

SIMATIC Energy Suite - Energy transparency in production

Intelligent energy monitoring - from data acquisition to proactive load management

Manage the energy consumption of your plants. Prove the energy efficiency of your machines and plants in detail. Monitor the agreed capacity limits for electrical energy and avoid fines with active load management. Simple and integrated into automation with SIMATIC Energy Suite and S7 Energy Efficiency Monitor

Simple and integrated energy management

From the measurement of individual loads to detailed evaluation of the efficiency of entire machines, SIMATIC Energy Suite and the S7 Energy Efficiency Monitor bring the energy transparency to your automation system. In addition, you can use the load Management in Energy Suite to avoid the peak loads in industrial applications and to distribute loads evenly. The engineering integrated into TIA Portal supports you with simple implementation of production-level energy monitoring.

SIMATIC Energy Suite:

Energy data acquisition generated automatically

SIMATIC Energy Suite, as an option for TIA Portal, efficiently links energy management with automation, thus creating energy transparency in the production system. The suite allows different types of energy data to be grouped, buffered, and visualized in a standard way. The considerably simplified configuration and automatic generation of the energy management program significantly reduce configuration costs. Thanks to the integrated interface to SIMATIC Energy Manager, the recorded energy data can be seamlessly included into a cross-site energy management system certified in accordance with ISO 50001.

S7 Energy Efficiency Monitor

Standardized efficiency evaluation of machines

With the S7 Energy Efficiency Monitor, machine manufacturers can easily document the energy efficiency of their machines based on six defined machine conditions and thus comply with the requirements of VDMA Measurement Instruction 34179. The S7 Energy Efficiency Monitor is part of TIA Portal* and enables the integration of condition-based analysis of energy data into machines without great effort. Energy and media data can automatically presented as an acceptance document on the SIMATIC operator panel and in Excel format. Plant operators also benefit: The efficiency data are part of the automation and can be called up on the operator panel at any time and can optionally be transferred to SIMATIC Energy Manager via the integrated interface and used for long-term evaluation across multiple machines. In this way, the operator

can see the energy consumption over the plant lifecycle at a glance, identify any inefficient operating behavior, and take suitable measures to resolve the issue.

* TIA Portal V15 and higher