

Wind Turbines Powering Premium Beef & Grain

Lone Wolf, OK 73655 | Bergey WindPower | 3 x 15 kW on 100' tower | Installer: American Windpower



Photo Credit: American Windpower

Located in Lone Wolf, OK, family-owned **Premium Beef and Grain, LLC**, one of



the only vertically integrated beef companies in the USA, installed three Bergey Excel 15 kW wind turbines in 2023 to power its operations with funding from a USDA Rural Energy for America Program (REAP) grant. With behind-the-meter connections, the three wind turbines provide enough energy production a year to power the equivalent of 15 homes and will save the owner, C.R. Freeman, ~\$27,000 in electrical costs annually. The investment in wind power increases the operation's energy independence and lowers energy costs.

Designed for small installations, the Bergey Excel 15 turbine is well suited for farming and agricultural operations in rural areas like Lone Wolf, OK, with sufficient wind resources, each producing as much

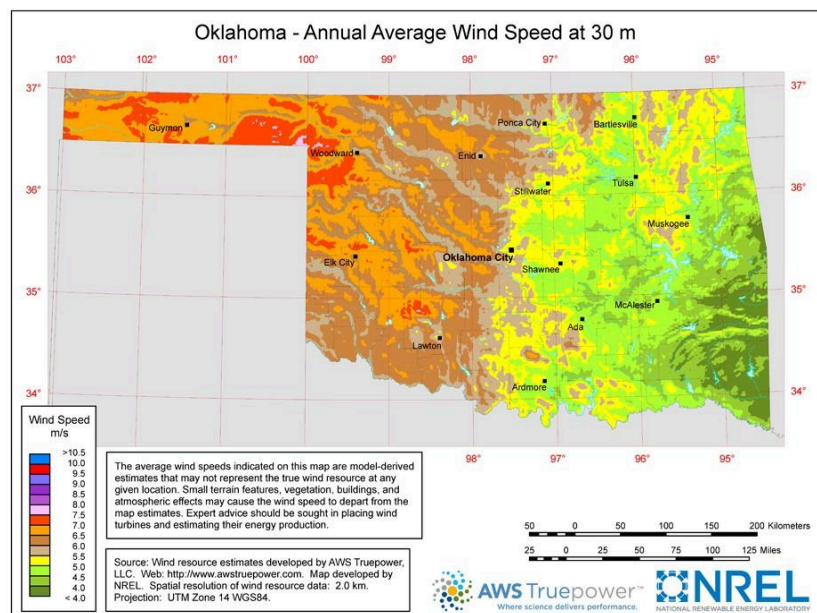
energy as a 35 kW solar system with an 80% smaller footprint.

Key Findings

- 3 wind turbines produce ~ 170,360 kWh annually
- Saves ~ \$27,000 in electricity costs annually
- \$139,400 USDA REAP grant to offset costs

Impact

- Enhances and substantially increases energy independence
- Demonstrates feasibility of wind energy in the agricultural sector



More than 87,500 OK properties have wind resources suitable for distributed wind, with a combined technical potential of 435 MW, per NREL

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