

Heartland Energy Solutions

President & CEO Charlie Sharp

Market Demands

- Turbine that matches U.S wind speeds
- Turbine that will hook up to a 3 phase line
- Turbine that is easy to transport
- Turbine that is easy to maintain
- Turbine that has a effective cost to production

Turbine Overview

- 100 KW Wind Turbine
- Turbine Name
 - Freedom™
- Grid Connection
- 90 feet Rotor Diameter
- 150 feet Tower
- 30,000 sq ft Turbine Assembly Building
- 9,000 sq ft Blade Assembly Building

Turbine Plant



Sheet Metal Area



Machining Area



Welding Containment Area



Blade Plant



Fabric Cutting Area



Blade Lamination Room



QUESTIONS ?