

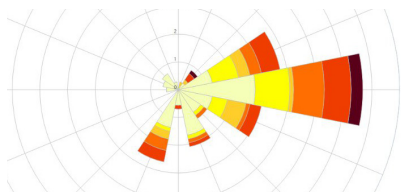
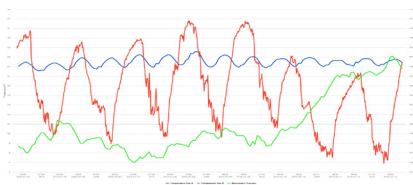
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# VISTA DATA VISION

**DATA MANAGEMENT FOR**  
**-METEOROLOGICAL DATA**  
**-HYDROLOGICAL DATA**  
**-ENVIRONMENTAL DATA**

**BRING YOUR DATA TO LIFE**  
**[WWW.VISTADATAVISION.COM](http://WWW.VISTADATAVISION.COM)**

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## What is Vista Data Vision

VDV is a comprehensive sensor data management system for monitoring measurements, storing data in a database, offering web access, alarm service, reports and application specific data handling toolkits for various disciplines.

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## Who is using VDV

Our clients include consultants, contractors, researchers and educators in the fields of Civil Engineering, Geotechnical Engineering, Mining and Environmental Monitoring.

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## Why use VDV

Use the advanced and robust VDV data management system to shorten time to deployment and lower operational cost as well as to provide the best tools for day-to-day operations and research work.

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## TWENTY YEARS AND GOING STRONG

Since its beginning in 1984, Vista Engineering has been working with data monitoring systems. As soon as computers and programming became affordable we launched our first version of VDV in 1991.

VDV has since that day been in constant evolution adding new technologies to its core of functions.

Now, with its advanced Visualization Interface, and important features like Web Service, Displacement Graphs, Google Maps, Summary Reports, Alarm Service, Trend Lines, Web Cams, and Vibration Data support, VDV is the most powerful Data Management service available for any type of project.



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## 2 WAYS TO RUN VDV

*Contact us and get a quote for  
your projects.*

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### VDV In house

Install and Deploy VDV on your own server and run a data service. Data will be collected and stored in a database which is in-house. Users will use a web browser to access the real time data. We provide the software and you take care of the hardware and maintenance. You have full control of the system and can make all changes needed on your server.

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### VDV Hosting

Data is sent to our server and users can access the data through a web browser. We take care of all software and hardware maintenance and you can focus on the monitoring project. You have access to a VDV Specialist to get your projects up and running quickly.



VDV is mobile ready - Access sensor data anywhere and anytime

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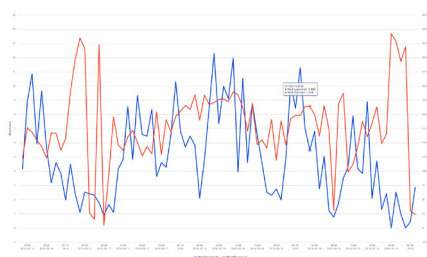
*VDV makes it easy to store data from different sources in a standard database and view it on a web page.*



Vista Data Vision web page layout

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## THIS IS VISTA DATA VISION



Graph showing wind speed and wind direction over a period of 4 days.

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### All Included

The Vista Data Vision (VDV) Data Management System contains powerful tools to store and organize data collected from a wide variety of data loggers. Using an intuitive interface, it only takes a few mouse-clicks to configure data storage, data visualization, alarm settings and web service.

### Powerful

VDV operates on top of small and large datalogger networks containing tens and hundreds of dataloggers connected to thousands of sensors and serving a large number of users.

### Visualization

A picture is worth a thousand words - This is the philosophy of VDV, with its graphical interface for all functions like Trend Lines, Alarm Notification, Real-Time Display and Google-Maps.

### Quick Reports

Data is more than trend lines. VDV offers Quick Reports to help users to gain more information from time series. Quick Reports include XY graphs, Intensity Graphs, Overlay Graphs, Sort by Size, Histogram, Wind Rose and Download of Data.

