

Electronic Handbook of Industrial Resources

# MICHIGAN



# Electronic Handbook of Industrial Resources

## MICHIGAN

November 2010

### Introduction

This resource provides a comprehensive listing of incentives, tools, and resources for industrial manufacturing energy efficiency in the state of Michigan. 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](http://www1.eere.energy.gov/industry/states/state_activities/incentive_search.aspx)



# Contents

- Introduction ..... 2
- State Industrial Overview ..... 4
- Federal and National Industrial Energy Efficiency Programs ..... 5
- State Incentives by Industrial System ..... 5
  - Building Systems ..... 5
  - HVAC ..... 7
  - Industrial Systems / Process Specific ..... 7
  - Lighting ..... 9
  - Load Management ..... 9
- End Notes ..... 14

# State Industrial Overview

Michigan has a total of 10.0 million residents and ranks 12th in the nation in terms of gross domestic product (GDP), which is \$382.5 billion. In 2008, Michigan ranked 11th in the nation's industrial energy consumption at 756.0 trillion British thermal units (Btu) and 14th in the nation's industrial natural gas consumption at 152.0 trillion Btu. Michigan's leading industries include transportation equipment, machinery manufacturing, and fabricated metal product manufacturing.<sup>1</sup> Industries such as durable goods manufacturing in the automotive, glass, and metal casting industries are responsible for the greatest industrial energy consumption in the state.<sup>2</sup>

Michigan has considerable natural gas resources; more than any other state in the Great Lakes region. Aside from its natural gas resources, Michigan does not have considerable renewable energy potential—it does contain some from wood and wood waste in the northern portion of the state, and wind energy potential along the Great Lakes shoreline. Michigan is a substantial generator of electricity from wood and wood waste. In an effort to increase the use of renewable energy resources, two renewable energy technology manufacturers plan to transform an abandoned automobile factory into the nation's largest renewable energy park. The site will produce solar panels and large-scale batteries to store power for the electric grid.<sup>3</sup>

Exhibit 1 below compares the industrial energy consumption in Michigan 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 Michigan

Year	Michigan Energy Consumption (Trillion Btu)	National Average (Trillion Btu)
2000	1,010.3	680.2
2001	889.9	642.8
2002	861.4	642.0
2003	927.2	639.6
2004	893.8	658.7
2005	886.7	696.7
2006	839.3	636.6
2007	797.2	637.0
2008	756.0	614.8

Source: [http://www.eia.doe.gov/emeu/states/sep\\_use/ind/use\\_ind\\_mi.html](http://www.eia.doe.gov/emeu/states/sep_use/ind/use_ind_mi.html)

# Michigan at a Glance

## State Information

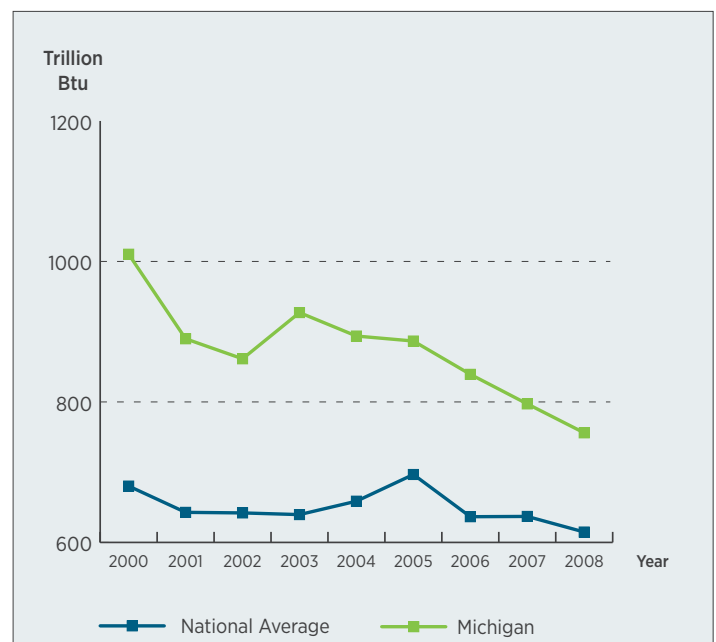
2009 Population (Million)	10.0
2008 GDP (Billion)	\$382.5
Rank by GDP	12

## Energy Statistics

Total Energy Consumption 2008 (Trillion Btu)	2,918.3
Total Industrial Energy Consumption 2008 (Trillion Btu)	756.0
Total Industrial Energy Consumption Rank	11
Total Industrial Electricity Use 2008 (Trillion Btu)	110.9
Total Industrial Electricity Use Rank	11
Total Industrial Natural Gas Use 2008 (Trillion Btu)	152.0
Total Industrial Natural Gas Use Rank	14

Source: [http://tonto.eia.doe.gov/state/state\\_energy\\_profiles.cfm?sid=MI](http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=MI)

## 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

### Building Systems

#### Interruptible Water Heater Program

Customers that allow the cooperative to temporarily power down water heaters during periods of high energy use will receive a credit on monthly utility bills.

