

## Industrial and Commercial Energy Resources

If you provide energy assessment and conservation services to Arkansas industrial and commercial establishments, please email [ebrown@1800arkansas.com](mailto:ebrown@1800arkansas.com) and we will be happy to include contact information about you in this "Industrial and Commercial Energy Resource" guide. Industry has expressed strong interest in these services. Of particular interest are: load management, peak shaving, energy audits, cogeneration potential, waste energy recovery, lighting retrofits, process energy optimization and pollution prevention measures.

### Utilities and Cooperatives:

The entities listed below provide energy optimization assistance to their industrial customers and others who might become a customer under a deregulated environment. These services are provided by staff personnel and by arrangements with consultants.

Arkansas Electric Cooperative Corporation  
8000 Scott Hamilton Drive, P. O. Box 194208  
Little Rock, AR 72219-4208

Web: [www.aecc.com](http://www.aecc.com)

\* Provides services in all member cooperatives to customers.

Phone: (501) 570-2200

Contact: Doug White

Arkansas Valley Electric Cooperative Corporation  
Highway 64 West, P.O. Box 47  
Ozark, AR 72949-0047

Web: [www.avecc.com](http://www.avecc.com)

Phone: (501) 667-2176

Contact: Bill Rue

Carroll Electric Cooperative Corporation  
920 Highway 62 Spur, Box 4000  
Berryville, AR 72616-4000

Web: [www.carrollecc.com](http://www.carrollecc.com)

Phone: (870) 423-2161

Contact: James Sanders

Craighead Electric Cooperative Corporation  
4314 Stadium Boulevard, P.O. Box 7503  
Jonesboro, AR 72403-7503

Web: [www.cecc-ark.com](http://www.cecc-ark.com)

Phone: (870) 932-8301

Contact: Brian Duncan

Entergy Corporation, Inc.  
425 West Capitol Avenue, P.O. Box 551  
Little Rock, AR 72203

Web: [www.entergyarkansas.com](http://www.entergyarkansas.com)

Phone: (501) 377-4089

Contact: Jubal Smith

First Electric Cooperative Corporation  
901 North First Street, P.O. Box 5018  
Jacksonville, AR 72078-5018

Web: [www.fecc.com](http://www.fecc.com)

Phone: (501) 982-4545

Contact: Neal Frizzell

Ozarks Electric Cooperative Corporation  
3641 Wedington Drive, P.O. Box 848  
Fayetteville, AR 72702-0848  
Web: [www.ozarksecc.com](http://www.ozarksecc.com)

Phone: (501) 521-2900  
Contact: Keith Kaderly

Rich Mountain Electric Cooperative, Inc.  
1003 Mena Street, P.O. Box 897  
Mena, AR 71953-0897  
Web: [www.rmec.com](http://www.rmec.com)

Phone: (501) 394-4140  
Contact: Rod Titsworth

South Central Arkansas Electric Cooperative, Inc.  
1140 Main Street, P.O. Box 476  
Arkadelphia, AR 71923-0475  
Web: [www.scaec.com](http://www.scaec.com)

Phone: (870) 246-6701  
Contact: Chuck Burrow

Southwestern Electric Power Company (AEP – SWEPCO)  
101 W. Township  
Fayetteville, AR 72703  
Web: [www.swepcogridsmart.com/arkansas/](http://www.swepcogridsmart.com/arkansas/)

Phone: (479) 973-2417  
Contact: Mark Mobley

Southwest Arkansas Electric Cooperative Corporation  
2904 East Ninth Street, P.O. Box 1807  
Texarkana, AR 75504-1807  
Web: [www.swrea.com](http://www.swrea.com)

Phone: (870) 772-2743  
Contact: George Wall

Woodruff Electric Cooperative Corporation  
Highway 1 North, P.O. Box 1619  
Forrest City, AR 72336-1619  
Web: [www.woodruffelectric.com](http://www.woodruffelectric.com)

Phone: (870) 633-2262  
Contact: Carl Horton

### **Consultant Engineers:**

These private consulting firms provide a range of services that address various aspects of energy generation, optimization and use.

