

Electronic Handbook of Industrial Resources

ALABAMA



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Introduction

This resource provides a comprehensive listing of incentives, tools, and resources for industrial manufacturing energy efficiency in the state of Alabama. It 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. It is based on data available in the *States Incentives and Resources Database*, maintained by the U.S. Department of Energy's (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

Alabama has a total of 4.7 million residents and ranks 25th in the nation in terms of GDP, which is \$170.0 billion. In 2008, Alabama ranked 8th in the nation for industrial energy consumption at 905.1 trillion Btu and 11th in the nation for industrial natural gas consumption at 170.2 trillion Btu.

Alabama's leading industries include transportation equipment manufacturing, chemical manufacturing, and primary metal manufacturing.¹

Exhibit 1 below compares the industrial energy consumption in Alabama 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 Alabama

Year	Alabama Energy Consumption (Trillion Btu)	National Average (Trillion Btu)
2000	1,016.0	680.2
2001	887.9	642.8
2002	895.5	642.0
2003	918.2	639.6
2004	988.6	658.7
2005	966.9	696.7
2006	964.4	636.6
2007	940.6	637.0
2008	905.1	614.8

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

Alabama at a Glance

State Information

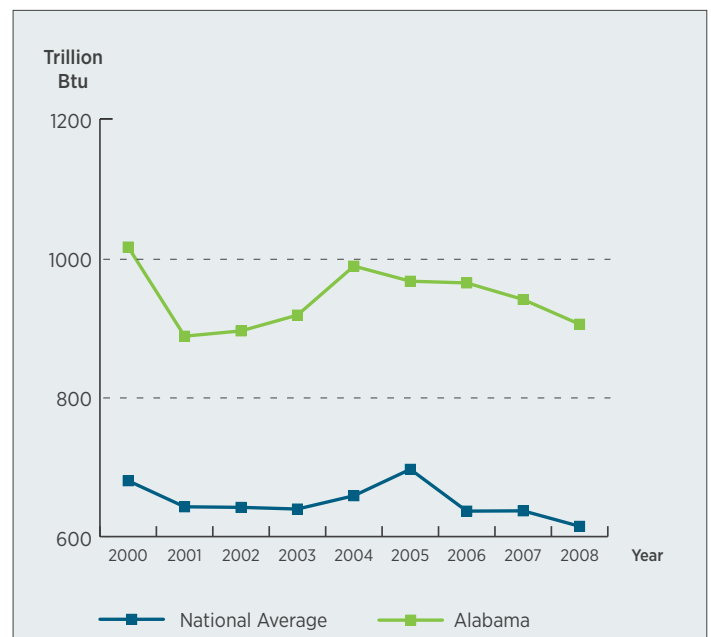
2009 Population (Million)	4.7
2008 GDP (Billion)	\$170.0
Rank by GDP	25

Energy Statistics

Total Energy Consumption 2008 (Trillion Btu)	2,065.0
Total Industrial Energy Consumption 2008 (Trillion Btu)	905.1
Total Industrial Energy Consumption Rank	8
Total Industrial Electricity Use 2008 (Trillion Btu)	119.4
Total Industrial Electricity Use Rank	8
Total Industrial Natural Gas Use 2008 (Trillion Btu)	170.2
Total Industrial Natural Gas Use Rank	11

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

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, non-profits or non-governmental 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. It also provides no-cost energy assessments to industrial plants of all size.

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

Industrial Systems General

Alabama Industrial Energy Efficiency Program

This program promotes energy efficiency opportunities to small-and medium-sized manufacturers to improve profitability by reducing energy costs. The program also provides education and training on the use of alternative energy sources and lean productivity processes in manufacturing.

For More Information:

<http://www.adeca.state.al.us/C3/IEEP/default.aspx>

Sponsor: Alabama Department of Economic and Community Affairs

Sponsor Type: State

Commercial and Industrial Account Management Program

The cooperative offers commercial and industrial programs, such as energy

audits, heating and cooling consultations, loans and grants for expansion, lighting, etc. Support is related to reliability, rate structures, energy efficiency issues, and loan programs.

For More Information:

<https://www.southaec.com/content.cfm?id=2036>

Sponsor: South Alabama Electric Cooperative

Sponsor Type: Utility

Comprehensive Commercial Services

The cooperative offers commercial members a variety of energy efficiency programs including energy audits, metering, power quality analysis, process recommendation, lighting, demand side management, and energy efficiency recommendations.