**For More Information:**

<http://www.teammidwest.com/interruptiblewaterheater.aspx>

**Sponsor:** Midwest Energy Cooperative  
**Sponsor Type:** Utility

#### Loan Program & Lean Enterprises

Offers loans to businesses located in the Upper Peninsula and Northern Lower Peninsula of Michigan. Provides technical assistance for LEAN principles.

**For More Information:**

<http://www.northerninitiatives.com/>

**Sponsor:** Northern Initiatives  
**Sponsor Type:** Nonprofit

#### Michigan Business Tax Incentive Program

The MBT offers incentives for new and existing firms. Credits are allowed for Michigan-based compensation costs, capital purchases, research and development (R&D) expenditures, and property taxes paid on purchased industrial personal property.

**For More Information:**

<http://www.michiganadvantage.org/cm/files/Fact-Sheets/MichiganBusinessTaxreplaceSBT.pdf>

**Sponsor:** Michigan Economic Development Corporation  
**Sponsor Type:** State

#### Rebate Program

Rebates are available on qualified energy efficient items, such as high-efficiency boilers and furnaces. Both prescriptive and custom rebates are available.

**For More Information:**

[http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company  
**Sponsor Type:** Utility

#### Water Heater Rebate

Rebates are available to commercial customers on the purchase of energy efficient water heaters.

**For More Information:**

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=753>

**Sponsor:** Consumers Energy  
**Sponsor Type:** Utility



## Water Heater Rebate

Rebates of \$75 are available for the purchase of water heaters that hold more than 40 gallons.

**For More Information:** <http://www.cloverland.com/index.php?p=water>

**Sponsor:** Cloverland Electric Cooperative  
**Sponsor Type:** Utility

## Energy Sources

Alternative Energy Personal Property Tax Exemption

Facilities generating renewable energy are exempt from paying additional property taxes as a result of the renewable equipment.

**For More Information:**  
<http://www.michigan.org/medc/ttc/Alternative.Energy/Financial.Incentives>

**Sponsor:** Michigan Economic Development Corporation  
**Sponsor Type:** State

## Commercial Audit Service

A nonprofit organization dedicated to promoting clean energy technologies. The Commercial Audit Services program provides benchmarking, as well as building performance analysis to commercial buildings including retail, office, warehouse, factory, and many others.

**For More Information:**  
<http://www.cec-mi.org/PROGRAMS-SERVICES/CommercialAuditServices/tabid/70/Default.aspx>

**Sponsor:** Clean Energy Coalition  
**Sponsor Type:** Nonprofit

## Custom Measures Rebate

The utility offers an opportunity to be compensated for any qualifying measures that reduce natural gas and/or electricity usage. The incentive amount is \$0.08 per kilowatt hour (kWh) saved or \$4.00 per MCF. There is a maximum of \$200,000 per facility per year for custom incentives.

**For More Information:**

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=756>

**Sponsor:** Consumers Energy  
**Sponsor Type:** Utility

## Energy Efficiency Grant Program

The Low-Income and Energy Efficiency Fund provides periodic grants to support the implementation of energy efficiency and renewable energy projects in the state. Restrictions are specific to individual Requests for Proposals.

**For More Information:**  
<http://www.michigan.gov/mpsc/0,1607,7-159-52493---,00.html>

**Sponsor:** Michigan Public Service Commission  
**Sponsor Type:** State

## Large-Scale Photovoltaic Demonstration Project Grants

The Michigan Energy Office in the Department of Labor and Economic Growth offers an annual grant solicitation for photovoltaic (PV) projects. The grants pay up to 90% of PV equipment costs.

