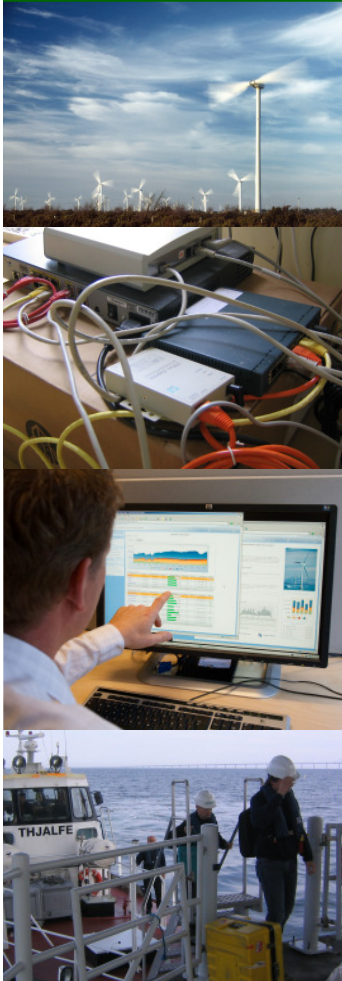


USE61400-25

IEC 61400-25 user group

The IEC61400-25 standard series



IEC 61400-25 –

A standard communication solution to get easy access to relevant data from wind power plants

This is achieved by defining

- standardized data names and semantics
- standardized data modeling
- standardized services to exchange the data
- standardized mappings to different communication profiles
(Web Services, OPC XML-DA, IEC61850-8-1, IEC60870-5-104, DNP3)

The use of a standard communication solution provides possibilities to procure monitoring and control solutions as a separate part, and to use a single system to store, analyze and present wind power information. In addition the standard opens up for control and monitoring of information from different wind turbine vendors in a homogeneous manner.

The use of a standard communication solution is beneficial for all parties - vendors, system integrators and customers. The cost of developing, integrating and maintaining is reduced by using a standard communication solution.

A uniform access to operational and historical data from wind turbine generation units is a prerequisite for efficient and effective operation and maintenance of wind power plants with a mix of wind turbines from different vendors.

Some facts about the IEC61400-25 standard series

IEC 61400-25 defines all details required to connect wind power plant components in a multi-vendor environment and to exchange the information made available by a component. This is done by definitions made in the document or by reference to other commonly used standards, such as IEC 61850.

IEC 61400-25 consists of the following parts:

- Part 25-1 Overall description of principles and models
- Part 25-2 Information models
- Part 25-3 Information exchange models
- Part 25-4 Mapping to communication profiles
- Part 25-5 Conformance testing
- Part 25-6 Information models for condition monitoring