For More Information:

<http://www.jwemc.org/comprehensive-services.aspx>

Sponsor: Joe Wheeler Electric Membership Corporation

Sponsor Type: Utility

Comprehensive Services Program (CSP)

The CSP covers all areas of energy use, including lighting, HVAC, wiring and electrical distribution equipment, metering, energy audits, food services, power quality, process recommendations, power factor, grounding/lightning, infrared scans, industrial expansion services, demand-side management, water heating, special end-use projects, industrial processes, load management, and commercial cooking.

For More Information:

<http://www.smec.coop/>

Sponsor: Sand Mountain Electric Coop

Sponsor Type: Utility

Constellation NewEnergy Online

Constellation offers an energy-management tool that is available to all electricity customers free of charge. The tool allows customers to find opportunities to improve a company's energy efficiency, track changes in a company's usage, and compare usage across multiple facilities.

For More Information:

<http://www.newenergy.com/portal/site/menuitem.987b194dd5e782ce18a805e4da6176a0>

Sponsor: Constellation NewEnergy

Sponsor Type: Utility

Energy Audit

A cooperative will perform an energy assessment of a residential or nonresidential facility to locate energy inefficient areas and processes.

For More Information:

<http://www.trec.coop/services.aspx?id=36>

Sponsor: Tallapoosa River Electric Cooperative

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.1b1af2559c566632782c7883%20da6176a0>

Sponsor: Constellation NewEnergy

Sponsor Type: Utility

Energy Resource Conservation Loan

The cooperative offers a loan program to members to help with financing for the purchase of energy efficient equipment.

For More Information:

<https://www.southaec.com/content.cfm?id=2014>

Sponsor: South Alabama Electric Cooperative

Sponsor Type: Utility

Energy Use Analysis

The cooperative will help nonresidential members look for ways to make businesses more energy efficient.

For More Information:

<http://www.baldwinemc.com/savings/bizsavings.cfm>

Sponsor: Baldwin Electric Member Cooperative

Sponsor Type: Utility

Lighting

Commercial and Industrial Services

Huntsville Utilities offers a commercial and industrial program that includes power quality assessments, lighting recommendations, infrared scanning, and other types of energy assistance.

For More Information:

<http://www.hsvutil.org/customer/ci.shtml>

Sponsor: Huntsville Utilities

Sponsor Type: Utility

Comprehensive Commercial Services

The cooperative offers commercial members a variety of energy efficiency programs including energy audits, metering, power quality analysis, process recommendation, lighting, demand side management, and energy efficiency recommendations.

For More Information:

<http://www.jwemc.org/comprehensive-services.aspx>

Sponsor: Joe Wheeler Electric Membership Corporation

Sponsor Type: Utility

Comprehensive Services Program

The CSP covers all areas of energy use, including lighting, HVAC, wiring and electrical distribution equipment, metering, energy audits, food services, power quality, process recommendations, power factor, grounding/lightning, infrared scans, industrial expansion services, demand-side management, water heating, special end-use projects, industrial processes, load management, and commercial cooking.

For More Information:

<http://www.smeccoop/>

Sponsor: Sand Mountain Electric Coop

Sponsor Type: Utility

HVAC

Commercial and Industrial Services

Huntsville Utilities offers a commercial and industrial program that includes power quality assessments, lighting recommendations, infrared scanning, and other types of energy assistance.

For More Information:

<http://www.hsvutil.org/customer/ci.shtml>

Sponsor: Huntsville Utilities

Sponsor Type: Utility

Comprehensive Commercial Services

The cooperative offers its commercial members a variety of energy efficiency programs including energy audits, metering, power quality analysis, process recommendation, lighting, demand side management, and energy efficiency recommendations.

For More Information:

<http://www.jwemc.org/comprehensive-services.aspx>

Sponsor: Joe Wheeler Electric Membership Corporation

Sponsor Type: Utility

Comprehensive Services Program

The CSP covers all areas of energy use, including lighting, HVAC, wiring and electrical distribution equipment, metering, energy audits, food services, power quality, process recommendations, power factor, grounding/lightning, infrared scans, industrial expansion services, demand-side management, water heating, special end-use projects, industrial processes, load management, and commercial cooking.

For More Information:

<http://www.smec.coop/>

Sponsor: Sand Mountain Electric Coop

Sponsor Type: Utility

Electric Water Heater Program

The utility will offer a \$100 rebate to a customer that replaces a water heater with an energy efficient electric model.

