



b.data Energy Management

Efficient energy planning for DONG Energy / Denmark



DONG Energy is a leading Danish power producer and distributor with a thermal power plant park and several wind-power generation plants among others in Sweden, Greece and Spain. The production capacity amounts to 4700 MW of electric power, 2700 MJ/s of district heating and 1600 MW/s of steam generation.

Together with the VA TECH SAT, an energy planning and production control system was implemented, which offers a new integrated system platform for load forecasts, power plant resource scheduling, optimization of resource utilization, production monitoring and reporting.

The energy management and operating information system b.data, hereby serves as a central data-transfer hub and makes it possible for customers to integrate information from various sectors or subsystems such as SCADA, resource planning, trade system as well as from other applications, and to present them in the form of automatic reports. The use of the latest technologies also provides the possibility of presenting selected information in the corporate Intranet and of providing other partners with this information.

Energy Management

Answers for industry.

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Flexibility as a success factor when supporting the business processes

In order to run an optimization, a great deal of information such as weather data, the demand for heat, electricity and much more is necessary.

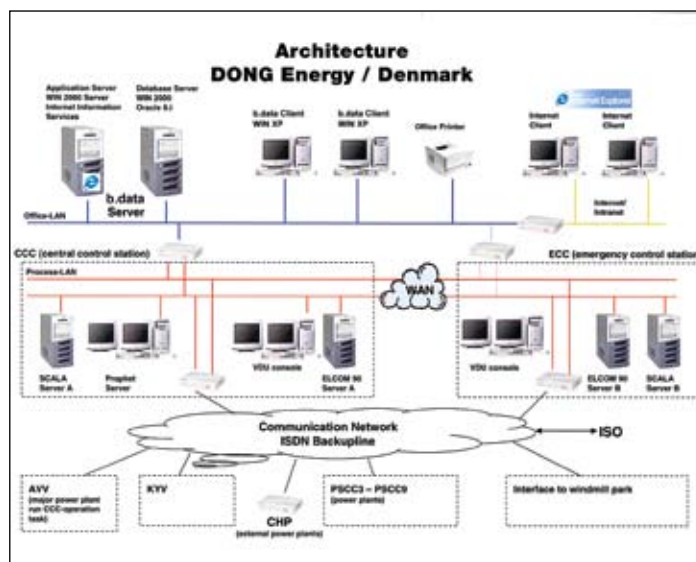
b.data offers standardized interfaces in order to integrate different systems and to transfer the data in a defined format to the control system SAT 250, which is coupled with the load forecast LPS and the resource planning tool RPS, as well as to other applications.

The optimization runs are carried out based on the transferred data. The result data serves as target values for the individual power plants and can in turn be distributed to the relevant positions via the Data Warehouse System b.data. The data exchange via e-mail with the energy trading system as well as other trade partners is carried out using a standardized EDIFACT interface.

In addition to further tasks such as long-term archiving and automatic correction of erroneous data series, b.data also fulfills the requirements of a controlling tool in order to carry out a target / actual comparison. For example, the comparison of the actual supply with the data from the clearing department can be made.

Essential characteristics of b.data

A comprehensive and easily configurable reporting system supports the user in their day-to-day tasks. The results are presented in MS Excel, which in addition to the simple handling also has the advantage that all MS Excel functions can be used for further processing of the data. The automatically created reports can be sent directly via e-mail, issued to the printer or saved on a file server. Furthermore, the planning and balancing characteristic values can be made available



Simplified system topology

in the Intranet / Internet via the Internet Viewer. The following predefined modules are available for reporting

- Balance sheets
- Reports
- Duration curves
- Hour allocations
- and much more.

b.data provides flexible interfaces which can be easily configured by the user. In addition to the interfaces to SCADA System SAT 250 from VA TECH SAT, b.data provides extensive possibilities, such as ASCII/XML Import and Export, ODBC Connector for the import of data from ODBC sources (Excel, Access, etc.).

Integration of the EDIEL standard

With a holistic workflow management, the complex requirements which result from the EDIEL standard were implemented. In addition to the sending and receiving of MSCONS and DELFOR notifications via a MS Exchange Server Integration, the entire acknowledgement for both notification types was implemented. Only when the check of incoming EDIEL files has been successful, the file is imported and a CONTROL and an APERAK notification are sent back to the sender as a confirmation.



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