

## **Clean Michigan Energy, Good Michigan Jobs** *From Alpena to Ulbley: Green Jobs for Michigan*

### **Alpena: ATI Casting Service**

#### **368 New Jobs**

Thunder Bay Development LLC invested \$15 million to purchase and upgrade the former Thunder Bay manufacturing facility in Alpena for a new life as a wind industry supplier, ATI Casting, operated as part of Allegheny Technologies Inc. ATI Casting Service manufactures grey and ductile iron castings for wind energy and other markets. The project is expected to create 368 new Michigan jobs, including 150 directly by the company. A state tax credit valued at more than \$1.8 million over seven years helped convince the company to pursue the Michigan facility instead of a site in Indiana.

### **Ann Arbor: Atwell-Hicks**

#### **239 New Jobs**

The 101-year-old civil engineering and land development consulting firm with a focus on alternative energy infrastructure and wind power energy production and transmission corridors for wind farms plans to invest \$5 million to expand its operations in the Ann Arbor area. The project is expected to create 239 new Michigan jobs including 131 jobs directly by the company as project manager, civil engineers, and acquisition agents. The Michigan Economic Growth Authority (MEGA) board approved a state tax credit valued at approximately \$1.4 million over seven years to help convince the company to expand in Michigan over a competing site in Tennessee.

### **Cassopolis: K & M Machine – Fabricating, Inc.**

#### **120 New Jobs**

Known for its production of enormous parts for wind turbines, K & M has leveraged their advanced engineering and manufacturing technologies acquired over decades in the mining and power generation industries into the wind power segment. The company's involvement with wind power began more than 10 years ago with some of the industry's earliest pioneers of wind technology. Today, major players like Clipper Wind and Gamesa trust K&M to produce quality components for their wind turbines. The company is building a 52,000 square-foot addition to its machine shop and has ordered several state-of-the-art manufacturing machines. To maintain its leadership position in wind power services, K&M continues to create jobs and looks to fill at least 120 high-paying positions during the next 18 to 24 months; CNC machinists, heavy plate welders, engineers, quality technicians, supervisors and other professionals. K&M currently employs 245 people; its manufacturing facilities include a 234,000 square foot machine shop with nearly 40 state-of-the-art CNC machining centers and value-added assembly areas, a 67,000 square foot fabrication shop, and a 35,000 square foot burn facility.

### **Eaton Rapids: Dowding Industries**

#### **358 New Jobs**

Dowding Machining LLC, a new venture of Dowding Industries Inc. invested \$7.1 million to build a new 35,000 square foot large-part manufacturing facility adjacent to their Dowding Industries operations in Eaton Rapids. The project will create 358 new Michigan jobs, including 200 directly by the company and will focus on machining

transmission housing, components and platforms used in the assembly of wind turbines. Assistance offered through the MEDC helped convince the company to choose Michigan instead of a competing site in Iowa. Previously, Dowding had all their business in automotive; 20 years ago about 90 percent was automotive; 10 years ago, 50 percent; now five percent is automotive, primarily in large commercial trucks. About 10 percent of their business revenues are in the wind industry including their Iowa plant. This percentage is rapidly increasing and they're hiring automotive talent to assist their manufacturing of wind components.

### **Greenville: United Solar Ovonix LLC.**

#### **400 New Jobs**

United Solar Ovonix, a subsidiary of Energy Conversion Devices Inc., started hiring the first of 400 new employees for its expanding solar panel manufacturing plant in Greenville. The company, based in Auburn Hills, recently began planning for a 120-megawatt production expansion to reach 300 megawatts in manufacturing capability by the end of 2010. There are currently 242 workers at the plant and United Solar expects employment to reach approximately 800 at capacity. The MEDC approved a business tax credit valued at \$5.7 million over 20 years to attract the company to Greenville. A \$5 million federal Community Development Block Grant approved by the MEDC and awarded to the city of Greenville will fund needed infrastructure improvements to support the new plant.

United Solar Ovonix is the world leader in thin-film solar technology and the manufacturer of thin-film electric modules and laminates distributed globally under the Uni-Solar brand. They offer the most cost-effective and reliable solutions to supplement their customers' energy needs through solar power. United Solar is building its second solar manufacturing plant in the mid-state community of Greenville, with plans announced in 2008 to add 400 employees at that site, bringing the total to 800.

