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
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 CO₂ 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

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

Published by Siemens AG

Vertical Glass Siemensallee 84 76187 Karlsruhe, Germany siemens.com/glass © Siemens 2019

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract. All product designs may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.