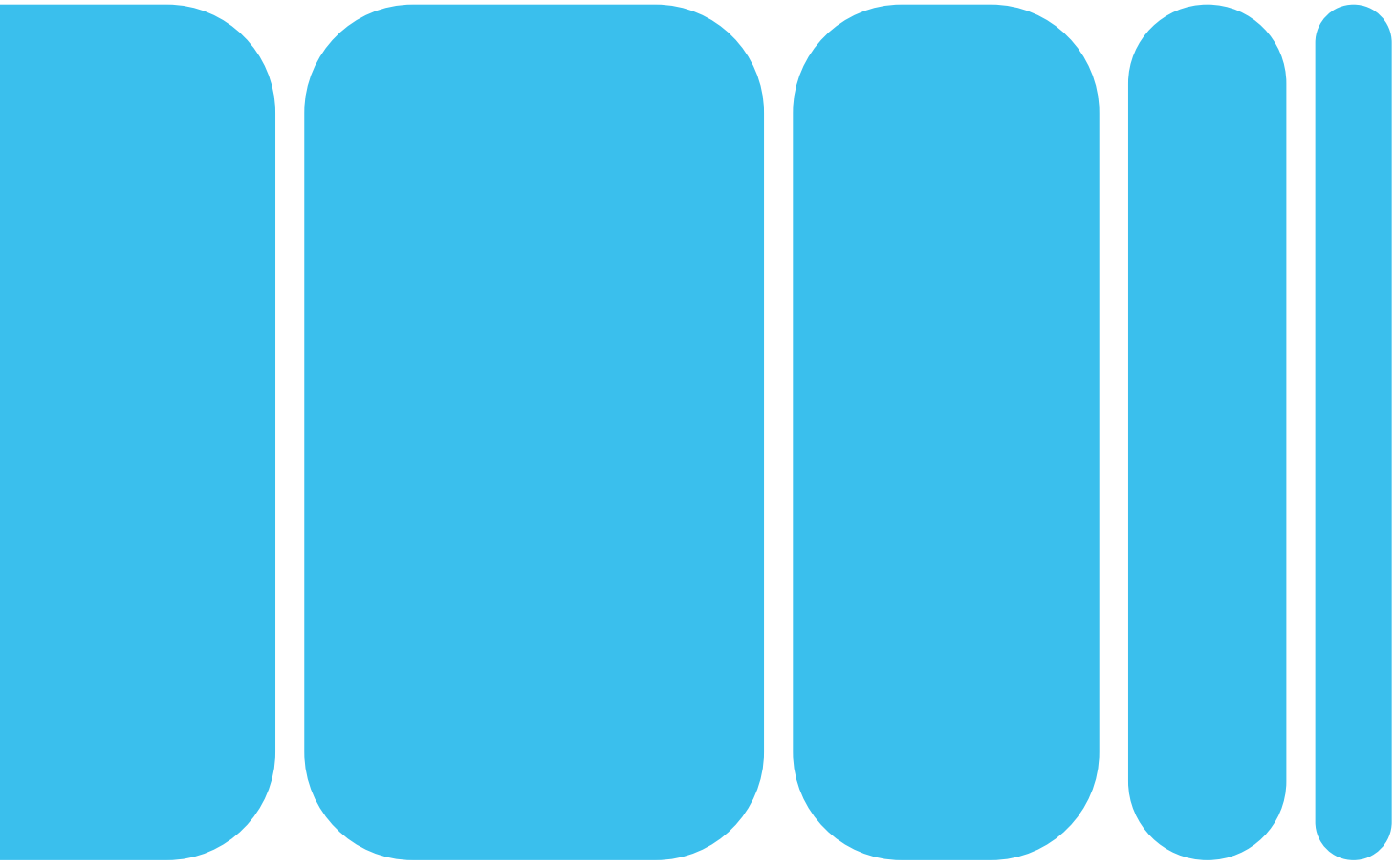
FENECON

IT'S YOUR ENERGY JOURNEY

Storage solutions
for home and
commercial



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!

