

ENERGY TIDBITS – May 2010

Governor Granholm was recognized by the Great Lakes Renewable Energy Assoc. at the 2010 Michigan Wind Energy Conference with its first Leadership in Renewable Energy Award. The award recognized her tireless efforts to diversify the state's economy by providing job-creating, clean-energy solutions for Michigan. It was also announced that all future leadership awards will be entitled the Granholm Leadership in Renewable Energy Award. In making the award, GLREA President Howard Edelson cited the enactment of a renewable portfolio standard, the use of federal Recovery Act funding to help four Michigan manufacturers to retool their facilities for the wind-energy sector, programs that have helped 100 Michigan companies to become part of wind manufacturing, and the No Worker Left Behind program that works with Michigan's clean-energy companies to retrain Michigan workers.

Vice President Joe Biden has announced that Michigan will receive a \$30 million Recovery Act grant to ramp up energy efficiency retrofits in Michigan homes, businesses, and public buildings. The Michigan Retrofit Ramp-up Initiative (MRRI) grant proposal was submitted by the Michigan Department of Energy, Labor & Economic Growth and Michigan SAVES on behalf of a collaborative group of Michigan entities including the cities of Detroit and Grand Rapids and the Michigan Suburbs Alliance. The \$30 million for Michigan is the second largest award among the 25 retrofit ramp-up grants awarded to states and communities throughout the US.

<http://www.michigan.gov/dleg/0,1607,7-154-25676-231532--,00.html>

Renewable Energy & Energy Efficient Technology Demonstration grants will provide matching funds to small businesses for projects that will demonstrate innovative renewable energy and energy efficient technologies not yet widely adopted in Michigan. A total of \$1,500,000 in American Recovery and Reinvestment Act (ARRA) funding is available with three to eight grant awards anticipated. Projects must be conducted in Michigan and completed by December 31, 2011. A 50% match is required. Preference will be given to projects partnering with Michigan university engineering departments or the Michigan Manufacturing Technology Center. The deadline for submitting an application is May 21, 2010. www.michigan.gov/energyoffice

Clean Energy Advanced Manufacturing grants and loans will provide \$20 million to assist small manufacturing companies, currently located in Michigan, to diversify into high-growth clean energy sectors and invest in advanced manufacturing of renewable energy and energy efficiency systems and components. Renewable Energy applications are due on May 14, 2010 and Energy Efficiency applications are due on May 21, 2010. Any business physically located in Michigan with 500 or fewer full-time or equivalent employees, or a business that relocates to Michigan by the time of the award is eligible to apply. Energy Efficiency:

www.michigan.gov/documents/dleg/CEAM_Energy_Efficiency_RFP_318749_7.pdf

Renewable Energy:

www.michigan.gov/documents/dleg/CEAM_Renewable_Energy_RFP_318752_7.pdf

AgriEnergy Request for Proposal (RFP) has been issued by DELEG, Bureau of Energy Systems to promote low carbon agriculture through the adoption of green technologies and practices that will be implemented from energy audit/assessment recommendations. One statewide, Michigan based project will augment the Michigan Farm Energy Audit and Renewable Energy Assessment Program through: (1) development of an Energy module under the Farm*A*Syst risk assessment tools, and (2) additional agricultural audits/assessments. Up to \$300,000 is available to Michigan universities. Deadline is May 7. www.michigan.gov/energyoffice

Michigan.2010 Michigan Green Leaders, recognized by the Detroit Free Press, represent a diverse group of individuals and organizations making a difference including the WARM Training Center and Crystal Mountain Resort, a Green Lodging Michigan Leader www.michigan.gov/greenlodging. Check out the 16 who are leading Michigan to an earth friendly future. <http://freep.com/section/green01>

First Michigan SAVES loans have been made in the Cherryland pilot which kicked off in February, with the cooperation of Michigan SAVES, Cherryland Electric Cooperative, Brown Lumber Installed Sales & Service (BLISS), and Members Credit Union. To date, 14 loans have been approved and there are 21 customer inquiries active in the queue. In this pilot, residential customers of Cherryland finance energy efficiency measures through a local credit union and pay back the loan on their Cherryland bill. BLISS walks the customer through the entire process and manages a network of contractors to make the energy-saving upgrades. Certified energy assessment professionals-many of whom received training through the local college-are currently conducting home energy assessments and recommending energy-saving improvements. Customers may also select from a list of pre-qualified measures. Customers can learn more and sign up by going to www.michiganSAVES.org/cherrylandpilot. If you would like Michigan SAVES updates, go to <http://michigansaves.org/contact.cfm>.

