

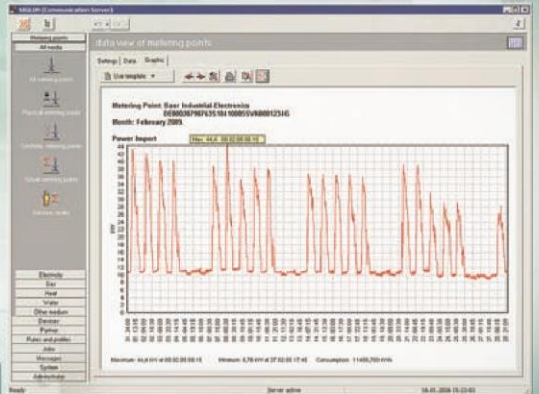
# baer

energy automation

SYSTEM

# SIGLON

➔ Solutions for remote metering



# The system and its requirements

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The liberalization and deregulation put up new requirements for intelligent remote meter reading systems and energy data management.

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The utility needs a system which retrieves and processes meter data fast and automatically. These data have then to be distributed to the relevant market participants. Organisations like GenCos, NetCos/DisCos, TransCos and MetCos often demand their own tailored exchange format. Data have to be delivered in a very reliable and often redundant manner to secure highest availability. Data have to be comparable beyond time zones to allow country wide data exchange. The amount of missing data must be minimized.

The increasing tendency for "Multi Utility" raises additional tasks for the cooperation within one company. Restructuring of different responsibility areas creates the necessity to retrieve settlement or control data of different quantities and qualities like gas, electricity or water from multiple meters with different protocols.

The deregulation requires a split of the internal departments like network management and energy sales. This pushes for an integrated rights management system with dynamic client management capabilities.

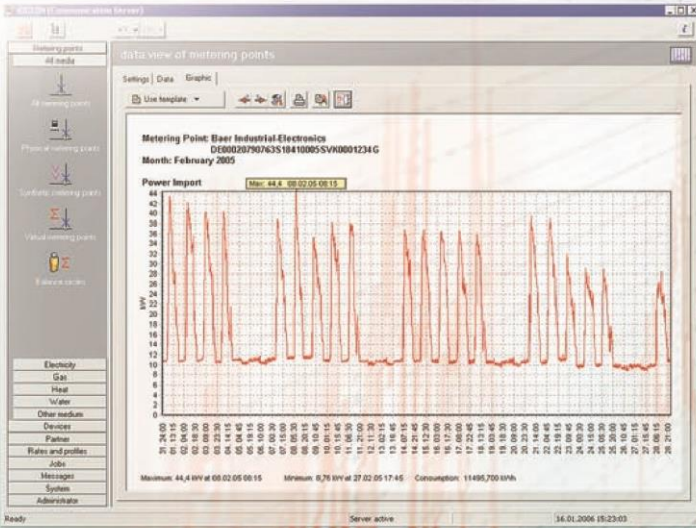
The liberalization of the energy markets asks for integrated balancing and settlement features of all market participants like energy traders or network providers. To fulfill this requirement the processed data have to be made available in a timely and quality controlled manner; processing might also mean to create synthetically load profiles according to predefined profiles.

Planning, optimization and monitoring of the network structure should be able to use the already measured data by integrated and easy to use functions.



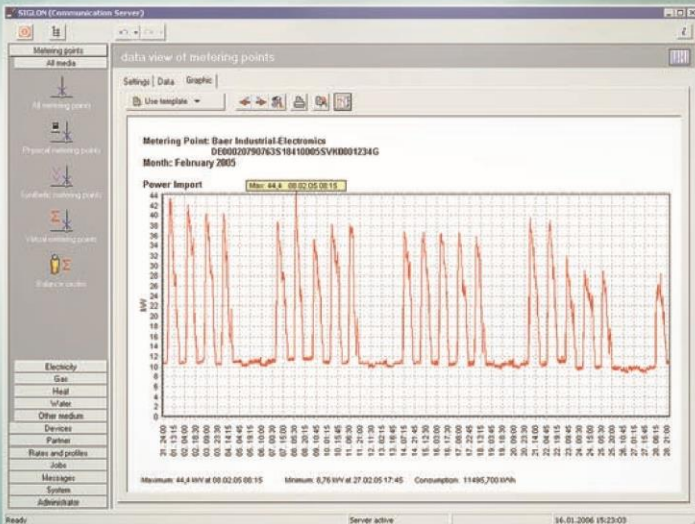
SYSTEM

# SIGLON



FUNCTIONS

# SIGLON



Ready

Server active

14.01.2006 15:23:03

# SIGLON and its solutions

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SIGLON is the integrated system for intelligent remote meter reading, energy data management and operation data management.

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## Intelligent remote meter reading

- Metering point oriented administration of physical, virtual and synthetical measurements according to the metering code.
- Retrieval of measurement values independent of the type like gas, water, oil or electricity.
- Supports multiple protocols (IEC 62056-21, dlms, DSfG, M-Bus, IEC 60870-5-102, SCTM, Modbus ...) and multiple communication media (PSTN, GSM, GPRS, ISDN, Ethernet/LAN/WAN, ...).
- Online data retrieval and processing.
- Mobile data reading for mechanical and electronical measurement devices with PocketPC.
- Raw Data are stored in addition to each metered values and are not changeable.
- Uses renowned databases Oracle or Microsoft SQL.
- Data export to connected systems (billing, EDM, sales tools ).