The energy problem: a central task

OF OUR GEN ERATION

START YOUR ENERGY JOURNEY

Today

- Grid-optimized charging
- Cyber security & data protection

Tomorrow

- Capacity expansion
- Electricity-price optimized
- Heating element
- Time-variable grid charges

The day after

- AI assistant for your Energy Journey
- After German Renewable Energy Sources Act (EEG)
- Time-delayed feed-in

Energy Storage with FEMS

- Inhouse service & support
- FEMS apps extension
- Power output expansion

Heating & Air conditioning

- Heat pump
- Electricity-price optimized
- Air conditioning
- Optimization across sectors

E-Mobility

- Solar-power optimized
- Provider-independent
- BEV charging park

Production & Feed-in management

- Avoidance of curtailment
- Energy trading
- PV extension

Grid utilization management

- Dimmable in accordance with §14a EnWG
- Time-of-Use Tarrifs
- Backup power
- Provider-independent

THE START OF A JOURNEY

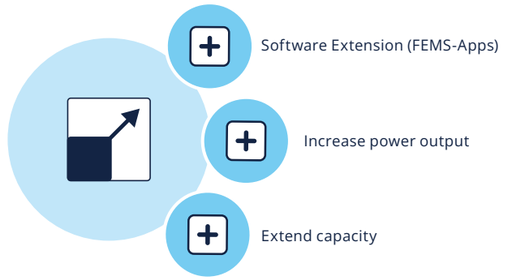
A seamless journey powered by a system that grows with your needs

The first step: Store and manage electricity intelligently with your FEMS

Your Energy Journey is constantly evolving. That's why it is essential that your battery system and energy management can grow with your needs.

The FENECON Energy Management System (FEMS) anticipates future needs and adapts flexibly to your growing requirements.

Upgradable systems to meet increasing requirements



Quality – Made in Germany

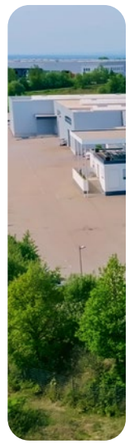
With FENECON, you choose innovative energy storage solutions with strong regional roots. Today, our Industrial systems, as well as key components such as the intelligent FEMS Box, are manufactured in Germany.

We are continuously expanding this approach: From 2027 onwards, our Home and Commercial systems will also be produced entirely in Bavaria. We firmly believe that even in a globalized world, technological manufacturing, innovation, and industrial production can be done in Germany. Our goal is to strengthen regional structures, enable short distances for customers and partners, and create a sustainable local value chain.

Cyber Security by Design – Since 2011

Data security and data protection are not optional at FENECON. They have been an integral part of all our storage solutions since 2011.The software is developed completely in Germany, and the entire server infrastructure is also located in Germany.

The system architecture follows a clear security principle: inverters and other components are not directly connected to the internet. Instead, all communication is handled exclusively via the FEMS Box, which acts as a controlled and secured interface to FENECON servers.