For More Information:

<http://www.mub-albertville.com/waterheater.asp>

Sponsor: Albertville Municipal Utilities Board

Sponsor Type: Utility

Gas Appliance and Water Heater Programs

Customers will receive a credit on natural gas bills for the purchase and installation of natural gas appliances or water heaters.

For More Information:

<http://www.cmcgas.com/index.php?page=3>

Sponsor: Clarke-Mobile Counties Gas District

Sponsor Type: Utility

Heat Pump Financing

The utility's electric heat pump program offers technical support for choosing a heat pump, a free warranty, and free installation, as well as low-interest, fixed-rate financing for the purchase.

For More Information:

<http://www.hartselleutilities.org/electric-department/electric-incentive-programs/>

Sponsor: Hartselle Utilities

Sponsor Type: Utility

Heat Pump Loan Program

The utility offers financing for energy efficient heat pumps over a 10-year period at 9% interest.

For More Information:

<http://www.sheffieldutilities.org/PW-CusService.htm>

Sponsor: Sheffield Utilities

Sponsor Type: Utility

Heat Pump Program

The utility offers a loan program that will help a customer finance the cost of a heat pump.

For More Information:

http://www.sheffieldutilities.org/electric_cs.html

Sponsor: Scottsboro Electric Power Board

Sponsor Type: Utility

Heat Pump Retrofit

The utility will provide financing of up to \$10,000 for the purchase of a retrofit heat pump.

For More Information:

http://www.florenceutilities.com/Utilities_Departments/Electricity/Energy_Right/index.html

Sponsor: Florence Utilities Electricity Department

Sponsor Type: Utility

HVAC Training Center

Alabama Power Company provides training on HVAC systems.

For More Information:

<http://www.alabamapower.com/hvac/home.asp>

Sponsor: Alabama Power Company

Sponsor Type: Utility

Small Commercial Heat Pump Loans

The utility offers a loan program to help small commercial customers finance the cost of a heat pump.

For More Information:

<http://www.fpia.com/heat-pump-program.html>

Sponsor: Fort Payne Improvement Authority

Sponsor Type: Utility

Building Systems

Alabama Industrial Energy Efficiency Program

This program promotes energy efficiency opportunities to small-and medium-sized manufacturers to improve a company's profitability through reduced energy costs. The program also provides education and training on the use of alternative energy sources and lean productivity processes in manufacturing.

For More Information:
<http://www.adeca.state.al.us/C3/IEEP/default.aspx>

Sponsor: Alabama Department of Economic and Community Affairs
Sponsor Type: State

Commercial and Industrial Services

Huntsville Utilities offers a commercial and industrial program that includes power quality assessments, lighting recommendations, infrared scanning, and other types of energy assistance.

For More Information:
<http://www.hsvutil.org/customer/ci.shtml>

Sponsor: Huntsville Utilities
Sponsor Type: Utility

Comprehensive Commercial Services

The cooperative offers commercial members a variety of energy efficiency programs including energy audits, metering, power quality analysis, process recommendation, lighting, demand side management, and energy efficiency recommendations.

For More Information:
<http://www.jwemc.org/comprehensive-services.aspx>

Sponsor: Joe Wheeler Electric Membership Corporation
Sponsor Type: Utility

Comprehensive Services Program

The CSP covers all areas of energy use, including lighting, HVAC, wiring and electrical distribution equipment, metering, energy audits, food services, power quality, process recommendations, power factor, grounding/lightning, infrared scans, industrial expansion services, demand-side management, water heating, special end-use projects, industrial processes, load management, and commercial cooking.

For More Information:
<http://www.smec.coop/>

Sponsor: Sand Mountain Electric Coop
Sponsor Type: Utility

Electric Water Heater Rebate

A customer is eligible for a cash rebate for the purchase of an energy efficient electric water heater.

For More Information:
http://www.mseb.net/topics/water_heater/index.htm

Sponsor: Muscle Shoals Electric Board
Sponsor Type: Utility

Energy Use Analysis

The cooperative will help nonresidential members look for ways to make businesses more energy efficient.

For More Information:
<http://www.baldwinemc.com/savings/bizsavings.cfm>

Sponsor: Baldwin Electric Member Cooperative
Sponsor Type: Utility

Gas Appliance and Water Heater Programs

A customer will receive a credit on a natural gas bill for the purchase and installation of a natural gas appliance or water heater.

