

# HIS

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## HISENERGY

■ empowering tomorrow smartly

### Connecting Energy. Empowering the Future.

We make energy simple, secure, and sustainable.  
Innovative storage solutions, intelligent energy management,  
and charging infrastructure – all from a single source.



Your partner for the future of energy.

With over 25 years of experience and an international team, HISEnergy is your companion on the road to a sustainable energy future. We understand our customers' challenges and offer solutions that stand the test of time.

Whether energy storage, intelligent management, or charging infrastructure – we deliver not only technology, but also holistic concepts. This results in systems that are perfectly coordinated and secure your investments.



## Why HIS?

We offer more than just technology: we build trust and support our customers as partners. Our mission is to actively shape the energy transition and create solutions that are future-oriented.

Our values – **innovation, reliability, and responsibility** – are at the core of everything we do. You can rely on this in every project.

## European solutions for European markets

**Compliant with regulations. Quick to install. Safe to operate.**

HISEnergy storage solutions (BESS) are carefully tailored to the specific requirements of commercial and industrial applications across Europe. We offer a comprehensive, turnkey solution that is intelligent and secure, simplifying the installation and commissioning process to simple Plug & Play operation, reducing effort and time by up to 90% compared to conventional BESS systems.

### Complete turnkey BESS solutions:

Our BESS solutions are specifically designed for C&I applications in Europe – turnkey, intelligent, and secure. Thanks to Plug & Play, we reduce effort and commissioning time by up to 90% compared to conventional systems.

### Pre-assembled & factory-tested:

Battery modules (LFP), EMS, inverters, and switchgear come ready for integration – compliance with European grid and safety standards is taken into account right from the start. Battery modules (UN3480) as well as inverters and EMS are pre-installed in IP55 outdoor cabinets, which significantly simplifies transport and installation.

### Multi-level safety:

A BMS at cell, module, and cabinet level monitors temperature, voltage, current, and environmental conditions (humidity, CO, H<sub>2</sub>), among other things.

An independent, active fire protection system further increases operational safety. Grid protection functions such as anti-islanding and NA protection are integrated.

### Your advantages at a glance

- › **Plug & Play** instead of a project marathon – up to 90% faster installation and commissioning
- › **EU-compliant:** Grid and safety standards taken into account ex works
- › **IP55 housing** for outdoor use, UN3480-certified modules
- › **Multi-level BMS**, comprehensive sensor technology & active fire protection
- › **Fewer interfaces**, less risk – faster project implementation

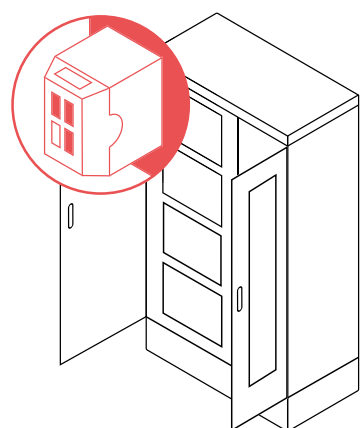
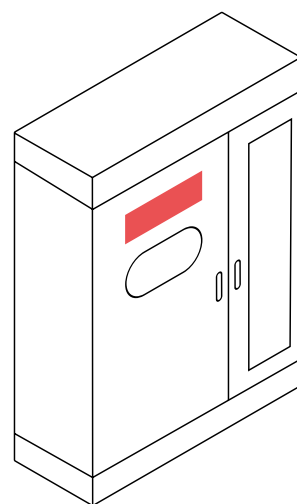
## Our solutions at a glance

Our portfolio includes all the key components for a successful energy transition – from storage and intelligent control to safe use. All systems are modular, scalable, and perfectly coordinated.

This gives you a complete system from a single source – efficient, reliable, and future-proof.

