

Alaska Industrial Resource Fact Sheet

Introduction

Alaska's economy is ranked 46th in the nation in terms of 2008 GDP, generating \$47.9 billion annually. Industrial manufacturing is an important sector of Alaska's economy providing the state with 7,621 jobs and supplying \$1,925.1 million worth of goods in 2006. Food processing is the main industry in the state. In 2007, Alaska's industrial sector expended 356.3 trillion Btu of energy, ranking 30th in the nation's industrial energy consumption (or 49.2 percent of statewide energy consumption). The state's industrial sector natural gas consumption tallied 289.7 trillion Btu which was the 5th highest in the nation in 2007. Moreover, the industrial sector accounts for approximately 22.3 million metric tons of carbon dioxide emissions annually.

In 2008, Alaska Energy Authority and the Alaska Housing Finance Corporation published the *Alaska Energy Efficiency Program and Policy Recommendations*, which suggested that Alaska should have a policy to reduce energy consumption in buildings 20 percent by 2020 from 2000 levels. In the document, these state agencies acknowledge that Alaska uses significant amounts of energy compared to its total population. They highlight this by saying in 2005 Alaska used 0.8 percent of total U.S. energy consumption with only 0.2 percent of total population. In order to address the state's energy problem, they stress the importance of energy efficiency. Alaska has created opportunities for their industrial sector to improve upon its energy efficiency and decrease its carbon emissions. There are multiple resources available throughout the state that plant managers can consult for energy efficiency/renewable energy information or assistance in financing energy efficiency improvements/renewable energy projects at their facility.



State Programs

State Government: The State of Alaska promotes energy efficiency programs primarily through the Alaska Energy Authority (AEA). AEA offers low-interest loans, grants and training programs to manufacturers in the state. The emphasis of these programs is on developing more renewable energy generation systems within the state.

Utility Resources

Electric Cooperatives: The Golden Valley Electric Association (GVEA) and Homer Electric Association (HEA) are two electric cooperatives which offer a variety of resources and tools which can assist industrial manufacturers in becoming more energy efficient. GVEA, for example, offers rebates to customers that purchase energy efficient products through its BusinessSense program while HEA provides online tools which assist customers in analyzing their energy usage. Both of these utilities also promote renewable energy through the Sustainable Natural Alternative Power (SNAP) program which provides financial incentives to customers that generate renewable energy at their facilities.

Regional Resources

Clean Energy Application Center: Southeast CHP Application Center's mission is to provide application assistance, technology information, and the educational support necessary to promote Combined Heat and Power (CHP).

Industrial Assessment Center: Though Alaska does not have an Industrial Assessment Center within the state, Alaskan manufacturers can contact Oregon State University IAC, which provides no-cost energy assessments.

Local Resources

Non-profit Organizations: Green Star is a non-profit organization that provides financing and energy assessments to local businesses who are dedicated to improving the energy efficiency of their operations. In addition, the Alaska Building Science Network offers training services aimed at teaching industrial operators to be more energy efficient and the Alaska Industrial Development and Export Authority offers financial assistance to Alaskans who wish to develop and operate a variety of public use facilities. Furthermore, Southwest Alaska Municipal Conference helps promote economic opportunities to improve quality of life and

influences long-term responsible development for Southwest Alaska people, businesses, and communities. This organization provides funding opportunities and gets involved with projects designed to accomplish its mission and provide service to its members and other constituents. Additionally, the Alaska Center for Energy and Power (ACEP) seeks to meet state, industry, and federal demand for applied energy research in order to lower the cost of energy throughout Alaska and develop economic opportunities for the State, its residents, and its industries.

Manufacturing Extension Partnership (MEP): Alaska Manufacturing Extension Partnership is committed to developing the state's economy through the provision of technical, business and economic training and assistance to Alaska's small manufacturers.

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 - Alaska (http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=AK)

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

Energy Efficient Upgrades (<http://www.business.gov/expand/green-business/energy-efficiency/upgrades/office-equipment.html>)

Alaska Energy Authority (<http://www.akenergyauthority.org/>)

Alaska Center for Energy and Power (<http://www.uaf.edu/acep/>)

Golden Valley Electric Association (<http://www.gvea.com/>)

Homer Electric Association (<http://www.homerelectric.com>)

Green Star (<http://greenstarinc.org>)

Alaska Building Science Network (<http://www.absn.com/education.cfm>)

Alaska Industrial Development and Export Authority (<http://www.aidea.org>)

Southwest Alaska Municipal Conference (<http://www.swamc.org>)

Contacts

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Manufacturing Extension Partnership in Alaska

Alaska Manufacturing Extension Partnership

Director: Chris Buchholdt

Phone: (907) 279-2637

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Email: chris@ak-mep.org

Web Site: <http://www.ak-mep.org>

Source: <http://blue.nist.gov/centers/AK>

Clean Energy Application Center for Region

Northwest CHP Applications Center

Director: David Sjoding

Phone: (360) 956-2004

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Web Site: <http://www.chpcenternw.org/>

Source: http://www.eere.energy.gov/de/chp/chp_applications/chp_application_centers.html

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Source: <http://www.eere.energy.gov/industry/about/contacts.html>

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EERE Information Center

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Energy Efficiency &
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