

### MONITOR & MANAGE

- ◆ Monitor status, power, site conditions
- ◆ Calculate energy, revenue
- ◆ Reports for billing, carbon credits, efficiency
- ◆ Performance over any time period
- ◆ Diagnose problems - alarms by email
- ◆ Retrieve manuals, documentation

### APPLICATIONS

- Continuous monitoring - output, revenues
- Maintenance - email/mobile device alerts
- Reporting, invoicing
- Public relations, browser accessible views
- Pre-build site analysis, energy/revenue simulation
- Web based, no servers or software to install



### Why WindVu

WindVu is a web based monitoring system that builds a lifetime database of each turbine on a windfarm for analysis to maximize output. Powerful web graphics enable viewing status, output, revenues and performance over any time period. Use it for creating invoices and reports like carbon credits. Team members can login to access different information according to their needs. Non confidential views such as the carbon footprint or an updatable slideshow can be made accessible for public relations to build local goodwill and attract investors.

### How it Works

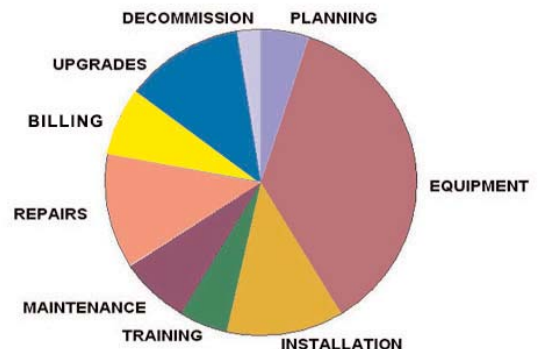
Either an interface into the system SCADA or a separate Kyoto 235 data collection module is installed at the wind farm substation and connected to the internet. Remote servers continuously collect power and site condition information and build a database. Using a password to login, these powerful servers process the data to present easy to understand graphics. The system can be set up to generate custom invoices and reports on demand. Being a browser accessed web service, there are no servers to maintain or software to install. Multiple sites with different proprietary SCADA systems can be viewed from a single account and new turbines are easily added. Receive emails about faults or regular status updates according to your preferences.

### Installing WindVu

Either a connection to the system SCADA or a Kyoto 235 controller is installed at the grid connection point and connected to a shared internet connection. Remote WindVu servers automatically collect and build a lifetime database of the installation. Access is from a PC browser or mobile device. No software is required. For initial site analysis, files of wind samples can be uploaded with turbine power curves for realistic power/revenue simulations using actual conditions.

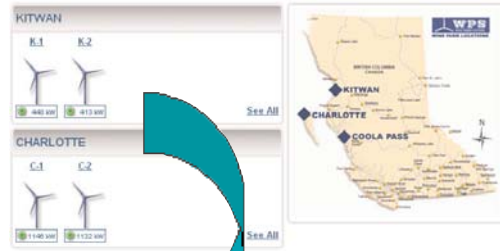
### Reduce TCO - Total Cost of Ownership

Ensure maximum output from wind farm installations by minimizing downtime, evaluating performance and producing timely reports.

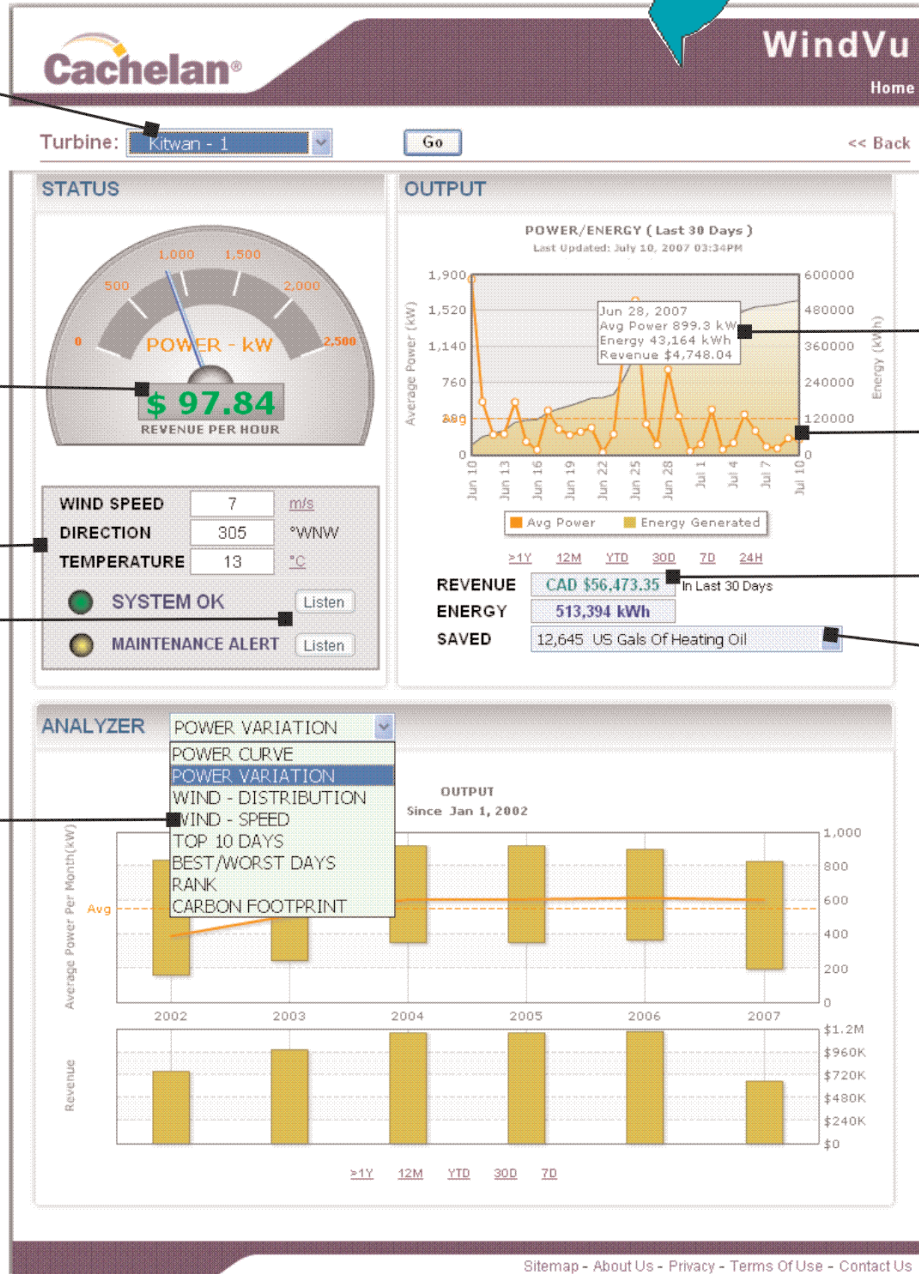


## Easy to Understand

View a single wind turbine or an entire windfarm. Dynamic screen graphs and instruments provide current status or analysis over any time period. Check performance against manufacturer's specifications, receive voice messages about abnormal conditions or look for trends. Powerful servers process and present information in easy to understand formats with separate public and password protected views.



Select turbine or entire site



Power Revenue

Site Conditions

Voice message alarms

Analyse performance to spec, site conditions, variations

Scroll over point for more detail

Power & energy any time period

Total energy & revenues

Carbon footprint for public relations

Cut & paste views into reports



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