

Tennessee Industrial Resource Fact Sheet

Introduction

Tennessee's economy is ranked 19th in the nation in terms of 2008 GDP, generating \$14,165.6 billion annually. Industrial manufacturing is a vital sector of Tennessee's economy providing the state with 108,944 jobs and supplying 60,234.0 million worth of goods. The largest manufacturing sectors in the state are transportation equipment, computer and electronic product, food, chemical, and machinery manufacturing based on total value of shipments. In 2007, Tennessee's industrial sector ranked 12th in the nation in terms of energy expended accounting for 740.1 trillion Btu, or 31.8 percent of all energy consumed in the state. The state's industrial natural gas consumption totaled 95.7 trillion Btu which was the 21st in the nation for that year. Moreover, the industrial sector accounted for 17.1 million metric tons of carbon dioxide emissions according to 2005 data.

In March 2008, Governor Phil Bredesen established an energy taskforce. Under Executive Order 54, the taskforce was given the authority to make Tennessee an energy leader. This included finding ways to improve energy efficiency statewide while increasing conservation measures by creating legislation that made both options more appealing to business owners in the state. Tennessee is also one of the seven states covered by the Tennessee Valley Authority (TVA). TVA has adopted an objective of reducing energy consumption in this region 25 percent between 2008 and 2012, with 4.0 percent of this decrease occurring in Tennessee. As a result, there are many different opportunities for improved industrial energy efficiency from a variety of stakeholders.



State Programs

State Government: Two state agencies offer energy incentives for industrial manufacturers in Tennessee. First, the Tennessee Department of Economic and Community Development Office of Energy Policy offers financial incentives for projects designed to increase energy efficiency. The other agency, the Tennessee Comptroller of the Treasury, offers a property tax exemption for any property that has an operational wind power generation system.

Utility Resources

Power Administration: Tennessee Valley Authority (TVA), through its many affiliates, reward customers that install renewable energy systems by purchasing the power generated from those installations at a premium rate.

Public Power Utilities: Several municipal-owned utilities in Tennessee offer programs for industrial manufacturers to improve their energy efficiency, most notably through energy assessments, load management, low-interest loans, and rebates for the purchase and installation of energy-efficient equipment. The chart below summarizes the various incentive programs offered by these utilities.

NAME OF COOPERATIVE	ENERGY AUDITS	LOAD MANAGEMENT	LOANS	REBATES
Alcoa Electric Department				X
Athens Utilities Board	X			
Bolivar Energy Authority			X	
Chattanooga Electric Board	X			
Clarksville Department of Electricity		X		
Columbia Power and Water Systems				X
Cookeville Electric Department			X	

INDUSTRIAL TECHNOLOGIES PROGRAM

Electric Cooperatives: Electric cooperatives also offer energy efficiency incentives to their industrial members. For example, Appalachian Electric Cooperative, Pickwick Electric Cooperative, and Tennessee Valley Electric Cooperative offer energy assessments to help their members use energy more effectively while Gibson Electric Membership Corporation offers a load management program. Some cooperatives offer financial incentives as well. Caney Fork Electric Cooperative, Gibson Electric Membership Corporation, Meriwether Lewis Electric Cooperative, Pickwick Electric Cooperative, Southwest Tennessee Electric Membership Corporation, and Tri-County Electric Services offer loans for the purchase of energy-efficient heat pumps or water heaters. Finally, rebates for the purchase and installation of energy-efficient water heaters and/or heat pumps are available at Meriwether Lewis Electric Cooperative, Plateau Electric, Sequachee Valley Electric Cooperative, Tri-County Electric Services, Upper Cumberland Electric Membership Corporation, and Volunteer Energy Cooperative.

NAME OF COOPERATIVE	ENERGY AUDITS	LOAD MANAGEMENT	LOANS	REBATES
Johnson City Power Board	X		X	
Knoxville Utilities Board	X			
Lawrenceburg Utility Systems	X			
Morristown Utility Systems				X
Nashville Electric Service	X			
Sevier County Electric			X	
Trenton Light and Power				

NAME OF COOPERATIVE	ENERGY AUDITS	LOAD MANAGEMENT	LOANS	REBATES
Appalachian Electric Cooperative	X			
Caney Fork Electric Cooperative			X	
Gibson Electric Membership Corporation		X	X	
Meriwether Lewis Electric Cooperative			X	X
Pickwick Electric Cooperative	X		X	
Plateau Electric				X
Sequachee Valley Electric Cooperative				X
Southwest Tennessee Electric Membership Corporation			X	
Tri-County Electric Services			X	X
Upper Cumberland Electric Membership Corporation				X
Volunteer Energy Cooperative				X

Regional Resources

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

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

Local Resources

Industrial Assessment Center: Tennessee Technological University, with sponsorship from the Department of Energy, hosts an Industrial Assessment Center which provides small- to medium-sized manufacturers with no-cost energy assessments.

Manufacturing Extension Partnership (MEP): Tennessee Manufacturing Extension Partnership works directly with its local area manufacturers to provide expertise and services tailored to their most critical needs, ranging from process improvements and worker training to business practices and applications of information technology.

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 Carolina (http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=SC)

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

Tennessee Department of Economic and Community Development – Office of Energy Policy (http://tennessee.gov/ecd/CD_office_energy_policy.html)

Tennessee Comptroller of the Treasury (<http://www.tn.gov/comptroller/>)

Alcoa Electric Department (<http://www.cityofalcoa-tn.gov>)

Appalachian Electric Cooperative (<http://www.appalachianelectric.coop>)

Athens Utilities Board (<http://www.aub.org>)

Bolivar Energy Authority (<http://www.bolivarelectric.com>)

Caney Fork Electric Cooperative (<http://www.caneyforkec.com>)

Chattanooga Electric Power Board (<http://www.epb.net/>)

Clarksville Department of Electricity (<http://www.clarksvilledc.com>)

Columbia Power and Water Systems (<http://www.cpws.com>)

Cookeville Electric Department (<http://www.cookeville-tn.org/electric>)

Gibson Electric Membership Corporation (<http://www.gibsonemc.com>)

Johnson City Power Board (<http://www.jcpb.com>)

Knoxville Utilities Board (<http://www.kub.org>)

Lawrenceburg Utility Systems (<http://www.lburgus.com>)

Meriwether Lewis Electric Cooperative (<http://www.mlec.com>)

Morristown Utility Systems (<http://www.morristownutilities.org>)

Nashville Electric Service (<http://www.nespower.com>)

Pickwick Electric Cooperative (<http://www.pickwick-electric.com/services.htm>)

Plateau Electric (<http://www.plateauelectric.com>)

Sequachee Valley Electric Cooperative (<http://www.svallevec.com>)

Sevier County Electric (<http://www.electric.seviervilletn.org>)

Southwest Tennessee Electric Membership (<http://www.stemc.com>)

Tennessee Valley Authority (<http://www.tva.gov>)

Tennessee Valley Electric Cooperative (<http://www.tennesseevalleyec.com>)

Trenton Light and Water (<http://www.trentonlw.com>)

Tri-County Electric Services (<http://www.tcemc.org>)

Upper Cumberland Electric Membership Corporation (<http://www.ucemc.com>)

Volunteer Energy Cooperative (<http://www.vec.org>)

Contacts

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Tennessee Manufacturing Extension Partnership
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Source: <http://blue.nist.gov/centers/TN>

Clean Energy Application Center for Region
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Source: http://www.eere.energy.gov/de/chp/chp_applications/chp_application_centers.html

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