### HISbatt battery storage

- ⊕ from 126 kWh to 4.4 MWh
- ⊕ Modular, scalable, and flexible
- ⊕ Island and blackout solutions
- ⊕ Tailored consulting

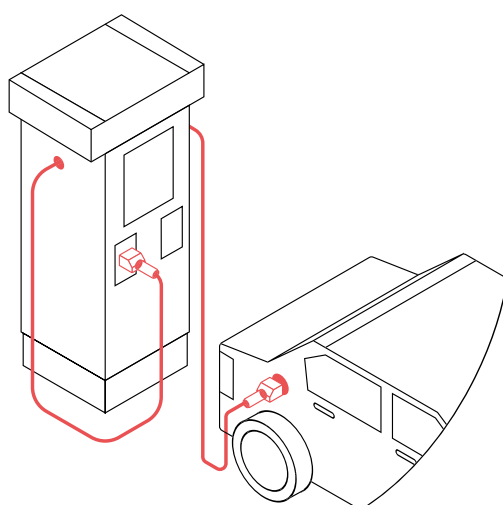


### HISems energy management system

- ⊕ Complex EMS solutions
- ⊕ Controls and optimizes your energy system
- ⊕ Effective service through transparent EMS

### EVtap charging solutions

- ⊕ Complete charging solutions: AC and DC for all requirements
- ⊕ Intelligent load management
- ⊕ Future-proof technologies
- ⊕ Customized concepts



## Your advantages with HISEnergy Our unique selling points at a glance – clear, tangible, and practical

### 01

#### Turnkey complete solutions

**End-to-end from 400 V to 36 kV:** battery storage, inverters, and EMS combined with MV transformers, switchgear, and customer-specific LV control cabinets.

**Everything from a single source** – including service, operation, and warranty processing through a single point of contact.

### 02

#### Advanced energy management

**AI-supported HISems** controls your energy flows in real time and enables complete remote monitoring and maintenance.

**Access via app and web,** secure data storage in Germany, and comprehensive analysis functions make your energy system transparent and efficient.

### 03

#### Intelligent EV charging solutions

With **EVtap**, we offer charging infrastructure ranging from AC wall boxes to DC fast chargers with 420 kW.

**Features** such as V2G, Plug & Charge, and dynamic load management ensure maximum flexibility. Seamlessly integrable with storage and EMS.

### 04

#### Modular battery storage

**HISbatt** offers solutions from 126 kWh to 100 MWh – from C&I to utility scale.

**Whether compact 233 kWh cabinets or 4.4 MWh containers:** our systems are flexibly expandable and use high-quality CATL batteries for durability and reliability.

### 05

#### Complete energy ecosystem

From cables and combiner boxes to storage, inverters, EMS, and MV stations:

we supply **all components from a single source** – for seamless project execution without interface risks.

### 06

#### Warranty & Support

**Flexible warranty and service packages** that adapt to your project requirements. One-window processing for all components and comprehensive O&M services ensure uptime. Training for installers and partners rounds off our service offering.