The Batson Bravo Engineers, PA  
1300 Brookwood Drive, Suite B  
Little Rock, AR 72202  
Email: [bravo@batson.com](mailto:bravo@batson.com) Rick Geraci  
Web: [www.batson.com](http://www.batson.com)

Phone: (501) 664-3311  
Contact: Charles D. Batson

B&F Engineering, Inc.  
928 Airport Road  
Hot Springs, AR 71913  
Email: [SharonT@bnfeng.com](mailto:SharonT@bnfeng.com)  
Web: [www.bnfeng.com](http://www.bnfeng.com)

Phone: (501) 767-2366  
Contact: Gary Ryles

Crist Engineers, Inc  
1405 North Pierce Street, Suite. 301  
Little Rock, AR 72207-5357  
Email: [info@crisengineers.com](mailto:info@crisengineers.com)  
Web: [www.crisengineers.com](http://www.crisengineers.com)

Phone: (501) 664-1552  
Contact: Richard Zelnick

The Fleming Companies  
212 McClanahan  
Bryant, AR 72089  
Email: [derhoads@fleminc.com](mailto:derhoads@fleminc.com)  
Web: [www.fleminc.com](http://www.fleminc.com)

Phone: (501) 847-3090  
Contact: David Rhoads

Industrial Engineering Associates, Inc.  
P.O. Box 94561  
North Little Rock, AR 72190

Phone: (501) 758-1171  
Contact: Bill Denton

Lisco Engineering  
674 Sexton Creek Road South  
Heber Springs, AR 72543  
Email: [del@arkansas.net](mailto:del@arkansas.net)

Phone: (501) 250-0535  
Contact: David Lesinbee

M&M Environmental Services  
303 South 16<sup>th</sup> Street  
Fort Smith, AR 72901

Phone: (479) 785- 5114  
Contact: Bill Matthews

Pack Engineering, Inc.  
425 West Capitol Avenue, Suite 325  
Little Rock, AR 72201-3401  
Email: [packeng@aristotle.net](mailto:packeng@aristotle.net)

Phone: (501) 372-6968  
Contact: Robert Pack

Partners – Memphis  
P.O. Box 6363  
Pearl, MS 39288

Phone: (901) 409-3588  
Contact: George Walker

Pettit & Pettit Consulting Engineers, Inc.  
Heritage West Building, Suite 400  
201 East Markham Street  
Little Rock, AR 72201-1642  
Email: [pettit@pettitinc.com](mailto:pettit@pettitinc.com)

Phone: (501) 374-3731  
Contact: Sam D. Cummings, Jr.

Poague & Associates  
1031 Fayetteville Road, Suite 205  
Van Buren, AR 72956  
Email: [customerservice@poague.com](mailto:customerservice@poague.com)  
Web: [www.poague.com](http://www.poague.com)

Phone: (479) 414-3982  
Contact: Jerry Poague

Thermasearch, Inc.  
150 Toad Suck Road  
Conway, AR 72032  
Email: [loadsack@arkansas.net](mailto:loadsack@arkansas.net)

Phone: (501) 329-7972  
Contact: Michael Sharlon

T L Services, Inc  
4733 Kibler Road  
Van Buren, AR 72956  
Email: [tlooper@tlservices.com](mailto:tlooper@tlservices.com)  
Web: [www.tlservices.com](http://www.tlservices.com)

Phone: (479) 474-7222  
Contact: Terry Looper

TME, Inc.  
5800 Evergreen Drive, Suite A  
Little Rock, AR. 72205-1757  
Email: [tme@tmecorp.com](mailto:tme@tmecorp.com)  
Web: [www.tmecorp.com](http://www.tmecorp.com)

Phone: (501) 666-6776  
Contact: Alan Hope

### **General Resources**

The following are valuable resources to assist in your optimization and conservation of energy use in your facilities and processes.

