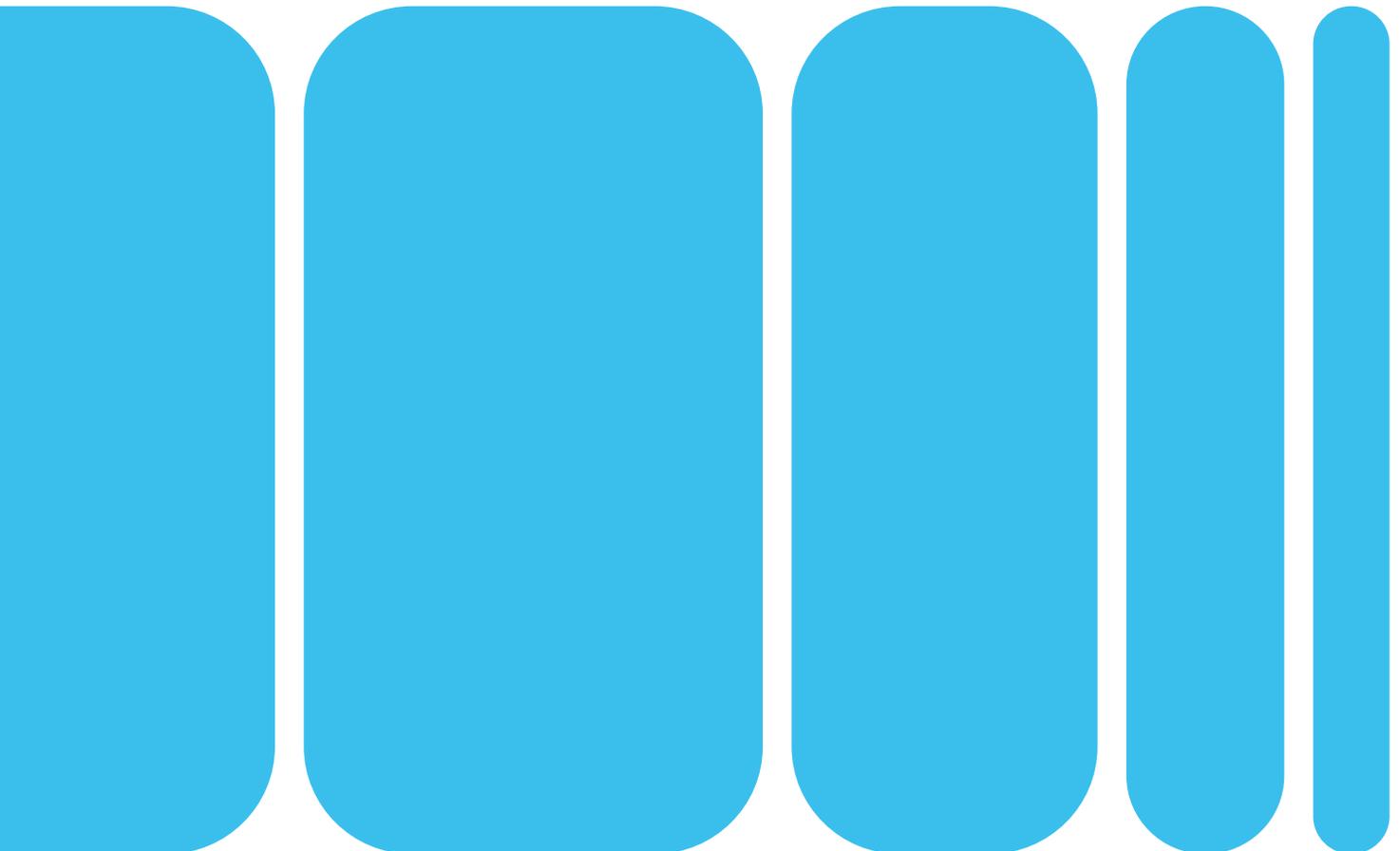


# IT'S YOUR ENERGY JOURNEY

Storage solutions  
for home and  
commercial





The energy problem: a central task

# OF OUR GEN ERATION

Introduction

## Individual Energy Journeys are the key

Since 2011 we have been developing electrical energy storage solutions and energy management systems with one clear vision in mind: The 100% energy transition. Finding an answer to the question of energy production is one of the central tasks of our generation — And we already have the technologies to turn ideas into actions. The sun, wind power, electricity storage systems and an intelligent energy management are the cornerstones of a sustainable energy system.