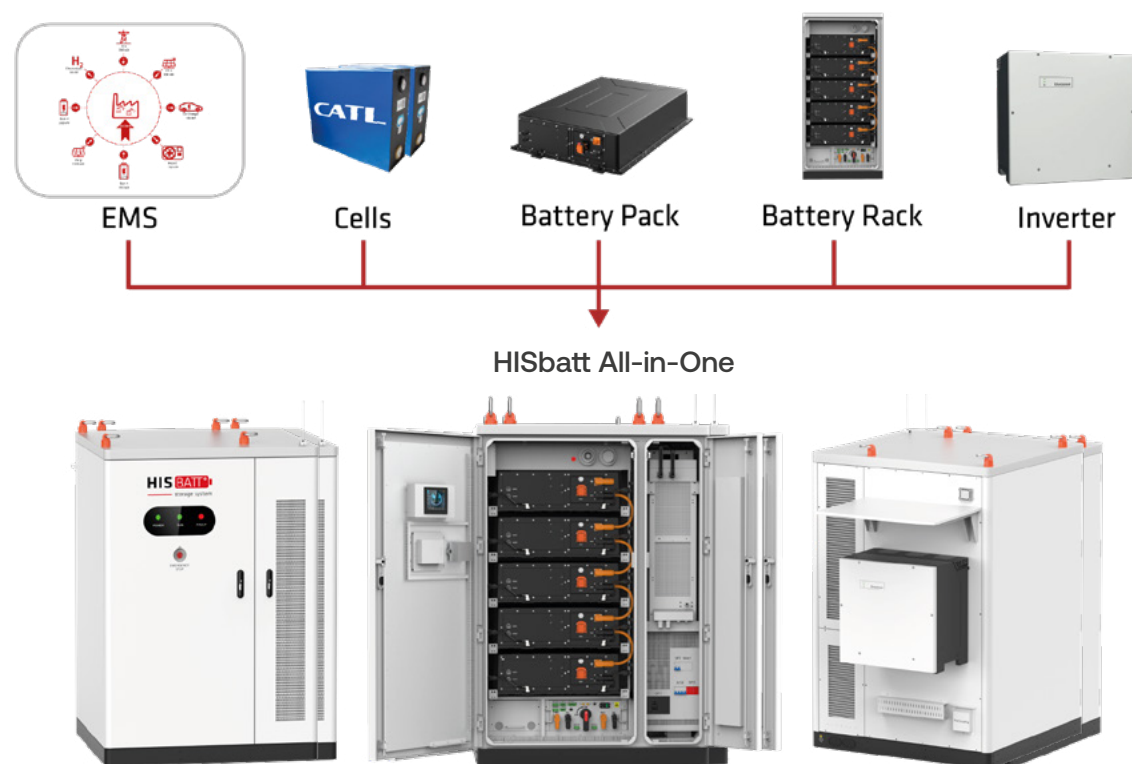


HISbatt All-in-One battery storage systems have been developed to make installation and operation as easy as possible. Thanks to the integrated SiC-based inverter and intelligent energy management system (HISems), you benefit from maximum efficiency and a fast return on investment. Our systems are standardized, modular and expandable (up to 10 MWh), and suitable for both indoor and outdoor use (IP55).

### Your advantages at a glance:

- › **Plug & Play** – forklift and crane compatible, ready for operation in just a few hours
- › **All-in-One** – inverter, EMS, and battery system perfectly integrated
- › **Scalable** – modularly expandable for projects up to 10 MWh
- › **Safe** – CATL LFP cells with 3-stage BMS for maximum safety and service life
- › **Intelligent** – AI-supported energy management, remote monitoring, and maintenance included

“With HISbatt, you can focus on your business – we’ll take care of your energy.”



## HISbatt storage portfolio

### Tailor-made solutions for every application

With HISbatt, you get battery storage solutions that are tailored precisely to your requirements – whether for industrial, commercial, utility, or off-grid applications. Our systems are durable, robust, and designed for demanding outdoor use down to -10 °C. You benefit from individual configuration, optional off-grid operation, and service that goes far beyond delivery.



**HISbatt 126A**  
92 kW  
126 kWh  
400 V

**HISbatt 233L**  
92 kW / 184 kW  
233 kWh  
400 V

**HISbatt 325L**  
137 kW / 274 kW  
325 kWh  
600 V



**HISbatt L20**  
up to 4.4 MWh liquid-cooled container.  
Can be combined with a central inverter.

### Our strengths at a glance

01

#### Comprehensive energy consulting

We analyze your initial situation, evaluate potential, and develop a solution that precisely meets your needs.

02

#### Professional planning & implementation

We take care of the entire coordination process, from project planning to commissioning. We use only high-quality components and ensure precise installation.

03

#### Maximizing your Return on Investment (ROI)

With innovative technologies, we increase the efficiency of your system, reduce operating costs, and ensure long-term profitability.

