

TRITON™ Sonic Wind Profiler

The Wind Industry's Leading Remote Sensing System

Reducing uncertainty in site selection

Wind farm developers and their investors rely on wind measurement data to select viable sites for wind farms, and to select locations for wind turbines. Data on wind resources at and above hub height improves site assessments and reduces project uncertainties.

A resource assessment system for today's wind turbines

Enter Second Wind's Triton Sonic Wind Profiler, an advanced sodar that provides wind data well above the 140-metre rotor tip-height of today's large wind turbines. Triton also captures extensive data on anomalous wind events such as speed and direction shear and turbulence that directly affect wind turbines' power output — and that could impact a windfarm's performance.

High height data

Triton's ability to capture wind data at heights up to 200 metres reduces uncertainty inherent in the use of extrapolated data from meteorological towers. At 120 metres, data captured by Triton exceeds 85%. Triton's performance has been validated by studies correlating measurements from anemometers at a number of sites.



Key Benefits

- High height data — to 200m
- No permitting required
- Extremely low power consumption (7 Watts) — 100% solar powered
- Data access and monitoring via SkyServe web portal
- Ease of deployment — installed and collecting data within 2 hours
- 98% operational uptime based on more than 85 systems deployed worldwide since April 2008

Low power consumption

Triton requires only 7 Watts of power for continuous operation, far less than other remote sensing systems. Technology innovations like low-power amplifier chips and the Blackfin ARM — one of the lowest-power CPU's on the market — enable Triton to be powered by two solar panels and run continuously without being attended.



Certified Triton Partner for Italy
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Monitoring and near-real-time data access via SkyServe®

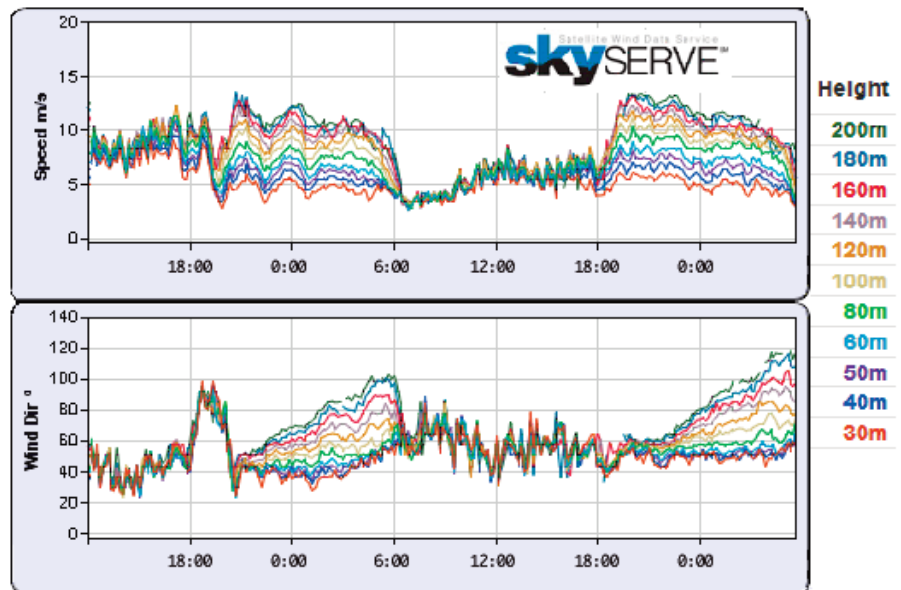
Download and analyse your wind data at any time, from any location via the Internet. Our SkyServe satellite wind data service delivers ten-minute averages over a secure web server, and graphical display tools make the data easy to read and understand. Second Wind's support team monitors the Triton fleet daily via SkyServe.

Easy to deploy and relocate

In a fast-paced industry, speed provides a competitive advantage. The low-profile Triton can be deployed and transmitting data within a few hours. By contrast, meteorological towers require a two-to-six-month permitting process and days to erect. With no moving parts, solid-state electronics, and a tough, lightweight low-density polyethylene (LDPE) enclosure, Triton is well equipped for redeployments in the toughest environments, in all climates.

The most cost-effective wind measurement system available

A fully installed Triton costs less than an 80-metre meteorological tower wind assessment system and substantially less than a lidar system.



The industry's leading remote sensing system

There are more than 85 Tritons in operation with leading wind project developers and operators, utilities, and wind resource assessment service providers in diverse locations spread over three continents (Europe, North America, and Australasia).

Triton is changing the way the wind industry measures the wind. To learn how you can obtain valuable insight into your project's financial performance, contact Second Wind today.

For every stage of your wind project

Use Tritons for:

- Greenfield prospecting
- Micro-siting and turbine suitability
- Wind speed and direction shear
- Hub height wind speed validation
- Ramp event forecasting
- Power curve testing and nacelle anemometer correlation

Do you want to learn more about how you can use Triton to reduce uncertainty throughout the life of your wind energy project? Call us today at **+44 (0) 1202 624272**, or email tritonsales@secondwind.com



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