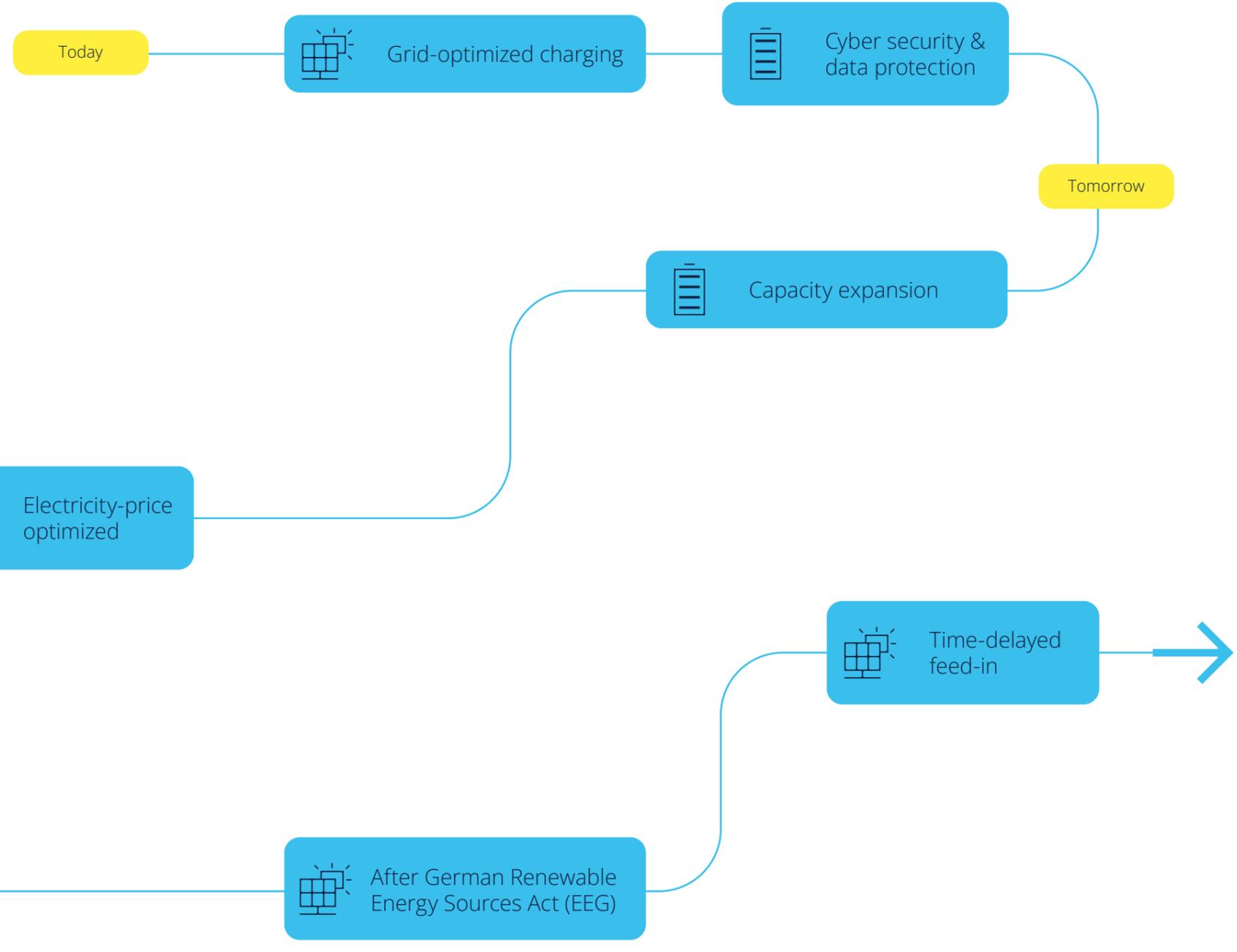
Our goal: Electricity, mobility and heat provided at minimal costs, climate-friendly and without becoming dependent on anyone. Our solutions provide room for creativity — independence, flexibility, and protection from external influences. We rely on strong local partners, as the energy transition takes place on a regional level.

Let's shape the future of energy together. Whether an electric car, heat pump, PV system expansion or time-of-use tariffs and variable grid charges: With FENECON systems, the FEMS energy management and FEMS Apps, the system adapts flexibly to your requirements.