04

#### Partnership for the future

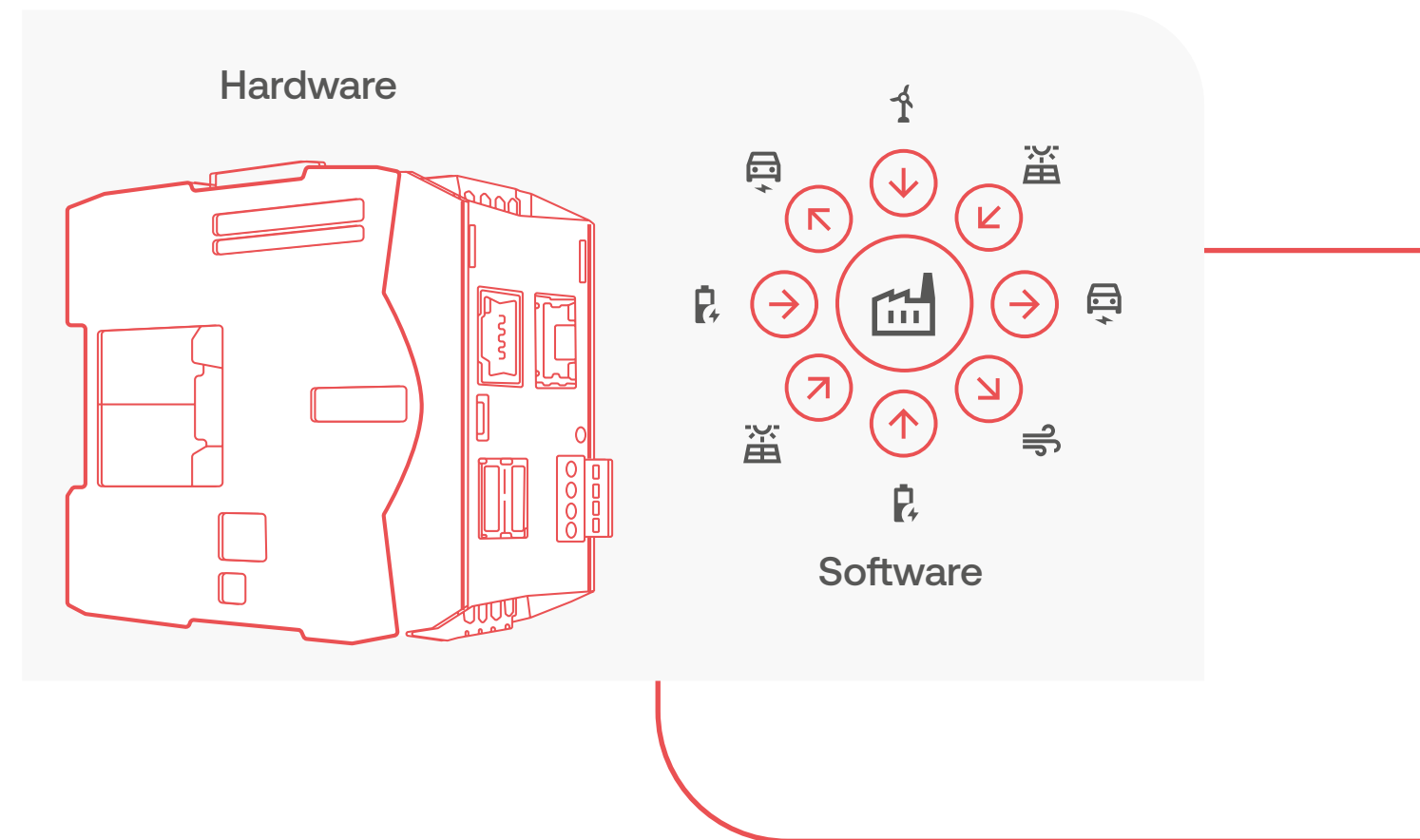
We provide ongoing support with comprehensive operation & maintenance (O&M), continuous development, and training for your employees.