### **Huron Township: Michigan Institute of Aviation and Technology Inc.**

#### **145 New Jobs**

The Belleville-based postsecondary institution and one of the largest aviation maintenance technician schools in the nation plans to expand and locate its Power Technology Institute in Huron Township. The Power Technology Institute, with 103 students currently, expects to grow to over 600 students over the next five years. The institute focuses on alternative energy and trains students to become technicians and dispatchers. The project is expected to create 145 new jobs, including 103 directly by the institute. An economic analysis conducted by the MEDC estimates the project will create 42 indirect jobs. Based on the MEDC's recommendation, the MEGA board today approved a state tax credit valued at \$847,000 over five years to win the project over a competing site in Texas. Michigan Institute of Aeronautics Inc, is a company that will provide high level training in wind energy for regional and national markets.

### **Midland: Evergreen Solar, Inc.**

#### **596 New Jobs**

The Massachusetts-based manufacturer of solar power panels has chosen Midland over a competing site in another state to establish a new state-of-the-art facility that will create string for the company's proprietary, low-cost String Ribbon™ wafer technology. The project, pending final permit approval by the Michigan Department of Environmental Quality, is expected to generate approximately \$55.2 million in new capital investment and up to 596 new Michigan jobs, including 101 directly by the company over the next five years. Evergreen's solar panels are

among the highest quality products in the solar energy industry. Because of the unique way they're made, they are the most environmentally friendly solar panels in the business. With MEGA approved a state tax credit valued at \$1.8 million over 10 years to win the company's expansion. The city of Midland has approved a 12-year abatement worth \$3.9 million to support the project.

### **Monroe: Great Lakes Towers L.L.C.**

#### **290 New Jobs**

The start-up wind turbine tower manufacturing company is planning to initially invest \$19 million to locate its first manufacturing facility in Monroe. The company eventually expects to manufacture more than 500 wind towers each year. The project is expected to create 290 new Michigan jobs, including 152 directly by the company; most of these jobs will be in engineering and the skilled trades. The Michigan Economic Growth Authority (MEGA) board approved a state tax credit valued at \$3.7 million over 10 years to help convince the company to expand in Michigan over a competing site in Ohio. The company chose Michigan for a couple of key reasons. First, the state's windy climate makes it a prime location to build wind farms; second, its central location and direct access to the Great Lakes will make it easier to ship the turbines.

### **Novi: Global Wind Systems, Inc.**

#### **807 New Jobs**

The start-up wind turbine generation system OEM will invest \$32.3 million to locate its first facility in Novi. The project is expected to create 807 new green Michigan jobs statewide, including 356 directly by the company. The MEGA board approved a state tax credit valued at approximately \$7.3 million over nine years to help convince the company to expand in Michigan over competing sites in Ohio, Iowa and Nebraska. The company has developed a utility-scale, 1.5-megawatt wind turbine generation system. It plans to source 100 percent of its components from U.S.-based manufacturers, with a specific focus on suppliers in Michigan and other Great Lakes states. The company anticipates initially selling 39 units per year at a per-unit price of \$2.4 million, and ramping up production in the second year. It is targeting \$500 million in three-year booked.

### **Orion Township: Cobasys, LLC**

#### **150 New Jobs**

Cobasys designs, manufactures and sells nickel metal hydride (NiMH) battery systems for the emerging hybrid electric vehicle market. The company also focuses on the commercialization of battery storage systems for the telecommunications industry and stationary uninterruptible power sources. Cobasys invested an estimated \$1.5 million over two years to complete an office building and consolidates three plants currently operating in Troy to a single 70,000-square-foot facility in Orion Township. An SBT credit valued at more than \$3.9 million convinced the company to expand in Michigan instead of a competing site in Ohio. The project created 50 new jobs in the first year, and a total of 150 jobs within five years. An economic analysis by the University of Michigan estimates that more than \$97.5 million in new personal income will result from the project over the next 10 years.

### **Pittsfield Township: Adaptive Materials, Inc.**

#### **187 New Jobs**

Michigan's largest fuel cell maker, and recognized world leader in the design and development of portable fuel cell technology with military applications, Pittsfield Twp.-based Adaptive Materials, Inc. officially relocated from its

11,000-square-foot facility to 50,000 square feet of R & D and pilot production lab space, also in Pittsfield. The battery-tech company's \$2.8 million project is expected to create 187 new jobs in the industry, including 100 in systems, engineering and manufacturing at the company, which has grown from two employees to 60 since its founding in 2000. AMI was awarded a \$6.27 million loan through the 21st Century Jobs Fund to move its fuel cell system into commercial markets. A state tax credit valued at \$760,000 over seven years helped convince the company to invest and grow in Michigan over other competing states.