Each Energy Journey is unique:

**IT'S YOUR ENERGY JOURNEY!**

# START YOUR ENERGY JOURNEY



Electrical Energy Storage with EMS	Heating & Air conditioning	Mobility	Production & Feed-in management	Grid withdrawal management
Inhouse service & support	Heat pump	Solar-power optimized	Avoidance of curtailment	Dimmable in accordance with §14a EnWG
FEMS apps extension	Electricity-price optimized	Provider-independent	Direct marketing	Dynamic tariffs
Power output expansion	Optimization across sectors	BEV charging park	PV extension	back-up power supply
	Klimaanlage			Provider-independent



# THE BEGINNING OF A JOURNEY

A journey that continues, thanks to an modular system that is upgradable to your requirements.

### The first step: Store electricity and manage it intelligently with your EMS

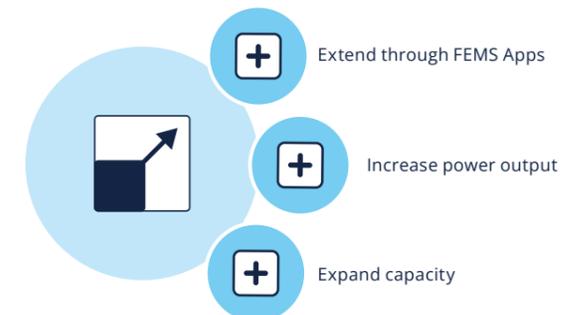
Your Energy Journey never ends. Thus, your system and EMS should be able to grow with your requirements.

The FENECON Energy Management System (FEMS) thinks about tomorrow today and adapts flexibly to your growing requirements.

### The system already includes:

- System expansion for future requirements (see illustration below)
- An effective in-house service department (see illustration below)
- Cyber security and data protection
- Your future, personal AI-powered energy assistant

### Upgradable systems to meet increasing requirements



### An effective in-house service department





# A system that chooses the best path for your day

Our EMS is your daily companion, real-time decision-maker and future planner

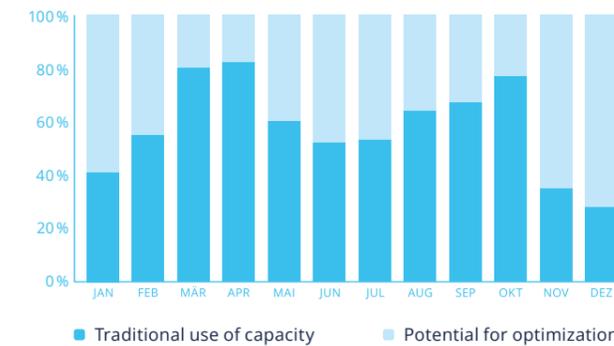
With every step on your personal Energy Journey, the energy you consume becomes cheaper, cleaner, and you become more independent. Simultaneously, the complexity increases: When should energy be drawn from the grid or fed into the grid? When should the

electric car be charged and the heat pump operated? When should the electricity storage system charge or discharge? This is where our intelligent energy management system can play to its strengths for optimization.

