



b.data Energy Management

Efficient energy management using b.data
for BMW at the Regensburg plant



As one of the production facilities for the BMW 3 Series, the location Regensburg represents high-tech in all respects. With the implementation of the energy management and operating information system b.data, developed by Siemens, a highly valuable comprehensive, economic and ecological solution was provided for the plant in Regensburg.

b.data supports technical departments in performing routine tasks, provides purchasing departments with the basis for efficient energy procurement and creates a transparent source of information for technical management personnel to keep them informed of the energy statistics in current and historical operation.

Establishing and embedding the idea of efficient and rational utilization of energy for reducing production and procurement costs in order to increase environmental compatibility and conserve resources has long been the objective of the BMW Group.

By introducing the holistic energy management and operating information system from Siemens, b.data, into the production facilities in Regensburg, this vision has been made reality.

b.data has made optimum use of innovative, cross-works Intranet / Internet technologies to create a system platform for continuous benchmarking in the area of energy utilization and in the efficient energy generation and consumption.

Energy Management

Answers for industry.

SIEMENS

Concept and implementation

b.data uses the cross-works central control system as a basis and forms the gateway to the commercial data processing world. After the fully automated recording of operating data from the control system, the data is selectively processed according to a freely parameterable energy and material flow model. This processed operating information on the individual media and plants is stored and archived at a central database system (b.data Warehouse) and is available to BMW for the following main tasks:

- Energy and material balancing (electrical energy, input materials)
- Plant balancing (combined heat and power plants)

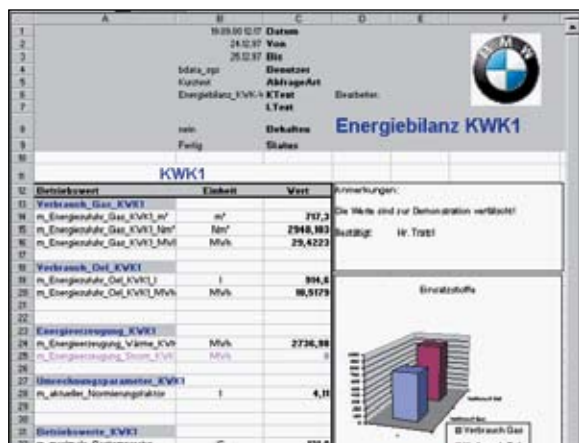
- Determination of characteristic data (indicators for company benchmarks)
- Internal energy cost allocation and accounting with optional transfer to the central accounting system (SAP/R3)
- Consumption analyses and evaluation (electricity, gas, heat, input materials, etc.)
- Monitoring of current and historical energy flows
- Energy controlling (target/actual comparison)

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

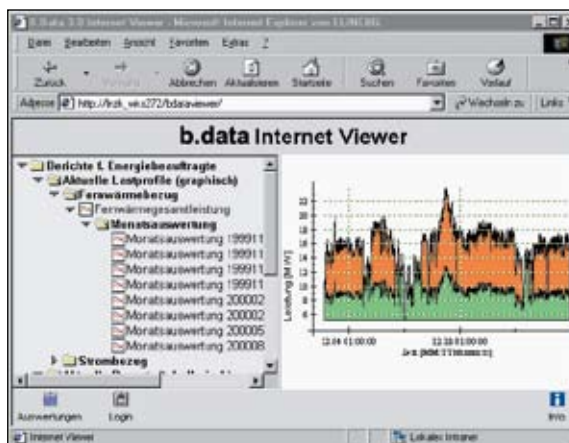


BMW plant in Regensburg

The users of this system work at a comfortable, modern user system which is installed at the respective office work place. At the same time, internal or globally authorized energy officers are able to view the relevant values and reports using the b.data Intranet/Internet Viewer. This automatic reporting facilitates the performance of routine tasks for the technical personnel and keeps management informed of current operation at all times.



Energy balance of the power plant



Intranet Viewer – district heating consumption

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