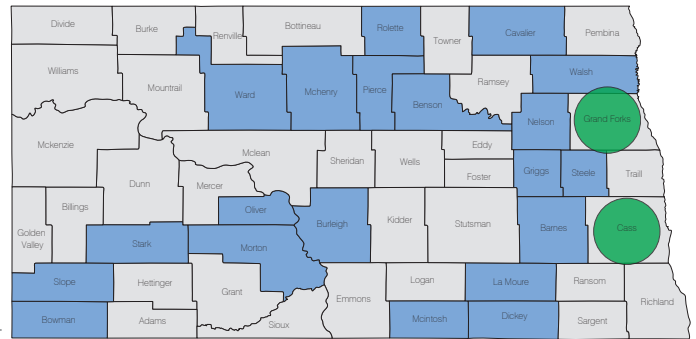


# WIND ENERGY FACTS: NORTH DAKOTA

## North Dakota has strong wind installations and a growing wind manufacturing sector

North Dakota has rapidly grown its wind capacity for several years, though it is still only using a fraction of its potential resource. Developing the state's incredible wind resource has led to jobs in the construction, operations and manufacturing sectors.



Blue counties have wind projects.  
Green dots are major wind energy manufacturing facilities.

### WIND PROJECTS

- Currently online: 1,469 Megawatts (MW)
- Under Construction: 210 MW
- Added YTD 2012: 24 MW
- Added in 2011: 21 MW
- Wind projects in queue: 4,328 MW
- North Dakota ranks 10th for most total installed wind capacity in the US.

### WIND GENERATION

- Percentage of North Dakota power provided by wind in 2011: 14.7%
- North Dakota ranked third in the US in 2011 for percentage of electricity derived from wind.
- Equivalent number of homes North Dakota wind farms now power: 430,000

### WIND RESOURCE

State wind resource: 770,196 MW at 80 meters hub heights  
North Dakota's wind resource is ranked 6th in the US.  
According to a resource assessment from the National Renewable Energy Lab, North Dakota's wind resource could provide nearly 240 times the state's current electricity needs.

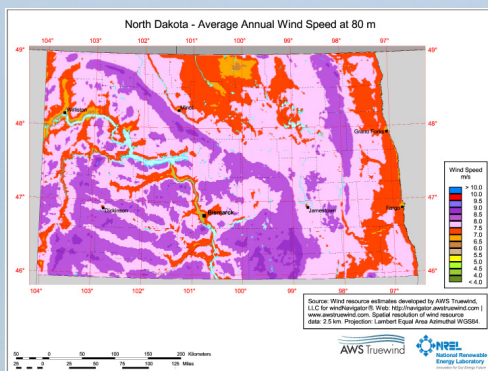


Photo: the Tatanka Wind Farm, on the border of North Dakota & South Dakota  
photo provided by Knight & Carver Wind Group

FOR MORE INFORMATION, PLEASE CONTACT: [windmail@awea.org](mailto:windmail@awea.org)

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# WIND ENERGY FACTS: NORTH DAKOTA

## ECONOMIC AND ENVIRONMENTAL BENEFITS

Investment in wind power is an investment in jobs, including jobs in operations and maintenance, construction, manufacturing and many support sectors. In addition, wind power projects produce lease payments for landowners and increase the tax base of communities.

- Total direct and indirect jobs supported in 2011: 1,001-2,000
- Annual property tax payments by wind project owners: over \$4 million
- Annual land lease payments: over \$4 million

Generating wind power creates no emissions and uses virtually no water. The wind power installed in North Dakota will avoid 3 million metric tons of carbon dioxide emissions annually.

## MANUFACTURING SECTOR

In addition to small manufacturers, North Dakota has two major manufacturers for the wind energy industry. In 1998, LM Glasfiber, a leading blade manufacturer, opened a facility in Grand Forks. In 2006, DMI Industries, a major tower manufacturer, opened a facility in West Fargo. The wind energy manufacturing sector in North Dakota represents over one thousand jobs already, and could grow as installations in the state grow.

## EVENTS

Companies from North Dakota exhibiting at the WINDPOWER 2012 Exhibition: 4

Published August 2012 | Calculations based on national and state averages

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