Advanced EYA in windPRO

(3 half-day online sessions)*

Join our course to master advanced time-varying energy calculations.

Whether you are into curtailment strategies or green field development, this course provides practical insights into complex aspects of data analysis, flow modelling, and losses and uncertainties.

Structure of the course:

Each subject begins with theoretical and practical 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:

- Perform advanced analysis and treatment of measured wind data, including data repair options
- Correct long-term of onsite measurements, understanding methodologies, and plethora of reference data available including the EMD mesoscale datasets
- Calculate the energy yield in the time-domain and understand when to use time-varying calculations. This includes time-varying wake calculations and adjustments of the power curve
- Validate the wind model: Is the model, you have created, correct? How can you verify it using cross-predictions, and wind profile analysis? We will see how and when WAsP-CFD can be used to improve the results in complex terrain
- Curtail the WTG in the time domain, e.g., noise modes, wind sector management, and grid curtailment
- Understand losses and uncertainties

The participants will also learn how to use mesoscale data for green field development, either stand-alone or combined with local measurements.

EMD International

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Who should attend?

The course is recommended for experienced windPRO users who want to deepen their knowledge of time-varying calculations and have accumulated questions on its use.

The course outline does not specify any prerequisites for the course, but it is expected that participants have a good understanding of windPRO and its basic functionalities.

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