



PARTNER NEWS

► COMMUNITY PARTNERSHIP UPDATE ◀

Rebuild Michigan is designed to foster partnerships, which will promote increased energy efficiency and renewable energy use within communities. The program focuses on community-based energy planning to insure that local needs are met and that a sustained local effort is established.

Community partnerships develop comprehensive energy use strategies and organize a coalition to work towards fulfilling community energy goals.

The partnerships identify energy efficiency opportunities in commercial, institutional and multi-family buildings and encourage installation of improvements that will yield the highest energy and cost savings.

MICHIGAN DEPARTMENT OF
ENERGY, LABOR &
ECONOMIC GROWTH
BUREAU OF ENERGY SYSTEMS

611 W. OTTAWA
P.O. Box 30221
LANSING, MI 48909

PHONE: 517-241-6228

WEBSITE:
WWW.MICHIGAN.GOV/
EOREBUILD

Michigan Energy Options (MEO):

As part of the Technical Coordinator Grant Michigan Energy Options evaluated energy use patterns for four Lansing area churches. These Introductory Energy Evaluations (IEEs) include a utility bill analysis, Energy Star benchmarking, if applicable, a report with recommendations for appropriate energy efficiency measures and a project planning session. Now, all four of the churches are implementing projects based on the MEO recommendations and as facility budgets allow.

Warm Training Center (WTC):

In conjunction with their Technical Coordinator's grant, trained WTC auditors have been evaluating energy use patterns for two educational institutions in Southeast MI. The River Rouge and Garden City Public Schools are expecting to receive IEE reports that have identified their sources of energy loss and potential for savings. Recommendations for retrofit measures and maintenance changes will be discussed in project planning sessions soon.

Delta Institute:

With many leads and contacts being explored, a West Michigan High School complex having a total of nearly 200,000 square feet was the first to be visited by Delta Institute. They provided a full energy use analysis. Many potential savings were identified for the school which could end up providing significant savings for their annual heating, cooling and electrical use budget.

Mecosta County:

Through the Partnership with Ferris State five new building owners enrolled in the Rebuild MI program. All buildings received a walk through energy audit as well as an IEE report. Total square footage of audited buildings was 250,636 sq Ft.

North East Michigan Council of Governments (NEMCOG):

Has enrolled a total audited footage of 322,636 sq ft as part of the Rebuild MI program. This includes eight buildings that received energy audits, IEE reports and follow up meetings.

► REBUILD MICHIGAN PARTNER UPDATE ◀

Since January 2009 the Rebuild Michigan Program has enrolled 60 new public agency partners. The table to the right lists the most recent program partners and the square footage they have committed to energy improvements. The Rebuild MI team completed Introductory Energy Evaluations (IEEs) for these clients identifying the areas where energy use can be reduced and recommending a more detailed technical energy analysis if appropriate.

To view the complete list of new clients please go to www.michigan.gov/eorebuild and click on Rebuild MI Energy Services.

Since January, 1998, 629 school districts, colleges & universities, local governments, and public housing authorities have joined the Rebuild Michigan program. Enrolled partners have pledged more than **119,027,446** square feet to energy efficiency projects.

Public building owners that are seeking help in reducing their energy use through cost effective improvements may contact Tim Shireman at (517) 241-6281 or at shiremant@michigan.gov.

Public Agency	Enrolled Sq. Footage
Grand Haven Charter Township	46,929
City of Southgate	207,774
Isabella County	189,195
Groveland Township	33,000
Village of Ovid	27,198
City of Jackson	169,900
Fenton Charter Township	20,000
City of Linden	14,500
Kalamazoo County Road Commission	90,960

► THE OLD HOG ◀

Replacing Your Ancient, Inefficient, Energy Hog Boiler:

Replacing your old boiler is an investment you won't regret. New, high-efficiency boilers save not only energy and money on your utility bill for many years, but space as well!

Older boilers typically have an efficiency rate between 55% and 65% (ex: steam loss). In some cases, almost half the energy is lost! Many states are now demanding an Annual Fuel Utilization Efficiency (AFUE) of at least 80%. This is significantly higher than the efficiency of our older boilers, but much less when compared to the efficiency of modern boilers, which run at an efficiency of 90%+. They even make 100% efficient boilers, which are electric, but these are typically used for small and sporadic needs/applications.

When replacing a boiler it is important to look at other key factors that may affect the size of the boiler you are replacing. For example, many older boilers are housed in buildings with ineffective insulation or none at all. A well-insulated home or building will require a smaller unit, thus saving you equipment cost and floor space. So whether your trying to cut energy usage or save money, it just makes more sense to align projects with one another so you can get the greatest return on investment possible.

► THE OLD HOG REPLACEMENTS ◀

There is a wide variety of boiler replacement options. Listed below are some of your options:

- High Efficiency or Condensing Boiler: Gas or oil fueled. Relatively large energy savings when compared to conventional boilers.
- Modern Pellet-Wood Boiler: Use microprocessors to control the amount of fuel and air being supplied ensuring high efficiencies (Typically 90-96%)
- Solar Powered Systems: Water heated by the sun. There are five designs, the batch system being the oldest.
- Geothermal Heat Pumps: Two main types air-source and geothermal
- Electric Boilers: Used primarily for smaller more sporadic applications.



► ENERGY SAVINGS TIPS ◀

Water Conservation

Tip:

- 1) Fix leaks. Even small leaks can add up, the more water you save the more energy and money.
- 2) Use water saving faucets, shower heads and urinals
- 3) Place an insulation blanket around boilers older than 7 years. Also, insulate the first 3' of outgoing pipe on both old and new units.
- 4) Always buy the most efficient boiler possible. In smaller applications consider tankless water heaters

► FEATURED PUBLICATIONS ◀

What's So Cool About Cool Roofs

Defining a cool roof, its benefits and the programs that sponsor them

continuingeducation.construction.com

Purchasing & Procurement: Commercial Appliances

An excellent resource for available commercial appliances. Offers background information & case studies.

www.energystar.gov

Induction Lighting: An Old Technology Made New Again

Insight on Induction lighting

www.energy.gov

Publications are available on the DeLEG Bureau of Energy Systems *Publications* page at www.michigan.gov/energyoffice or from the above URLs.

If you would like to cancel your subscription of the newsletter, please email Eric Costa at costae@michigan.gov

MI DEPT. OF ENERGY,
LABOR & ECONOMIC GROWTH
BUREAU OF ENERGY SYSTEMS
611 WEST OTTAWA AVE.
P.O. BOX 30221

► ENERGY EVENTS ◀

The Great Lakes Wind Collaborative 3rd Annual Meeting

Sept 20 & 21, 2010

Cleveland, Ohio
Contact Becky Pearson
bpearson@glc.org

Association of Energy Engineers CEM Course and Exam

Oct 25th—29th, 2010

Detroit, MI
www.aeeprograms.com

Michigan Energy Conference

April 11th & 12th, 2011

Ferris State University
www.ferris.edu

Green Growth Conference & Expo

October 13 and 14, 2010

Grand Rapids, MI
Questions: powersn@rightplace.org

GreenTown and Future Cities: Climate

Sept 9th & 10th, 2010

Grand Rapids, MI
www.greentownconference.com

Advertise your future energy efficient events with the Rebuild Michigan Partner Newsletter!

*If your school district, community, or local facilities are hosting an energy event and you would like to advertise your event, email your requests to **Eric Costa** at costae@michigan.gov and see your area's event in the next Rebuild MI Partner News.