

## Alabama Industrial Resource Fact Sheet

### Introduction

Alabama's economy is ranked 25th in the nation in terms of 2008 gross domestic product (GDP), generating \$170 billion annually. Industrial manufacturing is an important sector of Alabama's economy, providing the state with 58,918 jobs and supplying \$43,562 million worth of goods in 2006. The manufacturing of transportation equipment, chemicals, primary metals, and food processing are the largest sectors of industrial activity based on total value of shipments. In 2007, Alabama's industrial sector ranked eighth in the nation in terms of energy expended, accounting for 941.6 trillion British thermal units (Btu) or 44.1 percent of statewide energy consumption. Additionally, the state's industrial natural gas consumption totaled 173.6 trillion Btu, which was 12th in the nation. Moreover, the industrial sector accounted for 21.3 million metric tons of carbon dioxide emissions, according to 2005 data.

Alabama published the Policy Planning to Reduce Greenhouse Gas Emissions in Alabama, outlining the state's greenhouse gas reduction strategy. Within the document, the state government recognizes the manufacturing sector as an important aspect of their economy, and that it consumes a great deal of energy. The publication makes the majority of recommendations voluntary rather than mandated programs in order to try and address greenhouse gas emissions without harming the industrial sector. One recommendation that aimed to address the state's high energy consumption was to strengthen and encourage energy-efficiency programs, such as offering energy audits for all sectors and improving energy efficiency through cogeneration in the industrial sector. Available energy-efficient and renewable-energy resources within the state are listed below.



### State Programs

*State Government:* The State of Alabama, through the Department of Economic and Community Affairs, offers incentive payments for industrial operations to install biomass generation. The State Energy Office, in partnership with the U. S. Department of Energy, offers the Alabama Industrial Energy Efficiency Program, which promotes energy-efficiency opportunities to small- and medium-sized manufacturers to improve their profitability by reducing their energy costs.

### Utility Resources

*Investor-Owned Utilities:* Alabama Power, a subsidiary of the Southern Company, provides a bevy of energy analysis and assessment tools for industrial customers. These energy analysis programs and investment tools are also available to customers of Southeast Alabama Gas District.

*Public Power Utilities:* Several of Alabama's public power utilities extend incentives to their industrial customers. For example, Fort Payne Improvement Authority, Scottsboro Electric Power Board, and Florence Utilities Electricity Department offer rebate and loan programs for high-efficiency water heaters and heat pumps, respectively. Muscle Shoals Power Board and Albertville Municipal Utilities Board also offer rebates on energy-saving water heaters. Additionally, loans for energy-saving heat pumps are available for commercial and industrial customers of Sheffield Utilities.

Several municipal natural gas utilities have also instituted programs to motivate industrial clients to reduce their energy consumption. For example, Clarke-Mobile Counties Gas District offers rebates on natural-gas-saving water heaters and Hartselle Utilities provides commercial and industrial customers with incentive payments on various energy-saving devices.

*Electric Cooperatives:* There are multiple electric cooperatives in Alabama that offer customers incentives for energy-saving measures. For example, Joe Wheeler Electric Membership Corporation offers a number of energy-efficiency programs to their industrial customers, such as energy assessments, Industrial Expansion Services, and Infrared Scans. Baldwin Electric Member Cooperative provides businesses with energy-analysis tools. Tallapoosa River Electric Cooperative and Cherokee Electric Cooperative provide energy audits and a variety of other energy-assessment tools to their industrial customers. Loans for projects designed to conserve resources are available for customers of South Alabama Electric Cooperative.

## Regional Resources

*Nonprofit Organizations:* Southeast Energy Efficiency Alliance's mission is to promote and achieve energy efficiency through networking, program activities, and education.

*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).

## Local Resources

*Industrial Assessment Center:* The University of Alabama, with sponsorship from the U.S. Department of Energy, hosts an Industrial Assessment Center that provides small to midsize manufacturers with energy assessments.

*Manufacturing Extension Partnership (MEP):* The Alabama Technology Network provides services to Alabama manufacturers, such as lean manufacturing training, quality services training, continual improvement methods, environmental health and safety training, and industrial maintenance training.

## 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 - Alabama ([http://www1.eere.energy.gov/industry/states/state\\_activities/map\\_new.asp?stid=AL](http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=AL))

ITP State Incentives and Resources Database ([http://www1.eere.energy.gov/industry/about/state\\_activities/incentive\\_search.asp](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>)

Alabama Department of Economic and Community Affairs (<http://www.adeca.state.al.us/C16/Biomass%20Energy%20Program/default.aspx>)

Alabama Industrial Energy Efficiency Program (<http://www.adeca.alabama.gov/C3/IEEP/default.aspx>)

Joe Wheeler Electric Membership Corporation (<http://www.jwemc.org/comprehensiveservices.aspx>)

Fort Payne Improvement Authority (<http://www.fpia.com/services.htm>)

Florence Utilities Electricity Department ([http://www.florenceutilities.com/Utilities\\_Departments/Electricity/Energy\\_Right/index.html](http://www.florenceutilities.com/Utilities_Departments/Electricity/Energy_Right/index.html))

Clarke-Mobile Counties Gas District (<http://www.cmccgas.com/index.php?page=3>)

Baldwin Electric Membership Cooperative (<http://www.baldwinemc.com/business-energy-services.aspx>)

Albertville Municipal Utilities Board (<http://www.mub-albertville.com/waterheater.asp>)

Alabama Power (<http://www.alabamapower.com/commercialcheckup/>)

Hartselle Utilities (<http://www.hartselleutilities.org/natural-gas/natural-gas-incentives/>)

Cherokee Electric Cooperative (<http://www.cherokee-electric.org/services/index.htm#Energy%20Audits>)

Muscle Shoals Electric Board ([http://www.mseb.net/topics/water\\_heater/index.htm](http://www.mseb.net/topics/water_heater/index.htm))

Scottsboro Electric Power Board (<http://www.scottsboropower.com/power/power5.html>)

South Alabama Electric Cooperative (<https://www.southaec.com/content.cfm?id=2014>)

Tallapoosa Electric Cooperative (<http://www.trec.coop/services.aspx?id=36>)

Sheffield Utilities (<http://www.sheffieldutilities.org/PWCusService.htm>)

Southeast Alabama Gas District (<http://www.seagd.net/commercial.aspx?id=43>)

SEEA (<http://www.seealliance.org/>)

Alabama Industrial Assessment Center (<http://iac.ua.edu>)

## Contacts

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

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### *Clean Energy Application Center for Region*

Southeast CHP Applications Center

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Web site: <http://www.chpcenterse.org/>

Source: [http://www.eere.energy.gov/de/chp/chp\\_applications/chp\\_application\\_centers.html](http://www.eere.energy.gov/de/chp/chp_applications/chp_application_centers.html)

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[www.eere.energy.gov/informationcenter](http://www.eere.energy.gov/informationcenter)