## HiSems – Intelligence for your energy system

### Control. Optimize. Benefit.

HiSems is at the heart of our energy storage solutions. The system consists of the HiSenergy Manager (hardware) and the HiS Flow Portal (software & HMI). Together, they provide full transparency over your energy flows – from generation and storage to consumption.

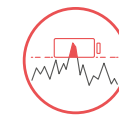
HiSems gives operators real-time insights into the performance of their system, allowing them to customize parameters and select applications flexibly. AI-supported forecasting and optimization functions ensure that you not only monitor your energy system, but also actively operate it more economically and efficiently.



## Your advantages at a glance:

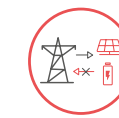
- › **Full control:** Easily control, adjust, and optimize BESS systems
- › **Precise measurement:** Record and process critical parameters every second
- › **Transparency:** gain insights into performance and utilization at any time
- › **Intelligent analysis:** export, understand, and use data to make better decisions
- › **Future-proof:** AI-based forecasts for greater efficiency and Return on Investment (ROI)
- › **With HiSems, you can turn data into real added value** – and make your energy system fit for the future.

## Applications and usage scenarios



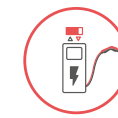
### Peak load capping

With reliable battery storage, you can avoid peak loads in your commercial or industrial operations.



### Semi-off-grid & zero feed-in

Increase the generation capacity of your sustainable energy project without overloading the grid or feeding energy back into it.



### E-mobility

By integrating smart energy storage solutions, you can maximize revenue from your EV charging infrastructure.



### Backup power supply

Ensure uninterrupted power supply to your critical, sensitive consumers with our robust BESS solutions.



### Green hydrogen

Smart battery storage solutions for green hydrogen production through carbon-free electrolysis using renewable energies.



### Multi-use

Maximize your return on investment by combining multiple applications, e.g., PV self-consumption, peak shaving, and forecast-based charging.



### E-trucks & e-fleets

HiSenergy is bringing e-trucks & e-fleets into an efficient, environmentally friendly future with reliable, smooth charging, even in areas with limited grid connection.



### Virtual power plants (VPP)

HiSenergy's solutions enable access to virtual power plants (VPP), creating an additional source of income for our customers.



### Direct marketing interface

Say goodbye to feed-in tariffs and welcome direct marketing on the electricity exchange, which provides you with lucrative sources of income.



### Load and source control

Implement customized strategies for energy management systems (HiSems) through intelligent control of numerous loads and energy sources.



### Front of the meter

Provision of grid services, such as frequency stabilization and reactive power provision to improve grid stability and generate revenue.



### Time-of-Use

Use our intelligent, state-of-the-art EMS to optimize your energy consumption. Charge at times when consumption is low.



### Optimization of self-consumption

Increase your PV self-consumption and reduce your dependence on the expensive grid by storing excess energy from your solar panels.



### Microgrid

You can absorb surplus renewable energy, ensure a steady and clean power supply, and increase grid stability to enable reliable power supply in remote and off-grid regions.



### Predictive battery charging

Smart battery charging predicts PV output to optimize the charging process, maximize the use of renewable energy, and extend battery life.



A person wearing a yellow sweater and dark jeans is plugging a green charging cable into a white electric car. The scene is set outdoors at sunset, with a body of water and trees in the background. A semi-transparent pink rectangle is overlaid on the right side of the image, containing the text.

Your energy.  
Our mission.

