

NEWS RELEASE



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MEDIA CONTACTS

Susan Giordano, General Manager
Second Wind Inc.
Ph. 617 776-8520
susan@secondwind.com

Naomi Pierce, Marketing Associate
Second Wind Inc.
Ph. 617 776-8520
naomi.pierce@secondwind.com

VISITORS TO WINDPOWER 2007 WILL BE CHIRPING ABOUT MORE PRACTICAL, LOWER-COST SODAR SYSTEM

Triton® Profiler Delivers Accurate Wind Data Unattended and In All Weather – a ‘200-meter met mast’

Somerville, MA – Site developers, meteorologists and wind-energy consultants will be able to use sodar more often and more affordably, Second Wind Inc. said today in announcing a new product that re-invents sodar for wind profiling.

The Triton® sonic wind profiler is designed to address the common challenges that have limited the use of sodar for wind resource assessment, company officials said. It captures accurate wind data at height up to 200 meters, in any weather, at any location, without being attended. Readings are delivered via satellite and look like anemometry results, with no expert analysis required to understand the data.

Currently in field testing, the new product will be officially unveiled June 3 at WINDPOWER 2007 in Los Angeles, CA.

About Sodar

Sodar stands for sound detection and ranging, and is similar to the sonar technology used by submarines and ships. Sodar sends an audible “chirp” up through the air, and wind turbulence sends a portion of the sound back toward the ground. By precisely measuring the frequency and time delay of the chirp’s echo, the sodar device measures the wind speed and direction at various heights.

Sodar technology is commonly used for “site profiling” at the end of the prospecting process for potential wind farm locations. It measures above the 60-meter height of most meteorological masts, assessing wind at actual turbine heights. In addition, sodar is more portable than masts and can be moved to determine ideal turbine placement.

Current sodar products have multiple limitations for wind profiling. They require on-site support to operate, and deliver wind data in formats that require expert interpretation. Readings must be carefully analyzed to filter out “side lobes,” or sound artifacts from nearby trees and buildings that can produce inaccurate results. Most current sodar products also must be covered in rain or snow to avoid damage to the sensitive microphones and speakers.

Benefits of the Triton Sonic Wind Profiler

Numerous Triton innovations address the shortcomings of previous sodar products for wind profiling.

- *More accurate data.* A hexagonal speaker array (patent applied for) focuses sound beams more effectively than previous designs, which improves signal-to-noise ratio accuracy and decreases disruption. The array is housed in a tri-lobed acoustic enclosure, which reduces the chance of sound artifacts disrupting data.

- *Unattended use in any location.* A solar array and battery can provide adequate power for the Triton unit to operate for prolonged periods of time, depending on available sunlight and amount of use. Bundled with new Skyserve satellite wind data service, the Triton profiler delivers accurate wind data to any computer from any location in North America.
- *Ready-to-read data.* Unlike previous sodar products, the Second Wind sodar delivers easy-to-read data that is similar to data read outs from conventional meteorological towers.
- *Works in any weather.* The unit is made of rugged plastic with stainless steel components and sound absorbing material that functions when wet, unlike foam. Internal temperature sensors and a propane heater also allow Triton to operate in icy conditions.
- *More portable and less obtrusive.* At six feet tall, Triton can be easily towed by a pick-up truck. The unit has internal controls to compensate for uneven ground, and a built-in GPS and compass identify the time and location of data as it's captured. The "chirp" is also less noisy than other sodar products – better acoustics make Triton harder to hear than any other sodar.
- *Affordable.* The Triton product will be manufactured in quantity, which allows the company to price it far less than current custom-built products. Prices for Triton will range from a base price of about \$45,000 when fully configured with the SkyServe satellite wind data service and optional accessories.

Second Wind President Walter Sass said the Triton product has been designed specifically for wind profiling by users who are not sodar experts.

"The Triton profiler literally re-invents sodar technology to meet the needs of customers in the wind energy industry," Sass said. "We are confident this sodar system will immediately become a popular choice for profiling – it functions like a 200-meter met mast with the added benefit of being completely portable. In fact, we believe that Triton can eventually replace meteorological masts in numerous wind assessment applications."

About SkyServe Satellite Wind Data Service

SkyServe Satellite Wind Data Service is a new service, available only from Second Wind, provides a new way of obtaining data from remote locations that is superior to current cell-modem and satellite transmission options. The service provides reliable data transmission over the Globalstar satellite network, and combines weather data with precise time and location stamps, using GPS technology.

About Second Wind Inc.

Founded in 1980, Second Wind Inc. advances the use of wind data to make wind energy more profitable for owners, painless for operators and practical for consumers. Key products include: Nomad® data logger and tower systems; Triton® sodar systems; SkyServe® satellite wind data service; Advanced Distributed Monitoring System and Enterprise Management System software for wind farm monitoring/SCADA; and Phaser® power transducers. Second Wind is headquartered in Somerville, Massachusetts, USA, and is privately held. For more information on SkyServe Satellite Wind Data Service and Second Wind's other products, visit www.secondwind.com.