

White Wind Farm

Presentation to Public

In the Matter of the Application of Navitas Energy, Inc. for an Energy Conversion Facility Permit for the construction of the White Wind Farm and associated collection substation and electric interconnection system

August 24, 2006

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Navitas Energy

Agenda

-  **Examination of Site Plan and Exhibits**
-  **Brief Presentation**
-  **Public Questions and Comments**



Company Profile





 **Navitas Energy**

 **Gamesa**



Navitas Energy

Navitas Energy

-  **Wind power developer based in Minneapolis**
-  **Midwestern focus**
-  **77% owned by Gamesa, 23% public owned**
-  **Own and Operate Midwest Center for Wind Energy**



Gamesa

-  **Installer and supplier of products and services in the renewable energy sectors**
-  **\$2.1 billion revenue for 2005**
-  **Over 7,200 employees worldwide**
-  **Manufacturing and development in the U.S.**



Gamesa Manufacturing

 300 new jobs in
Ebensburg, PA

 300 new jobs in
Fairless Hills, PA

 100+ new
professional
positions



Gamesa Manufacturing



Navitas Energy

White Wind Farm



100 Wind Turbines



200 MW











2008



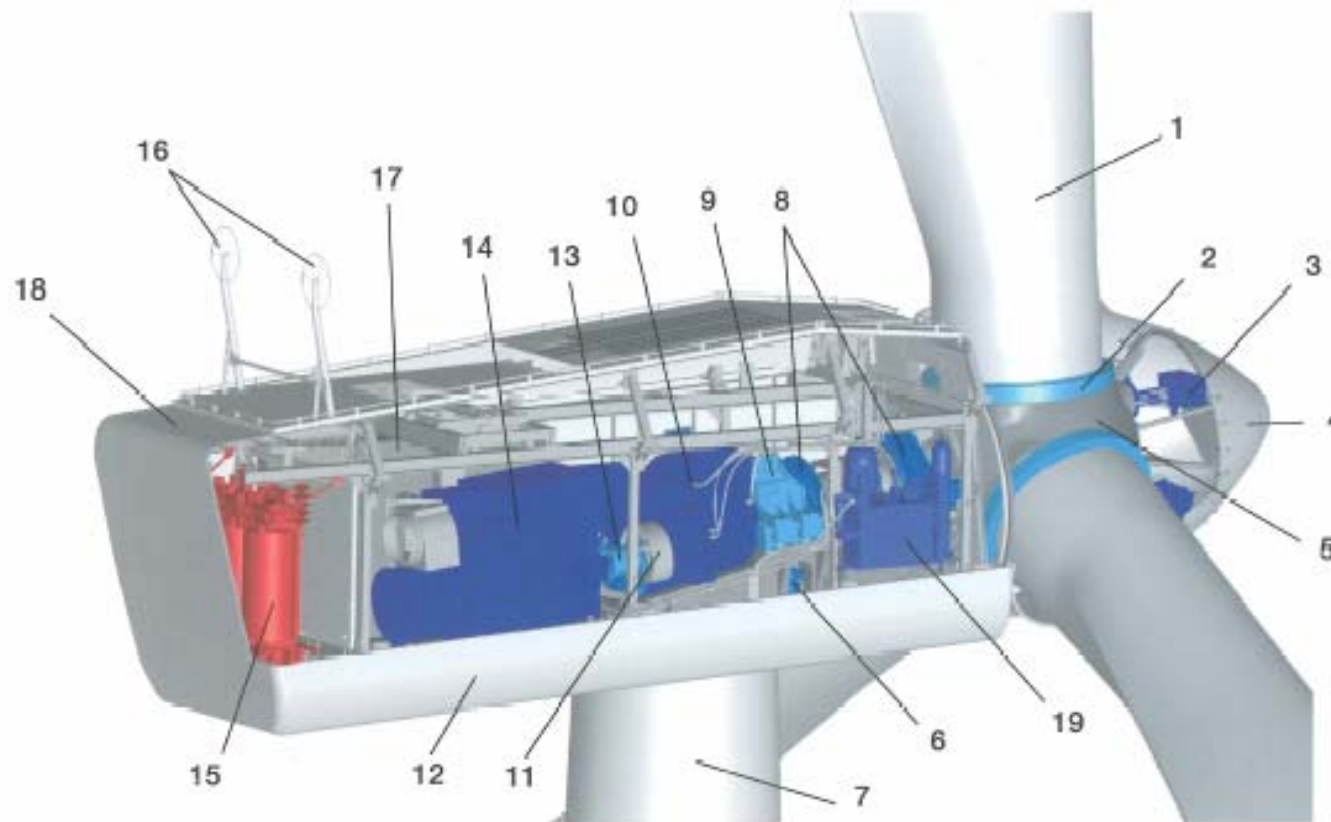


Gamesa G87 Wind Turbine

-  2.0 MW capacity
-  Hub height: 256 feet
-  Rotor diameter: 285 feet
-  Blade length: 139 feet
-  Bottom tip 114 feet off the ground
-  398 feet at the apex
-  Base diameter: 16 feet
-  9 to 19 RPM



