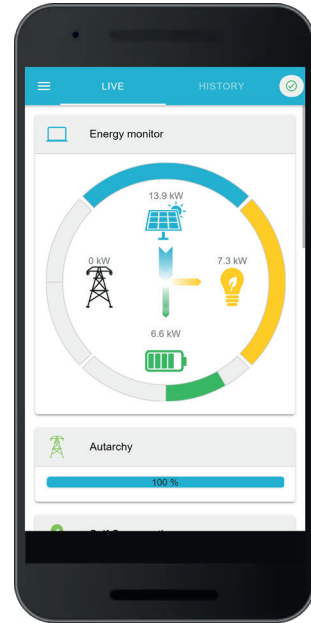
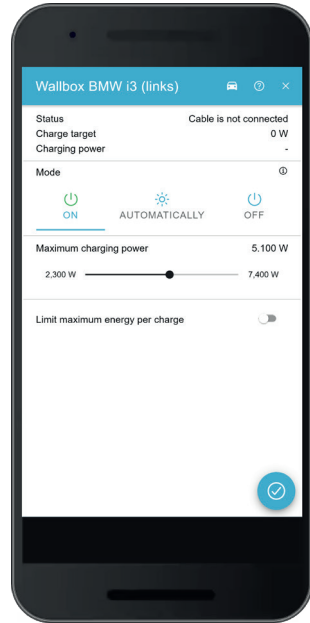


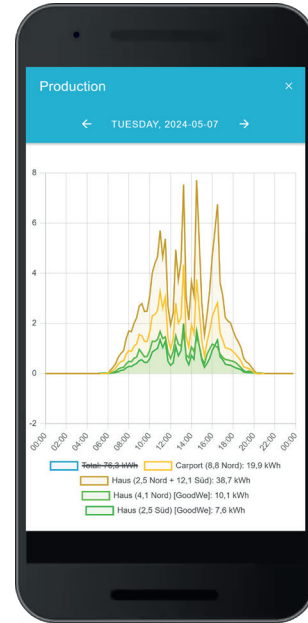
From commissioning



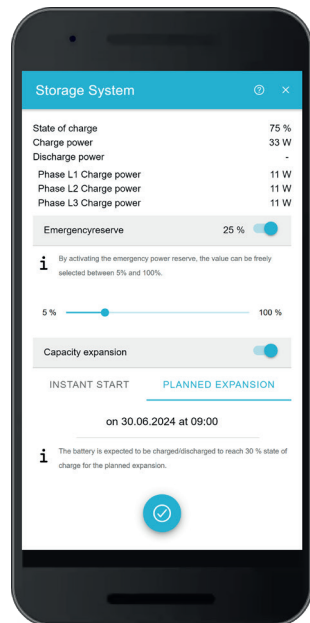
to real-time visualization.



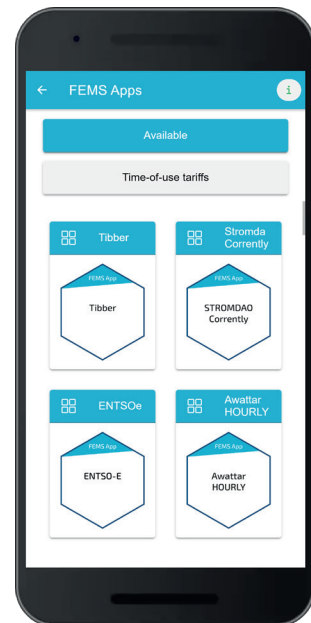
From control



to detailed historical data.



From service assistance

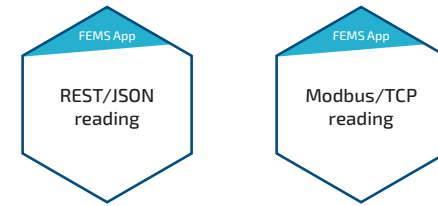


to Energy Journey.

Live demo
E-Mail: demo@fenecon.de
Password: femsdemo

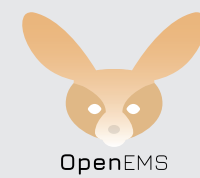
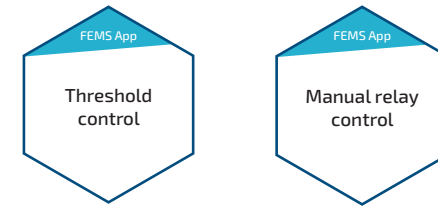
Open interfaces

FEMS integrates perfectly into your existing infrastructure. Whether SCADA control system or smart home. Using open APIs (Modbus/TCP, REST/JSON), data from FEMS can be effectively processed in different environments. While read access is included already within the standard scope of delivery, write access can be purchased additionally as an app.