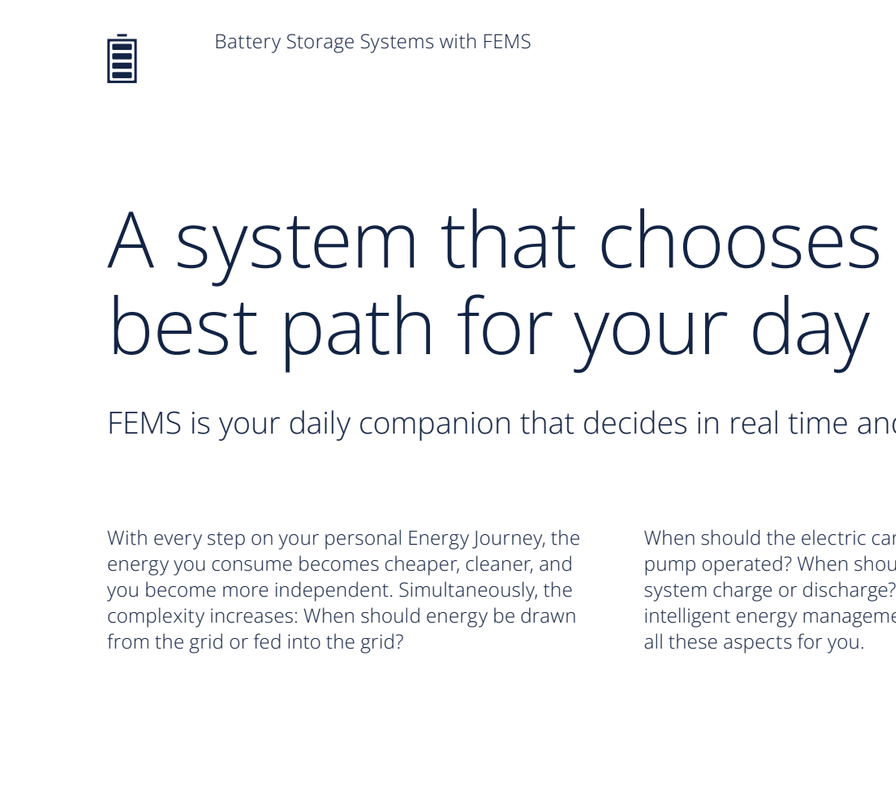
A system that chooses the best path for your day

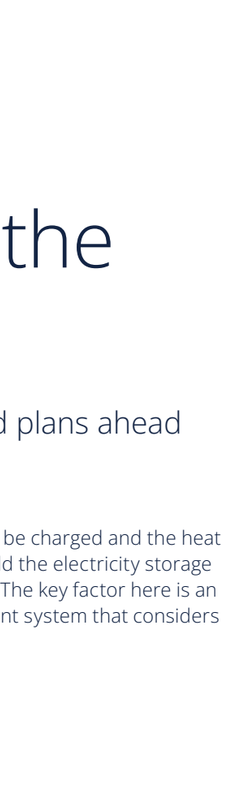
FEMS is your daily companion that decides in real time and plans ahead

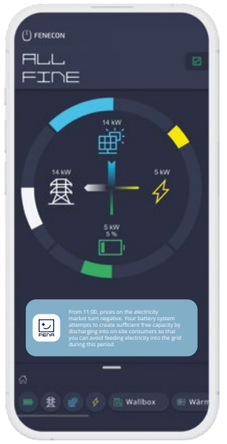
With every step on your personal Energy Journey, the energy you consume becomes cheaper, cleaner, and you become more independent. Simultaneously, the complexity increases: When should energy be drawn from the grid or fed into the grid?

When should the electric car be charged and the heat pump operated? When should the electricity storage system charge or discharge? The key factor here is an intelligent energy management system that considers all these aspects for you.

We lay the foundation for a flexible, independent, and sustainable energy system with FENECON energy storage systems, our in-house developed FEMS (FENECON Energy Management System), and a wide range of FEMS apps. Every Energy Journey is unique. Whether it's Self-Consumption Optimization with photovoltaics, sector coupling with e-mobility and heating, or participation in electricity markets, FENECON puts you in control of your energy. Our systems require no subscription, are designed for compatibility with other manufacturers, and are built to meet the demands of tomorrow.







Essential

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.

Intelligent

FEMS optimally utilizes the energy you have generated. The AI-based forecast creates a holistic, customized energy roadmap in real time that takes into account weather data, consumption profiles, electricity prices, and grid conditions.

More info about FEMS

Test it yourself with our demo access

FENA – Your Personal Energy Assistant

The FENECON Assistant (FENA) is included with every battery system and supports you throughout your Energy Journey. FENA keeps you informed with regular updates on your individual Energy Plan and provides you with a comprehensive annual energy review.