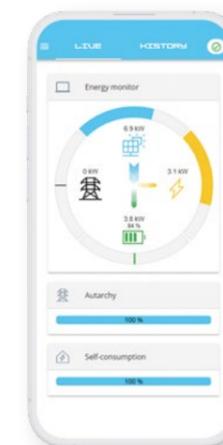
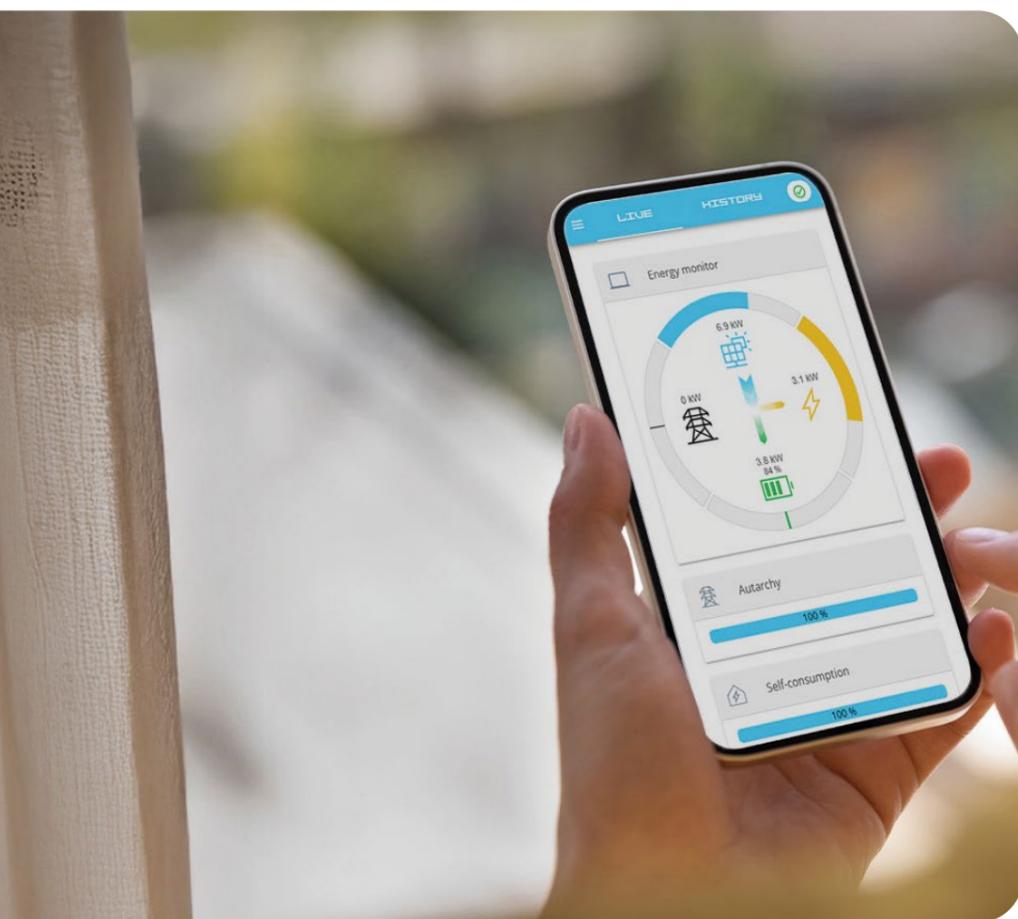
### The easiest way to optimize: A forecast-based EMS

Did you know that battery systems with conventional self-consumption optimization are utilized to only 60% on average?

During winter the battery capacity often remains unused during the day, while during summer, leftover energy is stored overnight. With FENECON, you can utilize your system to 100% thanks to forecast-based energy management.



Example: 10 kWp, southern PV orientation | 8.8 kWh battery



### Included

FEMS is the heart of your energy system and is fully integrated into the storage unit as a compact box right from the start.

### Future-proof

Thanks to FEMS, your storage unit remains open for whatever the future may bring. Optional FEMS apps allow you to expand your energy system with new devices, ideas, and possibilities at any time. This is no problem thanks to the manufacturer-independent open-source approach.

### Proactive

FEMS ensures that your energy doesn't just run – it follows your life. The AI-based forecast creates a holistic, customized energy roadmap in real time that takes into account weather data, consumption profiles, tariffs, and grid conditions.



More info about FEMS



Test it yourself with our demo access



# Always the right temperature

Smart integration of heat pumps, heating elements, and air conditioning



Heating is among the most energy-consuming household applications. Thus, electric heating represents one of the most important milestones on our journey to the 100 % energy transition. The FEMS App Power-to-Heat allows to use electricity from your own production directly to heat water or support your heating instead of feeding it into the grid at no gain.

How PV surplus is generated and can be used for heating and air conditioning is shown in the graphic to the right. All heat pumps with the "SG Ready" label can be integrated. FENECON also works with various manufacturers to ensure continuously increasing compatibility. This keeps your energy system flexible and future-proof.

