evon
EDMS

ISO50001 certified

Data Analysis &

Management

Energy data management based on

evon EDMS

evon EDMS

The basis for every optimisation approach is data. evon EDMS is a distributed energy data management system that employs the database-supported recording and evaluation of all data. This makes it an energy management tool certified according to ISO50001 and BAFA listed. This ensures long-term energy data management and high levels of investment protection.

There is more: you will be notified as soon as the values show significant deviations. Warning and alarm limits can be freely defined. You can also compare similar components and thus implement continuous improvement.
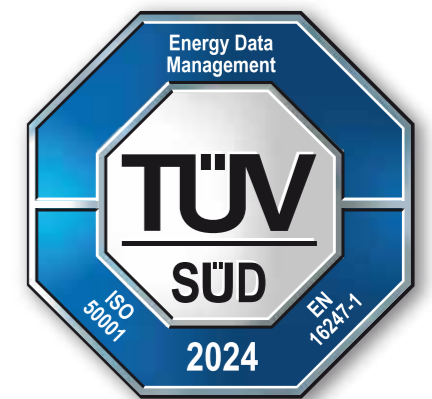
The management of energy is playing an increasingly decisive role in the modern business world, particularly in view of rising energy costs and growing environmental awareness. Energy management based on evon EDMS is an effective way to monitor, analyse, and optimise energy consumption.

This innovative solution enables your company to measure, check, and manage energy flows. Nowadays, the priority is not just to reduce costs but also to comply with environmental protection regulations and to increase the efficiency of energy use.

evon EDMS

Many Functions, many Advantages

Consumption Analysis

Measurements of energy and throughput data are used to generate meaningful evaluations using a range of analysis tools. You can use these analyses to compare the energy consumption and energy performance KPIs for different periods of time. This allows you to identify weak points, recognise long-term opportunities for optimisation, and promote more efficient energy practices.

Load Management

evon EDMS optimises the control and distribution of all electrical loads. It thus makes a significant contribution to supporting energy efficiency and grid stability. This results in higher levels of energy efficiency, more flexibility, reliability, and safety. In addition, it enables the improved integration of renewable energy sources by adapting the energy distribution in accordance with fluctuations in the production of renewable energy.

Data

evon EDMS offers standard reports for consumption and performance for each meter, which can be individually customised. To avoid the time-consuming creation of reports, the charts offer a flexible compilation of meters and a direct export of the displayed data to MS Excel. Meter compilations can be saved as "Meter profiles" and loaded in all charts to quickly obtain an overview of consumption and export it.

Alarms & Monitoring

The act of monitoring reaches new heights with evon EDMS, way above simple limit checking. It can be individually configured for certain periods and limit values, whereby the alarms can be set specifically to each user. This means that evon EDMS not only guarantees exact monitoring but also enables highly adaptable alarm limits.

Advantages thanks to EDMS

evon XAM- Control's energy data management helps avoid load peaks and uncovers opportunities for optimisation while improving the understanding of energy flows within the plant.

Functions:
→ Meter management measuring consumption and power
→ Evaluation and comparison of metering points
→ Measurement of virtual metering points
→ Load management to reduce load peaks
→ Export of visible data to MS Excel

Rapid measurements thanks to QR Codes

QR codes can be used in evon XAMControl for maintenance as well as for monitoring purposes. Simply create a QR code and attach it to the selected components.

When the code is scanned, you will receive a report describing the status of the components including an energy data management report.

Meter Management

An expansion module for the meter management enables the meters to be managed on a higher level.

The end user can define arbitrary attributes for each meter (e.g., tariffs, emissions factor, serial number, etc.).

Even the management of cost centres is possible with the meter management module. This means that the consumption of the meters can be allocated in terms of percentage to individual cost centres (e.g., floor, rental zone, etc.).

This results in evaluations of consumption and costs for each cost centre. This data can be exported to MS Excel for further analysis.
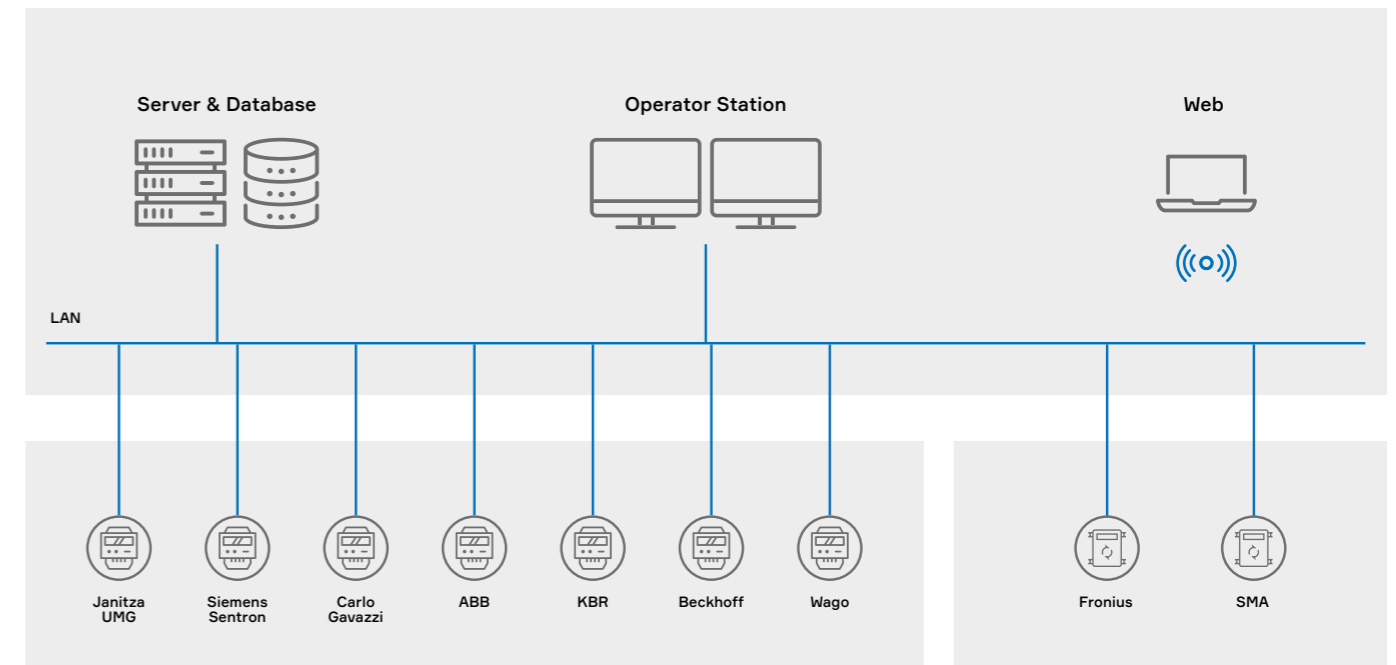
evon EDMS Web Access: Anytime and Anywhere

You have unimpeded access to your data via evon EDMS's web access - anytime and from anywhere. This means you can create individual views and maintain an overview of relevant information. This flexibility revolutionises energy data management by allowing you to use your data efficiently and create personalised dashboards.

You have an overview of your energy consumption, you can optimise costs, and contribute to sustainable environmental protection – all with one click.

System Topology Diagram

Energy Management

Control Centre

Server & Database   Operator Station   Web

LAN

Meter

Janitza UMG, Siemens Sentron, Carlo Gavazzi, ABB, KBR, Beckhoff, Wago

PV-Inverter

Fronius, SMA