



# Spruce Mountain Wind Project

## WOODSTOCK, MAINE

Spruce Mountain Wind is a 10-turbine, 20-megawatt (MW) project that became operational in December 2011.

### PROJECT HIGHLIGHTS

- The project was built over the course of 6 months and provided jobs for about 150 workers.
- Site work, which was performed in under 3 months, included cutting / clearing 51 acres of trees to build the 7,300 linear feet (LF) of 24'-wide access road and 13,500 LF of 32'-wide crane / turbine roads.
- The team also cleared ten acres to provide a 1-acre pad for each turbine.
- Ten 24'-diameter x 6'-deep turbine foundations were completed in one month and included 18 3"-diameter / 42'-length rock anchors/foundation; 144 turbine anchor bolts/foundation; and 100 cubic yards of concrete/foundation.
- The electrical / collector system, which was completed in 3 months, included 4.1 miles of overhead 34.5-kv transmission line, 13,500 feet of 34.5-kv underground line, and 7,500 feet of single-phase overhead line to feed the project's O&M building.
- All turbine components were US-sourced.
- Installation (both erection and mechanical / electrical) was completed in 2.5 months, using three cranes for the turbine erection.

Location:	Woodstock, ME
Contractor:	Jay Cashman, Inc.
Contract Dates:	Jun. 2011 – Dec. 2011
Dollar Value:	\$33.0 Million – \$38 Million
Awarding Authority / Owner:	Spruce Mountain Wind, LLC
Project Engineers/Managers:	Patriot Renewables, LLC (a Cashman Affiliate)

Spruce Mountain Wind's turbines produce over 60 million kilowatt-hours (kWh) of emission-free electricity each year — enough to power ~9,600 homes (based on 500 kWh per home per month) and reduces the amount of CO<sub>2</sub> emissions by the equivalent of almost 3 million gallons of gasoline.

