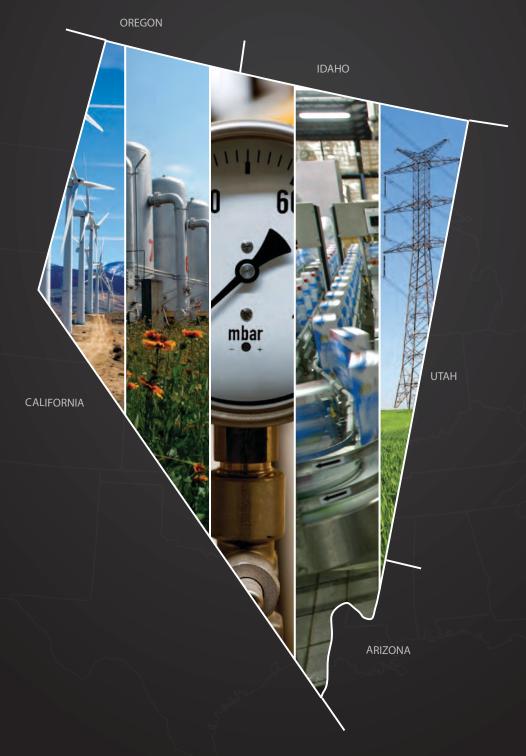
Electronic Handbook of Industrial Resources

NEVADA



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Introduction

This handbook provides a comprehensive listing of incentives, tools, and resources for industrial manufacturing energy efficiency in the state of Nevada. The document 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. The handbook is based on data available in the *States Incentives and Resources Database*, which is maintained by the U.S. Department of Energy (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

Nevada is the seventh largest state in the U.S. in terms of geographic area and is also one of the most arid of all the states. It has a total of 2.6 million residents and ranks 31st in the nation in terms of GDP, which is \$131.2 billion. The state is home to three Fortune 500 companies.¹

The state has few fossil fuel resources but is rich in renewable energy potential. In 2008, Nevada ranked 38th in the nation's industrial energy consumption at 198.6 trillion Btu and 46th in the nation's industrial natural gas consumption at 13.3 trillion Btu. Nevada's leading industries include nonmetallic mineral product manufacturing, food manufacturing, and fabricated metal product manufacturing. ²

Exhibit 1 below compares the industrial energy consumption in Nevada 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 Nevada

Year	Nevada Energy Consumption (Trillion Btu)	National Average (Trillion Btu)
2000	168.6	680.2
2001	169.1	642.8
2002	165.3	642.0
2003	169.9	639.6
2004	186.2	658.7
2005	197.0	696.7
2006	204.5	636.6
2007	201.3	637.0
2008	198.6	614.8

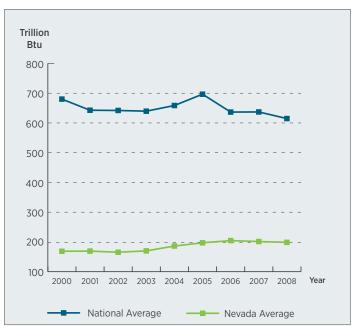
Source: http://www.eia.doe.gov/emeu/states/sep_use/ind/use_ind_al.html

Nevada at a Glance

State Information	
2009 Population (Million)	2.6
2008 GDP (Billion)	131.2
Rank by GDP	31
Energy Statistics	
Total Energy Consumption 2008 (Trillion Btu)	750.1
Total Industrial Energy Consumption 2008 (Trillion Btu)	198.6
Total Industrial Energy Consumption Rank	38
Total Industrial Electricity Use 2008 (Trillion Btu)	47.2
Total Industrial Electricity Use Rank	28
Total Industrial Natural Gas Use 2008 (Trillion Btu)	13.3
Total Industrial Natural Gas Use Rank	46

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

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, nonprofits or nongovernmental 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.

