Towers and power.

The facts behind Bison I Wind Energy Center.

It takes more than wind to turn the 332-foot rotors on a wind turbine. It takes landowners, planning and delivery to give the promise of clean, renewable energy. That's what we'll give you, and here's what it will take.

- Thirty-three 2.3 MW turbines
- Annual output of approximately 300,000 megawatt hours of energy
- Enough energy to power 33,000 homes each year
- Estimated $180 million project will be constructed in two phases:
  - 16 completed by December 2010
  - 17 additional turbines completed by November 2011

Wind Turbine: Siemens SWT, 2.3 MW, 101

Rotor diameter: 332 feet

Blade length: 161 feet

Hub height: 262 feet

Total height with blade extended straight up: 428 feet

Tip speed: 70-190 mph

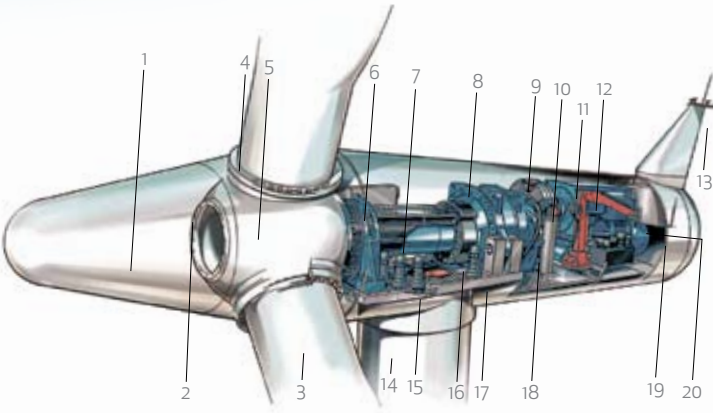
Cut in wind speed: 9 mph

Cut out wind speed: 56 mph

Bison™ | minnesota power AN ALLETE COMPANY

A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA

Siemens SWT, 2.3 MW, 101



1 Spinner
2 Spinner bracket
3 Blade
4 Pitch bearing
5 Rotor hub
6 Main bearing
7 Main shaft
8 Gearbox
9 Brake disc
10 Coupling
11 Generator
12 Service crane
13 Meteorological sensors
14 Tower
15 Yaw ring
16 Yaw gear
17 Nacelle bedplate
18 Oil filter
19 Canopy
20 Generator fan

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