Edison Electric Institute  
Phone: (202) 508-5000  
Fax: (202) 508-5335  
Web: [www.eei.org](http://www.eei.org)

The institutes' Web pages contain recommendations for building and equipment efficiency.

Leonardo Academy  
Phone: (608) 280-0255  
Fax: (608) 255-7202  
Web: [www.leonardoacademy.org](http://www.leonardoacademy.org)

This non-profit organization will help you find the information and tools you need to increase efficiency of your facility.

National Association of Manufacturers (NAM)  
Phone: (202) 637-3000  
Fax: (202) 637-3182  
Web: [www.nam.org](http://www.nam.org)

The NAM's seeks to increase the competitiveness of manufacturers and to improve American living standards by promoting legislation conducive to economic growth, and educating the public about the importance of manufacturing to the economy.

Manufacturing Extension Partnership  
National Institute of Standards and Technology

Web: [www.mep.nist.gov/](http://www.mep.nist.gov/)

The MEP is a nationwide network of resources that supports greater supply chain integration and provides access to technology for improved productivity.

Arkansas Manufacturing Solutions

Web: [www.mfgsolutions.org/](http://www.mfgsolutions.org/)

The Arkansas Manufacturing Solutions is a part of the Manufacturing Extension Partnership. The AMS has helped hundreds of Arkansas manufacturers to increase sales and profits by cutting costs and improving manufacturing processes. AMS provides technical and management assistance.

The Manufacturing Extension Partnership (MEP)

Phone: (800) MEP-4MFG or 637-4634

Web: [www.mep.nist.gov](http://www.mep.nist.gov)

The national network of not-for-profit centers advises small and medium manufacturers on energy efficiency and provides links to local resources and energy experts.

U.S. Department of Energy (DOE), Office of Industrial Technologies

Phone: (202) 586-7547

Fax: (202) 586-9233

Web: [www.oit.doe.gov](http://www.oit.doe.gov)

DOE has many programs and resources on energy efficiency improvements.

### **Outsourcing Efficiency Improvements**

If you want to outsource your project from beginning to end, consider using an energy savings performance contractor who is willing to develop, implement and guarantee the performance of energy efficiency improvement projects. Many equipment manufacturers, utilities, engineering firms and other companies have formed units that provide these services.

Energy Services Coalition (ESC)

1526 Chandler Street

Madison, WI 53711

Contact: Michael Army, Executive Director, (608) 280-0255

E-mail: [michaelarmy@escperform.org](mailto:michaelarmy@escperform.org)

Web: [www.escperform.org](http://www.escperform.org)

The coalition is comprised of representatives of energy-service companies (ESCOs), facility owners, finance companies and state energy offices. Its Web site includes a guide to using energy-service companies and a listing of ESCOs serving each state.

Johnson Controls  
10801 Executive Center Dr.  
Little Rock, AR 72211  
Contact: Melanie Hayes, (501) 537-2741  
E-Mail: [Melanie.A.Cranford@jci.com](mailto:Melanie.A.Cranford@jci.com)  
Web: [www.jci.com](http://www.jci.com)

National Association of Energy Service Companies (NAESCO)  
1615 M Street, NW, Suite 800  
Washington, DC 20036  
Contact: Mary Lee Berger-Hughes, (202) 822-0954, Fax: (202) 822-0955  
Web: [www.naesco.org](http://www.naesco.org)  
NAESCO promotes the delivery of energy efficiency and other energy services by energy service companies (ESCOs).