Load management

Experts can switch additional loads automatically or manually based on the grid feed-in, the state of charge or other threshold values.



FEMS is built on 'OpenEMS' (Open Energy Management System), an open-source operating system designed for the energy transition and initiated by FENECON. The source code of OpenEMS is continuously developed in collaboration with an international community of private individuals, companies, scientific institutes and universities within the OpenEMS Association.

PV inverter and energy meters

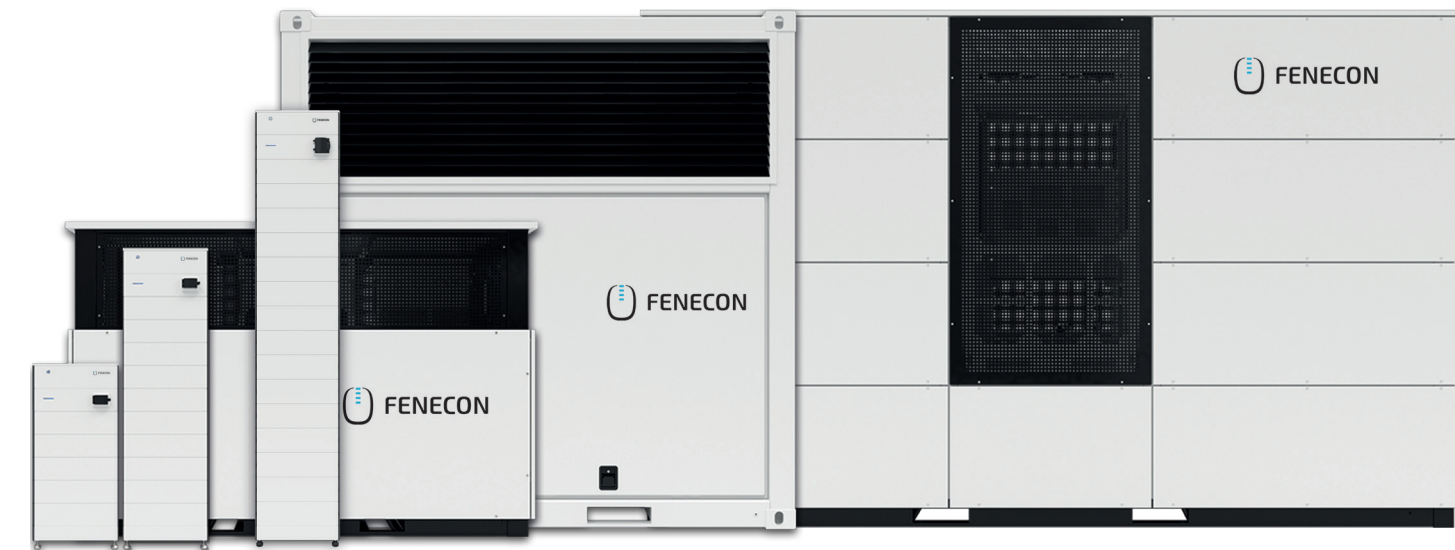
For most energy management applications, only the measurement at the grid connection point is required. For proper display of energy flows in the online monitoring and forecast-based use cases, all generators must be measured to ensure a correct consumption forecast.

FEMS can communicate directly with a large number of PV inverters. Alternatively, all other AC generators can also be integrated into the energy management system using separate meters.

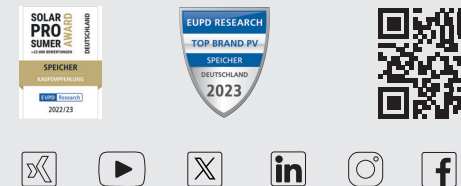


„The brain of every FENECON energy storage system“

- **Full transparency**
View historical and live data locally or via the Internet on your PC and cell phone at any time
- **High-performance hardware**
Local artificial intelligence for consumption and production forecasts and AI-optimized energy plans
- **Energy Journey**
Lifetime free updates and extendible with apps
- **Apps: buy once – use forever**
One-time purchase, no recurring costs
- **Made in Germany**
Development team and servers in Germany, data protection and IT security according to German law
- **Globally connected**
Developed as open source together with the global OpenEMS community from 52 countries
- **Included in every storage system**
For FENECON Home, Commercial and Industrial



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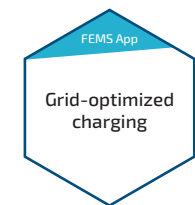
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PV self-consumption

„Energy is being produced during the day and consumed at night“ - this is the conventional use case scenario for energy storage systems. With FEMS, even higher energy yield from the PV system can be achieved. This increases the efficiency of your entire system and protects the power grid.