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

Building Systems

Arizona Commercial High-Efficiency Equipment Rebate Program

Southwest Gas commercial customers in Arizona may be eligible to receive rebates on the purchase and installation of new high-efficiency natural gas storage and tankless water heaters, griddles, steamers, fryers, and combination ovens.

For More Information:

http://www.swgas.com/efficiency/az/commercial_equipment.php

Sponsor: Southwest Gas Corp. Arizona

Div.

Sponsor Type: Utility

Arizona Large Commercial Energy-Efficient Boiler Program

Rebates are available for the maintenance service and equipment for existing boilers and for the purchase and installation of new, noncondensing boilers completed August 15, 2010, through November 30, 2011, or until program funds are no longer available, whichever comes first.

For More Information:

http://www.swgas.com/efficiency/az/boiler.php

Sponsor: Southwest Gas Corp. Arizona

Div.

Sponsor Type: Utility

Cool Share Small Business Program

The utility is offering a rebate for small businesses that purchase an energy efficient air conditioner.

For More Information:

http://www.coolshareprogram.com/

Sponsor: NV Energy Sponsor Type: Utility

Energy Efficiency Training for Business

The Nevada Focus Energy-Efficiency Training and Certification Program is a workshop series for building engineers, facility operators, their crews, and other interested parties. Participants will learn and/or refresh their knowledge on how to improve energy and water efficiency and indoor air quality to make facilities more environmentally friendly.

For More Information:

http://www.nvenergy.com/saveenergy/business/training.cfm

Sponsor: NV Energy **Sponsor Type:** Utility

Product or System Using Renewable Energy to Generate Electricity

In 2005, Section 7 of A.B. 3 amended NRS 374.307 to partially exempt materials used in the construction of a building that will be classified at least at the silver level in accordance with the Leadership in Energy and Environmental Design Green Building Rating System.

For More Information:

http://tax.state.nv.us/documents/ AB 3.pdf

Sponsor: Nevada Department of

Taxation

Sponsor Type: State

SureBet Program

Non-residential customers are eligible for the benefits of Sure Bet Program benefits. Incentives are offered for most types of electric energy savings projects for most non-residential customers located in NV Energy's service territory. Technical assistance is available to NV Energy customers to assist in determining conservation opportunities for customers committed to installing energy efficient equipment.

For More Information:

http://www.nvenergy.com/saveenergy/business/incentives/surebet/commercial.cfm

Sponsor: NV Energy **Sponsor Type:** Utility

Energy Sources

Combined Heat and Power Program

Funding for combined heat and power (CHP) systems is available according to the efficiency of the installed system. CHP technologies must achieve a total fuel efficiency of 60-70% or higher. This efficiency must be demonstrated during standard operations that will vary according to the type of facility the CHP is utilized in. Rebate levels range from \$400 to \$500 per kW up to a maximum of 50% of the installed cost of any project.

For More Information:

http://www.swgas.com/efficiency/az/combined.php

Sponsor: Southwest Gas Corp. Arizona

Div.

Sponsor Type: Utility

Cool Share Small Business Program

The utility is offering a rebate for small businesses that purchase an energy efficient air conditioner.

For More Information:

http://www.coolshareprogram.com/

Sponsor: NV Energy Sponsor Type: Utility

Net Metering Program

Net metering is now available to Valley Electric Association members who own and operate a facility that generates electricity from renewable sources, such as hydro, wind, or solar. The program provides for customergenerators to be credited at the applicable rate, including the power cost adjustment in kilowatt-hours (kWh), at the ratio of 1:1 for any excess production of the generating facility that exceeds the customer-generator's on-site consumption of kWh in the billing period of excess production.

For More Information:

http://www.vea.coop/renewable/netmetering.php

Sponsor: Valley Electric Association

Sponsor Type: Utility

Product or System Using Renewable Energy to Generate Electricity

In 2005, Section 7 of A.B. 3 amended NRS 374.307 to partially exempt materials used in the construction of a building that will be classified at least at the silver level in accordance with the LEED Green Building Rating System.