## Three steps to intelligent heat pump control

The integration of your heat pump into FEMS can be optimized step by step — for higher efficiency, lower costs and maximum utilization of your energy sources:

### Solar optimization — Start here

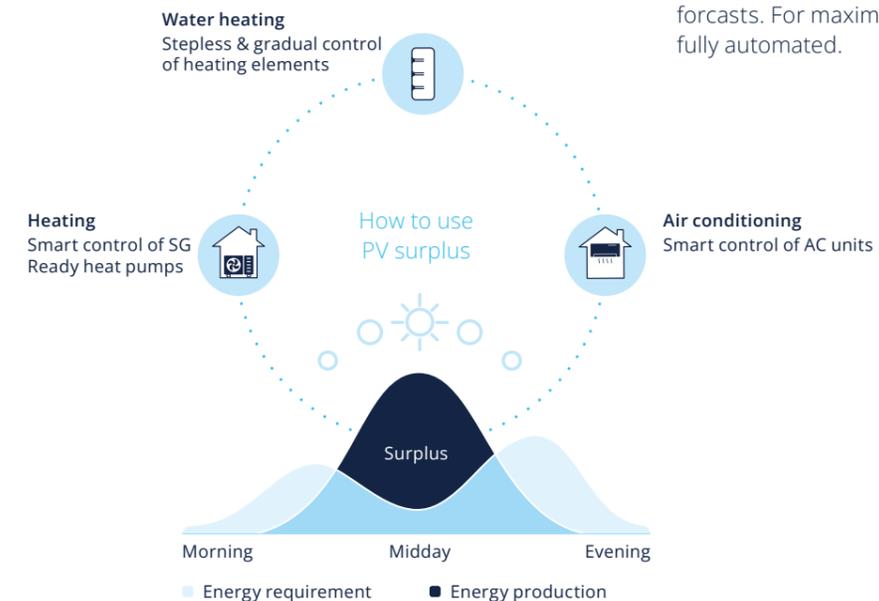
Simple and effective: The heat pump is controlled by FEMS in such way that it preferably runs at times when a surplus in solar power is available.

### Cost optimization — A smart upgrade

Through the integration of time-use-tariffs, the heat pump can additionally be operated from the grid when electricity prices are low — ideal when combined with a PV system. Both solar power and low electricity prices are work together intelligently.

### Schedule optimization — The ideal solution (currently under development)

Soon, FEMS will fully integrate heat pumps into an AI-based energy schedule — considering all factors like legal regulations, network charges and price forecasts. For maximum efficiency and autonomy — fully automated.





# FULL WATT AHEAD



Build your charging system your way.  
Independent from manufacturer ecosystems and upgradable any time.

**The perfect combination:  
E-Mobility & Electric energy storage systems**

The combination of e-mobility and intelligent energy storage systems not only provides new opportunities for cost-effective energy supply, but also for sustainable mobility.

By using surplus solar power for charging electric vehicles directly, you increase your self-consumption significantly.

**Good for today, good for tomorrow**

Our e-mobility solutions are modular, i. e. they can grow with your requirements. Maybe you only need one wallbox today. Tomorrow, you might have a second electric car and need another wallbox. You can choose from the whole range of compatible models.

**Choose your manufacturer**

We are working with several manufacturers of AC and DC charging stations on further integrations.



und weitere

## Three steps to intelligent wallbox control

The integration of your charging station into FEMS can also be optimized step by step:

**Solar optimization — Start here**

Your electric car is primarily charged when there is a surplus of solar power available.

**Cost optimization — A smart upgrade**

By integrating time-of-use tariffs, times of low electricity prices on the market are taken into account. Your car is charged with solar power from your own plant or with power from the grid at the best price available.

**Schedule optimization — The ideal solution (currently under development)**

Soon, FEMS will also fully integrate your wallbox into an AI-based energy schedule. The schedule considers price forecasts, grid bottlenecks, legal regulations, and your personal mobility routines.



