PERFORMANCE CHECK in windPRO

(2 half-day online sessions*)

Join our course to master analysing SCADA data!

The PERFORMANCE CHECK module in windPRO offers many tools to analyse wind turbine operational data. Ultimately this information lowers the uncertainty of your expected income and helps you understand the performance of your asset.

This also leads to lower uncertainty on the price tag of a wind farm in asset transfers as well (Post-Construction Energy Yield Assessment - PCYA).

Finally, it also forms the basis of querying your model assumptions and improves your pre-construction modelling capabilities.

Structure of the course:

Each subject begins with theoretical considerations, which are supported by a demonstration and followed up by a hands-on exercise, where the teacher is available for further guidance and help.
There is room for discussions related to specific issues the participants face in their daily work.

Topics:

Upon completion of the course, participants will be able to:

- Analyse SCADA data: import production dta, error codes, and wind data to analyse the operation of the wind turbines
- Evaluate losses using error codes: Quantify how much energy has been lost by using error codes and compare the actual and potential production
- Calculate the expected future yield: Project the actual production and losses into the future.
- Calibrate wind models: Lowering the uncertainty for repowering projects or developing new neighbouring projects by using actual production data to calibrate the wind model
- Perform a PCYA not just with 10-min SCADA data, but also using monthly production and availability figures

Who should attend?

This course can help you to lower uncertainties, get insight into park performance, and plan better for your wind farm projects. The course is recommended for experienced windPRO users who want to get an insight into the operational performance of wind farms as well as using production data to improve pre-construction processes.

It is expected that participants have a good understanding of windPRO and its basic functionalities.

As a specific prerequisite you should be familiar with the METEO object and time-varying calculations in windPRO.

* Each online half day corresponds to a 4.5-hour session.