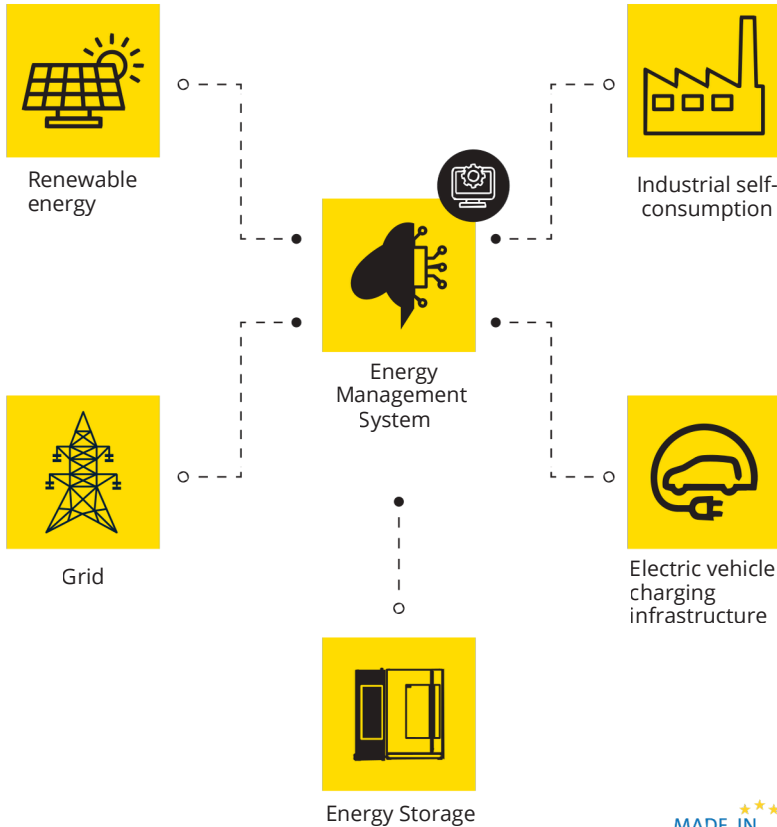# BHive®

Microgrid EMS Management

Optimize and manage your energy with utmost precision and efficiency

Guarantee the return on investment, optimizing the operation of every asset

Renewable energy

Industrial self-consumption

Energy Management System

Grid

Electric vehicle charging infrastructure

Energy Storage

MADE IN EUROPE

+50
supervised facilities

+2 GWh
efficiently managed energy

+99 %
availability

INTEROPERABILITY WITH MULTI BRAND EQUIPMENT

REMOTE MANAGEMENT WITH 24/7 MONITORING

CERTIFIED CYBERSECURITY AND ROBUST NETWORK MANAGEMENT

SCALABLE AND ADAPTABLE TO ANY TYPE OF INSTALLATION

AUTONOMOUS OPTIMIZATION BASED ON PRICING AND FORECASTING

API ACCESS AND INTEGRATION WITH EXTERNAL SYSTEMS
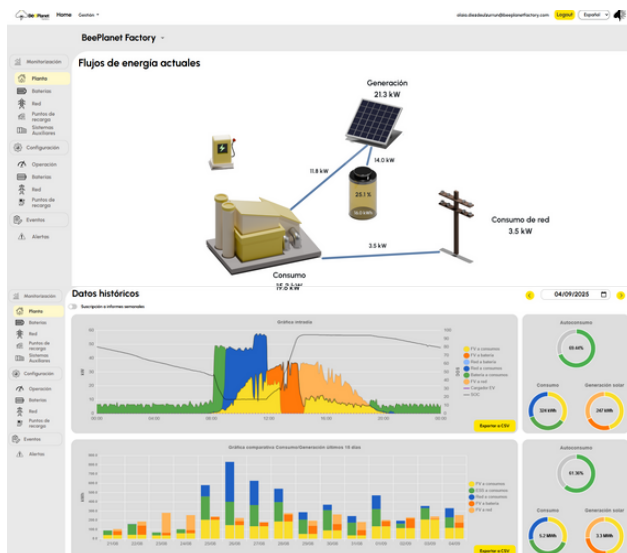
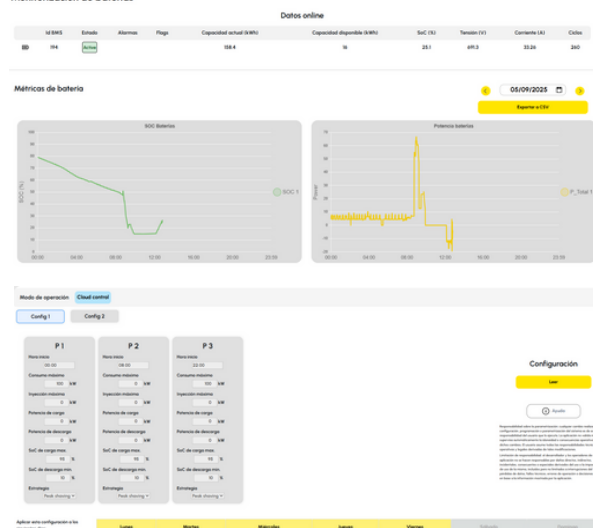**IN-HOUSE TECHNICAL SUPPORT AND CERTIFIED HARDWARE**

BeePlanet factory

SUSTAINABLE STORAGE
—
Automotive Battery Power

WEB PLATFORM

SMART ANALYSIS AND MONITORING

- Energy data analysis with **proprietary algorithms**
- **Real-time** access and **remote maintenance**
- Automatic **alerts** and predictive anomaly detection
- **Centralized**, intuitive, multi-user web interface

FLEXIBLE AND CONNECTED

- **Dynamic p**ower management based on demand and generation
- **Compatible** with inverters, chargers, meters, and PV systems
- **Active integrations** with multiple brands and devices

ADVANCED OPTIMIZATION WITH AI

- Optimization of energy **resources**, demand **flexibility**, and grid services **participation** powered by AI (integrated with Bamboo Energy)

ACTIVE DEVELOPMENT

- Continuously **evolving** platform
- **Automatic** OTA updates

REGULATIONS AND CE MARKING

Class I, Zone 2, AEx nA IIC T4. Class I, Div. 2, Groups A, B, C, D. Ex nA IIC Gc T4	IE366272
Industrial IT Security, IACS Component	IITS2 029429 0027
cULus	E238705
Cibersecurity	IEC 62351-3, IEC 62443-42 SL2, IEC 61850
Certificado de anti-dumping	RD 244/2019, UNE 217001:2020

GENERAL SPECIFICATIONS

Supply Voltage	24 V DC
Power Consumption	1 A
Protection Index	IP20
Communication Protocol	ModBus TCP o RTU, OPC-UA, MQTT, REST API, FTP y VPN
Functionality	Monitoring and configuration management (HMI)