



THE FINE ART OF DIVERSIFIED POWER SUPPLY



JOINT VENTURE 6  
OHIO MUNICIPAL ELECTRIC GENERATION AGENCY  
2010 ANNUAL REPORT

# PARTICIPANTS

## LETTER TO PARTICIPANTS



*Kevin Maynard, Chairman  
Director of Utilities,  
City of Bowling Green*

The American Municipal Power Wind Farm had another productive year in 2010, but several mechanical issues and less wind availability caused the facility's total output to fall from the preceding year. Despite these issues, the four turbines of the Ohio Municipal Energy Generation Agency Joint Venture 6 (OMEGA JV6) facility continued to provide clean, renewable energy for project participants.

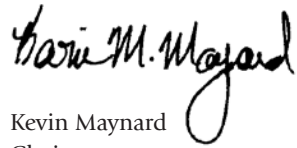
Even the most-favorable locations for wind turbines cannot guarantee constant generation levels. Loss of production through low wind conditions was more of a factor in 2010 than in the previous two years. In our region of the country, wind turbines have an annual capacity factor of less than 25 percent, on average, and their periods of peak supply often do not match the periods of peak consumer demand. While January provided near-normal wind conditions, February proved to be unusually low, and the later months were not as high as previous years. For 2010, the OMEGA JV6 units achieved a 19.9 percent capacity factor.

Another significant factor in the lower production was repairs made to the Number 2 and Number 4 turbines in April and May, typically high production months for the wind farm. Combined with an earlier repair to the Number 4 unit in February, the reduction in availability produced a loss of approximately 800,000 kilowatt hours (kWh). For the whole of 2010, the four turbines generated 12,576,691 kWh.

Although AMP personnel routinely inspect the units, two unexpected equipment failures led to extended periods of low production. The Number 4 unit had a gearbox replaced in February. In April, after a high-temperature alarm repeatedly shut the unit down, a lubricating oil pump had to be replaced on the same unit. Also in April, sudden failure of the generator in the Number 2 unit curtailed production until a new generator could be procured and installed. Major repairs to the facility were done by Vestas, which manufactured the turbines and holds the current maintenance contract for the units.


The 2008 passage of electricity legislation in Ohio that included an alternative energy portfolio standard for investor-owned utilities brought higher market price for renewable energy credits (RECs) from projects located in Ohio. In 2010, all OMEGA JV6 participants chose to sell the associated RECs, with revenue returned to the project.

The AMP Wind Farm, as Ohio's first utility-scale wind farm, remains a testament to the leadership public power provides in this state. As participants in OMEGA JV6, we can all be proud of our achievements.



Kevin Maynard  
Chairman

## PROJECT OVERVIEW



Ohio Municipal Electric Generation Agency Joint Venture 6 (OMEGA JV6) is a cooperative project that operates Ohio's first utility-scale wind farm—the American Municipal Power Wind Farm—adjacent to the Wood County Landfill near Bowling Green, Ohio.

Ten American Municipal Power (AMP) member communities—Bowling Green, Cuyahoga Falls, Edgerton, Elmore, Monroeville, Montpelier, Napoleon, Oberlin, Pioneer and Wadsworth—receive energy generated from the 7.2 megawatt (MW) capacity installation, which is composed of four 1.8-MW wind turbines.

The turbines rest atop 257-foot towers and have blades that extend 132 feet from the turbine casing. Each unit measures nearly 400 feet tall when the blades rotate to their highest point. The turbines are designed to operate within a wind-speed range of nine to 56 miles per hour (mph) and are capable of withstanding wind speeds of up to 133 mph.

Michigan

Pennsylvania

Indiana

Ohio

West Virginia

Kentucky

-  Pioneer
-  Elmore
-  Montpelier
-  Edgerton
-  Napoleon
-  Bowling Green
-  Bowling Green
-  Monroeville
-  Oberlin
-  Cuyahoga Falls
-  Wadsworth



**OMEGA JV6 Communities**  
**OMEGA JV6 Wind Farm**





Ohio Municipal Electric Generation Agency  
1111 Schrock Road, Ste. 100  
Columbus, Ohio 43229  
614-540-1111

[www.amppartners.org](http://www.amppartners.org)

For more information contact:  
Kent Carson, Senior Director of Media Relations  
and Communications Programs  
[kcarson@amppartners.org](mailto:kcarson@amppartners.org)

**AMP**  
PUBLIC POWER PARTNERS