TL Services, Inc.  
P. O. Box 1672  
Van Buren, AR 72957  
Contact: Terry L. Looper  
Phone: 479-474-7222  
Email: [tlooper@tlservices.com](mailto:tlooper@tlservices.com)  
Web: [www.tlservices.com](http://www.tlservices.com)

TL Services, Inc.  
P. O. Box 832  
Little Rock, AR 72203  
Phone: 501-399-9599  
Web: [www.tlservices.com](http://www.tlservices.com)

Trane  
1501 Westpark Dr., Suite 9  
Little Rock, AR 72204  
Contact: Teri Borton  
Phone: 501-661-0621  
Email: [tborton@trane.com](mailto:tborton@trane.com)  
Web: [www.tranearkansas.com](http://www.tranearkansas.com)

UtiliTech  
P.O. Box 241522  
Little Rock, AR 72223  
Contact: Bob Joblin, (501) 868-6400, Fax: (501) 868-6444  
E-Mail: [energygroup@att.net](mailto:energygroup@att.net)  
Web: [www.utilitech.com](http://www.utilitech.com)

## 1. MOTOR & MOTOR-DRIVEN SYSTEM EFFICIENCY

### U.S. Department of Energy's Office of Industrial Technology (OIT)

U.S. Department of Energy  
Industrial Technologies Program, EE-2F  
1000 Independence Ave, SW  
Washington, DC 20585  
Contact: Buddy Garland, (202) 586-7547

Web: [www.oit.doe.gov/bestpractices](http://www.oit.doe.gov/bestpractices)

The OIT will work with you to improve your systems – motors, steam, compressed air, combined heat and power and process heat – plant wide. You can also obtain free, readily available software at [www1.eere.energy.gov/industry/bestpractices/software.html](http://www1.eere.energy.gov/industry/bestpractices/software.html)

The software can help you evaluate and select the most efficient equipment and systems available within your cost range.

- MotorMaster+3.0 (MM+3.0)

An energy-efficient motor-selection and management tool, this software includes a catalog of more than 20,000 AC motors and features motor inventory management tools, maintenance-log tracking, efficiency analysis, savings evaluation, energy accounting and environmental reporting capabilities.

- Pump System Assessment Tool (PSAT)

The Pump System Assessment Tool helps assess the efficiency of pumping system operations. PSAT uses achievable pump-performance data from Hydraulic Institute standards and motor performance data from the MM+3.0 database to calculate potential energy and associated cost savings.

- Decision Tools for Industry CD

The Decision Tools for Industry CD contains both the MM+3.0 and PSAT software packages. In addition, it includes MM+3.0 training that walks you through the fundamentals and the advanced features of the program, providing examples for using the software to make motor purchasing decisions. The CD can be ordered on the OIT Web site, via e-mail at [clearinghouse@ee.doe.gov](mailto:clearinghouse@ee.doe.gov) or by calling (800) 862-2086.

### **Bonneville Power Administration (BPA)**

Web: [www.bpa.gov/Energy/N/projects/industrial/audit/index.cfm](http://www.bpa.gov/Energy/N/projects/industrial/audit/index.cfm)

Industrial Audit Guide and Adjustable Speed Drive Calculator

- The Industrial Audit Guidebook introduces the technical and non-technical user to common opportunities that may be found in an industrial facility to reduce electrical energy consumption.
- The Adjustable Speed Drive (ASD) calculator is a software program that provides the user with an easy to use tool for estimating the energy savings and simple payback for Adjustable Speed Drive installations on fans and pumps.

### **The Energy Solutions Center (ESC)**

Web: [www.energysolutionscenter.org](http://www.energysolutionscenter.org)

This non-profit center promotes the use of new gas-fueled technologies that increase manufacturing productivity and competitiveness. The Center's success is based on the establishment of a market-driven consortium of energy companies, equipment vendors and industrial end users that finance technology demonstrations and produce marketentry support materials.

## **2. LIGHTING SYSTEM UPGRADES**

### **International Association for Energy Efficient Lighting**

Web: [www.iaeel.org/](http://www.iaeel.org/)

This association is an information resource for high-quality, energy-efficient lighting. Access all issues of the IAEEEL newsletter, visit the "Lighting Crossroads" resource index and check out "Lighting and Energy Meetings & Events."

