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Ingenuity for life



SIMATIC Energy Management

Transparency and Efficiency from the Machine to the Company

The Challenge

The glass industry is traditionally an industry with a high energy demand. Annual increases in energy costs, compliance with legal requirements (e.g., ISO 50001), and above all, environmental and climate conservation are the current challenges facing the industry. Customers and investors increasingly expect environmentally friendly products.

The key to mastering these challenges is a precise knowledge and an analysis of one's own energy consumption – from the individual devices in the facilities to the company as a whole. Only with this knowledge is it possible for you to identify the potential savings, increase energy efficiency, and thereby reduce costs and lower your carbon footprint.

The Solution

Take advantage of SIMATIC Energy Management, a comprehensive ISO 50001-certified, scalable portfolio of products and solutions – from energy data collection at the field level to enterprise-wide energy analysis at the management level.

Your Advantages

With SIMATIC Energy Management, the energy flows in your facilities can be displayed transparently and in detail. The consumption data can be analyzed and energy saving potentials can be derived, sustainably increasing efficiency and productivity. The result is not only an improved cost structure and higher competitiveness, but also the confidence of customers and investors that you are aware of your responsibility to the climate and to future generations.

After quick and easy engineering, SIMATIC Energy Management provides you with energy data measurement for your facilities, as well as consistent recording of the data obtained – supported by integrated standardized interfaces. The SIMATIC Energy Manager supports you in analyzing, logging, and documenting your energy data and the related production data. The consumption values for the individual devices are analyzed in real time, enabling efficient peak load management.

The S7 energy efficiency monitor evaluates the efficiency of your machines, thereby allowing you to identify maintenance requirements early, for example, or to draw conclusions about the efficiency development of the devices.

SIMATIC Energy Management, therefore, provides you with a comprehensive view of all energy and resource consumption.

Advantages of SIMATIC Energy Management

- Overview of the energy flows and costs
- Derivation of energy efficiency measures using the energy key figures obtained
- Climate and environmental conservation
- Sensitization of employees
- Transparent and comprehensible goals and their fulfillment
- Energy assessment of technological processes and facilities
- Increased planning security
- Ensuring that efficient facilities remain efficient

SIMATIC Energy Management – transparency and efficiency from the facility through to the entire company



SIMATIC Energy Manager Plant and company-wide energy management

Management level

Processing and monitoring



Production level

Data acquisition



Field level (e.g., drive motor)

SIMATIC PCS 7

Efficiency in production

- Process **monitoring** and **control**
- **Automatically generated** instead of programmed
- **Real-time measurement** directly in the field

Integrated energy measurement

- Directly in the field: For example, with the SIMATIC Energy Meter (ET 200SP) & SITRANS FX
- For all resources

Meet legal requirements, ensuring tax benefits



Technical support, services und consultation

Scalable and comprehensive products and solutions (ISO-50001-certified)



Integrate with automation with little engineering time and effort

Derive energy efficiency measures



Optimize energy use

Save costs – Conserve the environment



Transform data into information



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