

Processing of energy market auctions

CHALLENGE

The price coupling of European day-ahead power markets has required changes to the European power exchanges' trading systems. The market equilibrium solution is computed at an aggregated level, and needs adjustments to provide market results (i.e. hourly purchase/sale quantities) for individual market participants in Nord Pool areas.

SOLUTION

VTT has implemented a software module, which solves a mathematical optimisation model to determine the day-ahead market results for individual market participants, according to Nord Pool market rules. The project was carried out in close collaboration between experts at Nord Pool and VTT. Comprehensive testing and validation was performed to make sure the software would operate reliably in all market conditions.

IMPACT

The software enables reliable market operation on a tight schedule every day of the year.



For more information, contact:

- Hannu Rummukainen, hannu.rummukainen@vtt.fi
- Toni Lastusilta, toni.lastusilta@vtt.fi