For More Information: <http://www.cmccgas.com/index.php?page=3>

Sponsor: Clarke-Mobile Counties Gas District
Sponsor Type: Utility

Natural Gas Incentives

Rebates of up to \$200 are available for the purchase of energy efficient natural gas appliances.

For More Information:
<http://www.hartselleutilities.org/natural-gas/natural-gas-incentives/>

Sponsor: Hartselle Utilities
Sponsor Type: Utility

Natural Gas Water Heater Rebate

The utility offers a \$150 rebate for the purchase of an energy efficient natural gas water heater.

For More Information: http://www.sheffieldutilities.org/gas_rebates.html

Sponsor: Sheffield Utilities
Sponsor Type: Utility

Water Heater Program

The utility offers a \$100 rebate if a customer purchases an energy-efficient water heater.

For More Information:
http://www.fpia.com/index.php?option=com_rsform&Itemid=61

Sponsor: Fort Payne Improvement Authority
Sponsor Type: Utility

Water Heater Program

The utility offers a rebate up to \$100 if a customer purchases an energy efficient electric water heater.

For More Information:
<http://www.scottsboropower.com/power/power5.html>

Sponsor: Scottsboro Electric Power Board
Sponsor Type: Utility

Water Heater Rebate Program

The utility is offering rebates of \$50 for the purchase of an energy efficient electric water heater.

For More Information:

http://www.florenceutilities.com/Utilities_Departments/Electricity/Energy_Right/index.html

Sponsor: Florence Utilities Electricity Department

Sponsor Type: Utility

Industrial Systems / Process Specific

Alabama Industrial Energy Efficiency Program

This program promotes energy efficiency opportunities to small-and medium-sized manufacturers to improve a company's profitability through reduced energy costs. The program also provides education and training on the use of alternative energy sources and lean productivity processes in manufacturing.

For More Information:

<http://www.adeca.state.al.us/C3/IEEP/default.aspx>

Sponsor: Alabama Department of Economic and Community Affairs

Sponsor Type: State

Commercial and Industrial Services

Huntsville Utilities offers a commercial and industrial program that includes power quality assessments, lighting recommendations, infrared scanning, and other types of energy assistance.

For More Information:

<http://www.hsvutil.org/customer/ci.shtml>

Sponsor: Huntsville Utilities

Sponsor Type: Utility

Comprehensive Commercial Services

The cooperative offers commercial members a variety of energy efficiency programs including energy audits, metering, power quality analysis, process recommendation, lighting, demand side management, and energy efficiency recommendations.

For More Information:

<http://www.jwemc.org/comprehensive-services.aspx>

Sponsor: Joe Wheeler Electric Membership Corporation

Sponsor Type: Utility

Comprehensive Services Program

The CSP covers all areas of energy use, including lighting, HVAC, wiring and electrical distribution equipment, metering, energy audits, food services, power quality, process recommendations, power factor, grounding/lightning, infrared scans, industrial expansion services, demand-side management, water heating, special end-use projects, industrial processes, load management, and commercial cooking.

For More Information:

<http://www.smec.coop/>

Sponsor: Sand Mountain Electric Coop

Sponsor Type: Utility

Energy Analysis

A Southeast Alabama Gas District (SEAGD) representative will visit commercial and industrial sites to assess the equipment currently in place. The SEAGD representative will then evaluate the initial cost of adding or converting equipment, the current and projected energy costs, and the payback period for any possible change.

For More Information:

<http://www.seagd.net/business.aspx?id=124>

Sponsor: Southeast Alabama Gas District

Sponsor Type: Utility

Energy Resource Conservation Loan

The cooperative offers a loan program to members to help with financing the purchase of energy efficient equipment.

For More Information:

<https://www.southaec.com/content.cfm?id=2014>

Sponsor: South Alabama Electric Cooperative

Sponsor Type: Utility

Technology Application Centers

Alabama Power Company's Technology Applications Centers work to help improve energy efficiency, improve production processes, increase productivity, and address environmental concerns. The following types of services are offered: technical assistance, equipment demonstration, product testing, manufacturing process evaluation, and materials analysis.

