

Texas Industrial Resource Fact Sheet

Introduction

Texas' economy is ranked 2nd in the nation in terms of 2008 gross domestic product (GDP), generating \$1,223.5 billion annually. The industrial manufacturing sector accounts for 808,120 jobs and \$322,966 million in shipments. Texas' leading industries include petroleum and coal product manufacturing, chemical manufacturing, and computer and electronic product manufacturing based on total value of shipments. In 2007, Texas' industrial sector was the highest in the nation in terms of energy expended, accounting for 5,950.9 trillion British thermal units (Btu), or 50.3 percent of statewide energy consumption. The state's industrial natural gas consumption tallied 1,666.9 trillion Btu, which was also highest in the nation that year. The industrial sector's energy consumption is greater than both the residential and commercial sectors combined. Due to its large population and energy-intensive industries, Texas leads the nation in energy consumption, accounting for more than one-tenth of total U.S. energy use and 18.3 percent of national industrial energy consumption. Moreover, the industrial sector accounted for approximately 179.4 million metric tons of carbon dioxide emissions in 2005.

Realizing the importance of addressing the state's energy-intensive economy, the Public Utility Commission of Texas (PUCT) has worked to increase demand-side programs. In 1999, Texas became the first state to establish Energy Efficiency Resource Standards (EERS), requiring the deregulated electric utilities to offset 10 percent of load growth through end-use energy efficiency. PUCT adopted the Energy Efficiency Rule (PUCT Subst. R. §25.181) in 2000, establishing procedures for meeting the EERS legislative mandate. The ruling requires electric utilities to administer energy efficiency programs for both residential and non-residential customers in order to achieve energy



reductions. The rule also created a Renewable Portfolio Standard (RPS), which mandated that electricity retailers include in their portfolio 5,880 megawatts (MW) of additional renewable energy by 2015 and 10,000 MW by 2025. Another energy efficiency measure Texas is trying to promote is combined heat and power (CHP), since CHP accounts for more than 17,333 MW of generating capacity within the state. In 2008, Texas was considering policy options that would target barriers to adaption such as establishing a statewide CHP Resource Portfolio Standard.

State Programs

State Government: The Texas State Energy Conservation Office (SECO) provides the industrial sector with resources regarding funding opportunities, energy tax exemptions for the installation of solar or wind power devices, and other energy efficiency related information. SECO also provides renewable training and education programs, such as the Innovative Energy Demonstration Program, which provides technical training and educational information on Texas renewable energy resources, as well as the Texas Industries of the Future Program, which provides outreach, technical assistance, tools and training for industrial energy consumers.

Utility Resources

Investor-Owned Utilities: Texas law requires investor-owned utilities (IOUs) to give customers the opportunity to implement energy efficiency measures in homes and/or businesses in order to lower utility bills. American Electric Power, for example, offers the industrial sector financial incentives for installing energy efficient measures and a load management program that pays incentives for load interruptions of electric consumption on short notice during peak demand periods. TXU Electric offers online assessment tools, energy audits, and energy efficiency rebates for equipment including lighting, HVAC, and programmable thermostats. In addition, CenterPoint Energy, Entergy Texas, the Texas-New Mexico Power Company, Texas Gas Service, and El Paso Electric offer energy-efficient equipment rebates. Additionally, Oncor offers energy-efficient equipment and renewable energy rebates, energy assessment programs, and a load management program. Moreover, Xcel Energy offers online energy management tools, reports, and energy efficiency financial incentives.

Public Power utilities: CPS Energy and Garland Power & Light offer energy efficiency rebates and online energy assessment and analysis tools for industrial customers. In addition, Austin

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Energy offers load management programs, online audit and assessment tools, and energy efficiency rebates. College Station Electric Services Department, New Braunfels Utilities, and the Brownville Public Utilities Board offer energy audit programs. Denton Municipal Electric offers energy-efficient equipment rebates, while Bryan Texas Utilities offers energy-efficient equipment loans and rebates, as well as rebates for installing renewable technology. Finally, the Lower Colorado River Authority, a Texas conservation and reclamation district program, offers energy consultation services.

Electric Cooperatives: Fannin County Electric Cooperative offers an electric water heater rebate, while Greenville GEUS and Pedernales Electric Cooperative offer several energy efficiency rebates. Guadalupe Valley Electric Cooperative offers loans and an online assessment tool, while Navasota Valley Electric Cooperative provides industry customers with energy audits. Additionally, Tri-County Electric Cooperative offers energy rebates and an online energy assessment tool.

