



Powel Trade Organizer at Skellefteå Kraft AB

The challenge

Scheduling and settlement of supply and generation in the Swedish market involves between 20 and 30 time series for each grid area (if you are balance responsible for only 1 supplier). In Sweden there are approximately 350 grid areas. This means that a balance responsible serving customers in all areas has to deal with 6.000-10.000 time series. In grid areas with profile metered customers there are both time series with hourly and monthly resolution.

Skellefteå Kraft AB (SKAB), www.skekraft.se, is balance responsible for several suppliers. This increases the number of time series and the complexity. In addition to keeping track of all areas where they are balance responsible, they have to know in which grid area each supplier has customers. This is important to be able to manage the cost sharing between the suppliers.

The solution – Powel Trade Organizer

After evaluation of different possible solutions, Skellefteå Kraft AB decided to go for **Powel Trade Organizer** as their software solution.

Powel Trade Organizer is a tool to structure all the time series for import and export (and also internal time series that are generated from another tool). The structure connects a time series to a product code (to tell the information content), a grid/constraint/control area and to a sender/receiver. This connection between a time series and other entities is called an obligation.

Each obligation has a valid period where the information will be received or sent to the defined participants.

The information connected to the obligations is used in calculations. There are functions to calculate profile consumption in a constraint area in one routine, even if there are obligations that are only partly valid in the period.

“Is it this easy to calculate the profile consumption in one constraint area?” Jonas Tengman of SKAB wondered when he was testing out calculator functions for **Powel Trade Organizer**. “Now I can manage and invoice my suppliers correctly. Without **Powel Trade Organizer** I have to remember all the areas where each of my suppliers has customers” he added.

The result

The resulting benefits for SKAB of using **Powel Trade Organizer** are significant and they have experienced the following:

- Better control of obligations before start of delivery and hence lower balance costs
- Better control of shares for profile customers
- Easier calculation of balance costs to compare with invoices from TSO (Svenska Kraftnät)
- Easy way of splitting cost between the different suppliers



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