

# Beaver Ridge Wind - Fact Sheet

## Freedom Maine

---

- Wind Turbine Details
  - 3 General Electric 1.5 SLE Wind Turbines
  - 1,500 kW - Nameplate Capacity Per Turbine
  - 4,500 kW - Total Plant Nameplate Capacity
  - 262 Feet - Hub Height
  - 15 Feet - Diameter of Tower At Base
  - 7 Feet - Diameter of Tower At Top
  - 121 Feet - Blade Length
  - 6 ½ Tons - Blade Weight
  - 280 Tons - Total Weight (excluding foundation)
  - 10.1 to 20.4 - Range of Blade Revolutions Per Minute
  - 1.15 Acres (50,000 square feet) - Area Swept By Blades
- Production Details
  - November 1, 2008 - Commercial Operation Date
  - 12,500,000 kWh - Expected Average Annual Production
  - 2,000 Homes - Using 500 kWh Per Month
  - 7.8 mph - Wind Speed At Hub Height To Produce Energy
  - 27 mph - Wind Speed To Produce Nameplate Capacity
- Benefits To Regional Air Quality
  - 5,621 Tons CO<sub>2</sub> - Emissions Avoided Each Year
  - 137 Tons Methane - Emissions Avoided Each Year
  - 90 Tons Nitrous Oxide - Emissions Avoided Each Year
  - Preservation Of Productive Farm Land
- Benefits to Local Economy
  - Lower Taxes - About 1/3 Of Freedom's Existing Tax Base
  - Many Local Contractors Used During Construction
  - Ongoing Local Maintenance Personnel
- Miscellaneous
  - 1st Wind Farm Located In Central Maine Power Territory
  - 2nd Operational Wind Farm In Maine
  - Interconnection - Central Maine Power Transmission Line In Thorndike
  - Reduced Dependence On Foreign Sources of Energy