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 your personal Energy Journey. The integration of heating elements, heat pumps and air conditioning systems not only allows you to significantly optimize self-consumption, but also to reduce costs.

The right solution for today and tomorrow:

Our heating solutions are modular by design and grow with your requirements. Start with a new heating element today and easily add a heat pump later on. You can choose from a wide range of compatible manufacturers, giving you maximum flexibility.

Designed for compatibility:

We continuously collaborate with various manufacturers in order to integrate further systems. In addition, FEMS can integrate all heat pumps bearing the “SG-Ready” label.

ASKOMA MYPV Empowering the Solar Future and many more

Saving heating costs made easy

Heating components such as heat pumps, air conditioning systems and heating elements are also taken into account by FEMS in the Energy Plan:

Heating at the best possible price

FEMS automatically schedules the operation of the heat pump or heating element in a cost-optimized way. This can either be done using PV surplus only or in combination with low-cost electricity from the grid at optimal times. Factors such as negative electricity prices, grid constraints, as well as consumption and generation forecasts are taken into account.

Smart Events

Need hot water at a specific time? FEMS allows you to create Smart Events, just like calendar entries. Heating is automatically scheduled within your Energy Plan, so hot water is ready when you need it.

FULL WATT AHEAD

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

The perfect combination:
E-Mobility & Battery 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.

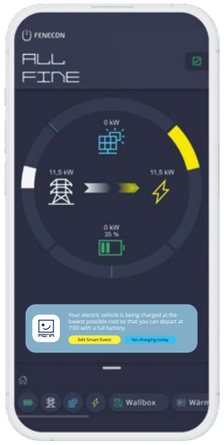
Good for today, good for tomorrow

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.

KEBA Automation by innovation. · HARDY BARTH emobilität · MENNEKES MY POWER CONNECTION · go-e · and many more



Your road to intelligent e-mobility

Your charging stations are seamlessly integrated into the FEMS Energy Plan:

Always on the move at the best possible price

FEMS automatically optimizes the costs of charging your electric vehicle. This can either be done using PV surplus only or in combination with low-cost electricity from the grid at optimal times.
Factors such as negative electricity prices, grid constraints, as well as consumption and generation forecasts are considered.

Smart Events

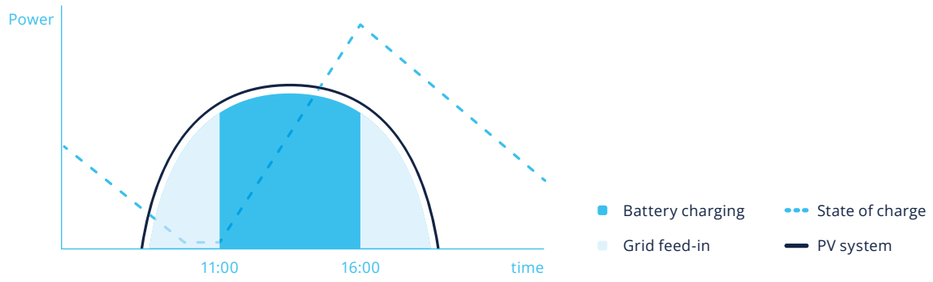
Need your electric vehicle fully charged in the morning? FEMS allows you to define Smart Events, just like entries in a calendar. Charging will be scheduled accordingly within the Energy Plan, so your vehicle is ready when you need it.

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. Challenges primarily arise in summer when PV systems are curtailed by grid operators and feed-in tariffs are no longer available, typically around midday. Thanks to the intelligent Energy Plan, FEMS will handle it with ease.