**For More Information:**  
[http://www.michigan.gov/dleg/0,1607,7-154-25676\\_25774-75766-,00.html](http://www.michigan.gov/dleg/0,1607,7-154-25676_25774-75766-,00.html)

**Sponsor:** Michigan Department of Energy, Labor, & Economic Growth  
**Sponsor Type:** State

## Michigan Business Incentive Programs

Under the program, businesses are encouraged to invest in Michigan through numerous tax credits and a lower overall tax burden. Tax credits are available for R&D expenditures, Brownfield redevelopment, creating a significant number of jobs, and investing in the creation of alternative energy.

**For More Information:**

<http://www.michiganadvantage.org/MIAdvantage/Taxes-and-Incentives/Default.aspx>

**Sponsor:** Michigan Economic Development Corporation  
**Sponsor Type:** State

## Michigan Business Tax Incentive Program

The program offers incentives for new and existing firms. Credits are allowed for Michigan-based compensation costs, capital purchases, R&D expenditures, and property taxes paid on purchased industrial personal property.

**For More Information:**  
<http://www.michiganadvantage.org/cm/files/Fact-Sheets/MichiganBusinessTaxreplaceSBT.pdf>

**Sponsor:** Michigan Economic Development Corporation  
**Sponsor Type:** State

## Michigan Saves

The program finances the installation of energy efficiency and renewable energy upgrades with no upfront cost to utility customers.

**For More Information:**  
<http://www.michigansaves.org/>

**Sponsor:** Public Sector Consultants  
**Sponsor Type:** Other

## Renewable Energy Rebate

Renewable energy systems are eligible for a rebate of up to \$10,000.

**For More Information:**  
<http://www.wppienergy.org/recus-tomerincentive>

**Sponsor:** WPPI Energy  
**Sponsor Type:** Utility

## Renewable Energy Rebate

Rebates for renewable energy systems are available to residential and small commercial customers.

### For More Information:

[http://www.wppisys.org/programs\\_services/default.asp?CategoryID=38&SubcategoryID=82](http://www.wppisys.org/programs_services/default.asp?CategoryID=38&SubcategoryID=82)

**Sponsor:** Wisconsin Public Power

**Sponsor Type:** Other

## Southeast Michigan Sustainable Business Forum

Provides networking and information exchange of sustainable business practices, including energy efficiency and renewable energy technologies.

### For More Information:

<http://www.smsbf.org/>

**Sponsor:** Southeast Michigan Sustainable Business Forum

**Sponsor Type:** Other

## TechWorks

The predominant focus of this program is on sustainable, advanced technologies. Work areas are numerous and include alternative energy, automotive, and advanced manufacturing and materials.

### For More Information:

<http://www.kettering.edu/techworks/index.jsp>

**Sponsor:** Kettering University

**Sponsor Type:** Other

## HVAC

### Audited for Energy Efficiency

Onsite audits identify potential energy conservation opportunities for participating members, including heating, cooling, lighting, and production—if applicable.

**For More Information:** <http://www.wpsci.com/EnergyEfficiency.aspx>

**Sponsor:** Wolverine Power Supply Cooperative

**Sponsor Type:** Other

### Custom Application for Business Customers

Lansing Board of Water & Light offers customers incentives for installing new energy efficient equipment not covered by the other incentive programs.

### For More Information:

[http://www.lbwl.com/HES\\_CustomForm.pdf](http://www.lbwl.com/HES_CustomForm.pdf)

**Sponsor:** Lansing Board of Water & Light

**Sponsor Type:** Utility

### HVAC Equipment Rebate

Rebates are available to nonresidential customers on the purchase of energy efficient HVAC equipment.

### For More Information:

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=752>

**Sponsor:** Consumers Energy

**Sponsor Type:** Utility

### Rebate Program

Rebates are available on qualified energy efficient items, such as high-efficiency boilers and furnaces. Both prescriptive and custom rebates are available.

### For More Information:

[http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company

**Sponsor Type:** Utility

## Your Energy Savings Program

Incentives are available on implementing a variety of energy efficient equipment, including motors, lighting, and HVAC systems. Incentive amounts vary.

### For More Information:

<http://www.dteenergy.com/business-Customers/saveEnergy/rebates/prescriptive.html>

**Sponsor:** DTE Energy

**Sponsor Type:** Utility

## Industrial Systems / Process Specific

### Audited for Energy Efficiency

Onsite audits identify potential energy conservation opportunities for participating members, including heating, cooling, lighting, and production—if applicable.