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### Environmental Data Handling

VDV offers vital visualization of Environmental Data, like the filter Wind Rose, Overlay Graphs, XY-Graphs and Intensity Plots, all which are most useful for quick correlation of data and to help drawing conclusions about complex data sets.

### Web Service

VDV has a built-in comprehensive Web Service serving any number of web-based users.

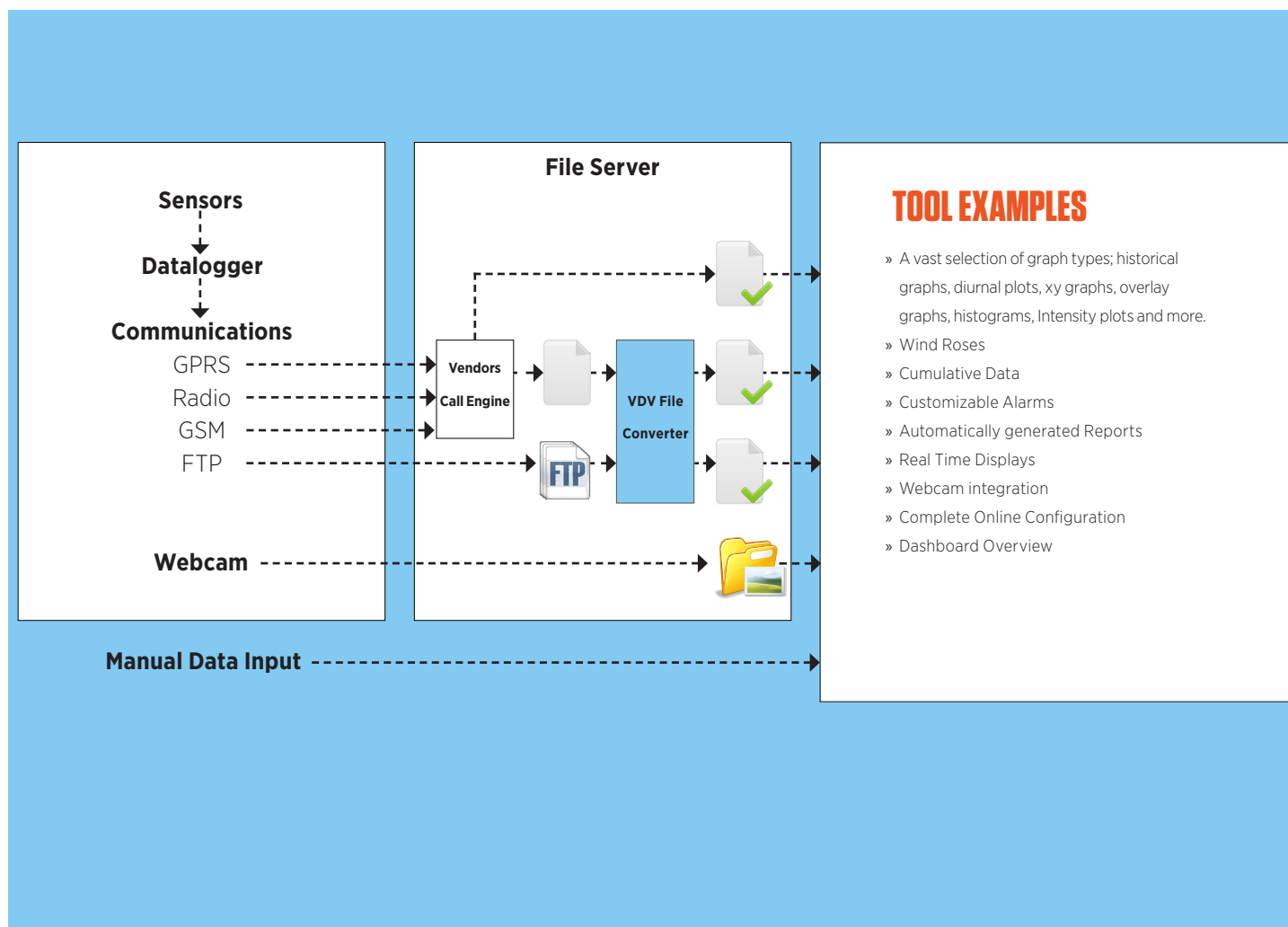
### Hosting Service

VDV is the perfect choice for running a web based Data Hosting Service for your colleges and clients.