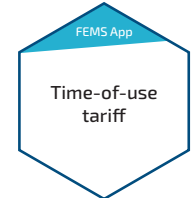
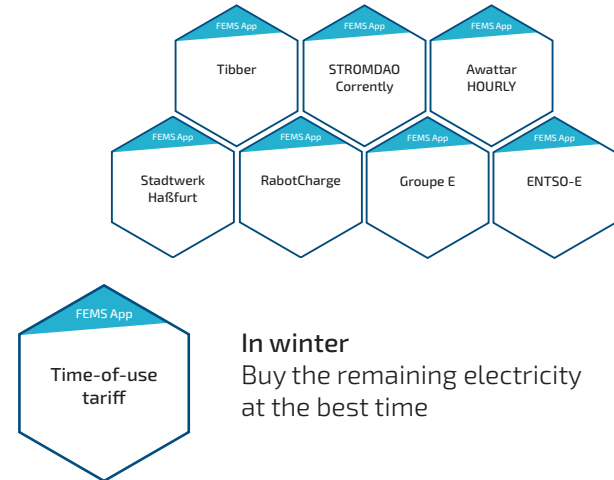
PV self-consumption
Optimize self-consumption and self-sufficiency



In summer
Avoid curtailment and charge batteries gently

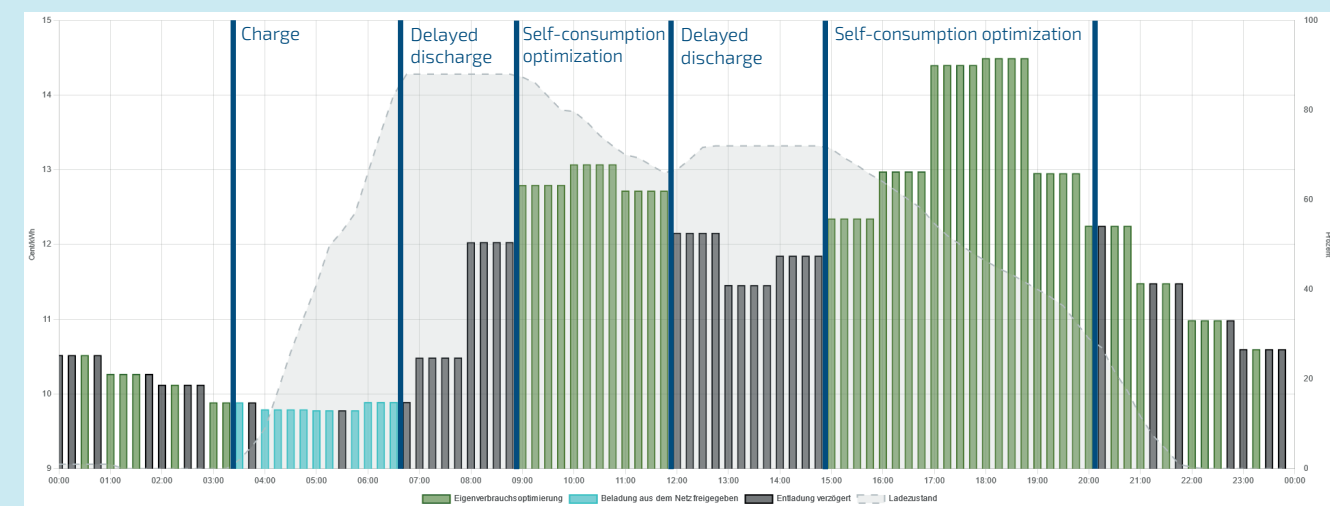
Optimized for time-of-use tariffs

The FEMS App Time-of-Use Tariff combines local production and consumption forecasts with the dynamic electricity prices provided by your energy supplier. Using AI, it automatically generates an energy plan to determine optimal times for consumers to draw power from the battery or the grid, and when to charge the battery from the grid. This ensures that FEMS not only maximizes self-consumption from your photovoltaic system but also optimizes the remaining electricity consumption based on real-time electricity pricing.



