

WIND MONITORING SERVICES from WindBusiness

The efficient approach to wind monitoring:

Let WindBusiness do it for you. Minimise risk, simplify setup, and monitor more sites for the same development budget.

- > Monitoring towers are installed by WindBusiness on request, to provide a full wind data delivery service.
- > WindBusiness carries the capital cost of establishing, owning and operating the equipment, obtains landowner and planning approvals, and licenses the data exclusively to the client for a flat annual fee.

Custom wind monitoring by WindBusiness, SEDA's commercial wind energy development unit, provides developers with **low-cost** and therefore **low-risk** data acquisition, and removes the resource-intensive establishment process involved in seeking landowner and planning approvals and arranging contractors for equipment, data monitoring, analysis and reporting. Low upfront costs also allow developers to monitor more sites within a fixed development budget.

What do you get?

WindBusiness will establish and operate monitoring equipment on a site specified by the developer. WindBusiness owns all data, and provides the data exclusively to that developer under licence for the term of the monitoring period (a minimum of 24 months).

If wind development proceeds on the site, the developer will have the opportunity to purchase the equipment and data from WindBusiness. Otherwise, at the end of the licence period WindBusiness can decide to move the monitoring tower and equipment, or licence the data to other parties. WindBusiness retains the right to use the data for internal purposes at any time.

Under the arrangement, WindBusiness will:

- acquire an agreement with the landowner to monitor at the preferred site
- apply for and attain planning consent to install monitoring equipment
- acquire and install a monitoring tower as required by the client (40m and 65m towers are standard; other heights available on request)
- take all risk in the monitoring tower for the term it is installed, and arrange all insurances
- install high-quality, calibrated monitoring equipment on the tower at heights as required by the client
- carry out data monitoring for a minimum of 24 months
- provide quarterly reports which include a data summary, statistical analysis and maintenance history
- provide copies of the raw data as required by the client
- check the health of the equipment regularly and carry out error detection processes to ensure rapid repair of any malfunctions or damage
- recalibrate equipment as required (usually annually or biennially)
- at the end of each year, provide a summary of data acquired and relevant wind statistics for that year
- for an additional fee, on request, carry out longer-term correlation with other data (where available), and report on the quality of correlation data used.

Monitoring specifications

WindBusiness has access to a wealth of experience with wind monitoring systems, drawn from the operation of its network of 25 monitoring sites across NSW.

Only the highest-quality equipment is used, to ensure the accuracy, reliability and effectiveness of the data.

All towers are heavy-duty guyed lattice steel masts, which are climbable for equipment maintenance and designed for long-term performance. Anemometers are Vaisala cup-type with accuracy within +/- 0.17 m/s, and are used with McVan 'Syncrotac' wind vanes. Datataker data loggers with up to a month of data memory are interrogated remotely via the digital GSM mobile phone network, or by satellite phone where necessary. The sites are fully self-contained, with solar panel and battery backup to maintain power even during long periods of bad weather. All equipment is shielded from the elements and has full lightning protection.

All monitoring and data handling processes adhere to quality assurance standards developed by the CSIRO to ensure the highest levels of accuracy and reliability. Each site is interrogated each week to monitor system health, and any faults are either rectified remotely or by a technician visiting the site.

Data security and confidentiality

WindBusiness understands the critical importance of data security and confidentiality:

- WindBusiness maintains its own confidential filing and data storage system, separate from SEDA's and accessible only by key WindBusiness staff under Confidentiality Agreements.
- Client identity and activities are kept strictly confidential within WindBusiness.
- The location of monitoring sites is provided only to key site contractors under Confidentiality Agreements.
- Data collection, handling and analysis are conducted by CSIRO's Wind Energy Research Unit under strict confidentiality arrangements.

Product pricing

Prices include all landholder permissions, planning approvals, tower installation, maintenance, calibration, servicing, fault rectification, data monitoring, data analysis, data reporting.

See attached pricing sheet.

About WindBusiness

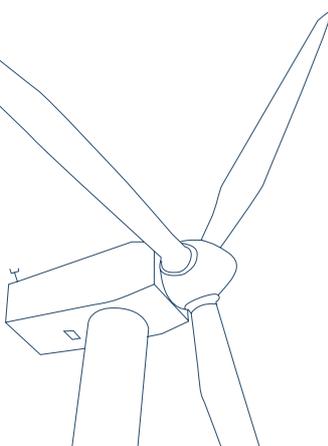
WindBusiness is a commercial venture set up by the Sustainable Energy Development Authority of NSW (SEDA) to offer sophisticated information packages and data services to the wind energy industry. Its target is to see at least 1000 MW of wind energy capacity installed by 2010.

WindBusiness products and services are priced to represent a good investment for wind energy developers, but still deliver a return to SEDA so that it can continue to enhance wind energy opportunities for the benefit of the industry as a whole.

Quality, security and reliability underpin all WindBusiness operations, with systems in place to ensure that wind data and other confidential information are kept secure, and that products and services are delivered on time and to the highest standard of quality.

Opportunities for wind energy developers have never been greater. NSW has well over 1000 MW of potential capacity, with just 17 MW installed.

Take advantage of these opportunities with the help of WindBusiness.



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