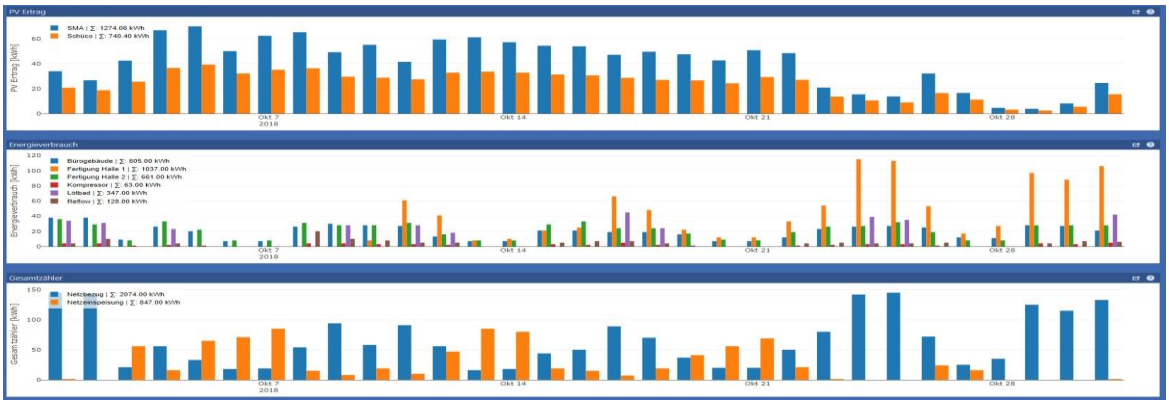
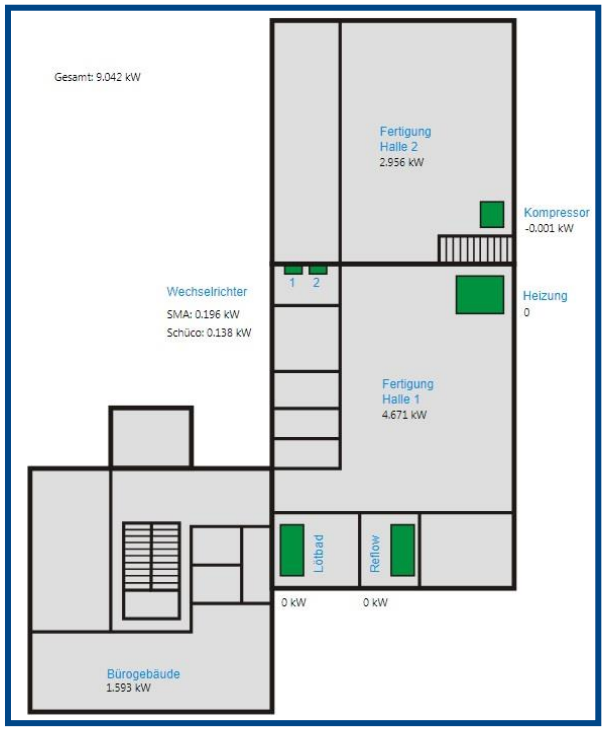
iSOL Energie Monitoring System (EMS)

Measuring, analyzing and optimizing are the basic steps for sustainable energy management. A transparent display of all energy consumption and energy generation plants (PV, CHP, wind and hydropower plants) provide the base for this. Not only electrical energy, but also other measuring points such as water consumption, compressed air or temperature as well as process-specific measured values can be easily integrated to obtain a comprehensive picture of the energy flows. Downstream optimization and alarming functions complete the iSOL Energy Monitoring System (EMS).



Overview

- Daily, monthly, annual displays
- Easy access via web browser
- Integration of Scalable Vector Graphics
- Individual user administration
- Export functions
- Interfaces to superimposed systems
- Optimal energy management
  - E-Mobility
  - Load Management
  - Control Power
  - Energy storage
- Integration of all common PV inverters and CHP manufacturers
- Implementation of customer-specific requirements through decentralized module structure
- E-mail and SMS notifications
- Flexible for future requirements



Energieverbrauch	1.6.2023	6.2023	2023	Gesamt
Bürogebäude	10,00 kWh	10,00 kWh	4002,70 kWh	13273,50 kWh
Fertigung Halle 1	8,90 kWh	8,90 kWh	4502,30 kWh	48275,80 kWh
Fertigung Halle 2	5,10 kWh	5,10 kWh	2583,30 kWh	22769,10 kWh
Kompressor	0,90 kWh	0,90 kWh	364,70 kWh	3548,90 kWh
Lötbad	16,70 kWh	16,70 kWh	2848,50 kWh	26735,30 kWh
Reflow	- kWh	- kWh	916,10 kWh	8167,40 kWh

Features

- Real-time data acquisition
- Minute to minute consumption data
- Integrated web server
- Ethernet interface
- Various interfaces for the integration of different meter manufacturers
- Calculations of additional values from the generated measurement data
- Open and flexible system architecture for individual extensions
- Remote access for configuration adjustments
- Secure data transmission
- Foundation for certification according to DIN EN ISO 50001

Subject to technical changes