For More Information:

<http://www.alabamapower.com/commercial/tac.asp>

Sponsor: Alabama Power Company

Sponsor Type: Utility

Total Workforce Delivery System

Alabama Industrial Development Training offers various services to industry, such as comprehensive pre-employment selection and training, leadership development, on-the job training, continuous/process improvement assessments, maintenance assessments, and industrial safety assessments and training.

For More Information:

<http://www.aidt.edu/services/>

Sponsor: Alabama Industrial Development Training

Sponsor Type: Nonprofit

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

Energy Sources

Biomass Energy Program

The Biomass Energy Interest Subsidy Program is available to assist wood industry and non-wood industry businesses alike with the installation of biomass energy systems. The program provides up to \$75,000 in interest subsidy payments on loans to install approved biomass projects. Eligible applicants include industrial, commercial, and institutional facilities, as well as agricultural property owners and city, county, and state entities. Landfill gas projects are also eligible for funding consideration.

For More Information:

<http://www.adeca.state.al.us/C16/Bio-mass%20Energy%20Program/default.aspx>

Sponsor: Alabama Department of Economic and Community Affairs
Sponsor Type: State

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

Load Management

Commercial Energy Check-up

This online tool helps commercial customers review and analyze energy use.

For More Information:

<http://www.alabamapower.com/commercialcheckup/>

Sponsor: Alabama Power Company
Sponsor Type: Utility

Comprehensive Commercial Services

The cooperative offers its commercial members a variety of energy efficiency programs including energy audits, metering, power quality analysis, process recommendation, lighting, demand side management, and energy efficiency recommendations.

For More Information:

<http://www.jwemc.org/comprehensive-services.aspx>

Sponsor: Joe Wheeler Electric Membership Corporation
Sponsor Type: Utility

Comprehensive Services Program

The CSP covers all areas of energy use, including lighting, HVAC, wiring and electrical distribution equipment, metering, energy audits, food services, power quality, process recommendations, power factor, grounding/lightning, infrared scans, industrial expansion services, demand-side management, water heating, special end-use projects, industrial processes, load management, and commercial cooking.

For More Information:

<http://www.smec.coop/>

Sponsor: Sand Mountain Electric Coop
Sponsor Type: Utility

Energy Management Services (EMS)

The EMS program provides evaluation of a customer's total energy use for establishing energy conservation solutions that reduce the customer's annual energy expenses. EMS utilizes equipment inventory reports, historical energy bills, walkthrough audits, load analysis, and equipment decision making to provide the optimal use of energy in a facility.

For More Information:

<http://www.gasauthority.com/cms/Commercial+%26+Industrial/39.html>

Sponsor: Municipal Gas Authority of Georgia
Sponsor Type: Other

EnergyDirect

Alabama Power Company's Energy-Direct program provides an online service that enables business customers to have 24/7 account access for billing and usage information. The tool provides graphing and analysis of a customer's energy use, as well as alerts and metrics tailored to a customer's business. The tool also provides custom account portfolios and has a benchmarking ability.

For More Information:

<http://www.energydirect.com>

Sponsor: Alabama Power Company
Sponsor Type: Utility

H2O Load Management Program

For no charge, the utility installs a device on a customer's water heater that periodically shuts the equipment off without the customer noticing a break in hot water supply or temperature. The customer does not receive a direct reduction on electric bills, but customers participating in the program help reduce electricity prices for the future.

For More Information: <https://www.southaec.com/content.cfm?id=2056>

Sponsor: South Alabama Electric Cooperative
Sponsor Type: Utility

Natural Gas Incentives

Rebates of up to \$200 are available for the purchase of energy efficient natural gas appliances.

For More Information:

<http://www.hartselleutilities.org/natural-gas/natural-gas-incentives/>

Sponsor: Hartselle Utilities

Sponsor Type: Utility

Constellation NewEnergy Online

Constellation offers an energy-management tool that is available to all electricity customers free of charge. The tool allows customers to find opportunities to improve a company's energy efficiency, track changes in a company's usage, and compare usage across multiple facilities.

For More Information:

<http://www.newenergy.com/portal/site/menuitem.987b194dd5e782ce18a805e4da6176a0>

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.1b1af2559c566632782c7883da6176a0>

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.c2d5c4a31e3b3661571c5010747176a0?title=lr>

Sponsor: Constellation NewEnergy

Sponsor Type: Utility

End Notes

¹ U.S. Department of Energy, Industrial Technologies Program, State and Regional Partnerships, “Industrial Technologies Program Activities in Alabama.” http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=AL.

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