SADDLEBACK RIDGE WIND

CLIENT: Patriot Renewables, LLC

LOCATION: Carthage, Maine

PROJECT DETAILS

The Saddleback Ridge Wind Project is a 34.2 MW wind project employing 12 – 2.85 MW GEWE wind turbines. The project utilized approximately 13.5 miles of underground and overhead electrical collector system to interconnect with CMP's high voltage system. Interconnection to the CMP system required the establishment of a new, 115 kV 3-breaker ring-bus switching substation.

Environmental constraints established the need for an intensive transmission corridor study. The substation transforms the collector circuit voltage from 34.5 kV to 115 kV allowing interconnection to CMP's Section 229. The substation is also configured to provide for interconnection with the Canton Mountain Wind Farm project.

SCOPE OF SERVICES

- Coordinated the interconnection application process for the proposed project.
- Performed transmission line corridor study to minimize wetland impacts and to create a more economical route.
- Reduced wetland impacts from 5 acres to less than 1.5 acres.
- Designed 9.3 miles of aerial collector system over mountainous and wetland terrain, with no permanent wetland impacts and no MDEP or USACE regulated stream crossings.
- Eliminated visual impact along Winter Hill Road by converting more than a one-mile span of the collector system from overhead lines to underground.
- Designed substation to accept three 34.5 kV bays, two of which will accommodate future expansion capabilities.