Rebuild Michigan

July 2009

Partner News

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

▶ Community Partnership Update ◀

Lake Superior State University (LSSU) completed an Introductory Energy Evaluation (IEE) report for Sault Ste Marie Public Schools (PS); completed an analysis and walk through for an IEE report for Bayliss Public Library, also in SSM, MI. For more information on LSSU, contact Greg Zimmerman at gzimmerman@lssu.edu

Northern Options held six energy education sessions during the spring Michigan Library Conference in Traverse City, MI. They plan to offer Rebuild Michigan services to libraries in the Upper and Northern Lower peninsulas. In addition, a seminar on energy efficient lighting was delivered at the Baraga "Business After Hours" meeting, and other similar seminars were conducted in St. Ignace and Marquette. The organization has met with several UP energy utilities to develop and schedule additional Rebuild Michigan energy seminars. For more information on Northern Options contact T.J. Brown at tjbrown@northernoptions.org

Urban Options worked with Lansing Board of Water & Light to plan and schedule several energy workshops. In addition, they will be conducting seminars in cooperation with the Go Green, Go Lansing initiative. Urban Options will also present energy seminars in collaboration with the City of Ann Arbor to support their ongoing energy efficiency initiatives for commercial businesses. For more information contact Jennifer Binkley-Power at jpower@northernoptions.org

Rebuild Ypsilanti continues to grow and now boasts four sustaining partners and 33 project partners. The Rebuild Ypsilanti Spring Meeting drew 26 building owners and other interested parties. The meeting included presentations by Katherine McAlpin, Dragon's Hoard Accounting, entitled "Energy Policy Act of 2005" and Stefan Graff, Illuminart, entitled "The Real Cost of Lighting." For more information on Rebuild Ypsilanti contact Greg Vendena at greg@cec-mi.org

WARM Training Center recently conducted a workshop for commercial building owners at the Detroit Museum of Contemporary Art. The workshop, entitled *Financing Green Projects*, which was attended by 24 building owners. For more information on WARM Training Center contact Diane Van Buren Jones at ezdvbj@sbcglobal.net

Michigan Suburbs Alliance (MSA) has enrolled three municipalities in the Rebuild Michgan program and completed three IEEs. Two Technical Energy Analyses (TEAs) are to ber completed this summer. MSA has also raised $15,000 to support continued Rebuild MI program activity in SE Michigan. For more information on Michigan Suburbs Alliance, contact Brittany Galisdorfer at brittany@suburbsalliance.org

►REBUILD MICHIGAN PARTNER UPDATE◄

Since January 2009 the Rebuild Michigan Program has enrolled 27 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, 600 school districts, local governments, and public housing authorities have joined the Rebuild Michigan program. Enrolled partners have pledged more than 115,389,600 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
Madison Public Schools	462,800
Suttons Bay Community Schools	185,000
Village of Bellaire	26,196
Village & Township of Caledonia	50,822
City of Hazel Park	182,275
Highland Township	55,109
Macomb County	1,003,462
Macomb Township	137,325
City of River Rouge	50,222

►COOL ROOFS◄

A cool roof is one that reflects the sun's heat and emits absorbed radiation back into the atmosphere. The roof literally stays cooler and reduces the amount of heat transferred to the building below, keeping the building a cooler and more constant temperature. Imagine wearing a white or a black T-shirt on a hot day. By wearing the white T-shirt you will remain cooler than if you wore a black T-shirt because it reflects more sunlight and absorbs less heat. Cool roofs, like a white T-shirt, keep the internal temperature of the building cooler.

However, a cool roof isn't necessarily white. With "cool color" technologies, roofs now come in a wide variety of colors and still maintain a high solar reflectance.

By installing a cool roof you can reduce your utility bills associated with air conditioning while increasing occupant comfort; one report found an average energy savings range of 7%-15%. In addition, a cool roof could offset the need to install an air conditioner where there isn't already one present. If there is a need for an air conditioner, a cool roof could enable the downsizing of the unit and prolong the life of the air conditioning system. Installing a cool roof also lowers the roof maintenance and extends the roof life—this allows the building owner to avoid frequent reroofing costs and therefore reduces solid waste.

In a nut shell, a cool roof can significantly reduce your cooling energy costs and increase your comfort level. So if you are trying to save energy or make your building more environmentally-friendly, a cool roof is one way to achieve that goal.

