



Construction on Minnesota Power's Taconite Ridge I Wind Energy Center – the first commercial wind center in northeastern Minnesota – began on September 13. Minnesota Power expects the new wind turbines to be producing electricity at full capacity by June, 2008. MP estimates the project will fulfill three percent of the utility's renewable portfolio to help meet the State mandate that at least 25 percent of Minnesota's total energy supply come from renewable sources by 2025. The 25-megawatt energy center is located in central St. Louis County on property owned by United States Steel Corporation near its Minntac mine in Mountain Iron.

Fast Facts

- 3 miles of new road
- 400,000 long tons course tailings used for site preparations
- 84,000 ft. of underground power cable installed
- Foundations—370 cubic yards of concrete on each site
- 450 ton Crawler Crane—310 ft. Boom
- 17 semi truck loads for each turbine (Clipper-supplied components)
- 50,000 contractor hours worked safely without an incident
- Taconite Ridge Operations Center pursuing a Leadership in Energy and Environmental Design (LEED) Silver Certification
- As of 3/14/08, construction of the wind farm is ~ 75% complete



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Clipper Liberty 2.5MW

- 265 ft. tower height
- 153 ft. blade length
- 315 ft. rotor diameter
- 420 ft. total height with blade extended straight up
- 40° C lower extreme survival temperature
- Rotor speed of 15-18 rpm. equals tip speed of approximately 200 mph. There are 3 blades per rotor

Project Contractors

- APi Electric—electrical
- Benchmark Engineering Inc.—surveying
- Hoover Construction Company—site construction—roads
- Industrial Maintenance Services (IMS)—foundations and erection
- Kraus-Anderson—construction management
- Northeast Technical Services (NTS)—soil and concrete testing & quality control