### Operating System

Vista Data Vision can fully exploit the latest technology for improved performance. VDV may be installed on Windows 7, 8 & 10 and Windows Server 2008/2012. Full support is given for both 32bit and 64bit operating systems. VDV can run as a Service.

## VISTA DATA VISION OVERVIEW



### VDV in short

VDV offers data handling, storage, visualization, alarming, reporting and web access to data from any size of datalogger system. VDV is a complete solution covering fundamental needs as well as advanced features needed in professional Data Management System.

### Datalogger systems supported

VDV can import data from almost any datalogger system, either directly or using the VDV File Converter.

### Call Engine

Vendor's Call Engine is used to collect data; thereafter VDV is pointed to import that data.

### Manual Input of data

VDV offers Manual Input of data via web interface and via data files. New records may be added and edited online. This is useful for manual input of sensor readings.

### Size of VDV

VDV supports everything from small projects with just a few dataloggers up to huge projects with hundreds of dataloggers and thousands of tags.

### Keep Alive Monitor

VDV includes a Keep Alive Monitor to let Network Monitoring programs know if it is up and running. This is a must in 24/7/365 systems.

### MySQL Database

VDV stores its data in the speedy and robust MySQL relational database. All operations are automatic and invisible to the user, so there is no need to be a database specialist. A MySQL commercial license is included with the purchase of VDV.

### One system for all data

VDV is perfect for combining Meteorological Data, Hydrological Data and Ambient Weather Data into a single Data Handling system, offering an intuitive and very powerful graphical interface to data presentation and other data handling.



## VDV MANAGES ALL YOUR DATA

### PROJECT EXAMPLES

- » Climatic change research, USA
- » Water quality monitoring, USA
- » Farm weather monitoring, New Zealand
- » Mine precipitation monitoring, Botswana
- » Ground water monitoring, Australia
- » Air pollution monitoring, USA
- » Early flood monitoring, Iceland
- » Solar radiation monitoring, Cyprus
- » Fire hazard monitoring, Australia
- » Avalanche risk monitoring, Austria
- » Wind Park Monitoring, Germany
- » Harbor Weather, Iceland

