



SIEMENS

Ingenuity for life

Increase your machine efficiency

S7 Energy Efficiency-Monitor for machines

[siemens.com/simatic-energy-management](https://www.siemens.com/simatic-energy-management)

S7 EE-Monitor

Measuring data - Details
EL01 Electrical Infeed

Off

7.9



110.5

120.0

Standing

15.0



208.1

190.0

Operational

17.0



908.4

500.0

Working

18.8



1255.8

1908.0

Powering

19.0



688.1

650.0

Powering down

19.0



118.0

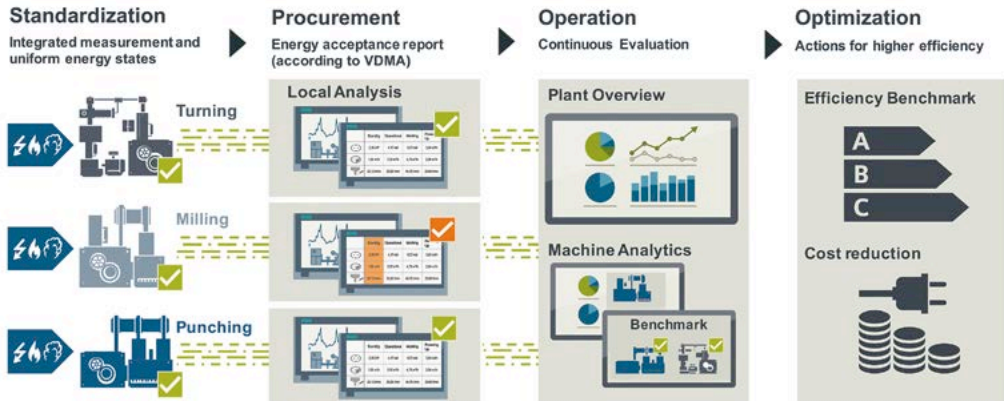
108.0

Actual

Target

+2.54 / hour

The standardized way for higher energy efficiency in production



S7 Energy Efficiency-Monitor for machines

The S7 Energy Efficiency-Monitor for machines is integrated in the TIA Portal V15 Step 7, for status-related analysis of energy data.

Machine manufacturers can integrate this function into their machine and so the energy and media usage can automatically be traced in an acceptance form in the SIMATIC HMI and in Excel.

The data can optionally be sent via the integrated interface to the SIMATIC Energy Manager PRO and used for a cross-machine, long-term evaluation.

The system operator has the energy supply in view, both during the acquisition and during the plant life cycle.

Siemens supply:

- S7 function blocks
- Status-related calculation
- Easy integration into SIMATIC Energy Manager PRO
- HMI visualization
- Excel template
- Support for configuration and commissioning

Using the S7 EE-Monitor:

- The machine has different operating states with different power levels
- The electrical consumption and/or other media are recorded in the machine

S7 Energy Efficiency-Monitor for machines:

- Easy evaluation of energy efficiency of machines according to measurement instruction VDMA 34179
- As feature of TIA Portal, the smooth integration to S7-1200 and S7-1500 controllers is possible – with minimum effort
- Integration directly on the machine control and HMI panel – enables immediate recognition and reaction to inefficiencies
- Offers uniform access to energy data of various machines of different machine builders
- Provision of measurement protocols for the analysis and documentation of machine efficiency
- Connection to cross-machine systems such as SIMATIC WinCC or SIMATIC Energy Manager PRO