For More Information:

http://tax.state.nv.us/documents/ AB 3.pdf

Sponsor: Nevada Department of

Taxation

Sponsor Type: State

SolarGenerations

SolarGenerations offers a number of site-specific incentives for the installation of solar photovoltaic systems at businesses, homes, schools, and other public facilities. Contact the company directly for individually tailored incentives.

For More Information:

http://www.nvenergy.com/ renewablesenvironment/ renewablegenerations/solargen/index. cfm

Sponsor: NV Energy **Sponsor Type:** Utility

Wind Generation Incentive

The utility is offering a rebate on customer-installed wind generation systems.

For More Information:

http://www.nvenergy.com/ renewablesenvironment/ renewablegenerations/windgen/index. cfm

Sponsor: NV Energy **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.1b1af2559c566632782c 7883da6176a0

Sponsor: Constellation NewEnergy

Sponsor Type: Utility

HVAC

Cool Share Small Business Program

The utility is offering a rebate for small businesses that purchase an energy efficient air conditioner.

For More Information:

http://www.coolshareprogram.com/

Sponsor: NV Energy **Sponsor Type:** Utility

Industrial Systems / Process Specific

Business Energy Efficiency Library

This online resource is a guide for how to make Utah businesses energy efficient. This resource also provides an overview of energy efficiency, common energy-inefficient equipment, and where to find financial assistance programs.

For More Information:

http://www.utahefficiencyguide.com/home.htm

Sponsor: Southwest Energy Efficiency

Project

Sponsor Type: Other

Combined Heat and Power Program

Funding for CHP systems is available according to the efficiency of the installed system. CHP technologies must achieve a total fuel efficiency of 60-70% or higher. This efficiency must be demonstrated during standard operations that will vary according to the type of facility the CHP is utilized in. Rebate levels range from \$400 to \$500 per kW, up to a maximum of 50% of the installed cost of any project.

For More Information:

http://www.swgas.com/efficiency/az/combined.php

Sponsor: Southwest Gas Corp. Arizona

DIV.

Sponsor Type: Utility

Cool Share Small Business Program

The utility is offering a rebate for small businesses that purchase an energy efficient air conditioner.

For More Information:

http://www.coolshareprogram.com/

Sponsor: NV Energy **Sponsor Type:** Utility

Industrial Energy Assessments

The utility will perform an energy audit of its industrial customers' facilities. This includes examining the entire facility to make sure that systems are working properly. The utility will also work with the plant to analyze previous utility bills and to come up with energy efficiency improvements.

For More Information:

http://www.swgas.com/commind/indust/index.php

Sponsor: Southwest Gas Corp., Nevada

Div.

Sponsor Type: Utility

SureBet Program

Non-residential customers are eligible for the benefits of Sure Bet Program benefits. Incentives are offered for most types of electric energy savings projects for most non-residential customers located in NV Energy's service territory. Technical assistance is available to NV Energy customers to assist in determining conservation opportunities for customers committed to installing energy efficient equipment.

For More Information:

http://www.nvenergy.com/saveenergy/ business/incentives/surebet/ commercial.cfm

Sponsor: NV Energy **Sponsor Type:** Utility

Time of Use Business Rebates

The Time of Use Business Rebate program rewards non-residential customers for reducing energy use during high-energy demand periods.

For More Information:

http://www.nvenergy.com/business/paymentbilling/timeofuse.cfm

Sponsor: NV Energy **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

Lighting

SolarGenerations

SolarGenerations offers a number of site-specific incentives for the installation of solar photovoltaic systems at businesses, homes, schools, and other public facilities. Contact the company directly for individually tailored incentives.

For More Information:

http://www.nvenergy.com/ renewablesenvironment/ renewablegenerations/solargen/index. cfm

Sponsor: NV Energy **Sponsor Type:** Utility

Load Management

Industrial Assessment Center (IAC): Oregon State University

Small and medium-sized manufacturers who meet Oregon State University requirements are eligible to receive a free energy assessment within about 150 miles of its campus.

