



Press Release – Mar 9, 2010  
For Immediate Release:

## **VAWT Systems, LLC Announces Revolutionary new Axial Flux Permanent Magnet Generator (PMG)**

Anaheim, CA – **VAWT Systems, LLC**, has invented, engineered, and begun producing a revolutionary line of Axial Flux Permanent Magnet Generators (PMG's) specifically designed for the Renewable Energy market. The Polar Wind Generator (PWG) series is unlike conventional PMG's or PMA's (Permanent Magnet Alternators), these generators are built for the highest performance at the lowest possible RPM's (Revolutions per Minute). These have been developed to produce useable power at speeds lower than 70 RPM and full Rated Power at 400 RPM.

The VAWT Systems 1 kiloWatt (kW) PWG-1 is available in two configurations. A low voltage model (PWG-1-LV) for battery charging and a high voltage model (PWG-1-HV) for connecting directly to a grid-tied A.C. inverter system. These generators are perfectly suited to Vertical Axis Wind Turbines (VAWT's) as they operate at much lower RPM's than traditional Horizontal Axis Wind Turbines (HAWT's) but also allows HAWT's to operate at lower wind speeds. The PWG-1 is also well suited for other renewable rotational energy sources such as water (hydro) or "wave" power or people powered (bicycles and exercise equipment).

Based in Anaheim, California, VAWT Systems has the resources and facilities to provide research and development, manufacturing, distribution, sales, support and training for its dealer, distribution and direct sales network.

Partnering with SI Manufacturing (<http://www.simfg.com>), a well established company in Orange County, CA, has enabled VAWT Systems to utilize 50 years of engineering and production expertise.

Using state-of-the-art NdFeB (Neodymium Iron Boron) magnets, VAWT Systems' PWG-1 is a 1.2 kW axial flux permanent magnet generator capable of producing usable power to the electrical grid (with optional grid-tie inverter) at very low RPM's and will allow operation at wind speeds below 15 mph where most wind turbine generators fall short. More people will now be able to use them where only moderate wind is available. In addition to commercial and industrial users, the average residential home can now benefit from wind power.



Production quantities of the PWG-1 generator will be available 2<sup>nd</sup> Quarter 2010.

The "Polar Wind" series of generators are scalable from 500 Watts to 10 kW and higher. These generators are available directly from VAWT Systems, LLC or from our dealers and distributors and representatives. The MSRP for the PWG-1-HV or the PWG-1 – LV is \$2495.00 fob Anaheim, CA. Quantity and Dealer discounts apply.

For Data Sheet and specifications, please see [www.vawtsystems.com/PWG-1.html](http://www.vawtsystems.com/PWG-1.html) or contact us at:

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