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29 Pitman Road, Barre, Vermont 05641 USA :: TOLL FREE 877 90 NORTH :: TEL 802 461 2955 :: FAX 802 461 2996

## **Northern Power's New Class III Wind Turbines Produce 15% More Power for Low-Wind-Speed Sites**

*New Offerings Drive Lower Cost of Energy and Higher ROI for Customers*

### **PRESS RELEASE**

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**MEDIA CONTACT:**

Lynda Engler (802-461-2854) lengler@northernpower.com

Barre, VT (May 6, 2013) – Northern Power Systems ([www.northernpower.com](http://www.northernpower.com)), a next-generation wind turbine technology company and leading manufacturer of permanent magnet direct-drive wind turbines, has further expanded its product offerings with two new turbine models specifically designed for low wind sites. Both the NPS 60-23 and the NPS 100-24 are based on the proven NPS 100-21 platform, but leverage product features that produce higher energy capture in low winds while reducing the noise profile of the turbine, enabling more siting opportunities for the owner. The Company has successfully deployed more than 20 of these turbines in the United States, United Kingdom and Italy during 2012 and 2013, demonstrating the success of the design.

“NPS is committed to delivering enhanced offerings that lower costs and increase performance for turbine owners. We are increasing the value proposition of our already highly-capable NPS turbines through an integrated road-map of expanded product and services offerings, of which our proven low wind enhancements are just one example,” stated Troy Patton, President and CEO, Northern Power Systems.

The NPS Low Wind turbine fleet has surpassed 50,000 operational hours with availability in excess of 97%, and has generated more than 1,500 MWh of clean, renewable energy, enough to power more than 150 US (or 450 UK) homes for an entire year. These improved models are optimized for low wind and yield comparatively more energy in low wind regimes.

The NPS 100-24 is based on the proven platform of the NPS 100-21 which was originally designed to service remote areas such as Alaska, where regular maintenance is not an option. The NPS 100 is a highly reliable turbine that utilizes permanent magnet direct-drive technology and has fewer moving parts than a conventional gear-box based wind turbine. The larger rotor diameter, lower rpm and tip speed of the NPS 100-24 and 60-23 makes for quieter operation, while the longer blades capture more energy at lower wind speeds. The NPS 60 model

generates 59.9kW rated power and is utilized in areas where grid connection capacity is a constraint.

Scottish farmer Mervyn Wallace recently installed an NPS 60 at his farm, his second Northern Power Systems wind turbine. "I'm excited that Northern Power came out with a new turbine that is designed specifically for lower wind speeds. I am very pleased with the revenue that both of my Northern Power turbines are now earning for me. NPS turbines are an excellent return on capital invested."

With over 2.5 million run time hours across its fleet, Northern Power turbines provide customers with clean, cost effective renewable energy. The quiet, low profile turbines with multiple tower and rotor options fit perfectly in remote locations as well as in agricultural and industrial areas. Northern Power turbines' reliable, safe and simple operation gives owners peace of mind while delivering the highest potential opportunity for customers to maximize their returns.

### **About Northern Power Systems Distributed Wind**

Northern Power Systems has over 30 years of experience in developing advanced, innovative wind turbines. The Company's proven, next generation permanent magnet direct drive (PM/DD) wind turbine technology is based on a vastly simplified architecture that utilizes a unique combination of a permanent magnet generator and direct-drive design. This proven approach uses fewer moving parts, delivers higher energy capture, and provides increased reliability due to reduced maintenance and downtime. Northern Power Systems currently manufactures the NPS™ 60 and 100 turbines, with rotor sizes suitable for various wind classes.

Northern Power Systems is a fully integrated company that designs, manufactures, and sells wind turbines into the global marketplace from its headquarters in Vermont, USA, with European headquarters in Zurich, Switzerland and a strong presence in the United Kingdom and Italy.

With over 2.5 million run time hours across its fleet, Northern Power turbines provide customers with clean, cost effective renewable energy. The quiet, low profile turbines with multiple tower options fit perfectly in remote locations as well as in agricultural and industrial areas. The reliable, safe and simple operation of Northern Power turbines gives owners peace of mind and delivers the highest energy output in their class for the best return on investment. To read more about the Northern Power wind turbines, please visit [www.northernpower.com](http://www.northernpower.com).

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