### For More Information:

<http://www.wpsci.com/EnergyEfficiency.aspx>

**Sponsor:** Wolverine Power Supply Cooperative

**Sponsor Type:** Other

### Center for Applied Research and Technology

Partners have access to a wide range of benefits—from public relations to technology assessments.

### For More Information:

<http://www.cmurc.com>

**Sponsor:** Central Michigan University

**Sponsor Type:** Other

### Custom Application for Business Customers

Lansing Board of Water & Light offers customers incentives for installing new energy efficient equipment not covered by the other incentive programs.

### For More Information:

[http://www.lbwl.com/HES\\_CustomForm.pdf](http://www.lbwl.com/HES_CustomForm.pdf)

**Sponsor:** Lansing Board of Water & Light

**Sponsor Type:** Utility

## Energy and Environmental Programs - Financial

The center offers loans to finance energy efficiency and pollution prevention projects.

### For More Information:

<http://www.p2e2center.org/services.php#financing>

**Sponsor:** Delta Pollution Prevention and Energy Efficiency Center

**Sponsor Type:** Other

## Energy and Environmental Programs - Technical

The center offers energy and water assessments, case studies, and greenhouse gas emissions analysis.

### For More Information:

<http://www.p2e2center.org/services.php#technicalassistance>

**Sponsor:** Delta Pollution Prevention and Energy Efficiency Center

**Sponsor Type:** Other

## Energy Efficiency Assistance

The Energy Center of Wisconsin offers technical assistance, energy analysis, training, resources, and fact sheets.

### For More Information:

<http://www.ecw.org/whatwedo.php>

**Sponsor:** Energy Center of Wisconsin

**Sponsor Type:** Nonprofit

## Energy Efficiency Assistance

The Midwest Food Processors Association offers education, training, and energy efficiency resources.

### For More Information:

<http://www.mwfpa.org/>

**Sponsor:** Midwest Food Processors Association

**Sponsor Type:** Other

## Industry Testing Program

The program provides research and testing for companies on a fee-for-service basis. Sophisticated instrumen-

tation is available for analysis, processing, fabrication, and characterization of materials.

### For More Information:

<http://www.egr.msu.edu/research/industry-testing>

**Sponsor:** Michigan State University

**Sponsor Type:** Other

## Loan Program & Lean Enterprises

Offers loans to businesses located in the Upper Peninsula and Northern Lower Peninsula of Michigan. Provides technical assistance for LEAN principles.

### For More Information:

<http://www.northerninitiatives.com/>

**Sponsor:** Northern Initiatives

**Sponsor Type:** Nonprofit

## Michigan Business Tax Incentive Program

The MBT offers incentives for new and existing firms. Credits are allowed for Michigan-based compensation costs, capital purchases, R&D expenditures, and property taxes paid on purchased industrial personal property.

### For More Information:

<http://www.michiganadvantage.org/cm/files/Fact-Sheets/MichiganBusinessTaxreplaceSBT.pdf>

**Sponsor:** Michigan Economic Development Corporation

**Sponsor Type:** State

## Midwest Combined Heat and Power Application Center

The center has the objective of making combined heat and power (CHP) applications commercially available. The center will work with a plant to see if CHP can help improve process efficiency.

**For More Information:** <http://www.chpcentermw.org/home.html>

**Sponsor:** University of Illinois at Chicago Energy Resources

**Sponsor Type:** Other

## Midwest Combined Heat and Power Application Center

The center has the objective of making CHP applications commercially available. The center will work with a plant to see if CHP can help improve process efficiency.

### For More Information:

<http://www.chpcentermw.org/home.html>

**Sponsor:** University of Illinois at Chicago Energy Resources

**Sponsor Type:** Other

## Miscellaneous Measures Rebate

The utility offers rebates to non-residential customers on a variety of miscellaneous equipment, including vending machines, ice machines, heater controls, and spray nozzles.

### For More Information:

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=755>

**Sponsor:** Consumers Energy

**Sponsor Type:** Utility

## Motor Rebate

Rebates are available to nonresidential customers through the utility on the purchase of energy efficient motors.

### For More Information:

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=754>

**Sponsor:** Consumers Energy

**Sponsor Type:** Utility

## Rebate Program

Rebates are available on qualified energy efficient items, such as high-efficiency boilers and furnaces. Both prescriptive and custom rebates are available.

### For More Information:

[http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company

**Sponsor Type:** Utility



## Southeast Michigan Sustainable Business Forum

Provides networking and information exchange of sustainable business practices, including energy efficiency and renewable energy technologies.