### **ENERGY STAR Certified Buildings**

1200 Pennsylvania Avenue NW

Washington D.C. 20460

Phone: (888) STAR YES or 782-7937

Web: [www.energystar.gov/index.cfm?c=business.bus\\_index](http://www.energystar.gov/index.cfm?c=business.bus_index)

Using Energy Star's Energy Management Strategy, companies and organizations can develop and implement their own energy strategy and gain recognition as Energy Star certified.

### **U.S. EPA ENERGY STAR Labeled Products**

Phone: (888) STAR YES or 782-7937

Web: [www.energystar.gov/products](http://www.energystar.gov/products)

The Energy Star Web site includes product lists for lighting and store locators.

### **Lighting Research Center**

Web: [www.lrc.rpi.edu](http://www.lrc.rpi.edu)

The center maintains the National Lighting Product Information Program (NLPIP), a source of manufacturer-specific performance information on efficient lighting products.

## **3. HAVC & BUILDING SHELL IMPROVEMENTS**

### **U.S. Department of Energy (DOE)**

Web: [www.doe.gov](http://www.doe.gov)

BestPractices, an initiative of the Department of Energy's Office of Industrial Technologies, offers software tools to improve your plant's energy efficiency, enhance its environmental performance and increase its productivity. 3E Plus, a free product offered by DOE ([www1.eere.energy.gov/industry/bestpractices/software.html](http://www1.eere.energy.gov/industry/bestpractices/software.html)) helps determine whether boiler systems can be optimized through the insulation of boiler steam lines.

### **Office of Building, State And Community Programs (DOE)**

Web: [www.eere.energy.gov/buildings/tools\\_directory/](http://www.eere.energy.gov/buildings/tools_directory/)

This resource describes 317 energy-related software tools for buildings with an emphasis on using renewable energy and achieving energy efficiency in buildings.

### **North American Insulation Manufacturers Association (NAIMA)**

Phone: (703) 684-0084

Web: <http://naima.org>

NAIMA has developed 3E Plus, software that calculates how much money can be saved and how much greenhouse gas can be prevented by insulating pipes, boilers, storage vessels and ducts. The calculations are based on energy, labor and insulation costs. Many insulation upgrades can have paybacks in less than one year. The 3E Plus program can be used by your own plant manager or certified appraiser.

To download the free 3E Plus program: [www.pipeinsulation.org](http://www.pipeinsulation.org)

### **Efficient Windows Collaborative (EWC)**

Web: [www.efficientwindows.org](http://www.efficientwindows.org)

This resource provides information on the benefits of energy-efficient windows, descriptions of how they work, and recommendations for their selection and use. Developed with the support of the U.S. Department of Energy's Windows and Glazings Program and the participation of industry members.

#### 4. CAPTURING THE BENEFITS OF UTILITY COMPETITION

Use energy and utility bill tracking software to track your company's energy consumption and savings. There are a number of commercial software products available. Visit the Leonardo Academy Web site for current list of providers:

[www.leonardoacademy.org/efficiencyresources/energytracking.htm](http://www.leonardoacademy.org/efficiencyresources/energytracking.htm)

Private energy procurement companies, such as American PowerNet ([www.americanpowernet.com](http://www.americanpowernet.com)) or Aquila ([www.aquila.com/](http://www.aquila.com/))

can help you build energy efficiency into your strategy for reducing utility costs and deal with uncertainty of energy supply. Energy service companies (ESCOs) are also a good resource to use when seeking assistance with energy procurement.

#### 5. COMMUNICATING EFFICIENCY ACHIEVEMENTS

##### Certification Programs

##### The Cleaner and Greener Certification Program

Phone: (608) 280-0256

This whole company certification helps business communicate their energy efficiency and environmental achievements to their customers. [www.cleanerandgreener.org](http://www.cleanerandgreener.org)

##### ISO Easy and ISO Online

These organizations provide guidance for ISO certification.