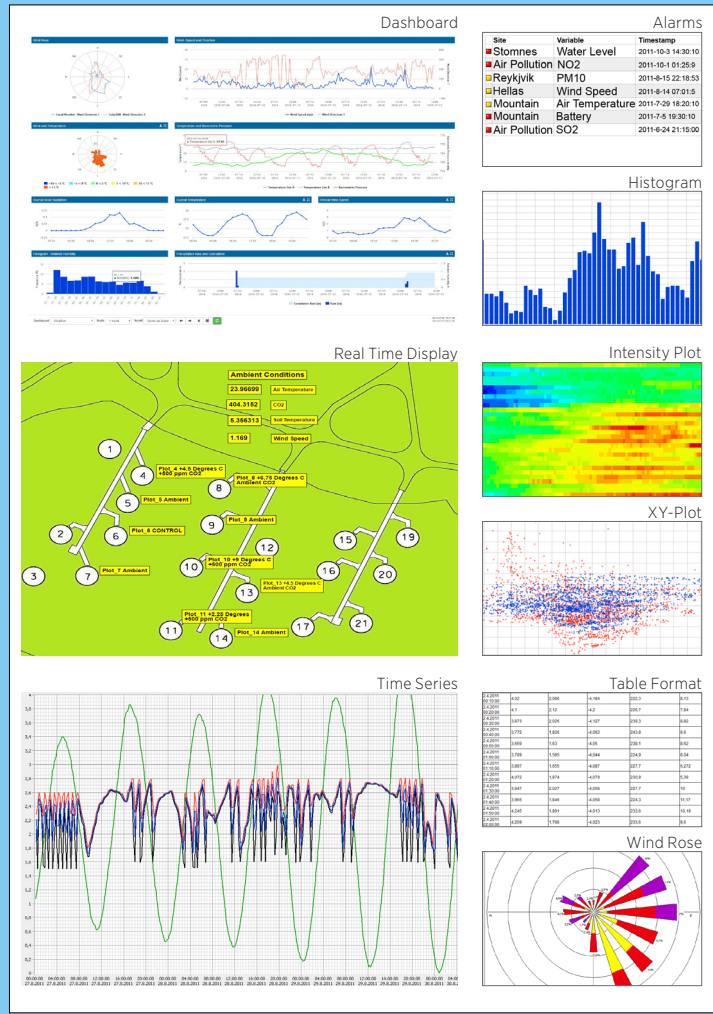
#### Local Users



#### Web Users



**Contacts** Alarms & Summary Reports



### VDV Web Service

The built-in VDV Web Service includes everything needed for publishing data to the Internet. Web based users have access to Graphs and Trends Lines, Quick Reports, Acknowledge of Alarms, some of the most needed configuration features, comprehensive Access Control, Real-Time display and Google-Map display.

### New calculated values

VDV includes Virtual Variables for calculating new results based on sensor readings from one or more dataloggers across the network. This is useful for rescaling and to obtain results not calculated in the datalogger.

### Alarms

VDV monitors all new sensor readings entered into its database for alarm conditions. Alarms are sent as email and/or SMS. Acknowledge of alarms is via the web interface.

### Multi-Language

VDV has a built-in multi-language service for its web interface. English, German and Spanish are provided as default. A built-in Language Editor is used to add new languages.

### Graphs and Trend Lines

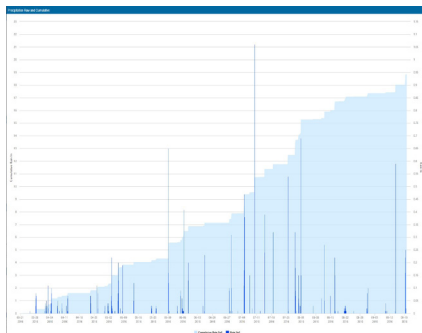
VDV has a powerful and flexible control of all aspects of trend lines and graphs, including, color, thickness, Moving Average, single or dual Y-scales, automatic and fixed Y-scales and linear and logarithmic Y-scale and X-scale (time axis).

### Useful Accessories

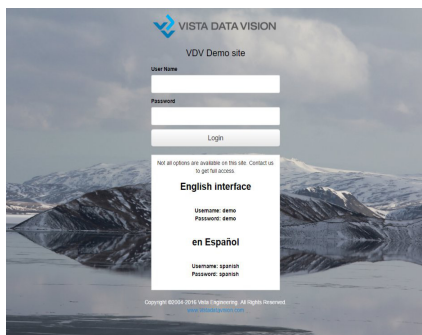
VDV includes useful features to associate sensor data with various information; Notes, Web Cam, Information Pages, links to sensor data sheets and links to information found on other web sites.

## VDV ADVANCED FEATURES

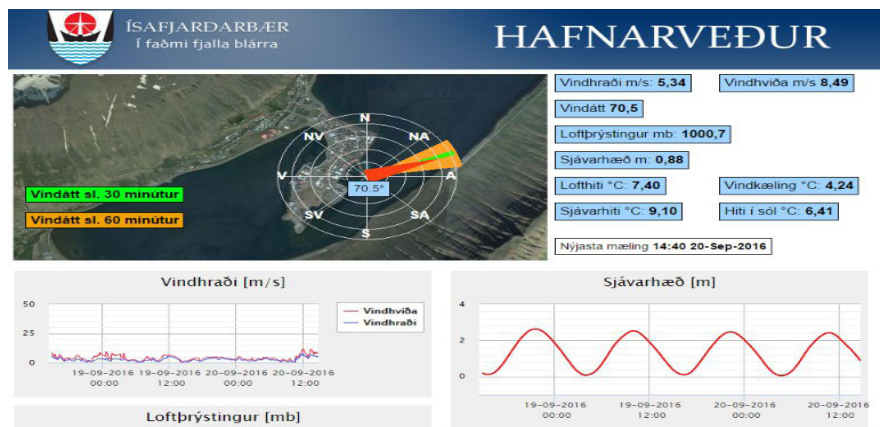
VDV with its advanced features is capable of serving any size of data-logger network. VDV serves all three classes of data users, i.e. SCADA, Consultants and Researchers.