**For More Information:**  
<http://www.smsbf.org/>

**Sponsor:** Southeast Michigan Sustainable Business Forum  
**Sponsor Type:** Other

## TechWorks

The predominant focus of this program is on sustainable, advanced technologies. Work areas are numerous and include alternative energy, automotive, and advanced manufacturing and materials.

**For More Information:**  
<http://www.kettering.edu/techworks/index.jsp>

**Sponsor:** Kettering University  
**Sponsor Type:** Other

## Your Energy Savings Program

Incentives are available on implementing a variety of energy efficient equipment, including motors, lighting, and HVAC systems. Incentive amounts vary.

**For More Information:**  
<http://www.dteenergy.com/business-Customers/saveEnergy/rebates/prescriptive.html>

**Sponsor:** DTE Energy  
**Sponsor Type:** Utility

## Lighting

### Audited for Energy Efficiency

Onsite audits identify potential energy conservation opportunities for participating members, including heating, cooling, lighting, and production—if applicable.

**For More Information:**  
<http://www.wpsci.com/EnergyEfficiency.aspx>

**Sponsor:** Wolverine Power Supply Cooperative  
**Sponsor Type:** Other

### Custom Application for Business Customers

Lansing Board of Water & Light offers customers incentives for installing new energy efficient equipment not covered by the other incentive programs.

**For More Information:**  
[http://www.lbwl.com/HES\\_Custom-Form.pdf](http://www.lbwl.com/HES_Custom-Form.pdf)

**Sponsor:** Lansing Board of Water & Light  
**Sponsor Type:** Utility

### Lighting Measures Rebate

The utility offers rebates to non-residential customers on a variety of energy efficient lighting devices.

**For More Information:**  
<http://www.consumersenergy.com/ee-programs/content.aspx?ID=751>

**Sponsor:** Consumers Energy  
**Sponsor Type:** Utility

### Lighting Program

Rebates are provided for the purchase of energy efficient lighting.

**For More Information:**  
<http://www.mwalliance.org/programs/change-light>

**Sponsor:** Midwest Energy Efficiency Alliance  
**Sponsor Type:** Nonprofit

## Rebate Program

Rebates are available on qualified energy efficient items, such as high-efficiency boilers and furnaces. Both prescriptive and custom rebates are available.

**For More Information:**  
[http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company  
**Sponsor Type:** Utility

## Your Energy Savings Program

Incentives are available on implementing a variety of energy efficient equipment, including motors, lighting, and HVAC systems. Incentive amounts vary.

**For More Information:**  
<http://www.dteenergy.com/business-Customers/saveEnergy/rebates/prescriptive.html>

**Sponsor:** DTE Energy  
**Sponsor Type:** Utility

## Load Management

### Back of the Envelope Calculator

This online tool for commercial and industrial managers helps analyze energy use throughout a facility.

**For More Information:**  
<http://www.ecw.org/project.php?workid=1&resultid=286>

**Sponsor:** Energy Center of Wisconsin  
**Sponsor Type:** Nonprofit

### Commercial and Industrial (C&I) Accounts

Great Lakes Energy is offering an energy-optimization program to help large commercial and industrial members save both energy and money.

**For More Information:**  
<http://www.gtlakes.com/energy-optimization/energy-optimization/large-commercial-accounts/>

**Sponsor:** Great Lakes Energy  
**Sponsor Type:** Utility

## 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.987b194dd5e782ce18a805e4da6176a0>

**Sponsor:** Constellation NewEnergy

**Sponsor Type:** Utility

## Custom Measures Rebate

The utility offers an opportunity to be compensated for any qualifying measures that reduce natural gas and/or electricity usage. The incentive amount is \$0.08 per kWh saved or \$4.00 per MCF. There is a maximum of \$200,000 per facility per year for custom incentives.

### For More Information:

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=756>

**Sponsor:** Consumers Energy

**Sponsor Type:** Utility

## Energy Efficiency Assistance

The Energy Center of Wisconsin offers technical assistance, energy analysis, training, resources, and fact sheets.

### For More Information:

<http://www.ecw.org/whatwedo.php>

**Sponsor:** Energy Center of Wisconsin

**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 Services

Seminole Energy Services offers businesses services, such as peak shaving, load management, energy audits, and consulting services.

