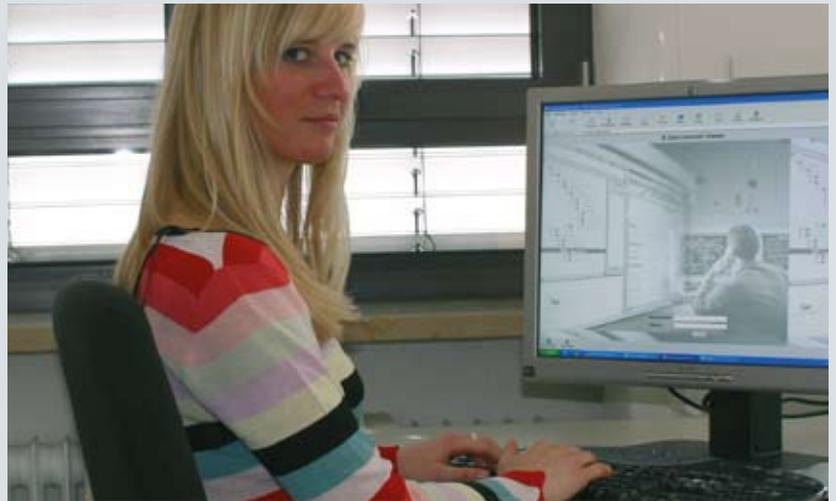




b.data Energy Management

Efficient energy database system for the
E.ON Wasserkraft GmbH in Germany



E.ON Wasserkraft is Germany's largest producer of renewable energy. The company with its headquarter in Landshut owns and operates in total 133 power plants. In the Northern part of the German-speaking region these are on the Weser, Eder, Fulda and Diemel. In the South they are on the Danube, Inn, Isar, Lech and Main. All together, the plants produce a total power of approximately 2900 megawatts and produce roughly 10 billion kilowatt hours per year.

E.ON Wasserkraft GmbH currently use b.data as their solution for energy data management as a standardized, flexible and open solution. The energy data from the E.ON hydro-electric power station and the power stations operated by

the company are fully automated and stored in an energy database system where they can be accessed for reports to be used in accounting, reporting or planning. Through the Intranet Viewer in the b.data system, data on water flow and power generation are provided daily to the individual locations, and management is provided with additional profit data.

Flexibility as a success factor

Various requirements placed on the interface management, which were determined by the connection of the six decentral locations, were a significant challenge during this project. Interfaces to existing control systems were created in addition to direct database

Energy Management

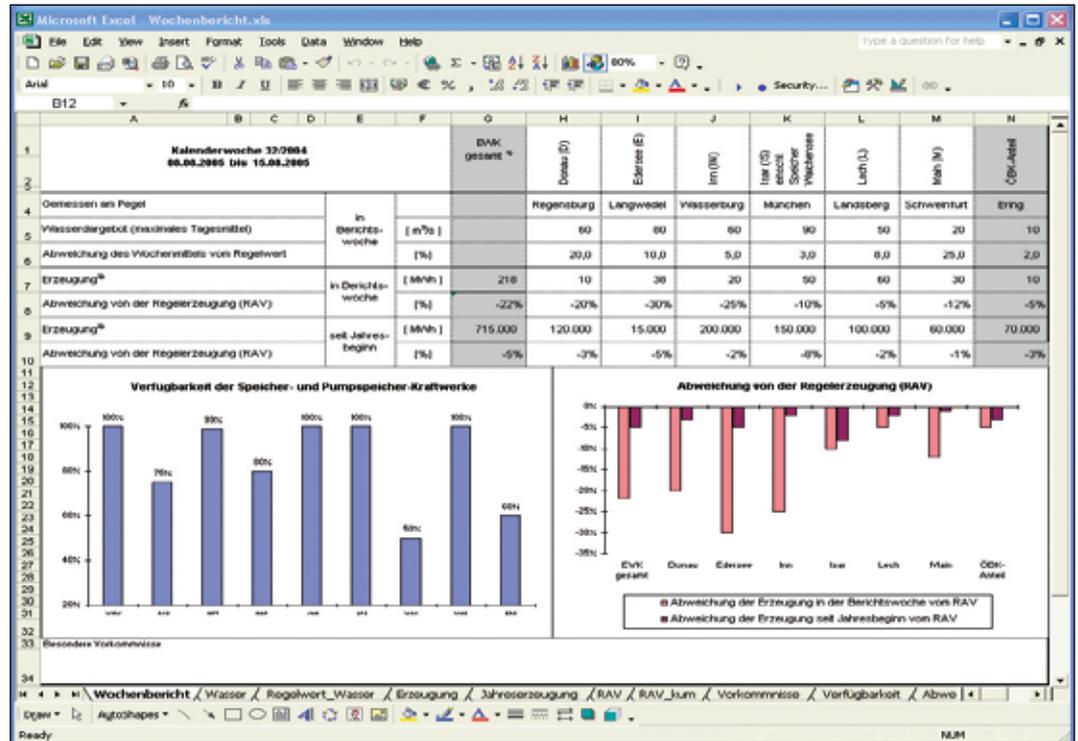
Answers for industry.

SIEMENS

interfaces such as SQL servers, Access, Excel and ASCII file interfaces. Since the EDIFACT has become the standard over the past few years in the field of power generation and supply, this project also required the installation of a corresponding MSCONS interface.

Far-reaching possibilities in the data evaluation

Energy producers must adhere to a large number of legal stipulations such as those that regulate the power industry and the generation of renewable energies, and they must ensure compliance with association agreements. These requirements are subject to the dynamics of the market and make it absolutely necessary to implement a flexible management tool. These requirements have been met by utilizing pre-defined functional guidelines such as if-then functions and type-day-related evaluations. The possibility of versioning data series is also an essential feature, particularly with



Weekly report

respect to accounting data. E.ON Wasserkraft has used b.data to create the possibility of accounting, budgeting and calculations based on an uniform database. The system also makes it possible to create a comprehensive reporting for the external locations.

Essential characteristics of b.data

In addition to the interface management system, a significant part of b.data is the comprehensive automatic reporting system. The user can configure a new report with very few commands, have the report automatically calculated, distributed via e-mail and sent to a printer. An additional automatic presentation of the data on the Intranet is also a significant part of the information retrieval and visualization system.



Walchensee power plant



Vohburg power plant

Siemens AG Österreich
Industry Sector
Industry Automation and
Drive Technologies
Kraussstrasse 1-7
4020 LINZ, AUSTRIA

www.siemens.at/bdata

Contact:
Rudolf Traxler
Phone +43 (0)5 1707 61875
rudolf.traxler@siemens.com

Completion period: 2004 - 2005

The information provided in this reference contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.