[www.his-renewables.com](http://www.his-renewables.com)



## EVtap charging infrastructure

### E-mobility made easy.

## AC charging solutions

### EVtap Smart Wallbox 11/22 kW

Standard electricity meter and app



#### Options:

- › MID meter
- › Bidirectional V2G & V2H
- › Plug & Charge

### EVtap DuoCharge Pro 2 x 22 kW

MID Meter OCPP 2.0. → Plug & Charge



#### Options:

- › German Calibration Act
- › Measuring device
- › Payment terminal
- › Charging cable
- › Bidirectional V2G & V2H
- › Plug & Charge

## DC charging solutions

### EVtap DC SuperCharge 60-240 kW



### EVtap DC UltraCharge 240-420 kW



## EVtap – Fast, smart, reliable

### The flexible DC fast charging solution for operators and fleets.

With EVtap, you can enjoy safe and smart fast charging for electric vehicles – reliable, user-friendly, and powered by green energy.

Our DC fast chargers are compatible with all common PV systems and vehicles on the European market. Whether for logistics companies, supermarkets, or industrial parks, EVtap ensures maximum availability and customer satisfaction.



### Your advantages at a glance

- › **Simultaneous charging** of up to 2 vehicles or e-buses (Dual CCS-2)
- › Power **up to 240 kW**, easy installation
- › **Plug & Charge** (ISO 15118-2)
- › **100% solar power capable**, with PV optimization and dynamic load management
- › **Integration into HISbatt storage solutions** for small grid connections
- › OCPP 1.6 & 2.0.1 for **easy backend connection**
- › **Secure access** via RFID, app, or payment terminal

### Smart technology for everyday use

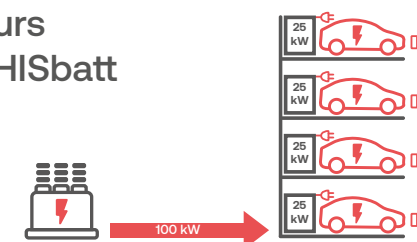
EVtap is robustly built and designed for European weather conditions ranging from extreme cold to intense heat.

An 8-inch LCD touchscreen shows the charging progress in real time, while integrated protection and communication functions ensure safe and convenient operation.

### Technical highlights:

- › Built-in RCD protection switch
- › MID-compliant measurement
- › Integrated 4G modem
- › Robust metal frame
- › RFID-capable

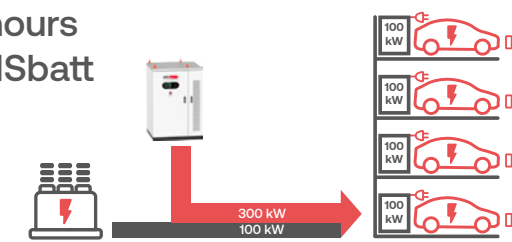
### Rush hours without HISbatt



**Without storage:** Fast charging stations require powerful grid connections – which are expensive to install and often associated with high power charges.

Bottlenecks occur, especially at peak times, which affect charging speed and customer satisfaction.

### Rush hours with HISbatt



**With HISbatt:** In combination with our energy storage systems, operators can also use smaller grid connections while avoiding peak loads. This reduces fees, increases profitability, and allows your customers to benefit from consistently high charging power – even during peak hours. For logistics companies, the combination of EVtap, HISbatt, and PV self-consumption also offers the most cost-effective and sustainable charging for their e-fleets.

**With the EVtap Smart Wallbox, you can charge electric vehicles safely, efficiently, and sustainably – with 100% solar power if desired.**

The wallbox is compatible with all PV systems (regardless of manufacturer) and all common electric and hybrid vehicles in Europe. This makes it the perfect solution for both private households and commercial charging.

### Your advantages at a glance:

- › Charging with **100% solar power** possible
- › **Intelligent operation with PV optimization**, dynamic load management, and time-controlled charging
- › **V2H & V2G capable** (Vehicle-to-Home & Vehicle-to-Grid)
- › **Up to 22 kW** AC charging power
- › OCPP 1.6 & 2.0.1 interfaces for **remote monitoring & backend integration**
- › **Easy control via app** (Android & iOS)



### EVtap Connect – everything under control



EVtap  
Connect App

With the EVtap Connect app, you can keep track of everything – anytime, anywhere. Use your smartphone or tablet to check charging progress and history, manage users, and export billing information.

