

b.data Energy Management

Effective energy data management at Infracor in Marl



As a service provider with more than 60 years of experience in the chemical industry, Infracor offers its customers a wide range of services; from individual services or assistance in complete production processes, all the way through to the operation of complex chemical locations – all from one source.

At the chemical location Marl, Infracor GmbH with its 2500 employees is responsible for the supply and disposal of the entire location (electricity, steam, gases, utilities, waste water and refuse) and is also involved in the areas of Location Management, Technology and Logistics. The average consumption of electricity and steam produced in the combined heat and power plant amounts to approximately 295 MW and 700 to

1100 t/h. Three in-plant power plants with a total of five blocks and three 110 kV incoming feeders from the public network are available to supply the location.

Special challenges

The energy management system b.data plays a central role as a data collector and as an evaluation and reporting platform for users from the various areas. A well-devised interface management facilitates an uninterrupted communication between b.data for the long-term archiving and the already existing EEO system for the input optimization, EDIS system for the energy data calculation and DSIM system for the steam network simulation. The data exchange is coordinated via a process data router.

Energy Management

Answers for industry.

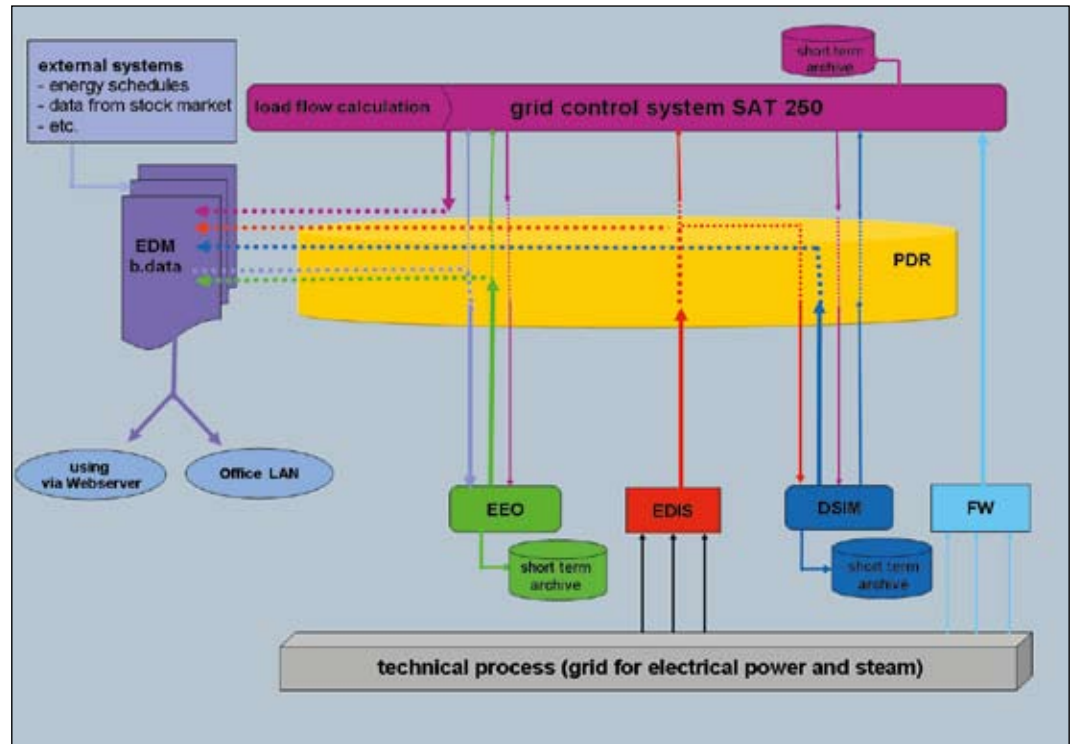
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The ambitious quality list of 30000 data points presented a special challenge for the project team. By utilizing the partitioning option from Oracle, the INFRACOR requirements with regards to performance were met. In order to manage the data volume accordingly, a data-base server with more than 1TB net storage capacity is operated by Infracor.

Essential characteristics of b.data

The established and secured information basis is available for INFRACOR for the following main tasks:

- Structured supply of all energy process data (recording, preparation, analysis, visualization and archiving) from the area of mains process control engineering and the related systems (EEO, EDIS and DSIM).
- Provision of specific reports (e.g. schedule of the combined-cycle power plant, gas consumption)



Data flow sheet

- Schedule Management (importing of target profiles, schedule releases to foreign systems)
- Accounting grid management for power
- Preparation of monthly reports for the energy accounting for power
- Evaluation of power trading activities (target / actual comparison)
- Data collection for emission monitoring
- Automated cyclic data collection for statistical purposes

The users of this system work at a comfortable, modern user system which is installed in a central energy control station of Infracor as well as at selected office work places. At the same time, internally authorized users are able to access the relevant values and reports using the b.data Intranet Viewer.

This automatic reporting supports the performance of routine tasks for the technical personnel in central energy control stations and keeps management informed of current operation at all times.



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