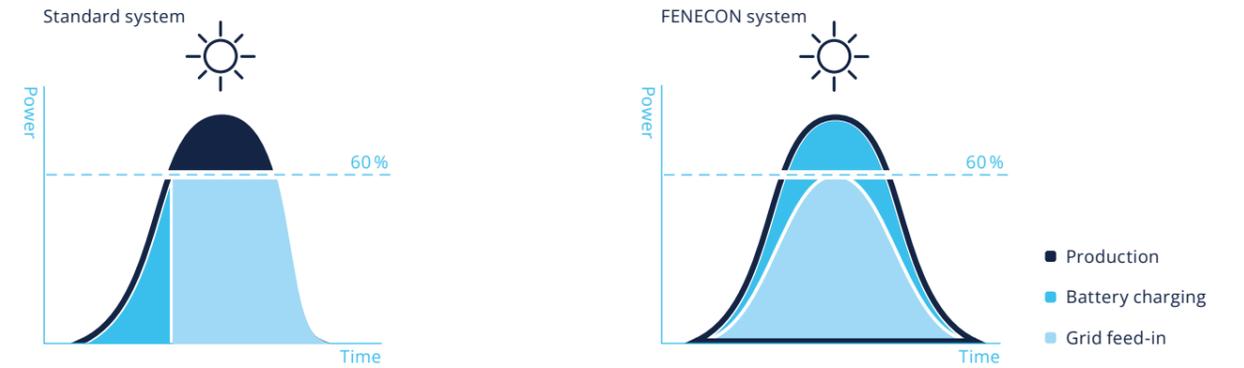
# Making the most of summer

## Avoid curtailment and charge battery-friendly

During the summer months, the optimization of self-consumption lies clearly in focus. Your system will charge primarily with surplus power from your PV plant and stores it for your own use. If you produce more, the excess energy is stored in a grid-friendly

way. Your house runs on your own, self-generated power, and the grid feed-in is reduced to a minimum. This avoids potential curtailment through the grid operator and minimizes stress on your battery system.

### Grid-Optimized Charging as a standard with FENECON systems

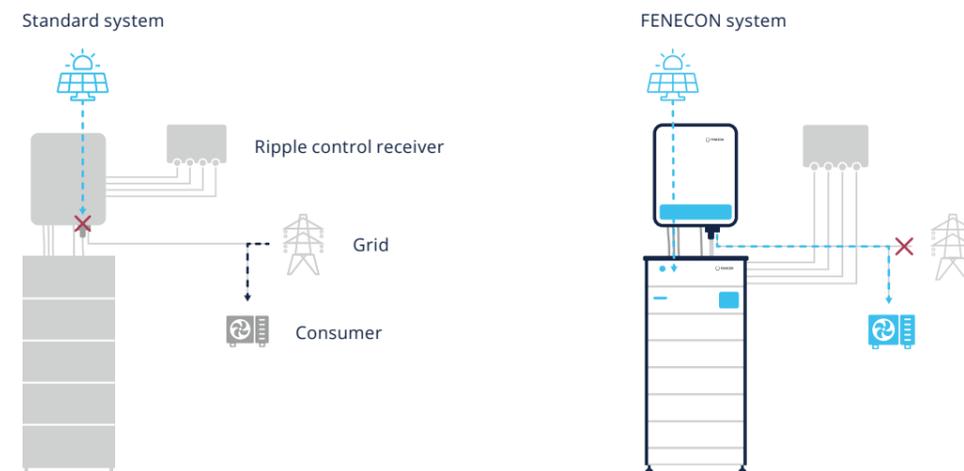


Traditional systems initiate charging when the sun comes out. The battery will be charged by midday and from this point will feed into the grid — but reduced to 60% power. In contrast, a FENECON system works grid-optimized.

Using the FEMS App Grid-Optimized Charging will slowly charge the battery, so there is still capacity left at midday. Your PV plant continues to produce at full power to charge the battery, without being curtailed.



### How our innovative system control avoids curtailment by the grid operator



In traditional systems, the grid operator applies an external feed-in limitation to the inverter's AC output. Consumers are then supplied from the grid.

Unlike other systems, FENECON systems are curtailed at the grid connection point. Despite the feed-in limitation imposed, your consumers are still supplied from your PV surplus energy.

