



Plant i.T.

Process Control Systems. MES inside.

Works with

EcoEtruxure™

Plant Acquis i.T EnMS – Energy Management System

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ProLei.T

by **Schneider** Electric

Qualified energy management system

Implementation of a systematic energy management system to DIN EN ISO 50001, an internationally recognized standard, is not only helping to cut operating and manufacturing costs considerably, but is also proving to be a competitive advantage and effective marketing tool.

Plant Acquis iT EnMS is the energy management system from Plant iT and can be integrated as a process control system add-on at any time. It allows production firms to realize their full potential for improving energy efficiency, to determine and document energy consumption for the production plant and to constantly improve energy consumption.

The basis for an energy management system (EnMS) is the recording of all the as-is states of primary and secondary energy sources and other media. A detailed analysis is carried out via energy monitoring. This data is subsequently displayed through uniform reporting – compared with variables over various time periods. The parameters of the intelligent alarm system (when rapidly approaching or exceeding limit values) are set using defined limit values for load peaks and consumers. This enables operators to take precautionary action: Load peaks are avoided and load valleys used in the best way possible.

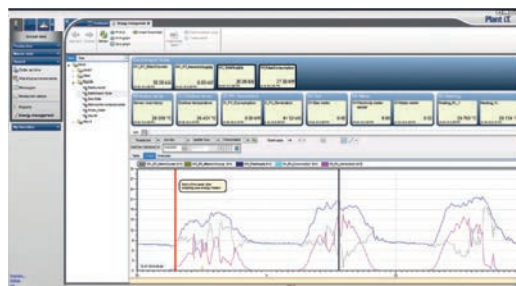
Energy data acquisition

Plant Acquis iT EnMS enables several methods of intelligent energy data acquisition. The traditional method of acquisition contains, for example, the metered values from pulse and absolute value meters, calculated (virtual) meters, summation meters, integral meters, differential meters and analogue values (e.g. ambient temperature). Depending on the available interface, the supply meters of energy supply companies can be connected directly, e.g., via M-Bus and respective converters. Furthermore, Plant Acquis iT EnMS supports

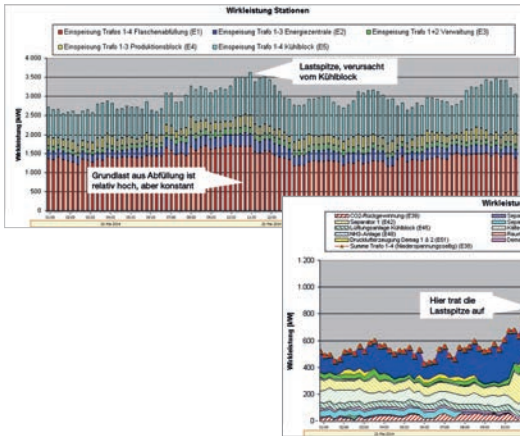
the offline acquisition of energy values with the aid of mobile data acquisition devices (PDAs). These identify the meters using barcode labels and thus enable the manual input of meter values. Additionally, the import and export of data can occur via MS Excel.

Plant Acquis iT EnMS supports the data transfer of energy values both from the Plant iT server and from external servers and databases. The evaluation and analysis of this data can occur either at a workstation (Plant iT Client) of the process control system or alternatively at an external office PC with the aid of an energy frontend.

Secure your competitive advantage with Plant Acquis iT EnMS and profit from a qualified energy management system according to the regulations of the German Federal Office for Economic Affairs and Export Control (BAFA). Small and mid-size businesses but also major corporations use our energy management system. We will be happy to provide you with a tailor-made plan and introduce Plant Acquis iT EnMS in your company.

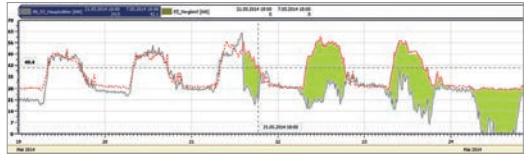


Plant Acquis iT EnMS is fully integrated in the user interface of the process control system.



The energy management system can, e.g., be used to carry out a peak load analysis for power consumption.

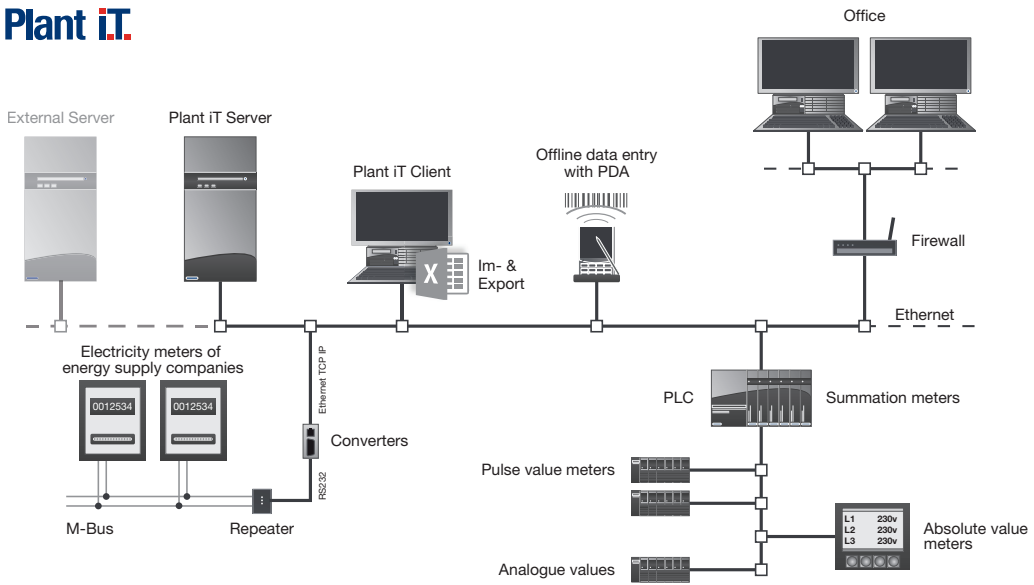
Starting up a cooling system at the same time as other processes results in expensive load peaks. Strategies in the energy management system can prevent the simultaneous operation of energy intensive units – without any negative impact on the process.



Monitoring enables comparative analyses due to simple stacking of data from various time periods.

Plant Acquis iT EnMS: The main advantages at a glance

- Detecting plant areas with the highest level of consumption
- Revealing faulty units and malfunctions, e.g. leaks in the compressed air networks
- Delivering a detailed analysis of critical plant components
- Analyzing consumer values and recognizing consumers with the greatest potential for savings
- Peak load analysis: Avoiding load peaks through a prioritized switch-off and restart strategy, including fully configurable minimum runtime and minimum and maximum downtimes
- Recognizing recurring consumption peaks through the parallel start-up of plant components and the reporting of critical operating conditions
- Monitoring recorded values, including output as a web report (SSRS) or via Excel
- Defining the optimization time with subsequent analysis and evaluation of achieved savings
- Standardized documentation of realized measures for optimizing energy consumption



Architecture of energy data acquisition with Plant Acquis iT EnMS



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