### For More Information:

<http://www.seminoleenergy.com/services.commercial.aspx#services>

**Sponsor:** Seminole Energy Services

**Sponsor Type:** Other

## Interruptible Water Heater Program

Customers that allow the cooperative to temporarily power down water heaters during periods of high energy use will receive a credit on monthly utility bills.

### For More Information:

<http://www.teammidwest.com/interruptiblewaterheater.aspx>

**Sponsor:** Midwest Energy Cooperative

**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

## Miscellaneous Measures Rebate

The utility offers rebates to non-residential customers on a variety of miscellaneous equipment, including vending machines, ice machines, heater controls, and spray nozzles.

### For More Information:

<http://www.consumersenergy.com/ee-programs/content.aspx?ID=755>

**Sponsor:** Consumers Energy

**Sponsor Type:** Utility

## Programs for Businesses

The utility offers business assistance programs, such as manufacturing assessment assistance, quality certification assistance, and business development assistance.

### For More Information:

[http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company

**Sponsor Type:** Utility

Industrial Systems General

## Back of the Envelope Calculator

This online tool for commercial and industrial managers helps analyze energy use throughout a facility.

### For More Information:

<http://www.ecw.org/project.php?workid=1&resultid=286>

**Sponsor:** Energy Center of Wisconsin

**Sponsor Type:** Nonprofit

## Business Assistance

A private nonprofit organization dedicated to creating new investment and jobs in the city of Detroit by providing technical, financial, and development assistance to the Detroit business community. The organization manages the Detroit Industrial Revolving Loan program.

**For More Information:**  
<http://www.degc.org/>

**Sponsor:** Detroit Economic Growth Corporation  
**Sponsor Type:** Nonprofit

### **Business-Specific Advice**

The utility offers a resource library with information specific to each business type in order to make it easier for customers to manage energy costs.

**For More Information:**  
<http://www.uppco.com/business/bsa.aspx>

**Sponsor:** Upper Peninsula Power Company  
**Sponsor Type:** Utility

### **Center for Manufacturing Improvement**

The center is dedicated to helping manufacturers in the Saginaw Valley achieve goals with leading edge training and support.

**For More Information:**  
<http://www.svsu.edu/cbed/cmi.html>

**Sponsor:** Saginaw Valley State University  
**Sponsor Type:** Other

### **Commercial and Industrial (C&I) Accounts**

Great Lakes Energy is offering an energy-optimization program to help large commercial and industrial members save both energy and money.

**For More Information:**  
<http://www.gtlakes.com/energy-optimization/energy-optimization/large-commercial-accounts/>

**Sponsor:** Great Lakes Energy  
**Sponsor Type:** Utility

### **Commercial and Industrial (C&I) Prescriptive Program**

The program offers incentives for a number of technologies that will reduce electric consumption, including high-efficiency lighting, HVAC equipment, motors/pumps/drives, refrigeration, food service equipment, insulation, controls, and more.

**For More Information:**  
<http://www.cecelec.com/eo/eocom-caipro.cfm>

**Sponsor:** Cherryland Electric Cooperative  
**Sponsor Type:** Utility

### **Commercial and Industrial (C&I) Prescriptive Program**

This program includes incentives for most common energy efficiency equipment used in businesses, including but not limited to lighting, motors and drives, controls, HVAC, refrigeration, and food service equipment.

**For More Information:**  
<http://www.teammidwest.com/CommercialPrescriptive.aspx>

**Sponsor:** Midwest Energy Cooperative  
**Sponsor Type:** Utility

### **Commercial Audit Service**

A nonprofit organization dedicated to promoting clean-energy technologies. The Commercial Audit Services program provides benchmarking, as well as building performance analysis to commercial buildings including retail, office, warehouse, factory, and many others.

**For More Information:**  
<http://www.cec-mi.org/PROGRAMS-SERVICES/CommercialAuditServices/tabid/70/Default.aspx>

**Sponsor:** Clean Energy Coalition  
**Sponsor Type:** Nonprofit

### **Comprehensive Education Programs and Services**

The Energy Center of Wisconsin holds several training sessions and events to increase knowledge of industrial efficiency.

**For More Information:**  
<http://www.ecw.org/university/>

**Sponsor:** Energy Center of Wisconsin  
**Sponsor Type:** Nonprofit

### **Custom Incentive Program**

Incentives may be available for energy efficiency projects not explicitly included in the Your Energy Savings Program. Contact the utility for preapproval. Custom incentives are paid at \$0.08 per kWh or \$4 per MCF of the first year energy savings. The payback period has to be between one and eight years, and the total calculated incentives cannot exceed 50% of the measured cost.