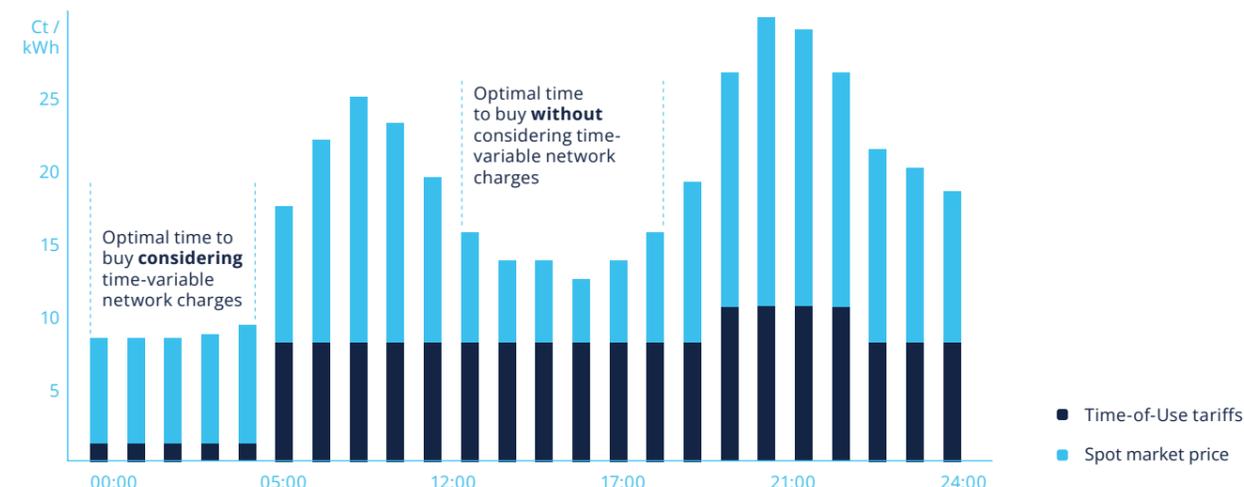


# QUIETLY TRICKLES THE PRIZE

Take advantage of the cheapest rates in winter thanks to time-of-use tariffs and time-variable grid charges

During the winter months or when the sky is overcast, „Winter Mode“ takes care of smart electricity utilization and distribution. Self-consumption is prioritized here as well. However, it is supported by an intelligent strategy for buying the remaining power from the grid, taking into account time-of-use tariffs and time-variable network charges. Thanks to the FEMS App Time-Of-Use Tariff, the system is charged with power

from the grid when prices are especially low, controlled by Artificial Intelligence. You save money on the power bought and your consumers are still supplied optimally. In the future, your electric car can be charged directly from the grid when prices are cheapest. The AI will automatically determine the best times for buying power and will charge your car with it.



Benefit optimally from time-of-use tariffs and time-variable grid charges in accordance with Section 14a of the German Energy Industry Act (EnWG)

### Be smart and save money with time-variable network charges:

Many already harness the power of time-of-use tariffs on their Energy Journey — But now, with time-variable network charges, you can go even further. Add the time windows during which the grid charges are especially low to your FEMS. This data is used to determine the best times to charge your electric car or power your heat pump from the grid — fully automated!



## Home 6, 10 & 15

The smart residential energy storage



Become more independent from energy companies and high electricity prices: The FENECON Home 6, 10 & 15 is the battery storage system for your energy transition, suitable for single- and multi-family houses, adjustable to your requirements.

- Integrated PV connection of up to 22.5 kWp
- Emergency power capable

# 15

Power in kWh

# 8.4- 156.8

Capacity in kWh

## Home 20 & 30

The high-power residential energy storage



Become more independent from energy companies and high electricity prices: The FENECON Home 20 & 30 is the battery storage system for your energy transition, suitable for single- and multi-family houses, agricultural and small businesses.

- Integrated PV connection of up to 45 kWp
- Emergency power capable

# 30

Power in kWh

# 14- 168

Capacity in kWh

## Commercial 50

The versatile commercial energy storage system



Our new Commercial 50 offers autarky through a back-up mode and the option to integrate further energy sources, keeping your business running. Avoid blackouts, lower your energy costs and gain more independence.

- Integrate further energy sources
- Optional emergency power supply with back-up mode

# 50

Power in kWh

# 28- 210

Capacity in kWh

## Commercial 92

The efficient energy storage



The FENECON Commercial 92 combines the advantages of Home and Industrial systems in an innovative Commercial system. It offers maximum flexibility and combines the modularity of the FENECON Home with the high capacity and efficiency of our Industrial systems. It is installable indoors thanks to its sturdy and compact design, e. g. in basements.

- Thanks to the cluster function, several systems can be combined into one overall system
- Peak Shaving: avoid high electricity prices and prevent a costly infrastructure expansion