Graph showing rain and cumulative rain over 6 months.



Customizable VDV login page.



RTD showing harbor weather.

### Access Control

The comprehensive Access Control to VDV's web service gives users secure access to their data. Any number of User Accesses may be created with any combination of Access Rights. It is easy to give full access to colleges and clients but limited access for less demanding users.

### Alarms

Relax and let VDV inform you when sensor values are outside limits. Alarms are a powerful feature that will simplify the operation of datalogger networks and eases the workload of the operator. Alarm thresholds (LL, L, H, HH) are easily adjusted using the VDV web access.

An advanced feature is Delayed Alarms where an Alarm is not issued unless the Alarm situation has been steady for a certain amount of time, this means that noise reading(s) will not trigger false Alarms.

### Automatic Reports

VDV offers a special Report toolkit for creation of automatic reports, to be issued daily, weekly, monthly, quarterly and yearly. Reports include Tables, Graphs, list of Alarms, Sensor Readings, Notes and more. An unlimited number of user defined report types are supported. Reports are written to a file and sent automatically by email to user groups.

### Dashboards

Create custom dashboards with multiple components and have full project overview in a single layout.

### Data Update Monitor

This is the process of monitoring data arrival and will greatly lower the workload of the Datalogger Network Manager. VDV monitors data update and sends Alarms if data is not updating, indicating loss of datalogger communications, loss of datalogger power or any other failure along the transmission route.

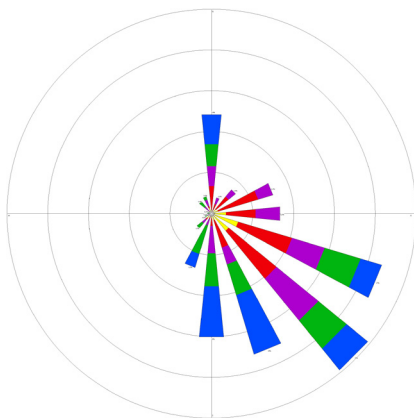
### Gmap Toolkit

The Gmap Toolkit is versatile tool for displaying data on the popular Google Maps interface. Each field station have its marker, users may click on the markers to view latest readings, scroll trend lines, view info and even download the data. New is alarm colors where Google Map markers will have green color if all is OK, and yellow or Red colors when a field station have an active alarm.

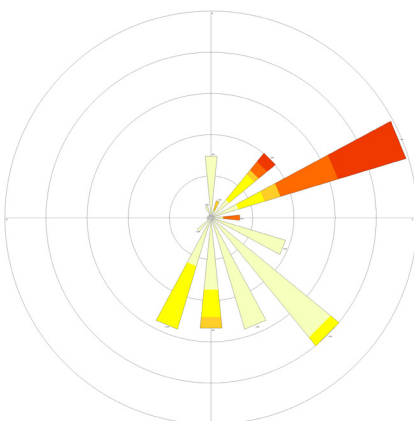
### Intensity Plot - 3D plots

The Intensity plot is reporting tool useful to discover daily trends otherwise hidden to most. Use Intensity Plot to display large datasets day by day and month by month, using color to display data in 3D.

## VDV ADVANCED FEATURES



Wind Rose of Wind Speed.



Wind Rose of H2S

Same location and same time period as above.

### Notes

Notes are very useful to keep a maintenance diary for projects by adding text and images. With Notes, multiple users may enter text through the web interface. Notes may be added to Reports.

### Real-Time Display

Real Time Display is used to give users a clear overview of all data on a single page or multilevel pages. Latest data can be viewed on numerical indicators and as trend lines on graphs. Furthermore, Alarm Status and Data Update Monitoring of each variable may be indicated by background color.