### Features:

- › **Live overview:** charging time & energy consumption in real time
- › **Export billing reports** for tax purposes
- › Create & manage **user groups**
- › **Protection against unauthorized access** by simply switching on/off



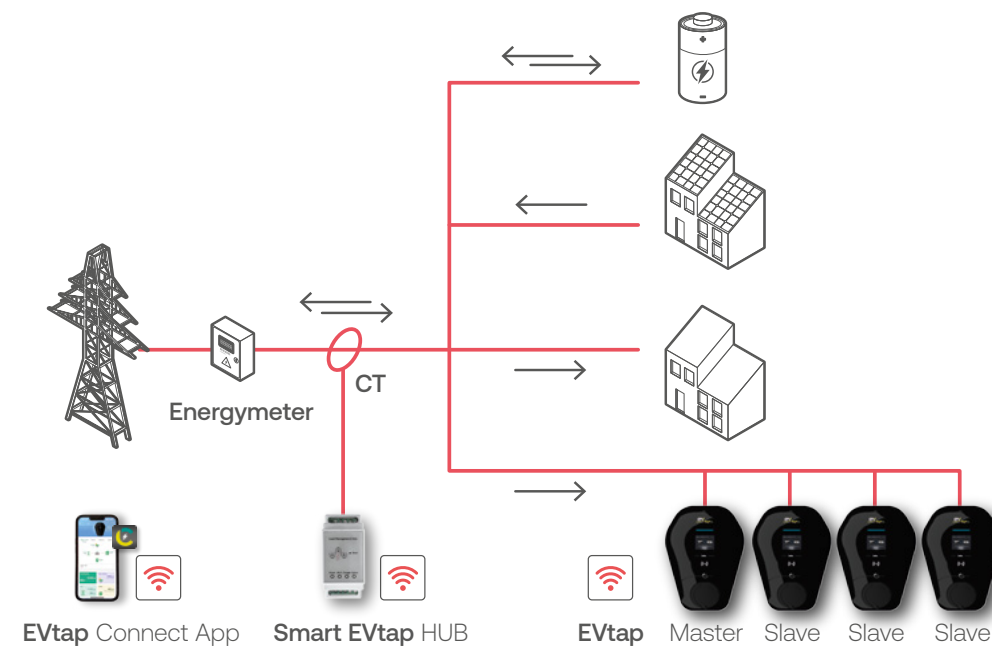
### Smart load management for businesses

In combination with the EVtap Load Management Hub, you can exploit the full potential of the Wallbox. Surplus PV power is distributed optimally, and dynamic load management enables the parallel operation of up to 252 Wallboxes.

This allows you to avoid peak loads, save investment costs for grid connections, and future-proof your fleet.

### Highlights for fleets & businesses:

- › **Dynamic distribution** of charging power
- › **Master-slave operation** for multiple charging points
- › **Remote monitoring** via OCPP or app