Grid-optimized charging as a standard feature at FENECON



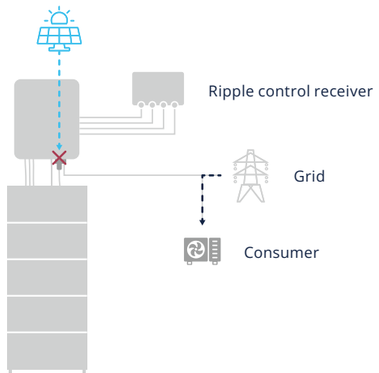
negative electricity prices -> incurs costs

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 – often without any feed-in tariff, especially when electricity prices are negative. In contrast, a FENECON system works grid-optimized.

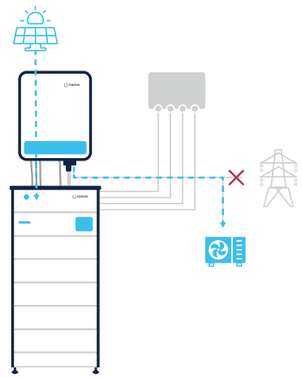
The intelligent Energy Plan will slowly charge the battery, so there is still capacity left at midday. Your PV plant continues to produce at full power to charge the battery, storing the available PV energy instead of feeding it into the grid during periods without feed-in tariffs.

How our innovative system control avoids curtailment by the grid operator

Standard system



FENECON system



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.

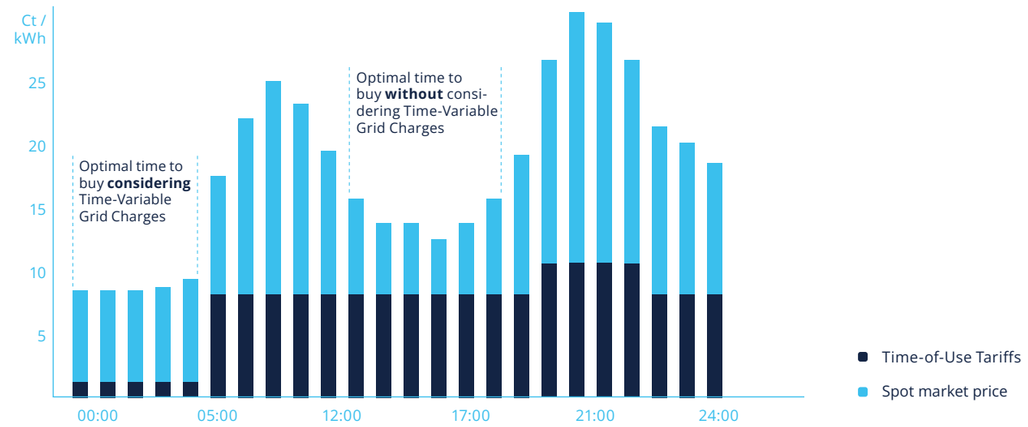
Unlike other systems, FENECON systems are curtailed at the grid connection point. Despite the feed-in limitation imposed, your consumers are still supplied from your PV surplus energy.

SMARTER SAVINGS IN WINTER

Make the most of Time-of-Use Tariffs and Time-Variable Grid Charges in winter

During the winter months or when PV production is low, it is particularly important to ensure smart electricity utilization and distribution. Self-consumption is prioritized here as well. It is supported by an intelligent strategy for purchasing the remaining power from the grid, taking Time-of-Use Tariffs and Time-Variable Grid Charges into account.

The Energy Plan, for example, uses weather and consumption forecasts to anticipate when PV generation will not be sufficient to supply all consumers.
In such cases, FEMS ensures that the battery system is charged from the grid at the the lowest price.
(see chart below).



Benefit optimally from Time-of-Use Tariffs and Time-Variable Grid Charges.

Be smart and save money with Time-Variable Grid Charges:

Many already take advantage of Time-of-Use Tariffs on their Energy Journey – But now, with Time-Variable Grid Charges, you can go even further. Add the time windows during which the grid charges are especially low to your FEMS. This data is then used to automatically determine the best times to charge your electric vehicle or operate your heat pump from the grid.

