windographer

Let your wind knowledge soar.

Industry leading software for wind data analysis

Windographer is the **industry leading software** for analyzing wind resource data, whether measured by met tower, SoDAR, or LiDAR. This intuitive software improves the productivity of wind resource data analysts and creates consistent, high-quality output suitable for decision makers.

Basic

Simple and inexpensive

- Imports text and Excel files in wide variety of formats
- Appends data into existing files
- Allows manipulation of data and tracks changes
- Calculates wind turbine output and compares turbine models
- Exports time series data to text files

Standard

Manual quality control and enhanced import

Basic features plus:

- Imports RWD, NDF, and NSD files
- Allows manual flagging of data segments
- Contains detailed shear and turbulence modules
- Produces formatted reports that you can save to PDF
- Exports to WAsP, WindSim, and Meteodyn WT

Professional

Fast automated quality control

Standard features plus:

- Includes 'flag rules' with mathematical criteria
- Detects and flags tower shading automatically
- Detailed tower distortion analysis module
- Extreme wind analysis module
- Probability of exceedence module (P50, P90, P99)

Learn more and download a free trial at **www.windographer.com**

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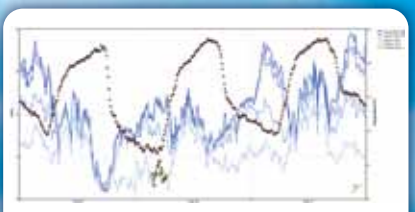
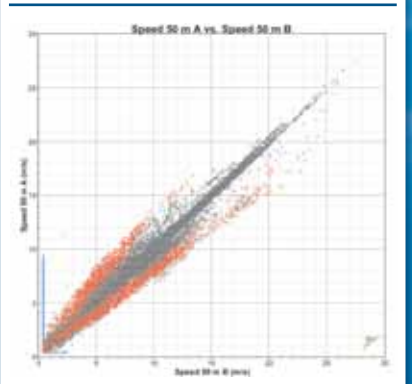
Access and Visualize Your Data

Import all kinds of data	Windographer imports data from met towers, SoDAR profilers, and LiDAR units. It reliably reads data files written by data loggers from NRG Systems, SecondWind, Campbell Scientific, Atmospheric Systems Corp, and the ZephIR, among others.
Visualize your data	Windographer provides a wide range of graphs and tables to display not only the data from the original data file, but also calculated quantities such as air density and turbulence intensity. Flexible filter and display settings give you a high degree of control, and fast updates mean you can change settings and see the effect immediately.



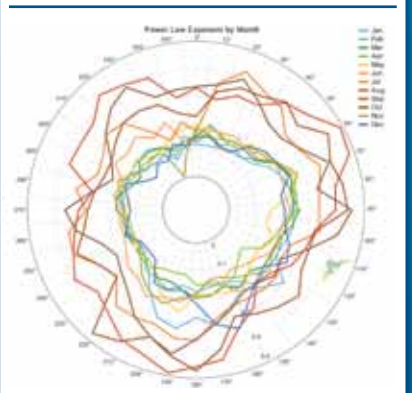
Improve Data Quality

Every data set has issues	Quickly detect and flag problems such as tower shading, icing events, or sensor malfunctions, and filter bad data from calculations. Apply scaling factors, offsets, or time shifts, and even fill gaps.
Flag data segments based on formal criteria	Create your own flag rules to automatically flag all data segments that meet the criteria you specify.
Automatically flag data affected by tower shading	Windographer automatically detects tower shading patterns and generates the corresponding flag rules, so with two clicks you can flag every data point affected by tower shading.



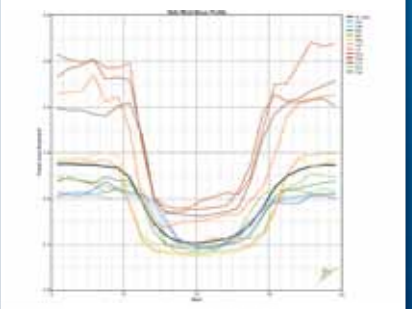
Perform Advanced Analyses

Wind shear	Display the wind shear versus direction, month, hour of day, wind speed, or any combination thereof. Filter by year, month, direction sector, flag, or any data column. Use all wind speed sensors or just a subset. Choose graphical or tabular format.
Turbulence	Display turbulence intensity versus wind speed, wind direction, month, or time of day. Filter by wind direction, flag, and other criteria. Graphically compare the measured turbulence to the standard IEC turbulence categories.
Wind turbine energy output	Estimate the gross and net energy output and capacity factor of a wind turbine in the measured wind regime at any hub height, accounting for the effects of varying wind shear and air density. Choose from the library of over 100 wind turbines, or add your own.
Probability of exceedence	Analyze the distribution of annual mean values for any data column to calculate P50, P75, P90, and P95 values.



Create Professional Output

Create standard reports	Standard reports assemble numerous graphs and tables together in a convenient package. You can export reports to a PDF document for sharing outside of the program.
Export any graph or table	Windographer exports graphs to a metafile or a PNG file and exports tables to a text file or copies it to the clipboard for easy pasting into a spreadsheet.
Export to WAsP, WindSim, or Meteodyn WT	Move your data easily into WAsP via .tab file, WindSim via .tws or .wws file, or Meteodyn WT via .tim file.



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