrial customers make wise energy decisions.

Public Power utilities: Charlottesville Gas offers their customers a rebate if they purchase a programmable thermostat while Franklin Municipal Power and Light offers a load management program.

Electric Cooperatives: Northern Neck Electric Cooperative offers a load management program while Northern Virginia Electric Cooperative offers a load management program and a free energy audits to customers to help identify areas that are not consuming energy effectively. Additionally, Southside Electric Cooperative offers technical services such as Heat Loss/Heat Gain Estimates Assessments and Wiring and Electrical Consultative Services.

Regional Resources

Nonprofit Organizations: Southeast Energy Efficiency Alliance (SEEA) mission is to promote and achieve energy efficiency in the Southeast through networking, program activities, and education.

Industrial Assessment Center: While Virginia itself does not possess an Industrial Assessment Center, it shares a close proximity to two others in the region. North Carolina State University and West Virginia University both have Industrial Assessment Centers which provide no-cost energy assessments to manufacturers.

Combined Heat and Power Center: Mid-Atlantic CHP Application Center's objective is to reduce the perceived risk of CHP to users, foster CHP as a viable technical and economic option for the participating region, and to capitalize on existing regional CHP resources. The center provides technical assistance, online tools and information of CHP.

Local Resources

Manufacturing Extension Partnership: Virginia's A.L. Philpott Manufacturing Extension Partnership (VPMEP) offers training and education in the areas of Lean Six Sigma, Lean Enterprise, Innovation & Business Growth, Quality Management Systems, Lean Supply Chain, and Engineering and Technical.

Local Governments: Arlington County provides financial incentives for building LEED certified buildings and offers free energy audits to help identify areas that could be more energy efficient in small businesses. Also, Fluvanna County offers tax exemptions for solar equipment. Additionally, Hanover County offers educational assistance to business owners in order to help them make their facilities more energy efficient.

For More Information

DOE Industrial Technologies Program (<http://www1.eere.energy.gov/industry/index.html>)

ITP Save Energy Now (<http://www1.eere.energy.gov/industry/saveenergynow/>)

ITP State Activities Web site (http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=VA)

ITP State Incentives and Resources Database (http://www1.eere.energy.gov/industry/about/state_activities/incentive_search.asp)

Virginia Department of Mines, Minerals, and Energy Department (<http://www.dmme.virginia.gov>)

Arlington County (<http://www.arlingtonva.us/>)

Fluvanna County (<http://www.co.fluvanna.va.us>)

Hanover County (<http://www.co.hanover.va.us/facilities/hemi.htm>)

Allegheny Power (<http://www.alleghenypower.com>)

Charlottesville Gas (<http://www.charlottesville.org>)

Columbia Gas of Virginia (<http://www.columbiagasva.com>)

Dominion Virginia Power (<http://www.dom.com/dominion-virginia-power/index.jsp>)

Franklin Municipal Power and Light (<http://www.franklinva.com>)

Northern Neck Electric Cooperative (<http://www.nnec.coop>)

Northern Virginia Electric Cooperative (<http://www.novec.com>)

SEEA (<http://www.seealliance.org>)

Southside Electric Cooperative (<http://www.sec.coop/>)

Tennessee Valley Authority (<http://www.tvaed.com/existing.htm>)

Washington Gas (<http://www.washgas.com>)

Contacts

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North Carolina State University
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West Virginia University
Director: Dr. B. Gopalakrishnan
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Email: bgopalak@mail.wvu.edu

Manufacturing Extension Partnership in Virginia
Virginia's A.L. Philpott Manufacturing Extension Partnership
Director: Jeff Kohler
Phone: (276) 666-8890, ext. 224
Fax: (276) 666-8892
Email: jkohler@vpmep.org
Web Site: <http://www.vpmep.org/>
Source: <http://blue.nist.gov/centers/VA>

Combined Heat and Power Regional Application Centers for Region
Mid-Atlantic CHP Application Center
Director: Joe Orlando
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Email: orlandoj@umd.edu
Web Site: <http://www.chpcenterma.org/>
Source: http://www.eere.energy.gov/de/chp/chp_applications/chp_application_centers.html

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EERE Information Center

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www.eere.energy.gov/informationcenter