Lincoln Wind Energy Facility

Fourteen wind turbines located in Kewaunee County generate enough electricity for 3,600 homes.

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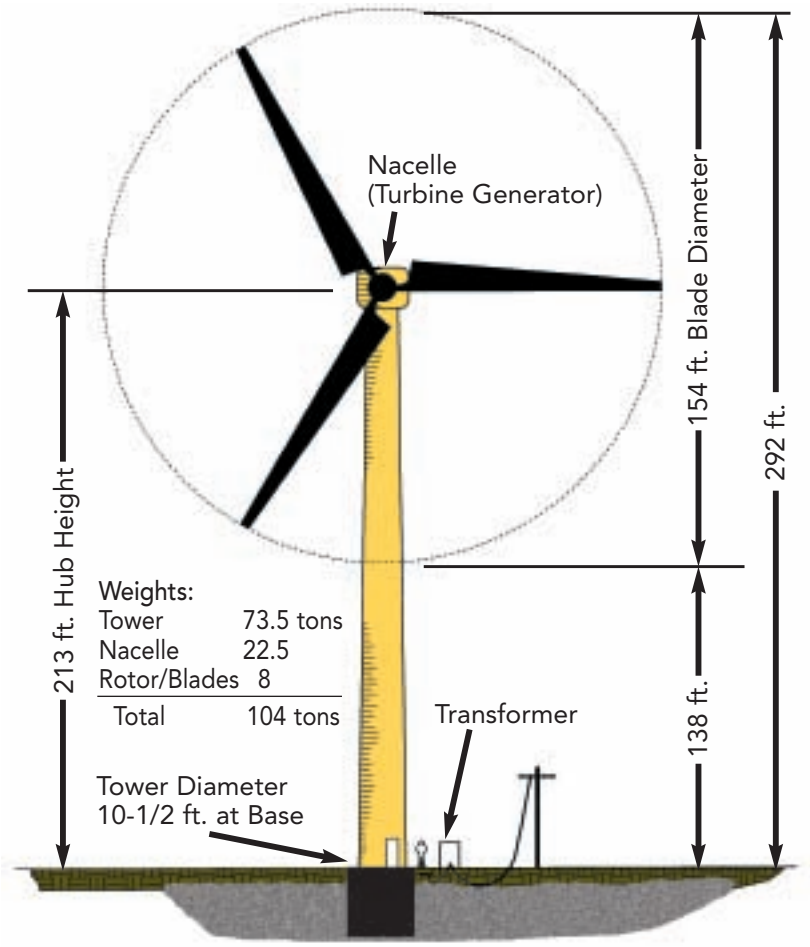
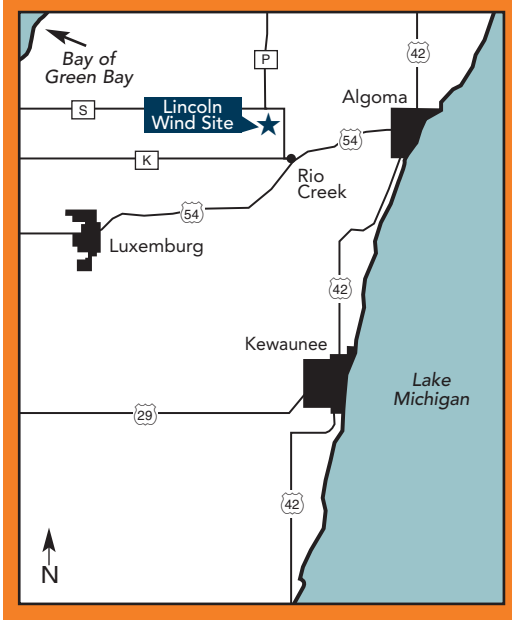


Foundation Design - two cylindrical rings of concrete one 10 feet and the other 14 feet in diameter and embedded in existing rock. The foundation extends approximately 16 feet below the base.



Turning Wind Into Electricity

Fourteen wind turbines are generating electricity on farmland in Kewaunee County. The windmills are located on five acres in east central Kewaunee County, Town of Lincoln, about 1-1/2 miles north of Rio Creek or 5 miles west of Algoma.

Lincoln Wind Energy Facility

Turbine Type
Vestas V-47

Installed Capacity
9 megawatts (9,000 kilowatts)

Number of Turbines
14

Maximum Output of Each Turbine
660 kilowatts

Estimated Annual Energy Production
24,283,000 kWh

Equivalent Households Served
3,600 homes

Turbine Performance
Start-up wind speed: 9.2 mph
Cut-out wind speed: 55 mph
Optimal operating wind speed: 33.4 mph
Survival wind speed: Over 100 mph

Interconnection Voltage
24.9 kilovolts

Site Acreage
Approximately 5 acres leased

Elevation
800 feet above sea level

Average Site Wind Speed
15.4 mph at a height of 213 feet, the hub height of the wind turbines

Wind Direction
Predominantly west-southwest

Total Project Cost
$10.25 million

Operational
July 1, 1999

Turbine Manufacturer
Vestas in Denmark, Europe

General Contractor
Vestas-American Wind Technology, Inc.
North Palm Springs, California

For more information, call:
800-450-7260 or visit
www.wisconsinpublicservice.com/news/windenergy.asp

The blades were assembled on the ground and then hoisted to the top. Each blade is 75 feet long and made of fiberglass.

A worker prepared the 23-ton turbine-generator for its trip to the top of the tower. The wind turbines were manufactured by Vestas Wind Technology in Denmark, Europe.

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