

# Wind Turbine at Rex Bye Farm

Gayville, SD 57031 | Bergey Windpower | 15 kW on 100 foot tower | American Windpower



Photo Credit: American Windpower

## Key Findings

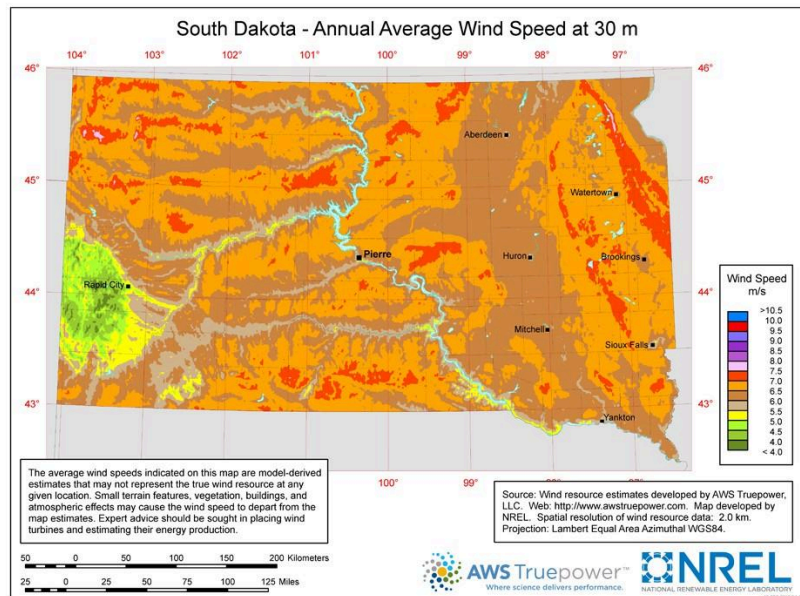
- Provides ~ \$4,800 in electric bill savings annually
- 50% USDA REAP grant paid \$57,250
- 40% Tax Credit & MACRS Depreciation saved over \$70,000 in taxes

## Impact

- Demonstrates feasibility of wind energy for farms & other rural businesses
- Shields farmers from financial impacts of soaring electricity rates

Rex Bye long dreamed of taking advantage of the strong South Dakota winds to reduce the energy costs on his farm and to help secure the financial viability of his businesses. Leveraging federal tax credits and USDA REAP incentives, Bye installed a Bergey Excel 15 on his farm resulting in energy bill savings of approximately \$4,800 annually, moving his farm towards energy independence in the face of soaring energy rates.

Designed for small installations, including microgrid applications, the Bergey Excel 15 turbine is well suited for farming and rural small business operations in areas with sufficient wind resources, producing as much energy as a 35 kW solar system with an 80% smaller footprint.



**Wind resources on more than 91% of South Dakota land are suitable for distributed wind installations, averaging at least 11 mph at 100 feet above ground**

Want further information? Please see: [www.AgWindEnergy.org](http://www.AgWindEnergy.org) or [www.DistributedWind.org](http://www.DistributedWind.org)