HOME 6, 10 & 15

15
Max. power in kW

8.4 - 156.8
Capacity in kWh

22.5
Max. PV power in kWp

HOME 20 & 30

30
Max. power in kW

14 - 168
Capacity in kWh

45
Max. PV power in kWp

COMMERCIAL 50

50
Max. power in kW

28 - 210
Capacity in kWh

75
Max. PV power in kWp

COMMERCIAL 92

92 - 460
Max. power in kW

84 - 1,050
Capacity in kWh

External inverters
Max. PV power in kWp

COMMERCIAL 100

100
Max. power in kW

39.2 - 420
Capacity in kWh

200
Max. PV power in kWp

FURTHER KEY FACTS

AI-optimized Energy Plan	✓	✓	✓	✓	✓
Backup power	✓	✓	with optional STS Box		with optional STS Box
Integration of generators			✓		✓

APPLICATIONS

Self-Consumption Optimization	✓	✓	✓	✓	✓
Integration of charging infrastructure	✓	✓	✓	✓	✓
Heat pump & hot water integration	✓	✓	✓	✓	✓
Time-of-Use Tariff & Time-Variable Grid Charges	✓	✓	✓	✓	✓
Peak Shaving			✓	✓	✓
Energy Trading	Coming soon	Coming soon	Coming soon	Coming soon	Coming soon

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 Iggensbach, 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.

>380
employees

>40,000
systems delivered

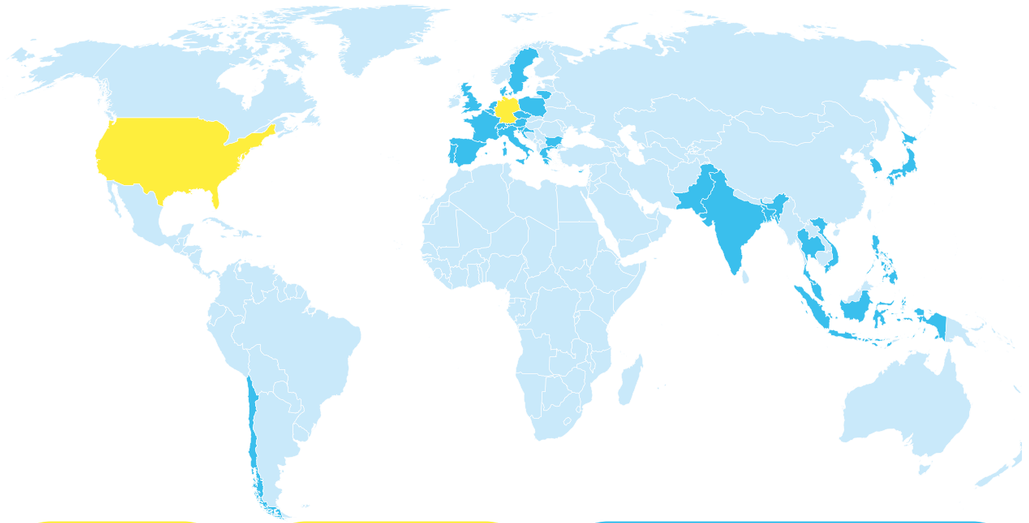
2
managed by 2 brothers

3
Business Units

130
million euros of revenue in 2025

2011
year of foundation

team



1
business location in the US

3
business locations in Germany

>20
countries supplied, including 5 Country Partners

The 100 % Energy Transition

The future of energy is decentralized, renewable, and intelligently managed – and it starts today! We lay the foundation for a flexible, independent, and sustainable energy system with FENECON systems, our FEMS energy management system, and a wide range of FEMS apps.

Every Energy Journey is unique. Whether you aim to optimize your Self-Consumption Optimization with photovoltaics, enable sector coupling across mobility and heating, or integrate your system into electricity markets – FENECON gives you full control of your energy. No subscriptions, maximum freedom in choosing compatible manufacturers, and solutions designed to meet the demands of tomorrow.

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 VISION FOR THE FUTURE

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