If you are planning a wind farm development or looking to make an investment, you need a reliable estimate of the energy production. Throughout the planning process, you will also need to update this estimate many times to understand different wind farm design options. WindFarmer: Analyst is an energy assessment tool based on DNV GL’s proven methodologies developed over several decades of experience.

**Decades of experience at your fingertips**
We have developed WindFarmer: Analyst to increase the quality and efficiency of our energy assessments and share our workflow with you. The user interface and features of WindFarmer: Analyst are designed to follow this workflow:

**Site map**
Download, import and visualize the elevation data, background image and GIS data you need to assess wind farm energy production. WindFarmer: Analyst handles file formats and co-ordinate system transformations for you.

**Measurement campaign**
Define your measurement campaign by placing masts, remote sensors, reference stations and reanalysis data on the map. Document a historical record of instruments used for traceability.

**Clean measured data**
Real world sensors can malfunction, suffer icing and degrade over time. Import, calibrate, visualize and clean time series measurements with WindFarmer: Analyst’s powerful DirectX accelerated visualization tool.
Reconstruct missing measurements
Use scripting tools to optimize your data reconstruction strategy to minimize wind climate uncertainty.

Site setup
WindFarmer: Analyst provides user-friendly tools for configuring your wind farm. Use intuitive map tools and spreadsheet-like tables to configure locations and properties.

Wind flow modelling
You can automate WAsP, use your own flow model or use the WindFarmer: Analyst simple model for quick analyses.

Wake and energy modelling
Simulate wakes and energy using our extensively validated models.

Wind farm optimization
A wind farm layout optimized for energy yield is different to a layout optimized for cost. Thus, WindFarmer: Analyst provides an extendable optimization framework to allow you to define your own optimization target.

Report and export results
Export detailed results and generate attractive reports for project stakeholders to demonstrate analysis traceability.

Scripting
Ensure repeatability with our powerful C# scripting. Use scripting to automate repetitive tasks, integrate seamlessly into your own processes and tools, and extend existing functionality when bespoke models are needed.

Once your WindFarmer: Analyst project is configured, it is easy to add further measurements and update your energy production estimate, saving you time and reducing potential errors. Scripting can be used to rerun all analysis steps.

More than software
WindFarmer: Analyst draws upon DNV GL’s 30 years’ and 200 GW experience of conducting global wind farm energy production assessments to enhance the analysis transparency, project assurance and bankability of your projects. As the software is also based on DNV GL’s wind energy assessment methodology calculation transparency, project assurance and accuracy are all increased.

CONTACT US
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