[www.isoeasy.org](http://www.isoeasy.org)

[www.iso.ch](http://www.iso.ch)

- ISO 9000  
ISO 9000 standards are management-system standards developed by the International Organization for Standardization (ISO) that state requirements for what an organization must do to manage the processes influencing quality. The standardized definition of "quality" in ISO 9000 addresses all those features of a product (or service) that are required by the customer. "Quality management" in ISO 9000 is defined by the management processes companies have in place to ensure that its products conform to the customer's requirements.
- ISO 14000  
Like ISO 9000, ISO 14000 is a set of management-system standards developed by ISO that state requirements for what an organization must do to manage the processes influencing the impact of the organization's activities on the environment. "Environmental management" in ISO 14000 is defined by the management processes organizations have in place to minimize harmful effects on the environment caused by its activities.

## **Recognition Programs**

### **U.S. EPA Energy Star**

Phone: (888) STAR YES or (888) 782-7937

Web: [www.energystar.gov](http://www.energystar.gov)

In return for committing to upgrade their buildings to become more energy efficient, Energy Star Buildings Partners receive access to services, information, tools and resources from the EPA. Visit [www.energystar.gov/index.cfm?c=partners.pt\\_index](http://www.energystar.gov/index.cfm?c=partners.pt_index) to see how these partnership benefits add even more value to energy-efficiency improvements.

### **The Manufacturing Institute**

Phone: (202) 637-3000

E-mail: [mfg.inst@nam.org](mailto:mfg.inst@nam.org)

Web: [www.nam.org/institute](http://www.nam.org/institute)

Contact the institute for information and resources on planning an Earth Day program at your plant, showing how your company is improving the air, water and land.

### **Climate Challenge**

Phone: (202) 586-2588

Web: [www.climatevision.gov/climate\\_challenge/climatechallenge.html](http://www.climatevision.gov/climate_challenge/climatechallenge.html)

Climate Challenge is a DOE recognition program for utilities aimed at reducing greenhouse gases.

## **6. IMPLEMENTING WATER-USE REDUCTION EQUIPMENT & PRACTICES**

### **Watergy**

Web: [www.watergy.org/](http://www.watergy.org/)

Watergy provides tools for potential water conservation opportunities and illustrates the energy savings that result from these activities. Reducing water use decreases the energy needed to pump water from its source. Reducing hot water use reduces the energy needed for heating water.

## **7. ENERGY SAVINGS THROUGH INTERNET USE**

### **Metro Atlanta Telecommuting Advisory Council (MATAC)**

Phone: 770-632-9996

Web: [www.matac.org](http://www.matac.org)

Click on "telecommuting" for ideas and techniques that companies can use to develop successful telecommuting programs.

**Telework**

Oregon Office of Energy, Telework Resources

625 Marion Street, NE

Salem, OR 97310

Phone: (503) 378-4040

Web: <http://egov.oregon.gov/ENERGY/TRANS/Telework/intro.shtml>

A complete guide for setting up a telecommuting program at your business.

**8. COMPREHENSIVE FACILITY ENERGY MANAGEMENT**

For information on how to implement comprehensive facility energy and environmental management, consult the information resources listed above the general information outsourcing and for each of the eight specific areas of action.

**The U.S. Green Building Council**

US Green Building Council

1015 18th Street, NW, Suite 805

Washington, DC 20036

Phone: (202) 82-USGBC or 828-7422

Web: [www.usgbc.org](http://www.usgbc.org)

The council is a non-profit organization that encourages the design and construction of environmentally friendly and energy efficient buildings. Members have access to a clearinghouse of emerging trends, policies and products. The council sponsors the LEED Green Building Rating System, a voluntary, consensus-based, market-driven building rating system based on existing, proven technology. A number of resources are available on the Web site, including LEED Green Building Rating System software.