



**SIEMENS**

*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. In addition to annually rising energy costs and the consideration of renewable energies, environmental and climate protection is another challenge.

In the course of the UN Climate Conference 2015, a maximum limit of two degrees Celsius was set for global warming.

In order to achieve this ambitious goal, the ISO 50001 standard was introduced. ISO 50001 defines an international standard for energy management systems.

Implementation of this standard offers great potential for energy savings, especially in the glass industry, and consequently also reduces energy costs. Depending on regional support programs, companies certified according to ISO 50001 can also benefit.

The new version of ISO 50001:2018 has further tightened the requirements for certification. A deadline of 2021 has been set for the conversion to the new standard, whereby auditing may only be carried out in accordance with the new standard from February 2020.

## The Solution

Using the SIMATIC Energy Management an extensive ISO 50001 certified, scalable product and solution portfolio - from energy data acquisition at field level to enterprise-wide energy analysis at management level.

## The solution

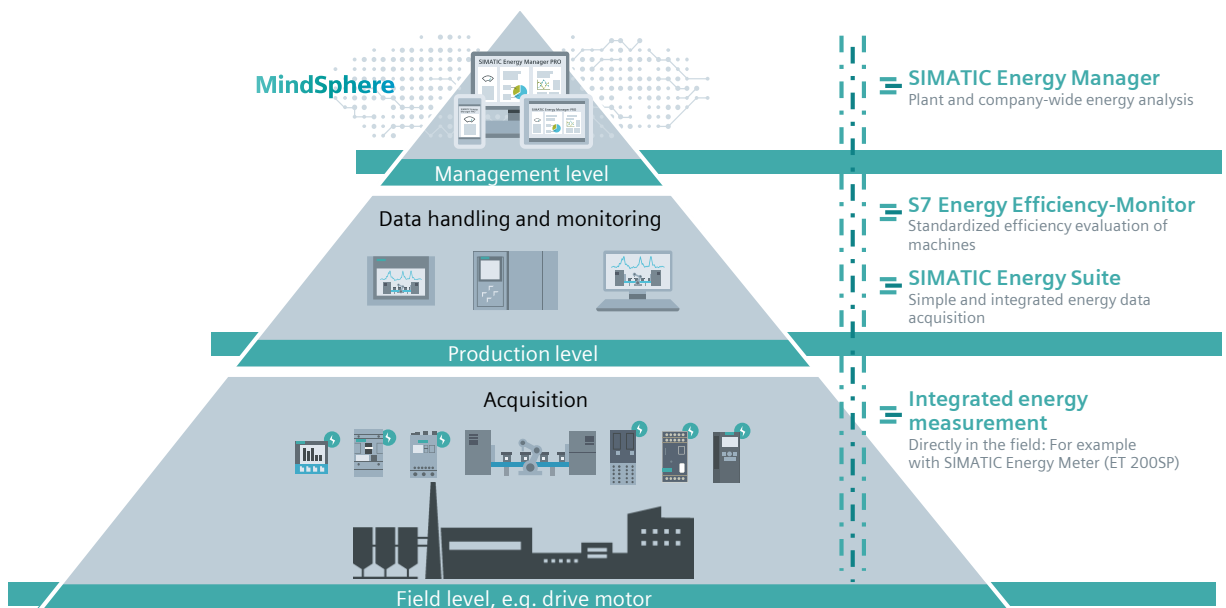
With SIMATIC Energy Management, the energy flows in your plants can be displayed in detail. The consumption data can be analyzed and energy saving potentials derived which sustainably increase efficiency and productivity. The result is an improved cost situation and greater competitiveness.

With SIMATIC, you can implement an integrated, expandable and scalable energy management system. And all this with fast, simple engineering and comprehensive analysis functions. Open interfaces give you every freedom for data input and transmission, and the SIMATIC Energy Meter energy measurement modules provide you with an ideal basis for recording measurement data.

## Advantages of SIMATIC Energy Management

- Overview of the energy flows and costs
- Derivation of energy efficiency measures on the basis of the indicators obtained
- Sensitization of employees (cost center-oriented accounting)
- Transparent and comprehensible goals and their fulfillment
- Energy evaluation of technological processes and equipment, e.g. according to VDMA 34179
- Increased planning certainty
- Ensure that efficient equipment remains efficient
- Addressing climate and environmental protection

# SIMATIC Energy Management - From energy transparency to energy efficiency!



**Efficient compliance with legal requirements**  
 by a TÜV-certified energy management system according to ISO 50001.

**Secure competitive advantages & achieve sustainability goals**  
 through the sustainable use of energy and resources with reduced CO<sub>2</sub> emissions.

**Exploiting results and potentials**  
 by using transparency to identify and implement optimization potentials and to track the resulting measures.

**Benefit from changes in energy prices**  
 by optimizing purchasing through reliable energy forecasts and active energy management

**Flexible and scalable system**  
 That can be easily expanded and supplemented.

**Energy evaluation**  
 technological processes and equipment

## Available product portfolio

| Portfolio   | Article No.        |
|---|--------------------|
| SIMATIC Energy Manager Basic V7.1                                 | 6AV6372-1DF07-1AH0 |
| S7 Energy Efficiency Monitor for machines, S7-1500/1200           | 6AV2108-1CF00-0BH0 |
| SIMATIC Energy Suite V15  | 6AV2108-0AA05-0AH5 |
| SIMATIC ET 200SP - Analog input module AI Energy Meter 480V AC ST | 6ES7134-6PA20-0BD0 |

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