

# Success Stories



## Project Details:

### Location:

22801 St. Clair Avenue  
Euclid, OH 44117

### Project Contact:

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### Technologies:

2.5 MW wind turbine

### Funding Source:

American Recovery and Reinvestment Act –  
State Energy Program

### Incentives:

\$1,125,000

### Total Project Costs:

\$6,083,230

### Energy Impacts:

- Providing approximately 10 percent of energy needs
- Expected to produce more than 6 million kWh of electricity annually

### Economic Impacts:

- Saving an estimated \$500,000 in electric costs per year
- Created 8.6 jobs\*

### Environmental Impacts:

- Reduces CO<sub>2</sub> emissions by more than 9 million pounds per year, which is equivalent to taking 811 cars off the road.

\*Job creation numbers are based on direct jobs created or retained using Full-Time Equivalent (FTE) hours.

## Lincoln Electric



### Background:

Lincoln Electric is a major supplier to the developing wind tower fabrication industry. In the U.S. alone, more than 50 percent of installed towers were fabricated with Lincoln Electric products. In addition, Lincoln Electric regularly holds seminars on welding solutions for the wind tower industry, and wanted to have a utility-scale wind tower on-site for demonstration purposes.

### Challenge:

In spring 2009, Lincoln Electric was asked by Cuyahoga County if it was interested in working with Kenersys, a German wind turbine manufacturer, to erect a demonstration wind turbine. The proposed multi-phase plan would begin with the installation of a single turbine, and lead to additional installations and ultimately a turbine manufacturing facility in Ohio.

### Solution:

Working with Kenersys, Lincoln Electric installed a 2.5 MW wind turbine on their Euclid, Ohio campus, the largest known urban installation in North America. Not only does this turbine supply power to Lincoln Electric – lowering their electric costs, helping them retain employees – but it also serves as a tangible symbol of Lincoln Electric's commitment to the wind tower fabrication industry.

*"The tower represents important cost savings, as well as our commitment to integrating renewable energy sources, among other ongoing green initiatives, into our manufacturing processes. It stands as a visible symbol of Lincoln Electric's commitment to the wind tower industry by showcasing the benefits our welding solutions offer to a prominent, fast-growing business segment."*

- George Blankenship, President of Lincoln Electric North America



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