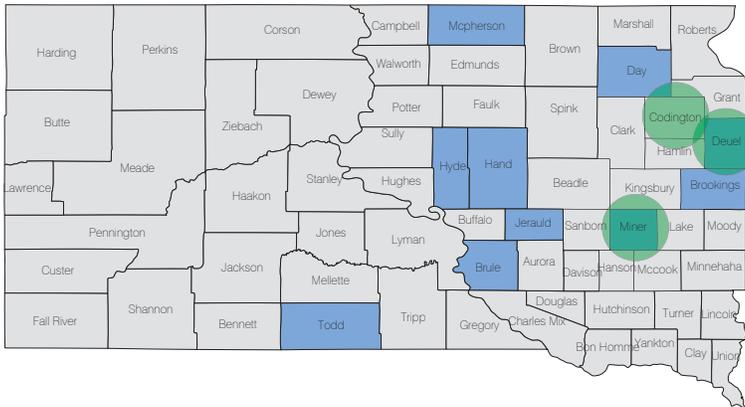


# WIND ENERGY FACTS: SOUTH DAKOTA

## Developing South Dakota's incredible wind resources creates economic development



South Dakota has only developed a tiny fraction of its wind resource. Further development will provide considerable economic and environmental benefits.

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

### WIND PROJECTS

Currently online: 784 megawatts (MW)  
Added in 2011: 75 MW  
Added in 2010: 396 MW  
Wind projects in queue: 30,112 MW  
South Dakota added the 4th most new wind capacity in 2010.

### GENERATION AND POTENTIAL

Percentage of South Dakota power provided by wind in 2010: 8.3%  
South Dakota ranked 4th in the US for percentage of electricity generated from wind in 2010.  
Equivalent number of homes South Dakota wind farms now power: 240,000  
State wind resource: 882,412 MW at 80 meters hub heights  
South Dakota's wind resource is ranked 5th in the US.  
According to a resource assessment from the National Renewable Energy Lab, South Dakota's wind resource could provide 310 times the state's current electricity needs.

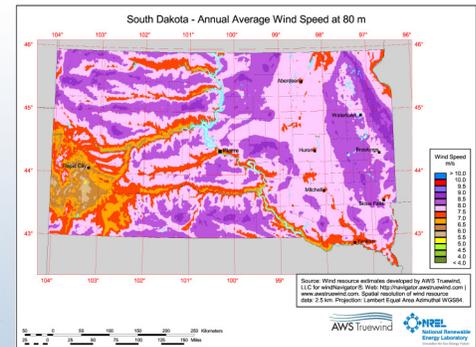


Photo: the Tatanka Wind Farm, on the border of South Dakota & North Dakota  
photo provided by Knight & Carver Wind Group

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# WIND ENERGY FACTS: SOUTH 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 2010: 1,000-2,000
- Annual property tax payments by wind project owners: around \$3.9 million
- Annual land lease payments to local landowners: over \$2.3 million

Generating wind power creates no emissions and uses virtually no water. The wind power installed in South Dakota will avoid 1.7 million metric tons of carbon dioxide annually.

## MANUFACTURING SECTOR

While some of South Dakota's wind-related manufacturing may be from companies that have transitioned from other industries, South Dakota has already attracted significant investment in wind-specific facilities. Molded Fiber Glass, one of the leaders in blade manufacturing, opened a \$40 million manufacturing facility in Aberdeen, South Dakota. At full capacity, as it would be under an aggressive RES, the facility would employ over 700 workers. With strong policy support, many other manufacturers would diversify into wind energy manufacturing and open new facilities in the state.

## SOUTH DAKOTA POLICY

South Dakota has a voluntary renewable objective to have 10 percent of its 2015 electricity sales derived from renewable and recycled energy.

## EVENTS

Companies from South Dakota exhibiting at the WINDPOWER 2011 Exhibition: 4

Published January 2012 | Calculations based on national and state averages

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