Bring down O&M cost with RDS-PP®

What’s RDS-PP® all about?

RDS-PP® (short for Reference Designation System for Power Plants) is an international mature IEC/ISO standard, which defines in a simple schematic way tree-like structures from whole power plants to nuts and bolts. It allows to identify any (!) object unambiguously using certain letter and number sequences for both function and location.

It has the following main advantages:

- Proven 40 year power plant application
- Works for serial objects (WTG) and BOP
- Works for suppliers (keeps product list)
- Unifies signals for independent SCADA
- Aligns objects and documentation and many more (really!)

Ideal basis for digitalisation and automation of information transfers on objects for all processes!

RDS-PP® structures can be used for all thermal, wind, biomass, hydropower and for infrastructure systems like MV-grids, com-networks, service- and sub-stations in all lifecycle status from planning to dismantling.

For the first time in history it thus allows operation of virtual power plants from a single control room in one “language”.

Why should wind turbines and wind farms be structured all alike?

A singular method to structure turbines, infrastructure, subsystems etc. based on function allows analysis of alternative solutions from different OEMs with regard to CAPEX and OPEX cost, to performance, availability and fit-for-purpose design. Everybody wants this.

It enables:

- Easy due diligence, compare KPIs
- Easy change of ownership
- Easy change of service provider
- Data sharing (trustee data bases)

RDS-PP® system codes can be used for digital communication without misunderstanding among all parties. On site, anybody can link to the structure via datamatrix- or QR-codes or RFIDs using any hardware from smartphone to tablet to ERP-systems like SAP.

Who benefits from this approach and how?

Operators can make OEM-independent analysis of turbines or subsystems, importing digitally service data to the RDS-PP asset structure and using higher maths, to calculate system KPIs to set automated priorities in predictive maintenance.

Service providers or inspectors can service multi-OEM turbines, using one structure for all, import work-orders digitally from the operator, find the correct defect item locally without crawling thru documentation...

The international working group IEATask33 (21 countries, 3 year research) highly re-commends the use of RDS-PP® for all wind assets for reliability based maintenance.

Most important: One language, no dialects. This is assured by the VGB RDS-PP maintenance team. A 300+ pg guideline can be obtained from VGB Power Tech. The Fast Track User Group FTUG provides a platform for coding engineers.

Interested? Get involved!

Who has already started to use it?

Actualy, everybody involved in wind energy would benefit. Think of RDS-PP® as an international technical “language” which simplifies communication enourmously. Like English in this conference!

Planners can design wind farms independently of the final investor, which is an increase in sales value (and for future investors as well), as the structure is ready to use.

Turbine manufacturers will be able to build up modular design structures for different turbine platforms and receive clear feedback from field service to improve the design based on reliability.

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