Gamesa G87 Wind Turbine








- | | | | | | |
|----|--------------------------|-----|---------------------------|-----|--------------------------|
| 1. | Blade | 8. | Main bearing house | 15. | Transformer |
| 2. | Blade bearing | 9. | Gear tie rod | 16. | Anemometer and wind vane |
| 3. | Hydraulic pitch actuator | 10. | Gearbox | 17. | Top controller |
| 4. | Hub cover | 11. | Main disc brake | 18. | Nacelle cover |
| 5. | Hub | 12. | Nacelle support frame | 19. | Hydraulic unit |
| 6. | Active yaw control | 13. | Cardan or composite shaft | | |
| 7. | Tower | 14. | Doubly fed generator | | |



Ancillary Facilities



Turbine Access Roads







-  15 feet wide
-  Geotechnical fabric
-  8" - 12" gravel base
-  No change in drainage patterns
-  Available to landowners



Cable Installation








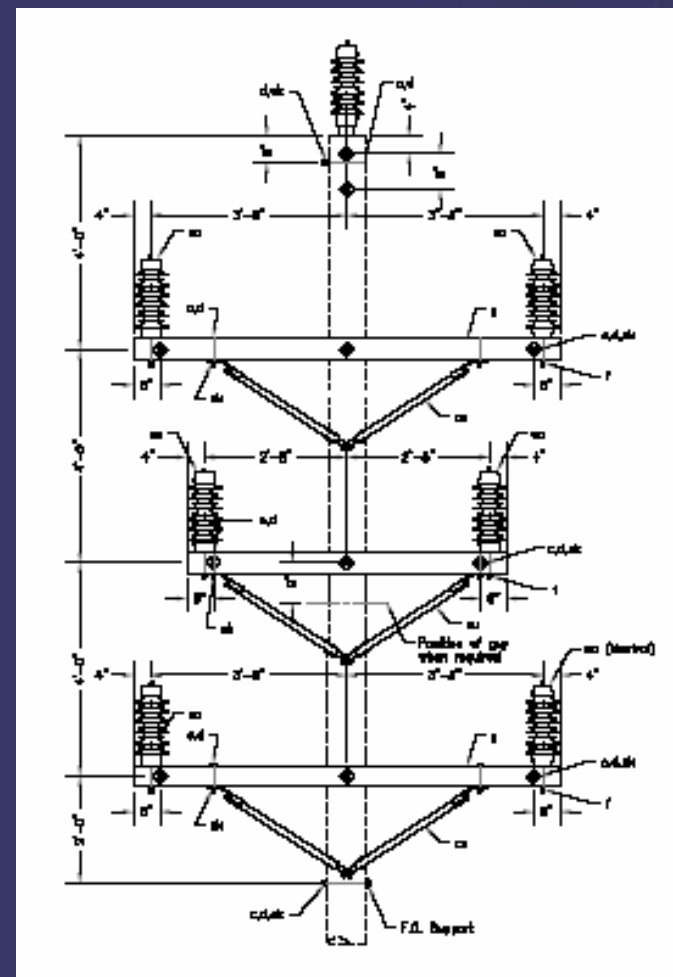
Underground Cable Installation

-  Minimum of 48" deep
-  Repair of damaged drain tile
-  Per code, cable covered with rock free soil and warning tape
-  Cross roads with directional boring
-  On private property except road crossings
-  Medium voltage level (34.5 kV)







Overhead Cable Installation

-  9 miles of 34.5 kV overhead
-  220' Spacing
-  40'-50' Tall
-  Conductor spacing to comply with Raptor protection guidelines
-  Located in Road ROW per Brookings County Ordinance for Feeder Lines



Substation

-  Substation to transfer energy from wind farm to Market
-  Located adjacent to Western's White Substation
-  Step up voltage from 34.5 kV to 345 kV
-  Secure facility



Benefits



Estimated Annual Property Taxes

- **\$1,052,319***
- **Allocation:**
 - \$16,761 Sherman Township**
 - \$232,389 Brookings County**
 - \$801,810 School Districts**
 - \$1,359 East Dakota Water**



Renewable generation reduces fossil fuel consumption from traditional generation sources



Source of revenue for local business and landowners

* Information from Joyce Dragseth, Director of the Brookings County Equalization Office



Contact Information

Thank You!

Paul Eberth

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