

## Excerpts from Executive Summary

Evergreen Wind Power V, LLC (Evergreen) is proposing the development of a 57-megawatt (MW) wind project on Stetson Mountain in T8R3 NBPP (a portion of Map 1, Lot 1) and T8R4 NBPP (a portion of Map 1, Lot 1-1), in Washington County, Maine. Evergreen is a wholly owned subsidiary of UPC Wind Partners, LLC (UPC Wind), a wind power development company with more than 3,000 MW of wind power under construction and development in North America. The approximately \$100 million Stetson Wind Project will build on the successful development of the 42 MW Mars Hill Wind Project, Maine and New England's first commercial utility scale wind energy project, which was developed, constructed and is now being operated by subsidiaries of UPC Wind.

The project area is in unorganized townships, principally used for commercial forest harvesting. There is an existing road network accessing and traversing the ridgeline. The ridge and surrounding area have been extensively harvested. Evergreen is seeking rezoning and preliminary regulatory approval from the Land Use Regulation Commissions (LURC) of an approximately 4,800-acre area; the project will result in less than 35 acres of new permanent clearing.

The turbine array will consist of 38 General Electric turbines approximately 390 feet tall, with a potential output of 1.5 MW per turbine. The turbines in the array would run north-south along the ridge at ground elevations varying from 600 to 1,100 feet. In addition to the turbine structures, the project would include meteorological towers, main and spur roads, a power collection system, general and turbine-specific lay down areas, an electrical substation, and an operations and maintenance facility.

No significant natural resources have been identified in the project area. Wetlands and streams are not expected to be impacted, and much of the area where the turbines will be located is already developed with forestry roads. The north and south ends of the ridge, as well as much of the center of the ridge, are accessible by existing roads. Meteorological monitoring has established that the wind resources for the site are suitable for wind energy production.

## Project Description and Key Facts

Evergreen Wind Power V, LLC (Evergreen) is proposing the development of a 57 megawatt (MW) wind project on Stetson Mountain in T8R3 NBPP (a portion of Map 1, Lot 1) and T8R4 NBPP (a portion of Map 1, Lot 1-1) in Washington County, Maine<sup>1</sup>. The project area is currently zoned as General Management Subdistrict, with inclusions of mapped and unmapped protection subdistricts for wetlands and streams. Evergreen is seeking rezoning of the approximately 4800 acre area to a Planned Development Subdistrict and preliminary regulatory approval from the Land Use Regulation Commission for 41 potential turbine locations for 38 General Electric (GE) turbines with a potential output of 1.5 MW per turbine.

It is necessary to permit 41 locations because micrositing adjustments to the final location for the GE turbines may be necessary as additional wind data becomes available. This application provides information sufficient to evaluate and provide preliminary approval for all possible turbine locations in order to preserve the possibility of constructing the 38 turbines in alternate locations.

The turbines in the array would run north-south along the ridge at elevations varying from approximately 600 to 1,100 feet. There is an existing road network accessing and traversing the ridgeline. The ridge and surrounding area have been extensively harvested in commercial forest operations. In addition to the

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<sup>1</sup> Coordinates for the existing 40 foot meteorological tower in the approximate middle of the project are 45 31.522 N, 67 58.608 W.

turbine structures, the project would include meteorological towers, main and spur roads, a power collection system, general and turbine specific lay down areas, an electrical substation, and an operations and maintenance facility. The initial portion of the transmission line leaving the substation would also be within the rezoned Planned Development Subdistrict.

The transmission line that may connect the project to the Bangor Hydro-Electric Keene Road substation in Chester will follow an existing transmission line corridor for most of its length. The transmission line portion of the project may be owned and operated by Bangor Hydro-Electric and/or Eastern Maine Electrical Cooperative, as appropriate. This application for rezoning and preliminary approval is for the project area on the ridge associated with Stetson Mountain. The transmission line permitting from Chester to the new substation on the ridge is being administered by the Maine Department of Environmental Protection (MDEP).

Noted below are key facts about the project, included to provide a quick reference to the primary attributes of the Stetson Wind Project.

Key Facts	Units	Comments
<b>Number of Turbines</b>		
General Electric 1.5sle	38 Turbines	1.5 MW, 389 feet to vertical blade tip
<b>Stetson Wind Output</b>		
General Electric 1.5sle	57 MW	
<b>Stetson Wind Energy Output / Year</b>		
General Electric 1.5sle	Approximately 164,776 MW hrs/yr	Assumes 33% annual average output
Maine Homes Equivalent	Approximately 27,500 homes	@ 6,000 kW hr/year/home
<b>Stetson Wind: Wind Resource</b>		
Prevailing wind direction	Northwest	
Average wind speed	7.5 meters/second	Between a Class IV and Class V wind resource

Key Facts	Units	Comments
<b>Pollution Avoided</b>		
Total Wind Farm Average/Day General Electric 1.5sle	Approximate pounds/day 649,258	Calculated using <a href="http://multimedia.wri.org/green_power/calculator_input.cfm">http://multimedia.wri.org/green_power/calculator_input.cfm</a>
Total Wind Farm Average/Year General Electric 1.5sle	Approximate metric tons/year 107,492	
<b>Cleared Acreage---within D-PD zone</b>		
General Electric ---38 Turbine Pads and 2 Crane Assembly Pads Temporary clearing Permanent clearing	76.6 Acres 10.4 Acres	315' diameter circular clearings (1.79 acres) + 0.21 acre to account for cut/fill = 2.0 acres each; add 50' x 240' (0.28 acres) for each crane pad. Permanent clearing =0.28 acre at each turbine site
New Ridgeline Road Segments Temporary clearing Permanent clearing	52.8 Acres 11.3 Acres	30,640 feet, average 75 feet wide 30,640 feet, average 16 feet wide
New Spur Roads Temporary clearing Permanent clearing	23.9 Acres 7.6 Acres	20,800 feet, average 50 feet wide 20,800 feet, average 16 feet wide

Existing Roads, General Widening Temporary clearing	29.3 Acres	21,088 feet, avg. 57 feet add'l cleared 6,262 feet, avg. 12 feet add'l cleared
Stump Dump	<1 Acre	
Operations and maintenance building and substation	3 Acres	
Batch plant and lay down areas Temporary clearing	15.5 Acres	2 acres for each batch plant location; 11.5 acres for material/equipment laydown areas
Transmission line corridor Temporary clearing	10.3 Acres	From substation to edge of D-PD zone (approximately 3,000 feet, 150 feet wide)
<b>Total Project Clearing</b>	<b>241.9 Acres</b>	
<b>Temporary clearing</b>	<b>209.4 Acres</b>	
<b>Permanent clearing</b>	<b>32.5 Acres</b>	
<b>Wetlands Impacted</b>		
Roads	0 Acres	
Turbines	0 Acres	
Buildings	0 Acres	
Transmission line	14,000 sq. ft.	Temporary clearing, no fill
<b>Total Wetland Impact</b>	<b>14,000 sq. ft.</b>	
<b>Road Mileage</b>		
Existing Ridgeline Road	3.99 Miles	
Total New Ridgeline Segments	5.80 Miles	
New Spur Roads	3.94 Miles	
Existing Access Road	1.19 Miles	
<b>Total Existing Roads</b>	<b>5.18 Miles</b>	
<b>Total New Roads</b>	<b>9.74 Miles</b>	
<b>Approximate Location Distances</b>		
From State Route 169	0.5 Miles	From closest turbine – as the crow flies
From Danforth	7 Miles	
From Springfield	8.5 miles	
From Baskahegan Lake boat launch	9 Miles	