For more information go to: http://www.coolroofs.org/

►LED Lighting from Energy Star◄

The U.S. Department of Energy estimates that rapid adoption of light-emitting diode (LED) lighting in the U.S. over the next 20 years can deliver savings of about $265 billion, avoid 40 new power plants, and reduce lighting electricity demand by 33% in 2027. If that LED is an Energy Star qualified commercial LED light, it offers an unprecedented opportunity to save energy, maintenance and cooling costs and is a natural fit for cutting-edge renovation, new construction projects, or easy retrofits.

Qualified commercial LED products use at least 75% less energy and last 35 times longer than incandescent lighting. Plus, qualified LED lighting produces virtually no heat and provides optimal light color for any environment from parking lots to high-end show rooms. In addition, LEDs emit light in a specific direction, whereas incandescent or fluorescent bulbs emit light — and heat — in all directions.

LED lighting also uses both light and energy more efficiently. For example, an incandescent or compact fluorescent (CFL) bulb inside of a recessed can will waste about half of the light that it produces, while a recessed down light with LEDs only produces light where it's needed — in the room below.

LED lighting is a cost effective alternative to other lighting choices. To find out more information on LED lighting and Energy Star go to http://www.energystar.gov/index.cfm?c=ssl.pr_commercial

►Energy Savings Tips◄

According to some estimates, about one in 10 vehicles on the road is either missing its gas cap, or driving around with a damaged cap. A tight seal is the goal, so check for cracks in the plastic, or brittleness in the gasket. Either can lead to evaporation, which not only means you're losing gallons you could otherwise burn to get around town, but also means that your gas tank is emitting pollution without you even driving. One study found a single leaking gas cap can be responsible for 175 pounds of air pollution in a year. Those pollutants leak out as vapors that contribute to smog, which can cause asthma attacks and other lung and heart illness.

http://www.thedailygreen.com/environmental-news/latest/green-driving-101-47040901#ixzz0JqO3wDM1&D

►Featured Publications◄

EECBG Questions & Answers from FedConnect

This is a sorted list of the responses provided on FedConnect and from FAQs compiled by EECBG program staff. Strategic Energy Innovations has compiled this resource to help qualified entities with their EECBG applications.

http://oxford.seiinc.org:8012/eecbg%20Q&A/home.php?

Net-Zero Energy Commercial Building Initiative

The Net-Zero Energy Commercial Building Initiative aims to achieve marketable net-zero energy commercial buildings by 2025. Net-zero energy buildings generate as much energy as they consume through efficiency technologies and on-site power generation.

http://www1.eere.energy.gov/buildings/commercial_initiative/index.html

RMI's Guide to Energy Efficient Traffic Signals and Street Lighting

Most communities thousands of dollars each year powering traffic signals and lighting streets and public parking lots, but have not yet explored energy efficiency options in these areas.

http://www.energyfinder.org/images/other/CEOF_CityLighting.pdf

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

MI Dept.of Energy,
Labor & Economic Growth
Bureau of Energy Systems
611 West Ottawa Ave.
P.O. Box 30221

If you would like to receive the newsletter electronically please email Stephanie Epps at eppss@michigan.gov

►ENERGY EVENTS◄

NABCEP Solar Photovoltaic Intensive Training

August 17-21, 2009
Northwestern Michigan College

Traverse City, MI
http://www.nmc.edu/energy

MLL 11th Annual Conference

September 22-25, 2009
Radisson Plaza Hotel

Kalamazoo, MI
http://www.mml.org/IMISPUBLIC/Core/Events/eventdetails.aspx?iKey=V09

Michigan Clean Transportation Expo & Awards Gala

September 29, 2009
4:00 PM — 9:00 PM

Novi, MI
http://www.mct-expo.com/

Great Lakes Bioneers Conference

October 16-18, 2009
Northwestern Michigan College

Traverse City, MI
http://www.glbconference.org/

Michigan's 1st Annual Healthy & Green Expo

October 17-18, 2009
Harvey Kern Indoor Pavilion

Frankenmuth, MI
http://www.greendayexpo.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 Stephanie Epps at eppss@michigan.gov and see your area's event in the next Rebuild MI Partner News.