# 92-460

Power in kWh

# 84- 1,050

Capacity in kWh



# About

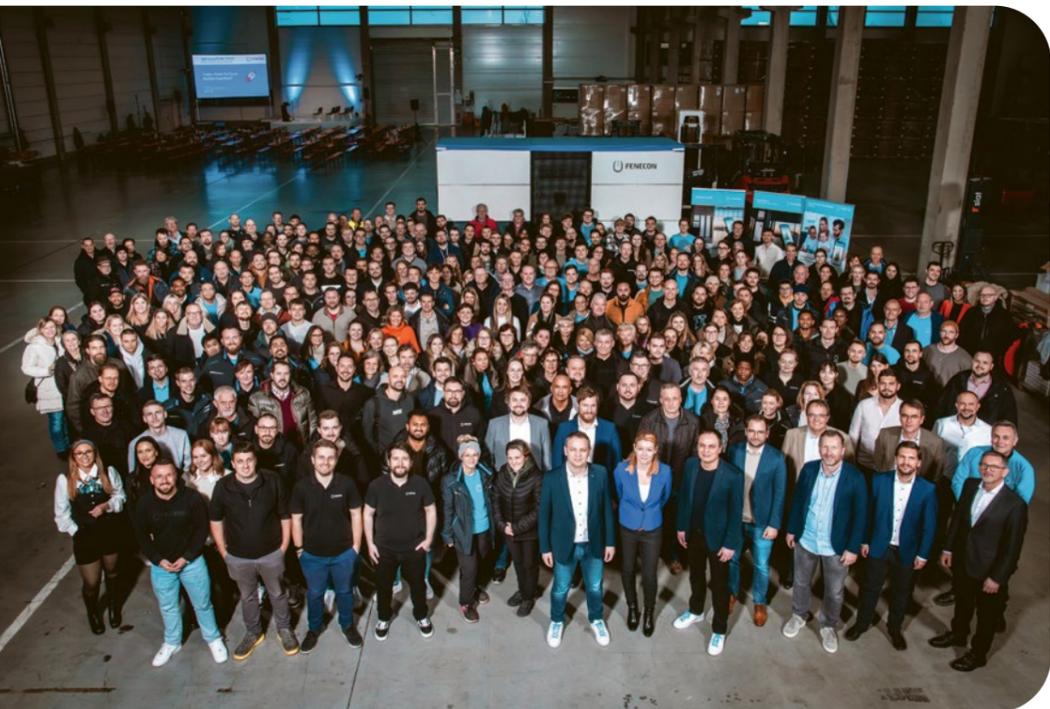
## the company

FENECON is the leading hardware and software specialist for energy storage solutions in the residential, commercial, and industrial sectors. All storage models feature the proprietary FEMS energy management system, with which FENECON has significantly influenced OpenEMS, the world's most successful open-source energy management system. The numerous FEMS applications in the product portfolio enable energy management that supports the grid and the energy transition, as well as intelligent sector coupling.

FENECON was founded by Franz-Josef Feilmeier and is a Bavarian family business with a high level of innovative strength. The team consists of experts in

the integration of electricity storage, e-mobility, and photovoltaics into a sustainable energy environment. It is highly regarded for its technical expertise, flexibility, speed, and reliability.

The expert in electricity storage and energy management is committed to a future with 100% renewable energies. The company is headquartered in Iggenbach, with additional locations nearby in Deggendorf and Albersdorf (Vilshofen a. d. Donau) as well as in Greenville, South Carolina, in the US, where it also forms the interface between the remaining electric vehicle battery and the large-scale storage system.



> 375

employees

> 40,000

systems supplied

2

managed by 2 brothers

3

Business Units

140

million euros of revenue in 2024

2011

year of foundation

1

business location in the US

3

business locations in Germany

> 20

countries supplied

Our vision

# The 100 % Energy Transition

The future of energy is decentralized, renewable and intelligently managed — and it starts today! With FENECON systems, the FEMS energy management, and FEMS Apps we build the foundation for a flexible, independent and sustainable energy system.

Each Energy Journey is unique. Whether you are aiming to optimize your PV self-consumption, couple the sectors of mobility and heat, or integrate your system with the energy market — FENECON allows you to stay in control of your energy. No subscriptions, the freedom to choose manufacturers, and always ready for tomorrow's requirements.

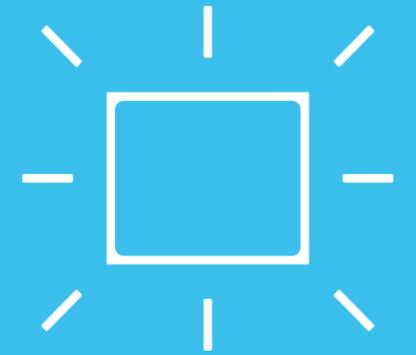
Let's master the energy transition together — Efficient, economical and future-proof.

**IT'S YOUR ENERGY JOURNEY!**

Every journey begins with a first step.  
Start your Energy Journey with us now!



To our Country Partners'  
contacts



OUR  
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FOR THE  
FUTURE

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