

Lakota Ridge

In the Southwestern part of Minnesota, 180 miles west of Minneapolis/St. Paul and 60 miles north of Sioux Falls, the Buffalo Ridge provides an excellent site for harvesting of wind power. As a developer Northern Alternative Energy focuses on small and medium sized wind farms across the Midwest. The Buffalo Ridge project, with its 15 Multipower WTGs, is developed to optimize generation given the characteristics of the site. In connection to the project NAE plans to build a combined WTG service facility and visitors center to help educate the local community and visitors.

The wind farm will operate in a challenging climate where temperatures vary between -40 and 105 degrees Fahrenheit. The 15 WTGs will generate enough electricity to supply in excess of 3,000 average households.

Project Name & Location: Buffalo Ridge, Lakota Ridge,
Lincoln County, Minnesota

Project Size: 11.25 MW

Project Owner/s: Heller Financial, Edison Capital,
Northern Alternative Energy

Project Developer/s: Northern Alternative Energy

Scope of Supply: 15 Multipower 48 WTGs
Arctic Versions
Hub Height 56 m (167 ft)
Blade Length 23.5 m (77 ft)
EPC Contractor
Including Installation
Supervision
Testing & Commissioning
5-year Service and
Maintenance Contract
5-year Extended Warranty

Mean Wind Speed: 8.6 m/sec (18.9 mph)

Project Start Date: September 1998

Project Complete: May 1999

Installation is supervised by NEG Micon specialists



The wind turbines are remote controlled and monitored via fiberoptic cables



The towers consist of three pieces which are bolted together on the inside



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