## Energy data management

- For quality management: plausibility check, validation, creation of replacement values and reporting.
- Creating balancing or settlement reports for all market participants.
- Market participant related, automated data distribution.
- Dynamic client and rights managements system supports "unbundling".
- Universal import or export of data and parameters.

## Operation data management

- Supports analysis of network use/load as well as monitoring of network devices (e.g. calculation of network losses, monitoring of maximum load transfer).
- Online monitoring graphic (real time visualization of metering values and load profiles ) with tendency calculation.
- Online data exchange with SCADA systems.

# A unique integrated and complete system

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Planning, consulting, installation, commissioning, documentation, training and the maintenance of the complete system.

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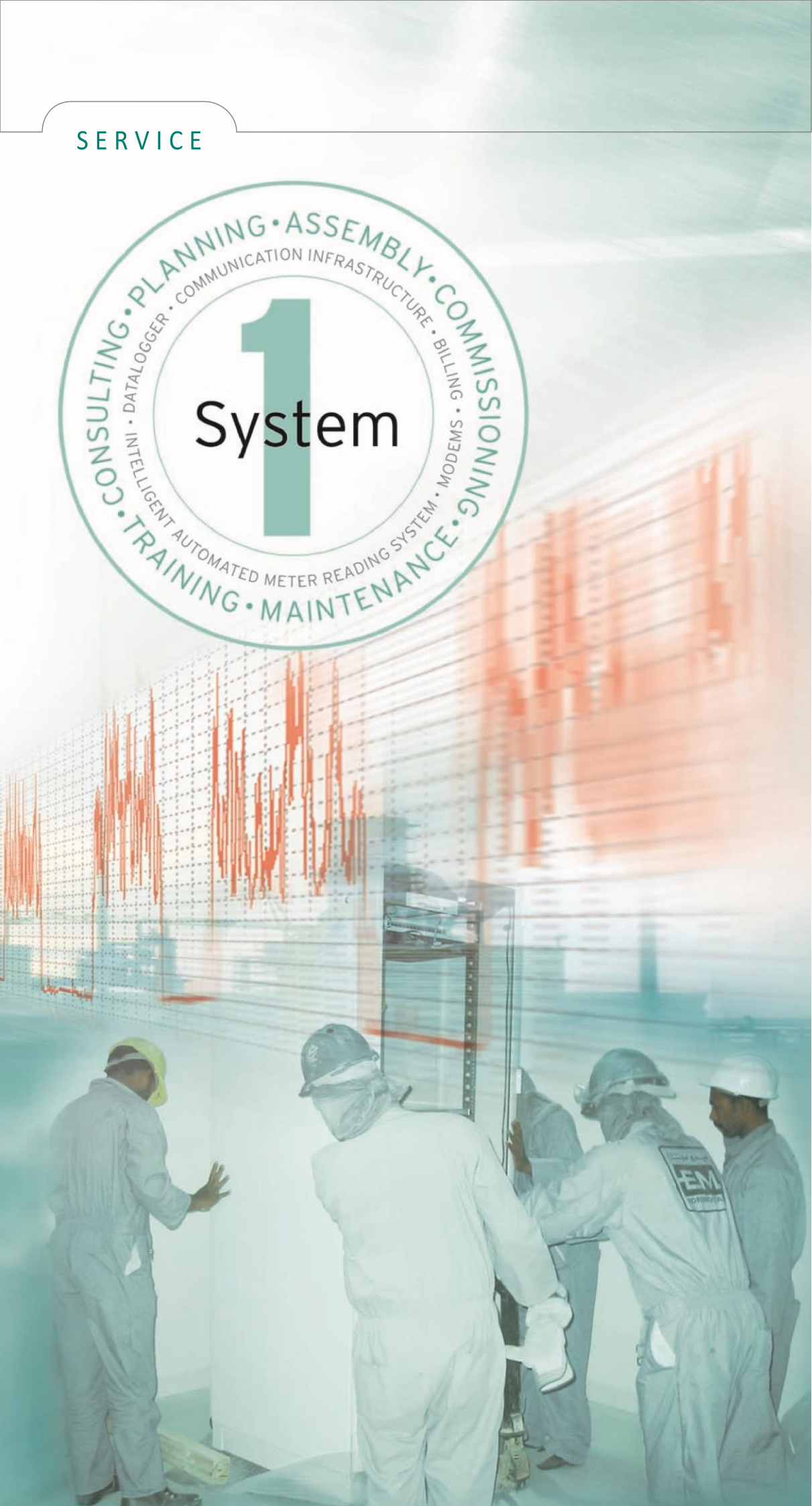
We have combined our experiences in deregulated markets with the enhanced possibilities of latest technological developments into one system.

We offer to the energy market a system which begins with the planning and specification and ends with the commissioning and accuracy testing of high-precision meters.

Planning, consulting, installation, commissioning, documentation, training and the maintenance of the complete system, this is all carried out by one hand; this is the unsurpassed service by Baer.



SERVICE





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