For More Information:

http://eec.engr.oregonstate.edu/industrial.htm

Sponsor: U.S. Department of Energy

Sponsor Type: Federal

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indust/index.php

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For More Information:

http://www.nvenergy.com/business/paymentbilling/timeofuse.cfm

Sponsor: NV Energy **Sponsor Type:** Utility

U.S. Department of Energy Industrial Assessment Center (IAC): Colorado State University

The Colorado State University IAC provides free plant assessments and recommendations within about 150 miles of its campus for improved energy efficient operations. These services are offered to the following states: Colorado, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Utah, and Wyoming.

For More Information:

http://www.engr.colostate.edu/IAC/

Sponsor: U.S. Department of Energy **Sponsor Type:** Federal

U.S. Department of Energy Industrial Assessment Center (IAC): San Francisco State University

The San Francisco State University IAC provides plant assessments at no cost to eligible small- and mid-sized manufacturers within about 150 miles of its campus.

For More Information:

http://www.sfsu.edu/~iac/index.html

Sponsor: U.S. Department of Energy **Sponsor Type:** Federal

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.987b194dd5e782ce18a8 05e4da6176a0

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.1b1af2559c566632782c 7883da6176a0

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.c2d5c4a31e3b3661571c 5010747176a0?title=Ir

Sponsor: Constellation NewEnergy

Sponsor Type: Utility

Industrial Systems General

Business Energy Audit

The utility offers a software tool that allows businesses to compare energy usage with other businesses or measure energy usage over time.

For More Information:

http://www.nvenergy.com/saveenergy/business/energyaudit.cfm

Sponsor: NV Energy **Sponsor Type:** Utility

Commercial Equipment Rebate

Southwest Gas commercial customers in Nevada using storage water heating, griddles, steamers, fryers, or combination ovens may be eligible for up to two rebates each on the purchase of high-efficiency new natural gas models of these appliances for existing facilities.

For More Information:

http://www.swgas.com/efficiency/nv/commercial_equipment.php

Sponsor: Southwest Gas Corp., Nevada

Div.

Sponsor Type: Utility

Industrial Assessment Center (IAC): Oregon State University

Small and medium-sized manufacturers who meet Oregon State University requirements are eligible to receive a free energy assessment within about 150 miles of its campus.

For More Information:

http://eec.engr.oregonstate.edu/ industrial.htm

Sponsor: U.S. Department of Energy

Sponsor Type: Federal

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For More Information:

http://www.swgas.com/commind/indust/index.php

Sponsor: Southwest Gas Corp.

Arizona Div.

Sponsor Type: Utility

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For More Information:

http://www.engr.colostate.edu/IAC/

Sponsor: U.S. Department of Energy

Sponsor Type: Federal

U.S. Department of Energy Industrial Assessment Center (IAC): San Francisco State University

The San Francisco State University IAC provides plant assessments at no cost to eligible small- and mid-sized manufacturers within about 150 miles of its campus.

For More Information:

http://www.sfsu.edu/~iac/index.html

Sponsor: U.S. Department of Energy

Sponsor Type: Federal

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For More Information:

http://www.newenergy.com/portal/site/menuitem.987b194dd5e782ce18a8 05e4da6176a0

Sponsor: Constellation NewEnergy

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

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.1b1af2559c566632782c 7883da6176a0

Sponsor: Constellation NewEnergy

Sponsor Type: Utility

End Notes

- ¹ "Save Energy Now State Partnerships: ITP Activities in Nevada." The Office of Energy Efficiency and Renewable Energy (EERE). http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=NV.
- ² U.S. Energy Information Administration, "State/Territory Energy Profiles," Accessed October 20, 2010. http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=NV

EERE Information Center

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

www.eere.energy.gov/informationcenter

