

FCC Form 301
WTRW(FM)
FAC ID No. 164253
July 2008

Exhibit 32 – Attachment 10

Renewable Energy At A Glance

Wisconsin's First Windpower Project

Town of Glenmore

Wind Farms **Town of** **Glenmore,** **WI**

Wisconsin Wind Project - Low Speed Wind Turbines

In February 1998, two wind turbines were built on a farm near Green Bay to determine the feasibility of generating electricity from the wind in Wisconsin.

Research data will be collected for five years.

Installation costs of the Low Wind Speed Turbine Project were \$2.1 million.

Project Overview

Total Capacity: 1,200 kilowatts (two 600-kw turbines)

Turbine Manufacturer: Tacke Windenergie GmbH,
Salzbergen, Germany

Tower Height: 197 feet

Rotor Diameter: 151 feet

Base Diameter: 10.5 feet

Cut-In Speed: 6.7 mph (3 meters/second)

Site Location: Shirley Road, 1/4 mile east of Morrison Road,
Town of Glenmore, Brown County

Elevation: 986 feet

Average Wind Speed: 13.6 mph (at 110 feet)



Gov Tommy Thompson



Guests at dedication



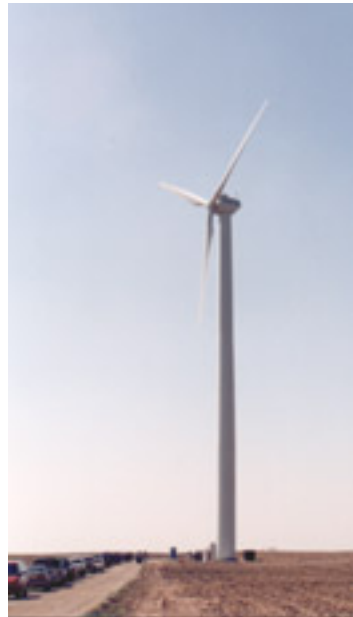
Inside turbine base

Annual Energy Output: 3,261,126 kilowatt-hours (gross total)

Life Expectancy: 20 years

Sponsors

Wisconsin Public Service
Wisconsin Power & Light
Wisconsin Electric Power
Madison Gas & Electric
U.S. Dept. of Energy's National Renewable Energy Laboratory
The DOE-EPRI (Electric Power Research Institute) Wind Turbine Verification Program



Turbine #1

Installation and Commissioning

Installation: February 1998

Dedication: Governor Tommy Thompson dedicated the Glenmore wind turbines on Earth Day 1998 commenting, "these wind turbines are a true harbinger of a bright future for wind energy in Wisconsin."

Text of Dedication Speech



[Excerpt from Speech](#) (Wav file 700kB)



Landowners Michael & Sandi Zirbel

Environmental Benefits

The 2-turbine installation will provide enough clean, renewable electricity to serve approximately 450 average Wisconsin homes each year. (*Source: Wisconsin Public Service Corp.*)

Links

To see online performance data -- [Wisconsin Wind Power Project](#)

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