**For More Information:**  
<http://www.dteenergy.com/business-Customers/saveEnergy/rebates/custom.html>

**Sponsor:** DTE Energy  
**Sponsor Type:** Utility

### **Custom Measures Rebate**

The utility offers an opportunity to be compensated for any qualifying measures that reduce natural gas and/or electricity usage. The incentive amount is \$0.08 per kWh saved or \$4.00 per MCF. There is a maximum of \$200,000 per facility per year for custom incentives.

**For More Information:**  
<http://www.consumersenergy.com/ee-programs/content.aspx?ID=756>

**Sponsor:** Consumers Energy  
**Sponsor Type:** Utility

## Economic Development

This utility offers businesses technical services, such as power quality services, energy conservation financing, and new construction technical assistance.

**For More Information:**

<http://www.wppienergy.org/economicdevelopment>

**Sponsor:** Wisconsin Public Power

**Sponsor Type:** Other

## Education and Services

Michigan Energy Options is a nonprofit organization that implements energy efficiency education and service programs throughout the state of Michigan. Programs range from educational materials to free energy assessments.

**For More Information:**

<http://www.michiganenergyoptions.org/>

**Sponsor:** Michigan Energy Options

**Sponsor Type:** Nonprofit

## Energy Assessments

No-cost energy assessments are available for small- to mid-sized manufacturing plants. Those conducting the assessments offer recommendations on how to use energy more effectively.

**For More Information:**

<http://www.mmtc.org/>

**Sponsor:** Michigan Manufacturing Technology Center

**Sponsor Type:** Other

## Energy Audits

The cooperative offers free energy audits to businesses in order to help reduce energy costs.

**For More Information:**

[http://www.tecmi.coop/?page\\_id=4](http://www.tecmi.coop/?page_id=4)

**Sponsor:** Thumb Electric Cooperative

**Sponsor Type:** Utility

## Energy Efficiency Directory

This utility offers an Energy Efficiency Directory, allowing industrial customers to look for energy efficiency products and services in the customer's county.

**For More Information:**

<https://www.dteenergy.com/eed/directorySearch.faces>

**Sponsor:** DTE Energy

**Sponsor Type:** Utility

## Energy Efficiency Grant Program

The Low-Income and Energy Efficiency Fund provides periodic grants to support the implementation of energy efficiency and renewable energy projects in the state. Restrictions are specific to individual Requests for Proposals.

**For More Information:**

<http://www.michigan.gov/mpsc/0,1607,7-159-52493---,00.html>

**Sponsor:** Michigan Public Service Commission

**Sponsor Type:** State

## Energy Efficiency Library

This online library houses more than 6,500 resources on energy efficiency for commercial and industrial managers.

**For More Information:**

<http://www.ecw.org/library.php>

**Sponsor:** Energy Center of Wisconsin

**Sponsor Type:** Nonprofit

## Energy Information

The organization offers education, training, and outreach to its members.

**For More Information:**

[http://www.michigan.gov/dleg/0,1607,7-154-25676\\_25774-119767--,00.html](http://www.michigan.gov/dleg/0,1607,7-154-25676_25774-119767--,00.html)

**Sponsor:** Michigan Manufacturers Association

**Sponsor Type:** Other

## Energy Services

Seminole Energy Services offers businesses services, such as peak shaving, load management, energy audits, and consulting services.

**For More Information:**

<http://www.seminoleenergy.com/services.commercial.aspx#services>

**Sponsor:** Seminole Energy Services

**Sponsor Type:** Other

## Industrial Technology Fact Sheets

These fact sheets on energy efficiency are available for industrial managers.

**For More Information:**

<http://www.ecw.org/projectdetail.php?projectid=78>

**Sponsor:** Energy Center of Wisconsin

**Sponsor Type:** Nonprofit

## Key Account Executives

SEMCO Energy has a team of trained account executives that specialize in maximizing a customer's energy efficiency decisions. Account managers can assist customers by identifying potential sites for new facilities and providing information on equipment vendors and the latest equipment, as well as assisting with energy-management issues.

**For More Information:**

<http://www.semcoenergygas.com/Business/accexec.php>

**Sponsor:** SEMCO Energy

**Sponsor Type:** Utility

## Michigan Saves

The program finances the installation of energy efficiency and renewable energy upgrades with no upfront cost to utility customers.

