

Vermont Industrial Resource Fact Sheet

Introduction

Vermont's economy is ranked 51st in the nation in terms of 2008 gross domestic product (GDP), generating \$25.4 billion annually. The industrial manufacturing sector accounts for 34,416 jobs and \$6,912 million worth of goods. Based on total value of shipments, the largest manufacturing sectors in the state are computer and electronic product manufacturing, food processing, machinery manufacturing, and fabricated metal manufacturing. In 2007, Vermont's industrial sector ranked 49th in the nation in terms of energy expended, accounting for 29.4 trillion British thermal units (Btu), or 18.1 percent of statewide energy consumption. The state's industrial natural gas consumption tallied 3.0 trillion Btu, which was 49th in the nation that year. Moreover, the industrial sector accounted for approximately 0.6 million metric tons of carbon dioxide emissions in 2005.

Since 1990, energy demand has increased in each end-use sector by 19 percent or more in Vermont. In response, the state has focused on promoting energy efficiency and renewable energy as the most effective means of keeping energy costs low. Vermont has created programs and enacted legislation in order to encourage energy efficiency. For example, Vermont was the first state to create a statewide energy efficiency utility, called Efficiency Vermont, which is funded through fees collected from electric utility customers' bills. Through Efficiency Vermont, the Vermont Public Service Board (PSB) has established savings targets for specific energy usage in kilowatt hours (kWh) and peak demand in kilowatts (kW). In its draft annual plan for 2009-2011, Efficiency Vermont set goals of saving 360 million total annual kWh, 51.2 total summer peak megawatts (MW), and 54 total winter peak MW. Recently the state passed the Vermont Energy Act of 2009, which directs the Vermont Department of Public Service (DPS) to create



a self-managed energy efficiency pilot program for select transmission and industrial utility customers whose individual contributions to the public benefits fund exceeded \$1.5 million in 2008; the program also will allow owners of small renewable energy facilities to sign long-term contracts for the sale of power produced by their facilities. Currently Vermont's government is working on updating its energy policy plan. Resources offered in the state for improved industrial energy efficiency are listed below.

State Programs

State Government: Efficiency Vermont, the nation's first statewide provider of energy efficiency services, offers an energy audit program, financial incentives for energy efficiency, and a resource library that contains resources to help various sectors improve their energy efficiency. When this state program started, some Vermont electric utilities (with the exception of the Burlington Electric Department) were able to cease providing their own energy efficiency services. In addition, the Vermont Economic Development Authority offers the Vermont Business Energy Conservation Loan Program. Another agency, the Vermont DPS, administers the Vermont Clean Energy Development Fund, which offers financial incentives for renewable energy systems. Finally, the Vermont Department of Taxes offers a corporate income tax credit in an amount equal to 100 percent of the "Vermont-property portion" of the federal business energy tax credit for solar energy systems.

Utility Resources

Investor-Owned Utilities: Vermont Gas offers industrial customers a free walkthrough audit of their facility to identify potentially cost-effective energy efficiency measures, energy efficient equipment rebates, and technical services for new construction projects while Central Vermont Public Service's energy consultants answer energy questions and provide on-site energy audits.

Public Power utilities: The Burlington Electric Department offers rebates, loans, and technical services for compressed air systems, HVAC systems, lighting, motors, refrigeration, and vending machines. In addition, the Swanton Electric Department offers industrial customers a load management program.

Electric Cooperatives: Vermont Electric Cooperative offers a load management program and business support that provide on-site consultation to help reduce energy bills. Additionally, this cooperative provides help in feasibility, financing, sourcing, and long-term planning for cogeneration projects.

Regional Resources

Nonprofit Organizations: Northeast Energy Efficiency Partnerships provide funding opportunities, energy efficiency training, and outreach, as well as promoting energy efficiency initiatives, such as the Commercial Buildings and Technologies Initiative.

Industrial Assessment Center: Vermont does not have an Industrial Assessment Center (IAC) within the state, but it shares a close proximity to the Massachusetts IAC at the University of Massachusetts. Vermont's small- and midsize manufacturers can receive no-cost energy assessments from the University of Massachusetts IAC.

Clean Energy Application Center: Northeast CHP Application Center mission is to provide Combined Heat and Power (CHP) application assistance, technology information, and educational support in the seven Northeast states, including Vermont.

Local Resources

Manufacturing Extension Partnership: The Vermont Manufacturing Extension Center is a nonprofit organization that provides assistance and training on a fee-for-service basis to help Vermont manufacturers increase their productivity and competitiveness while reducing costs.

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- Vermont (http://www1.eere.energy.gov/industry/about/state_activities/map_new.asp?stid=VT)

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

Efficiency Vermont (<http://www.encyvermont.com/pages/>)

Vermont Department of Public Service (<http://publicservice.vermont.gov/>)

Vermont Department of Taxes (<http://www.state.vt.us/tax/index.shtml>)

Vermont Economic Development Authority (<http://www.veda.org/>)

Burlington Electric Department (<https://www.burlingtonelectric.com/page.php?pid=1>)

Central Vermont Public Service (<http://www.cvps.com/>)

Swanton Electric Department (<http://www.swanton.net/pages/utilities.html>)

Vermont Electric Cooperative (<http://www.vermontelectric.coop>)

Vermont Gas (<http://www.vermontgas.com>)

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