### **Plymouth Township: Danotek Motion Technologies LLC**

#### **353 New Jobs**

Danotek, a seven-year-old company, has been attracting significant interest from large-scale wind turbine manufacturers and top-tier capital firms impressed with the company's potential to bring breakthrough efficiencies to the \$37 billion wind power generation industry. The technology developer and manufacturer of permanent magnet generators, power control electronics and brushless motors for power generation industries and advance automotive applications plans to expand its operation and relocate to Plymouth Township. The new expanded facility would accommodate the manufacture of up to 3 Mega Watt variable speed PM generators for use with wind turbines. The project is expected to create 353 new jobs, including 141 directly by the company. An economic analysis conducted by the MEDC estimates the project will generate an additional 212 indirect jobs. The MEGA board approved a state tax credit valued at \$2.5 million over 10 years helped convince the company to invest in Michigan over a competing site in Indiana.

### **Redford Township: Steel Industries Inc.**

#### **20 New Jobs**

Steel Industries Inc. expansion in Redford Township as a result of state and local brownfield tax incentives approved by the Michigan Economic Development Corporation resulted in more than \$13 million in private investment and created up to 20 new manufacturing jobs. Steel Industries construction of a new 61,000-square-foot building and parking lot represents the largest single investment in their history and the first phase of a planned two-phased project. Founded in Detroit in 1913, Steel Industries specializes in custom open die forgings and seamless rolled rings for the power generation, machine tool, construction and transportation industries.

### **Rothbury: Carlton Creek Ironworks, LLC**

#### **187 New Jobs**

The leading North American provider of gray and ductile iron commercial castings for construction, marine and machine tool industries plans to expand capacity at its operations in Rothbury to support the production of high-grade ductile windmill iron required by windmill castings. The company will invest approximately \$10.3 million in the project, which is expected to create 187 new Michigan jobs, including 70 directly by the company. Based on the MEDC's recommendation, the MEGA board approved a state tax credit valued at \$1.6 million over 10 years.

### **Saginaw County: Hemlock Semiconductor**

Hemlock Semiconductor Corporation is the world's leading producer of hyper-pure polycrystalline silicon for the semiconductor and solar power industries. Based in Saginaw County, this subsidiary of Dow Corning has begun production at its new polysilicon facility that will nearly double its output of polycrystalline silicon (polysilicon). The new facility is part of a \$1.5 billion expansion at its Hemlock site, bringing the company's annual capacity to approximately 19,000 metric tons by the end of 2008, making it the largest single polysilicon facility in the world.

**Troy: Compact Power**  
**298 New Jobs**

Compact Power invested \$18.1 million to locate a new research and development center in Troy instead of expanding an existing facility in Colorado. A subsidiary of LG Chem., the largest chemical company in South Korea, Compact Power develops lithium polymer battery packs for electric, hybrid fuel cell vehicles and military and aerospace applications. The project created 298 new jobs, including 168 directly by the company. An SBT credit valued at more than \$3.8 million over the next 10 years helped convince the company to expand in Michigan.

**Ubyly: Noble Thumb I Windpark**  
**85 New Construction Jobs**

Michigan's newest windpark, consists of 46 wind turbines situated in Huron and Sanilac counties and will generate 69 megawatts (MW) of clean renewable energy and provide enough clean energy for 23,000 average homes. To create the same amount of electricity over a period of 20 years, it would require burning more than 1.5 million tons of coal – enough to fill a train 178 miles long. Construction on the windpark will create approximately 85 new construction jobs, and will result in more than \$3.5 million in property tax payments over the next 20 years. Consumers Energy lists the wind farm as one of the suppliers of its Green Currents renewable power program, which allows customers to select electricity from renewables for an extra two cents per kilowatt hr. Noble is a leading renewable energy company that is majority owned by funds affiliated with JP Morgan Partners LLC, which are managed by CCMP Capital Advisors LLC. Noble was founded in 2004 in response to public policy initiatives designed to foster the increased use of renewable energy sources. Noble is committed to creating environmentally friendly facilities in partnership with local communities.

**Van Buren Township: Ricardo Inc.**  
**106 New Jobs**

The eco-innovation technology company and a leading independent provider of technology, product innovation, engineering solutions and strategic consulting to the world's automotive, transport and new energy industries has a new battery-testing development underway at its Van Buren Township location, and is considering a new \$12.3-million rolling chassis dynamometer facility for emissions testing. The dynamometer project is expected to create 106 new jobs, including 45 directly by the company. A state tax credit valued at \$2.2 million over 13 years helped convince the company to invest in Michigan over a competing site in Germany. Last March, the company was approved for a state tax credit valued at \$991,000 over 10 years to support the establishment of a battery systems development center for hybrid and electric vehicle battery pack development.