**For More Information:**

<http://www.michigansaves.org/>

**Sponsor:** Public Sector Consultants

**Sponsor Type:** Other

## Pollution Prevention Program

The program provides pollution prevention technical assistance to manufacturers in the automotive, chemical, metal finishing, and pulp and paper industry sectors.

**For More Information:**

<http://www.michigan.gov/deqp2>

**Sponsor:** Michigan Department of Environmental Quality

**Sponsor Type:** State

## Professional Development Center

PDC services include lean manufacturing/production, project management, and consulting in a variety of areas.

**For More Information:**

<http://ltu.edu/pdc/>

**Sponsor:** Lawrence Technological University

**Sponsor Type:** Other

## Programs for Businesses

The utility offers business assistance programs, such as manufacturing assessment assistance, quality certification assistance, and business development assistance.

**For More Information:** [http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company

**Sponsor Type:** Utility

## Prototype Development Center

The program provides services that help small businesses compete in a global economy and enhance economic growth, including manufacturing process optimization, assessments, and continuous improvement activities.

**For More Information:**

<http://www.lssu.edu/eng/pdc/>

**Sponsor:** Lake Superior State University

**Sponsor Type:** Other

## Rebate Program

Rebates are available on qualified energy efficient items, such as high-efficiency boilers and furnaces. Both prescriptive and custom rebates are available.

**For More Information:**

[http://www.uppco.com/business/mi\\_rebates.aspx](http://www.uppco.com/business/mi_rebates.aspx)

**Sponsor:** Upper Peninsula Power Company

**Sponsor Type:** Utility

## Retired Engineer Technical Assistance Program

Businesses with 500 or fewer employees are eligible for no-cost pollution prevention and energy efficiency assessments conducted by teams of retired engineers.

**For More Information:**

<http://www.michigan.gov/deqretap>

**Sponsor:** Michigan Department of Energy, Labor, & Economic Growth

**Sponsor Type:** State

## Savings Calculators

The Savings Calculators will help customers pick out energy efficient appliances and calculate the estimated savings.

**For More Information:**

[http://www.uppco.com/business/saving\\_calculator.aspx](http://www.uppco.com/business/saving_calculator.aspx)

**Sponsor:** Upper Peninsula Power Company

**Sponsor Type:** Utility

## Small Business Pollution Prevention Loan Program

Loans of up to \$400,000 at an interest rate of 5% or less are available to existing, independently-owned businesses with 500 or fewer full-time employees. Projects must either eliminate or reduce waste at the business location (source reduction), result in environmentally sound reuse and recycling of an applicant's generated wastes,

conserve energy or water onsite, or be classified as a qualified agricultural energy-production system.

**For More Information:**

<http://www.michigan.gov/deqp2loan>

**Sponsor:** Michigan Department of Environmental Quality

**Sponsor Type:** State

## State Energy Program

The program provides energy audits to small industrial operations and will offer financial assistance to those businesses wanting to implement measures discovered during the course of the audit.

**For More Information:**

<http://www.michigan.gov/energyoffice>

**Sponsor:** Michigan Department of Energy, Labor, & Economic Growth

**Sponsor Type:** State

## Technology Commercialization Program

The program provides a portal to technologies, resources, and faculty expertise. Interactions with industry include faculty consultants, industry-sponsored research, collaborative academic/industry/government research partnerships, and access of industry to state-of-the-art facilities.

**For More Information:**

<http://www.techtransfer.wayne.edu/industry/index.php>

**Sponsor:** Wayne State University

**Sponsor Type:** Other



## End Notes

- <sup>1</sup> U.S. Department of Energy, Industrial Technologies Program, “Save Energy Now State Partnerships: ITP Activities in Michigan,” Accessed October 18, 2010. [http://www1.eere.energy.gov/industry/states/state\\_activities/map\\_new.asp?stid=MI](http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=MI).
- <sup>2</sup> U.S. Energy Information Administration, “State/Territory Energy Profiles,” Accessed October 18, 2010. [http://tonto.eia.doe.gov/state/state\\_energy\\_profiles.cfm?sid=MI](http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=MI).
- <sup>3</sup> U.S. Energy Information Administration, “State/Territory Energy Profiles,” Accessed October 18, 2010. [http://tonto.eia.doe.gov/state/state\\_energy\\_profiles.cfm?sid=MI](http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=MI).

**EERE Information Center**

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

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

U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy