

August
2005

Rebuild Michigan



PARTNER NEWS

► COMMUNITY PARTNERSHIPS ◀

Rebuild Michigan, part of the U.S. Dept. of Energy's Rebuild America program, 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.

MI DEPT. OF
LABOR & ECONOMIC GROWTH
ENERGY OFFICE

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

PHONE: 517-241-6228

EMAIL:

DCTHRUN@MICHIGAN.GOV

WEBSITE:

WWW.MICHIGAN.GOV/
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REBUILD UPPER MICHIGAN

During the most recent quarter Rebuild Upper Michigan made great strides. While the program assessed and pursued three energy efficiency projects in Delta County, three other projects received funding assistance through the Northern Lights Energy Program. Together these projects represent almost \$400,000 in energy efficiency investments. The projects will involve retrofitting several hundred fluorescent lamps, boiler replacements, HVAC system upgrades and installing magnetic fuel conditioners. Combined annual savings will be approximately \$75,000. Two more energy efficiency grants, received from the Michigan Public Service Commission, focus on public housing commissions and are being administered by the Northern Lights Program. Efficiency projects in Escanaba, Marquette, Negaunee, Munising, Gladstone, Kingsford and Iron County will take advantage of \$500,000 in funding to upgrade their energy systems. These projects will produce over \$60,000 in annual energy savings. Rebuild Upper Michigan works in conjunction with the Northern Lights Energy Program. They have worked together during numerous energy projects and prove to be a great team serving much of Northern Michigan.

REBUILD WASHTENAW COUNTY

Rebuild Washtenaw County is finishing a comprehensive performance contract to upgrade eighteen of the county's facilities. Expected cost savings will amount to around 10% of energy use prior to the project or approximately \$215,000 per year. Also, they are developing a series of energy conservation presentations that will reach approximately 20% of the county's employees. The Rebuild Washtenaw County Staff will present a number of conservation opportunities that employees can take to help reduce energy consumption at work and at home, as well as its impact on the environment. Rebuild Washtenaw will also install a 10 kW Solar Photovoltaic system in one of its facilities to help educate the community about solar power. It will power approximately 3-5% of the building.

REBUILD TRAVERSE CITY

In the Traverse Area, Oryana Food completed the installation of a vacuum tube style solar hot water system in June. Oryana is also beginning a 6,000 sq. ft. expansion of the store and Rebuild Traverse City is providing energy efficiency and renewable energy analysis services to help the building achieve LEED (Leadership in Energy and Environmental Design) silver or gold status. The building will have a solar photovoltaic system, heat recovery ventilation, efficient refrigeration, air conditioning, energy management system and passive solar design and landscaping characteristics. Two of Rebuild Traverse City's larger partners, Traverse City Area Public Schools (TCAPS) and Bay Area Transportation Authority (BATA) have also taken their wind power analysis one step further by funding, along with Traverse City Light & Power, Phase I of the wind power feasibility work to determine a plan for making 100% of the BATA and TCAPS electricity from wind power. BATA is also preparing a fleet of hybrid electric buses that, along with their operations facilities, will be electrified with wind power distributed through the TCL&P system.

Since April, REBUILD MICHIGAN STATE UNIVERSITY has focused on upgrading the Residence Hall System on campus which has been active in pursuing a variety of energy improvement projects. Rebuild MSU received funding from the Michigan Energy Office/DOE on July 1 and plans to continue their progress installing and monitoring existing projects as well as to expand with new energy projects in the upcoming year.

Led by Greater Lansing Renewable Energy Association, REBUILD GREATER LANSING AREA SCHOOLS (RGLAS) recently was approved for funding beginning July 1. RGLAS is planning to introduce new projects and ways to promote energy efficiency across the Lansing area.

► **REBUILD PARTNERS UPDATE** ◀

During the past quarter Rebuild Michigan (RM) has enrolled 27 new partners. The table to the right lists the most recent partners, the square footage they have committed to energy improvements, and a preliminary estimate of annual cost savings. To view the complete list of new clients please go to www.michigan.gov/eorebuild and click on Rebuild MI Energy Services. The Rebuild MI team completed Introductory Energy Evaluations for 20 clients. These walk through assessments identified the areas where energy use can be reduced and whether a technical energy analysis (TEA) is recommended. In addition, nine clients received Project Implementation Reports and seven completed Energy Star Benchmarking.

Since September 2003, 110 school districts, local governments and public housing authorities have become part of the RM program. Various clients have completed projects which include improvements in lighting, building controls, HVAC systems, renewable energy and many others. Project case studies are available at www.michigan.gov/energyoffice. They highlight various RM program participants and serve as good examples for interested businesses/consumers that are interested in the energy/cost savings possibilities which exist in many Michigan buildings.

For more information regarding Rebuild Michigan opportunities contact Tim Shireman at tashire@michigan.gov or (517) 241-6281.

Name	Square Feet	**Potential Annual Cost Savings
Boyne City Housing Commission	17,560	\$3,336.00
Huron ISD	16,246	\$2,475.00
Sturgis Housing Commission	50,000	\$9,500.00
Whiteford Agricultural Schools	113,516	\$17,027.00
Ishpeming Housing Commission	68,248	\$12,967.00
Dickinson-Iron ISD	35,989	\$5,398.00
Summerfield School District	147,991	\$22,199.00
Bay County Housing Commission	84,000	\$15,960.00
Lakeview Community Schools	280,075	\$42,011.00
Reed City Public Schools	221,146	\$33,172.00

** #'s were calculated on the Rebuild website (www.rebuild.org)

► **REBUILD PROGRAM ANNOUNCEMENTS** ◀

EnergySmart Schools Update

Recently, Rebuild MI offered incentives to eligible K-12 school districts to start energy education projects. The incentives contribute from \$4,000-\$6,500 per district for teacher workshops and curriculum materials for the students.

Applications were received from Riverview Community Schools, Marion Public Schools, Laker Public Schools, Fraser Public Schools, and Huron ISD. Each school plans to implement NEED/EnergySmart materials into their curriculum in different ways.

In addition to integrating an energy education curriculum, districts created extra curricular activities for the students, teachers, staff and/or community to supplement classroom instruction. Marion wants to form an "Energy Conservation Club" within the school, while Laker & Huron ISD plan to host Energy Fairs.

On August 1, 2005, each of the five schools were awarded funding to go ahead with their energy education projects.

For more information regarding EnergySmart Schools please contact Tim Shireman at tashire@michigan.gov or (517) 241-6281.

National Energy Education Development (NEED) / Strategic Partner

NEED is a nonprofit association dedicated to developing and distributing comprehensive, hands-on energy education programs to schools nationwide. The NEED program includes teacher-approved educational materials, evaluation techniques and tools, and professional development for educators.

There are also activities and tools to help educators, energy managers and all occupants use energy more wisely at schools, saving valuable schools funds.

For more information see www.need.org or contact Keith Etheridge, MI NEED Director, at keith.etheridge@comcast.net

► ENERGY OPPORTUNITIES ◀

ENERGY STAR Buildings

ENERGY STAR is a voluntary partnership between government, business and individuals united to protect our environment for future generations by implementing energy-efficient practices today. ENERGY STAR is sponsored jointly by the U.S Department of Energy (DOE) and the Environmental Protection Agency (EPA). Last year alone, ENERGY STAR helped businesses and consumers save more than \$5 billion in energy costs while reducing greenhouse gas emissions equivalent to those generated by 10 million cars. By making consumers aware of their energy production and taking the necessary steps in order to increase their performance, these buildings have changed drastically in terms of their energy use.

ENERGY STAR Benchmarking rates the performance of your buildings on a scale of 1-100 relative to similar buildings nationwide using EPA's national energy performance rating system. The rating system accounts for the impacts of year-to-year weather variations, as well as building size, location, and several operating characteristics. Buildings rating 75 or greater may qualify for the ENERGY STAR Building Label.

The ENERGY STAR Building Label is awarded to building

owners that exhibit high energy efficiency without sacrificing occupant safety and comfort.

To receive the ENERGY STAR Building Label building owners must benchmark their building(s), have a professional engineer verify, prepare a statement of energy performance and submit a completed application.

To date, Wyandotte Schools, Belding Schools, Grandville Schools and Kenowa Hills Schools have all achieved this honor of energy performance and gained national recognition for their efforts.

The Energy Office is currently offering an incentive to public agencies to pay the modest cost of engineer certification which is required for the statement of energy performance. For additional information regarding the ENERGY STAR incentive visit:

www.michigan.gov/energyoffice

As of July 30, 2005, 36 Rebuild Michigan Partners have successfully completed ENERGY STAR benchmarking.

► FEATURED PUBLICATIONS ◀

**Seven Steps to Savings—
How to Implement an
Energy-Savings Project**

With the assistance of DOE FEMP, the Bureau of Reclamation developed seven steps to achieving greater energy and water efficiency. These steps that you, too, can take to achieve your goals. Using environmentally friendly technologies like solar water heating, low-volume faucets and toilets, and energy-efficient lighting and windows. This guide addresses all types of facilities which is extremely useful for Rebuild MI partners.

(Rebuild America Website)

**Laying the Foundation for
a Solar Century:
Encouraging Renewables
Within Local Governments**

This report summarizes the City of San Jose's Project which informed local jurisdictions about the options for including renewable energy choices within the restructured electric market and the benefits associated with that choice. In addition, the project provided education and information about other opportunities to use existing renewable technologies within public and community facilities and infrastructure needs.

(Rebuild America Website)

**School Operations &
Maintenance: Best
Practices for Controlling
Energy Costs**

This guide offers not only strategies for maintaining facilities, but also opportunities for reducing energy costs and increasing energy efficiency at existing schools. This book provides detailed and practical guidance on how K-12 school districts can plan and implement enhancements to their current O&M programs that can successfully maintain their facilities while also reducing energy costs up to 20%. (132 pp., U.S. DOE)

Publications are available in the Rebuild America Solution Center at www.rebuild.org.

If you would like to receive the newsletter electronically please e-mail Darin Thrun at dthrun@michigan.gov

MI DEPT. OF LABOR & ECONOMIC GROWTH
ENERGY OFFICE
611 WEST OTTAWA AVE.
P.O. BOX 30221
LANSING, MI 48909

► ENERGY EVENTS ◀

**Air Innovations
Conference: Integrated &
Innovated Approaches for
Improving Air Quality**
August 10-12, 2005
Chicago, IL
For more information go to:
www.cleanairinfo.com/

**Building a Small Solar Panel
System**
August 13, 2005
Upland Hills Ecological
Awareness Center
Oxford, MI
For more information go to:
www.uheac.org

**Photovoltaic Apprentice
Training**
August 15-19, 2005
GLREA Energy Center
Dimondale, MI
For more information go to:
www.glrea.org

**Energy Choices for a
Sustainable Future Conference**
August 27, 2005
Upland Hills Ecological
Awareness Center
Oxford, MI
For more information go to:
www.uheac.org

**Advanced Design &
Technologies for Higher
Education Facilities**
September 23, 2005
Lansing, MI
For more information go to:
www.michigan.gov/eoworkshops
or call: (517) 373-0444

**Unleashing the Potential:
Future of Energy/Wind Energy
in Michigan Conference**
October 20-21, 2005
Lansing, MI
For more information go to:
www.glrea.org

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