In winter
Buy the remaining electricity at the best time

Fully automated through forecasts and AI-optimized schedules

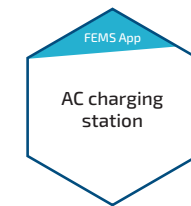


Adjustable according to §14a EnWG (German energy law)

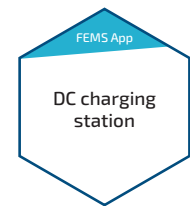
German Energy law (EnWG) §14a regulates the handling of controllable consumption devices such as heat pumps, wallboxes or energy storage systems. With this amendment, grid operators have been able to temporarily dim the output of these devices to 4.2 kW in the event of imminent grid overloads since January 1, 2024. Our residential storage systems are ready for this new regulation.

E-Mobility

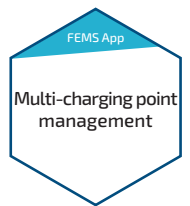
Whether for solar-optimized home charging or semi-public and public EV charging parks, the FEMS apps for e-mobility offer comprehensive coverage. You can select from a range of compatible AC and DC wallboxes. With its modular design, the system can grow and adapt to meet your changing requirements.



AC charging station

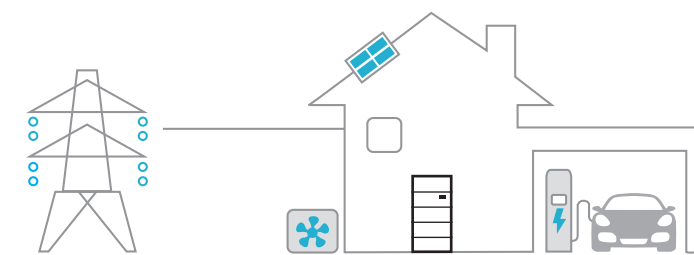


DC charging station



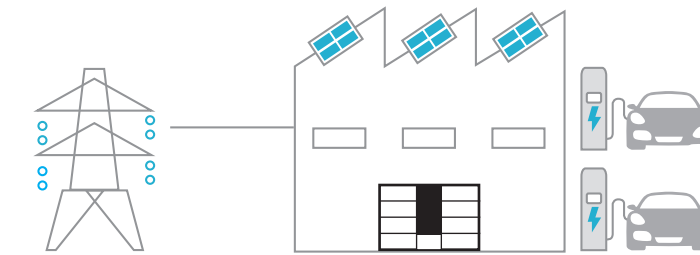
Multi-charging point management

Example system configurations:



FENECON Home

optimizes self-consumption with PV system, wallbox, heat pump and uses dynamic electricity tariffs.



FENECON Industrial

avoids grid expansion with PV system, several charging stations and peak shaving app.

Standard apps for your individual project

Standardized FEMS apps transform a versatile FENECON Commercial or Industrial storage system into the perfect solution for various projects. The integrated App Centre allows for quick and easy switching and combination of applications.

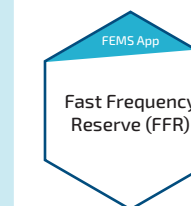
In practice, a storage system can be used to avoid the need for short-term grid expansion for a charging park or to bridge the waiting period for a transformer. If necessary, the system can switch to phase-accurate blackout protection or peak-shaving to mitigate high power prices. Additionally, power and capacity can be marketed through the proven interface to various trading service providers.

For short-term demand, FERESTO rental energy storage systems offer an ideal solution.



Frequency stabilization

< 1 second



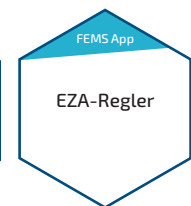
Fast Frequency Reserve (FFR)

Real-time control

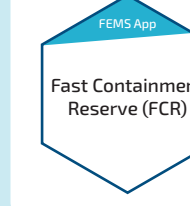
< 30 seconds



Write access industrial storage



EZA-Regler



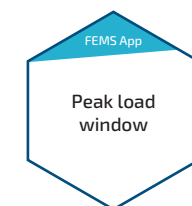
Fast Containment Reserve (FCR)



Peak shaving

Energy-Plan

15 minutes - 34 hours



Peak load window



Time-of-use tariff