New Water Heater efficiency standards have been released by DOE. According to DOE, for most product sizes sold, the new standards can be met with modest changes, such as adding more insulation to today's conventional tank-style water heaters. However, for the biggest products (those with over 55 gallons in storage capacity), the new standards can only be met with heat pump and condensing technology. Heat pump electric water heaters save at least 50% and gas condensing water heaters save about 25% relative to today's conventional storage water heaters. The final rule also updates minimum standards for tankless water heaters, pool heaters, and direct heating equipment.

Energy & Innovation Summit 2010 will be held on May 18 & 19 at the Amway Grand in Grand Rapids. The Summit will help participants understand energy efficiency, building successful business models, and get practical advice on funding as well as implementing efficiency efforts. Attendees will learn what really works from global and national leaders. There will be an energy efficiency training seminar on May 20 for those implementing energy projects. www.energysummitonline.com/

Michigan has netted another \$5 million in federal funds for clean energy job training. DELEG will receive almost \$4.4 million to train 588 people to modernize the nation's electrical grid and implement smart grid technologies in communities across the state. Northern Michigan University has received \$673,000 to develop and enhance the newly established Electric Power Technician workforce training program, which will provide quality training for 40 entry-level technicians each year.

Windstream Wolfe Island Shoals Inc. has been awarded a feed-in-tariff contract by the Ontario Power Authority to develop an offshore wind project, most likely the first offshore wind project in the Great Lakes. The 300 MW site is located west of Wolfe Island in Lake Ontario on approximately 48,000 acres of shallow-water shoals.

General Motors' Detroit-Hamtramck assembly plant is where the Chevrolet Volt is being built. Production of the extended-range electric car begins in November. Three Volt cars have been built and GM expects to build fewer than 500 preproduction versions before production begins.

2010 Energy Conference and Expo will be held at the Rock Financial Showplace in Novi on May 4, 7:30-3:00. The conference which is hosted by DTE Energy and Engineering Society of Detroit will feature the latest technology, business, and policy developments impacting the energy industry. <http://ww2.esd.org/EVENTS/EnergyConf.htm>

Annual Wind Industry Market Report from the American Wind Energy Association reports that over 10,000 MW of new wind power was installed in 2009, 36 states now have utility-scale wind projects, Iowa leads in terms of percentage of electricity getting 14% of its power from wind, 85,000 people are employed in the wind industry, 205 educational programs offer a certificate, degree, or coursework related to wind energy, and demand for small wind systems for residential and small business use (100 kW or less) grew 15% in 2009. www.awea.org

Renewable Energy and Sustainable Living Workshop and Expo will be held in New Troy from 9-4 on Saturday, May 8. In addition to providing information and resources on wind, solar, biofuels, and geothermal energy, this year's event will focus on affordable technologies and projects and renewable energy careers. Also new this year will be a panel of landowners who have renewable energy on their property. www.regroupmi.org/expo.htm.

The Rosenfeld - named after the "father of energy efficiency" - will help standardize references to "energy saved", rather than such variable calculations as "avoided powerplants" or "cars off the road." The announcement took place at a special symposium honoring Dr. Rosenfeld at the University of California Davis. The Rosenfeld is equivalent to the following: coal plant capacity of 500 MW, capacity factor of 70%, and systemwide T&D losses of 7% . This combination of parameters would yield annual electricity delivered at the meter of about 3 BkWh/year. Using the carbon burden for US utility coal and the efficiency of average existing coal steam plants, the emissions saved are almost exactly 3 million metric tons of CO₂ per year.

Great Lakes Renewable Energy Association (GLREA) has announced that the Rock Financial Showplace in Novi will be the site for the 5th annual Michigan Energy Fair, taking place June 25th – 27th. www.glrea.org

Green Living Options, an education and demonstration center, opened to the public on Earth Day. This center has examples of green construction techniques including advanced framing, insulating concrete forms, structurally insulated panels, and geothermal heating/cooling. GLO has planned several classes designed for homeowners and contractors. www.promotegreen.biz

Energy Tidbits is free and is prepared by John Sarver, Michigan Dept. of Energy, Labor, & Economic Growth. To subscribe, contact sarverj@michigan.gov. Previous copies can be found at www.michigan.gov/energyoffice under Publications.