### Validation

Validation is a method used to clean-up trend lines with out-of-range sensor readings. If sensors readings are affected by noise or spikes that are clearly outside the normal range of readings then the validation process will replace that value with the last known good value. There are several validation options to choose from.

### VDV File Converter

Do you have data from different sources?

Do not despair as the VDV File Converter was built to convert a wide variety of data formats into a

standard VDV format ready to be automatically imported to VDV.

### Web Cam

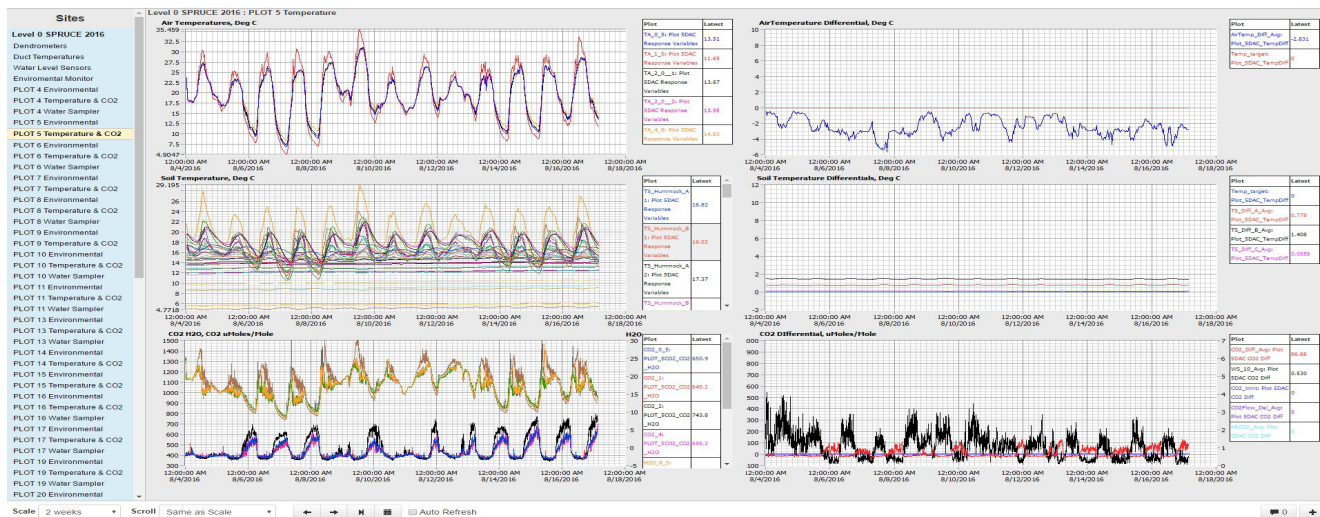
Web Cams are being used to register progress at building sites or to snap pictures when triggered by a sensor. VDV includes automatic handing of pictures forwarded from Web Cams to a server's FTP site. Pictures may be linked to a datalogger or sensor, and the picture display may be synchronized with trend lines.

### Wind Rose

The VDV's Wind Rose is an advanced reporting tool, not only capable of showing wind speed as function of wind direction, but also capable of plotting any sensor value as function of wind direction. If you want to know where from it rain, or if a certain air quality factor is really coming from a nearby factory then VDV's Wind Rose is priceless.

### Wind Energy

The Wind Energy Toolkit is a powerful reporting tool for studying the expected outcome of a Wind Turbine and to compare Wind Turbine's real performance to the design criteria by using the Wind Turbine's Power Curve as well as actual Wind Measurements. Advanced features include directional filters for more precise results.



A large amount of puplicity of available data collected by the  
Oak Ridge Institute in Minnesota, USA using VDV.

## SERVICES AND SUPPORT

### We offer

- » Onsite Installation and configuration in any part of the world
- » Configuration of VDV systems using internet access
- » Creation of Custom Features
- » Online VDV Courses for Staff and Users

### Our Service

We assist our clients to successfully implement VDV.

## HOW TO START?

### Get a free trial

Contact us with information about your projects. We will assist you in your evaluation of VDV.

### demo.vdvcloud.com

Try our live demo website.

## CONTACT

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