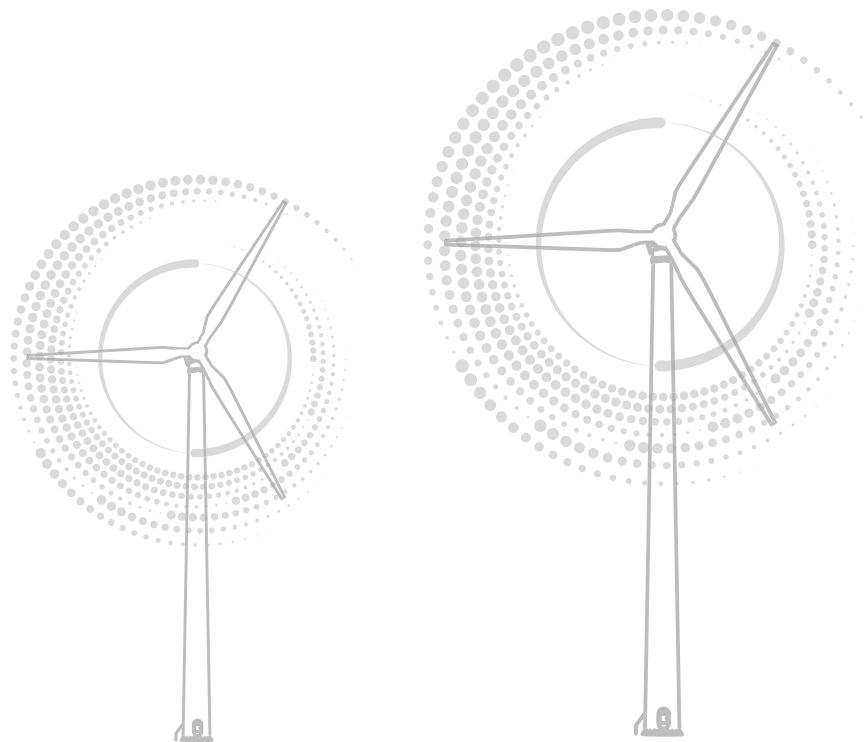
# Energy that moves.

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## The driving force behind your projects



HISenergy is one of Europe's leading providers of system solutions for the integration of renewable energies. For more than 25 years, we have been developing and manufacturing innovative Plug & Play solutions in Germany that enable rapid project implementation and minimize risks.

From photovoltaics and battery storage to intelligent energy management and charging infrastructure, we deliver comprehensive systems that secure your investments and reliably guide your projects into the future.

With HISenergy, you have a partner at your side that combines technology, experience, and passion. Together, we are shaping a sustainable, secure, and economical energy future.

## Our industry expertise:

### Industry & Commerce

Energy storage solutions for peak load management, optimization of self-consumption, and secure emergency power supply.

### Logistics & e-fleets

Fast charging and storage solutions for sustainable e-mobility, combined with PV integration and peak shaving.

### Real estate & industrial parks

Intelligent energy and charging infrastructure for modern buildings and neighborhood solutions – efficient, attractive, and future-proof.

### Retail & Supermarkets

Charging infrastructure for customers, coupled with storage for load management and energy cost reduction.

### Energy suppliers & municipal utilities

Scalable large-scale storage solutions and modular systems for grid serviceability, frequency stabilization, and integration of renewable energies.

### Agriculture & Renewable Projects

Storage and energy management for PV and wind farms to maximize self-consumption and make yields predictable.

# HISENERGY

■ empowering tomorrow smartly

**HISenergy – Your partner for smart energy supply**  
Storage. Charging. Management. Everything from a single source.

### HISbatt

#### Battery storage solutions

From 126 kWh to 100 MWh: modular, scalable, and tailored to your application.

### EVtap

#### Charging infrastructure

Wallboxes and fast charging stations up to 420 kW – safe, user-friendly, and PV-compatible.

### HISems

#### Energy management

Intelligent control and transparency across all energy flows – for maximum efficiency.

### Plug & Play Installation

Fast, simple, and flexible – our systems are ready for use within a few hours.

### Service & Partnership

From consulting and planning to operation and maintenance – everything from a single source, with over 25 years of experience.

**HISenergy – Europe's leading system provider**  
Experience, expertise, and innovation –  
your partner for the energy transition.

40+  
GW

of components delivered  
worldwide

6  
locations

in Europe:  
2 production facilities,  
4 national subsidiaries

2,000  
customers

in 60 countries  
trust our solutions

400  
employees

in development,  
manufacturing, and sales

25  
years

of experience in the PV  
and energy sector

3x  
certified

UL, ISO 9001, ISO 14001