BHive®

ENERGY MANAGEMENT SYSTEM
BeePlanet's in-house energy manager

ON-SITE CONTROL

BHive® runs your site in real time, with control kept inside the plant.

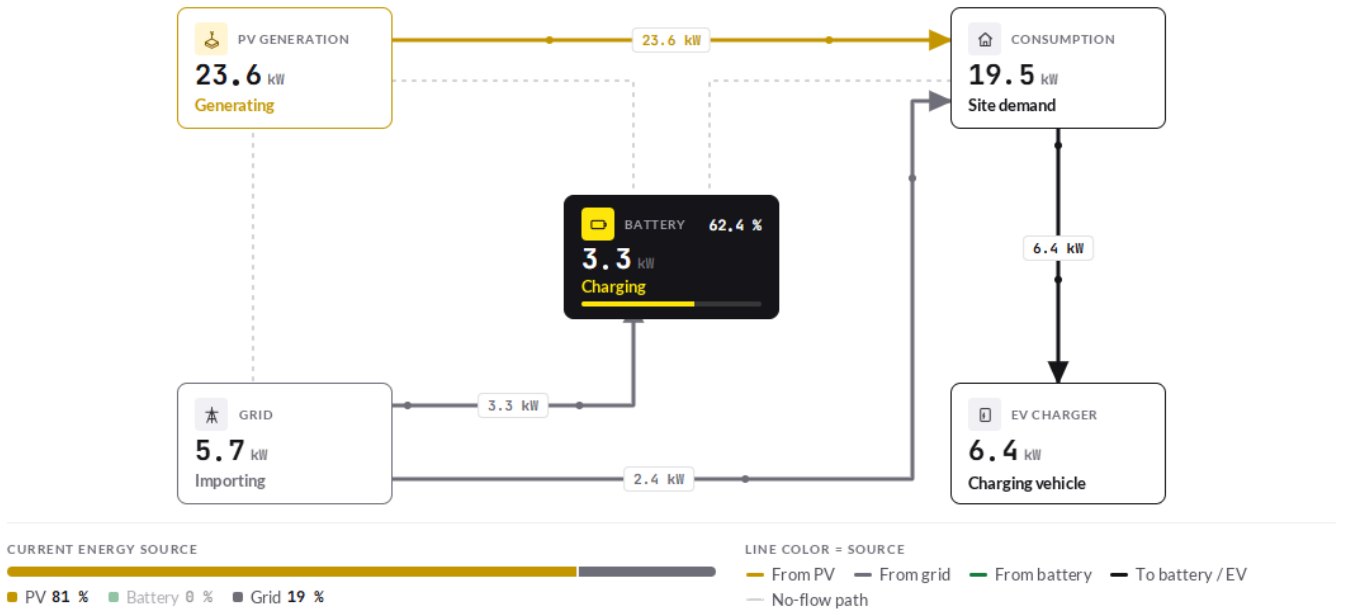
Batteries, PV, grid, loads and EV chargers managed from a **European industrial PLC** installed on site. Its algorithms draw on more than 6 years of operating real plants.

INSTALLATIONS

+95

PLANTS · OPERATIONAL

managed today with BHive®



Illustrative example

AVAILABILITY

>99 %

across all plants

WEB PLATFORM

24/7

with alerts

ORIGIN

EU

European hardware, EU-hosted data

01

Local on-site control

Runs autonomously on site, with no reliance on the cloud or an internet connection.

02

Remote visibility

Multi-user web platform with real-time data, alerts and control from any device.

03

Works with any brand

Compatible with inverters, batteries and chargers from the leading manufacturers, with no vendor lock-in.

EUROPEAN TECHNOLOGY

Hardware made in Europe and data hosted in the EU.

Hardware	Industrial PLC made in Europe, installed at your plant.
Software	BHive®, developed and maintained by BeePlanet in Spain.
Data	Hosted on EU servers, with 5 years of history.
Security	Encrypted communications. BeePlanet is ISO 27001 certified.

SUPPORT · OPERATION SERVICE

BeePlanet's engineering team monitors your plants every day so you don't have to.

Every plant, every day	Proactive monitoring.
We detect and act	If an anomaly occurs, the team steps in.
No black boxes	Every decision is documented and explained to the client.

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OPTIMIZER MODULE

Your battery works when it earns most and rests when it doesn't pay off.

An algorithmic engine drawing on more than 180 projects, fine-tuned for each installation.



Illustrative example

REAL CASE · SAME INSTALLATION

46%

savings with the BHive® Optimizer, vs. 21 % without it.

WITH OPTIMIZER — 46 %

WITHOUT OPTIMIZER — 21 %

	WHAT IT CONSIDERS	HOW IT DECIDES	SOURCE
01	**Forecasting**	Anticipates PV production and consumption from historical data.	PLANT HISTORY
02	**Prices**	Charges when energy is cheap and discharges when it is expensive.	OMIE · TARIFF
03	**Battery health**	Only cycles when the savings outweigh the degradation.	CYCLE COST
04	**Balancing services**	Extra revenue via a market representative (Operation service).	MARKETS

Custom-configured by BeePlanet, with forecasts the client can edit. Remote activation, no additional hardware.

Technical specifications

PLC on-site hardware
BHive® software and platform

PLC · HARDWARE

Manufacturing	Industrial PLC, made in Europe
Power supply	24 V DC · 650 mA
Protection	IP20
Cybersecurity	Certified hardware IEC 62443-4-2 SL2
Communications	IEC 61850 · IEC 62351-3
Certifications	CE (EMC, LVD) · cULus E238705 · ATEX Class I Zone 2

BHIVE® · SOFTWARE AND PLATFORM

Protocols	Modbus TCP/RTU · OPC-UA · MQTT · REST API · FTP · VPN
Control modes	Self-consumption · Peak shaving · Zero export · Time of Use
Zero export	RD 244/2019 · UNE 217001:2020
Platform	24/7 multi-user web · REST API
Data	5 years of history · EU servers
Interface	HMI for monitoring and configuration

BEEPLANET FACTORY
Certified company

ISO 9001
Quality management

ISO 14001
Environmental management

ISO 27001
Information security

BeePlanet factory

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