



b.data Energy Management

Energy monitoring for LINZ Service GmbH



The LINZ Service GmbH – a subsidiary of LINZ AG – is one of the leading providers of municipal services and infrastructure in Austria.

In addition to supply (drinking water) and disposal (waste water, refuse), the operation of the Linz public swimming pools is one focal area in which the LINZ Service GmbH makes a significant contribution to the quality of life in Linz and 40 other municipalities in the central area of Upper Austria.

In order to fulfill the requirements for an efficient operation of numerous, distributed plants and

especially for the rational use of energies (electricity, heat, media), a holistic system for the recording and representation of the current and historical operating situation is needed. With the implementation of the energy management and operating information system b.data, developed by Siemens, across all the divisions of LINZ Service GmbH, a further contribution has been made to the reduction of operating and input materials, to the improvement of environmental compatibility and to the conservation of resources, and as a result also to the increase in efficiency.

Energy Management

Answers for industry.

SIEMENS

Functions

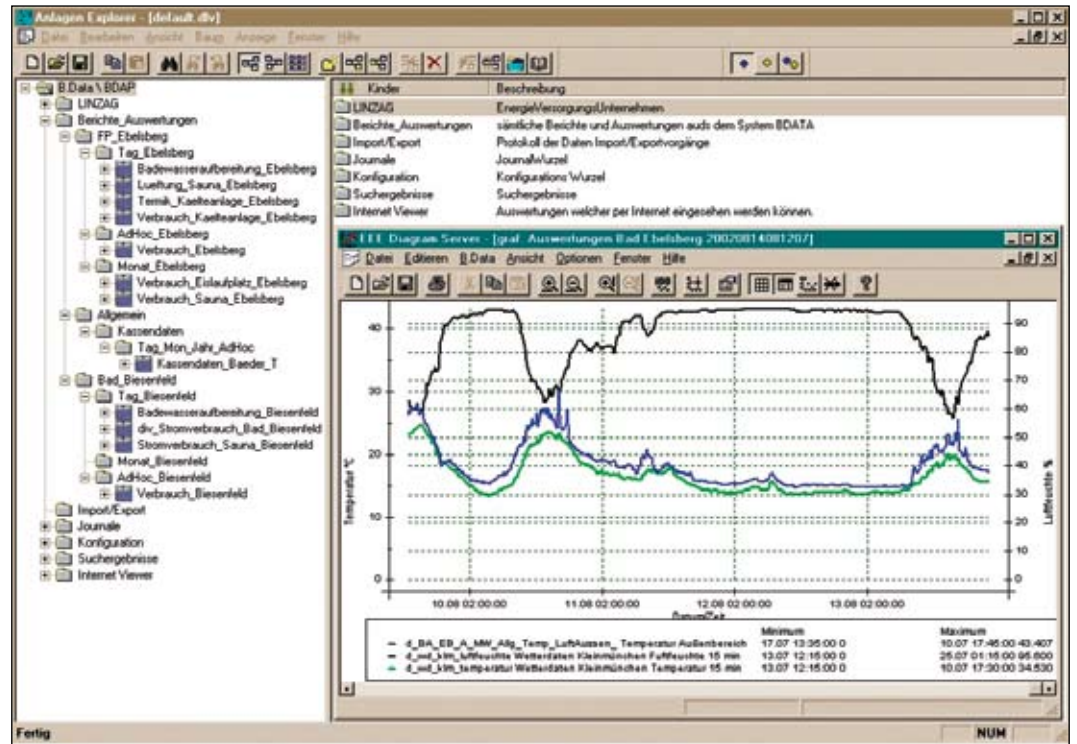
The decentralized plants of the individual municipal locations that are spread out across the Linz city area were integrated into the operating information system:

- Public swimming pools (Bad Biesenfeld has currently been completed)
- Leisure parks (Ebelsberg has currently been completed)
- Waste disposal site
- Weather station

In addition to the operating data from the systems, the characteristic values from the existing information systems are also recorded in order to qualify the consumption behavior:

- Control system of the landfill
- Operation control system (weather data)
- Commercial information systems (cash receipts data)

This processed operating information on the individual media and plants is stored, archived and made available at a central database system (b.data Warehouse) for the following tasks:



b.data Plant Explorer for the LINZ Service GmbH

- Plant balancing (cooling systems, heating centers)
- Determination of characteristic data (indicators for company benchmarks)
- Consumption analyses and evaluation (electricity, cooling, heat, input materials, etc.)
- Monitoring of current and historical energy flows
- Energy controlling (target/actual comparison)

Furthermore, due to the long-term archiving of the characteristic data and operating data in b.data Warehouse, a solid basis is formed for making decisions on the execution of refurbishments under consideration of economic issues.

The users of this system work at a comfortable, modern user system which is installed at the respective office work place of the divisional department. Optionally, internally or globally authorized energy officers are able to view the relevant values and reports using the b.data Intranet/Internet Viewer.

With the established corporate reporting system from b.data, the various divisional areas are supported in performing their daily routines, values for future improvement processes are derived and the basis for a customer information system is formed.

Flexibility

This high level of flexibility in the integration of the operating information system into the existing system environment of the LINZ AG, and the individual adaptability of the b.data system to LINZ AG's requirements were both deciding factors for the implementation of the project by Siemens.



Locations of public swimming pools:

- 1 Parkbad
- 2 Hummelhofbad
- 3 Schörgenhubbad
- 4 Biesenfeldbad
- 5 Leisure Facilities Ebelsberg
- 6 Tröpfelbad

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