Local Resources

Nonprofit Organizations: The Texas Renewable Energy Industries Association, a statewide nonprofit organization of companies and individuals involved in renewable energy, provides products, services, and information on renewable energy.

Industrial Assessment Centers: The University of Texas at Arlington and the Texas A&M University both have Industrial Assessment Centers (IACs) that are sponsored by the U.S. Department of Energy (DOE). IACs help industrial manufacturers improve their cost and energy savings through no-cost energy assessments, as well as identifying methods to reduce energy consumption.

Manufacturing Extension Partnership: The Texas Manufacturing Assistance Center works with industry to improve productivity, quality, and profitability. This Manufacturing Extension Partnership (MEP) offers a wide array of services that improve efficiency, quality, and productivity. Focus areas include Lean Enterprise, technology solutions, strategic management, quality systems, environment, and safety.

Clean Energy Application Center: The Texas Combined Heat and Power Initiative (TXCHPI) leads the state in encouraging the implementation of Combined Heat and Power (CHP) technologies and drives CHP roadmap actions items in support of DOE and U.S. Environmental Protection Agency (EPA) goals of doubling CHP use by 2010.

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 – South Dakota (http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=SD)

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

South Dakota Public Utilities Commission (<http://www.puc.sd.gov/>)

South Dakota Energy Smart program (<http://www.sdenergysmart.com/AboutUs.aspx>)

South Dakota Department of Revenue and Regulation (<http://www.state.sd.us/drr2/>)

Basin Electric Power Cooperative * (<http://www.basinelectric.com/index.html>)

Black Hills Electric Cooperative * (<http://www.bhec.coop>)

Black Hills Power (<http://www.blackhillspower.com>)

Bon Homme Yankton Electric * (<http://www.byelectric.com>)

Butte Electric Cooperative * (<http://www.butteelectric.com>)

Cam Wall Electric Cooperative * (<http://www.cam-walnet.com>)

Central Electric Cooperative * (<http://www.centralec.coop>)

Charles Mix Electric Association * (<http://www.charles-mix.com/index.html>)

Clay-Union Electric Corporation * (<http://www.clayunionelectric.coop/index.htm>)

Codington-Clark Electric Cooperative * (<http://www.codingtonclarkelectric.coop>)

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Dakota Energy Cooperative * (<http://www.dakotaenergy.coop/>)
FEM Electric Association * (<http://www.femelectric.coop>)
Grand Electric Cooperative * (<http://www.grandelectric.coop/default.htm>)
Groton Electric (http://www.grotonsd.com/city/electric_dept.htm)
H-D Electric Cooperative * (<http://www.h-delectric.coop>)
Heartland Consumers Power District (<http://www.hcpd.com>)
Kingsbury Electric Cooperative * (<http://www.kingsburyelectric.coop>)
Lake Region Electric * (<http://www.lakeregion.coop>)
Madison Electric Department (<http://www.cityofmadison.com>)
MidAmerican Energy (<http://www.midamericanenergy.com/default.asp>)
Midwest Energy Efficiency Alliance (<http://www.mwalliance.org/>)
Montana-Dakota Utilities (<http://www.montana-dakota.com>)
Moreau-Grand Electric * (<http://www.mge.coop/>)
Northern Electric Cooperative * (<http://www.northernelectric.coop>)
NorthWestern Energy (<http://www.northwesternenergy.com>)
Oahe Electric * (<http://www.oaheelectric.com>)
Otter Tail Power Company (<http://www.otpc.com>)
Sioux Valley Energy * (<http://www.svswe.com/index.php>)
Southeastern Electric * (<http://www.southeasternelectric.com>)
Texas Industries of the Future (<http://TexasIOF.ces.utexas.edu/>)
Union County Electric Cooperative *
West Central Electric Cooperative * (<http://www.wcenet.com>)
West River Electric Association * (<http://www.westriver.com>)
Whetstone Valley Electric Cooperative * (<http://www.whetstone.coop>)

Contacts

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Manufacturing Extension Partnership in Texas

Texas Manufacturing Assistance Center
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Web site: <http://www.tmac.org/>
Source: <http://blue.nist.gov/centers/TX>

Clean Energy Application Center for Region

Gulf Coast Regional CHP Applications Center
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Phone: (281) 364-6087
E-mail: dbullock@harc.edu
Web site: <http://www.gulfcoastchp.org/>
Source: http://www.eere.energy.gov/de/chp/chp_applications/chp_application_centers.html

Texas CHP Initiative

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

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Industries of the Future Contact

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www.eere.energy.gov/informationcenter