

Turbine at Pudenz Machinery Repair & Beef Processing

Carroll, IA 51401 | Bergey Windpower Excel 15 | 15 kW, 100' tower | Installed by American Windpower



Photo Credit: American Windpower

Seeking to offset annual electricity costs, Dean Pudenz hired American Windpower to install a Bergey 15 kW wind turbine mounted on a lattice 100-foot tower in 2023 at **Pudenz Machine Repair and Beef Processing** facility in rural Iowa.



The Bergey Excel 15 turbine, expected to produce ~ 29,724 kWh per year, is well suited for farming and rural small business operations as well as microgrid applications in areas like central Iowa with sufficient wind resources producing as much energy as a 35 kW solar system, with an 80% smaller footprint.

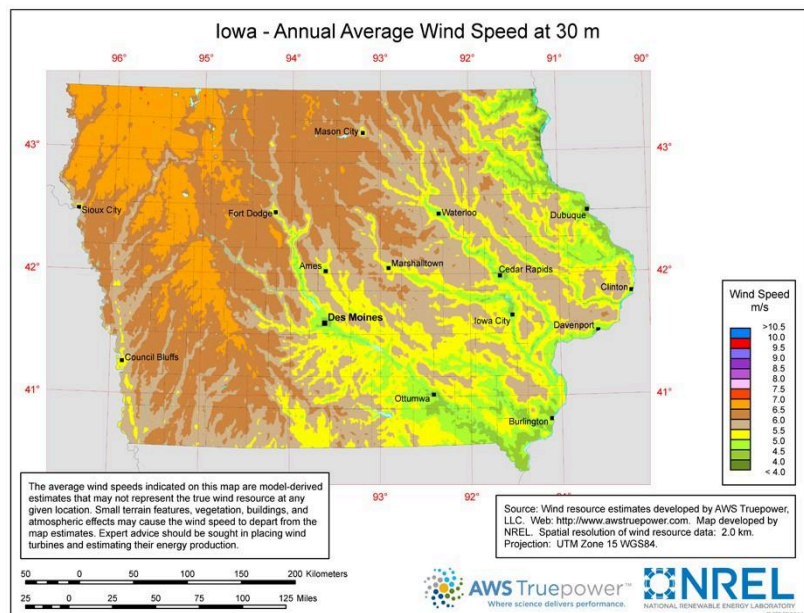
Dean Pudenz: *"I wanted to take advantage of Iowa's strong winds and use that energy to reduce my operating costs and secure the financial viability of my companies."*

Key Findings

- Produces ~ 30,000 kWh annually, enough to power two homes
- Saves owner ~ \$3,000 annually in electric bills

Impact

- Demonstrates feasibility of wind energy for rural businesses



More than 95,000 Iowa properties have wind resources suitable for distributed wind with a combined technical potential of 543 MW, per NREL

Want further information? Please see: www.AgWindEnergy.org or www.DistributedWind.org