EcoPhi

The EcoPhi EMS

The EMS for future-proof energy systems

Our energy management system combines monitoring, analysis, and active control in one single platform. For more control, maximum efficiency, and future-proof energy systems.

Smart control options

- Self-consumption optimization
- Peak shaving
- Threshold-based controls
- Individual controls
- In accordance with §14a EnWG and §9 EEG
- Feed-in limitation
- Integration of dynamic electricity tariffs
- Flexible load control
- Fuel Saver
- Local & cloud-based control

Combine multiple components in one system and **control them intelligently**.

Your benefits

- **Holistic System Transparency:**
  Visualization and analysis of all relevant components
- **Maximum Energy Yield:**
  Through intelligent control and demand-driven optimization
- **Modular & Scalable:**
  Ideal for future system changes or expansions
- **Cross-Component Integration:**
  Manufacturer-independent and interoperable

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Manufacturer-independent integration

Our platform supports a broad spectrum of established manufacturers and system architectures. Additional protocols can be integrated on demand.

- **PV systems**
- **Battery storages**
- **EV chargers**
- **Flexible loads**
- **Gensets**
- **Other energy components**

What we monitor for you

We capture all relevant energy flows and performance metrics from grid import to self-generation. Also battery metrics such as state of charge (SoC) and charging/discharging power are continuously monitored.

Depending on the connected system, we also provide insights into detailed plant parameters such as voltages, currents, frequencies, temperatures, and device statuses.

Supported communication standards

- Modbus TCP
- Modbus RTU
- Ethernet
- Digital In- and Outputs
- Analog In- and Outputs
- NB-IoT / LTE/ 3G/2G
- OCPP
- EEBUS
- REST API
- SUNSPEC
- CAN
- LoRa

Our platform supports a wide range of established protocols and interfaces.
This enables the implementation of numerous use cases.
Control, monitor, and optimize them centrally and intelligently.