

PSW

POWER & AUTOMATION 

# Mobile energy solutions



# Mobile Energy - a game changer

When the grid connection sets limits for electrification, we solve the challenge with mobile energy.

Developed for temporary infrastructure, hybridisation and DC fast charging.

Available in numerous sizes and configurations.

Can be adapted to your needs.



Dynamic AC and/or DC re-charging with high energy density.



Frequency conversion for optional shore power operation.



AC sourcing with unmatched voltage and frequency ranges.



Option for energy trading and frequency regulation services.



Simple connection and disconnection at different locations with both on- and offgrid operation.



Automatic dynamic load sharing between connected energy producers and consumers.



Compatible multiple energy sources grid, solar, hydrogen, natural gas and diesel.

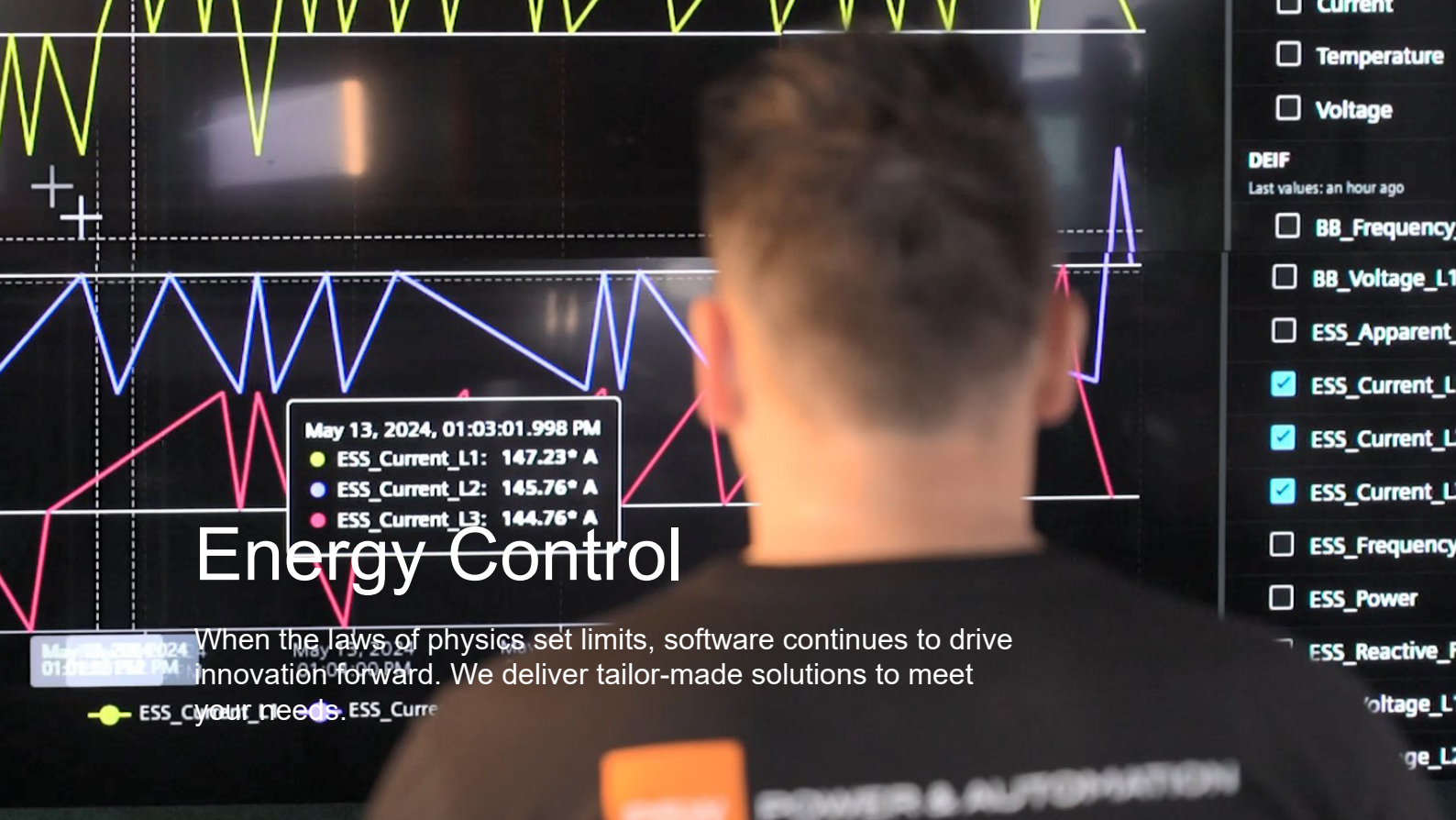


DC charging according to CCS2 standard with optional individual payment system or RFID.



The BQ system can be integrated with wind turbines, solar panels, grid connections, hydrogen storage and more.





# Energy Control

When the laws of physics set limits, software continues to drive innovation forward. We deliver tailor-made solutions to meet your needs.

## Energy Management System

Our Energy Management System can integrate individual entities or large complex systems, all depending on the energy infrastructure. Essentially, EMS provides safe and reliable operation in all modes while balancing energy produced, stored, and consumed.

With its data insight, the EMS fulfills the operational requirements and primary objectives of the designed energy system, enabling limited or prioritized power transfer to EV-charging units, peak-shaving, reducing demand from a weak grid or to keep energy tariffs low. For systems with energy production and storage, the EMS, with the help of its market insight, can act accordingly to leverage the best economic beneficial outcome between store, trade, or use.

When price arbitration and/or balancing services are a secondary endeavour and preserving battery life for its primary objectives is key, the EMS monitors and regulates the secondary activities (through communication with the AMS), ensuring that the use of batteries does not exceed given thresholds that will compromise their life, thus securing the batteries for its primary purposes and maximizing its lifetime for an optimal return on the investment.



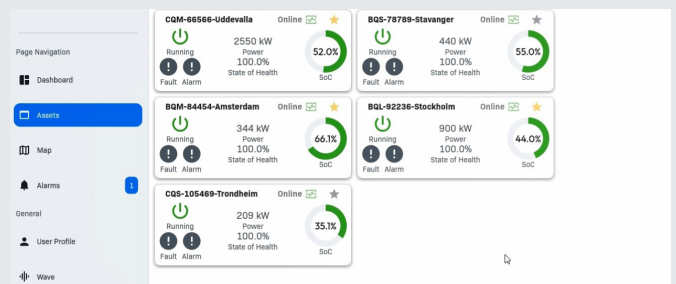
## Asset Hub

Asset Hub is an asset dashboard customised for your asset collection. This user interface displays key figures for asset status and health, and for some applications, market data and revenue are visualized to give a total overview.

Layout and data-fields will vary and depend on the type of assets and application. This is adapted to best suit the user-case.

The scheduling table enables users to control the time and day of market participation. Alternatively, this can be handled from the AMS automatically.

The Asset Hub is web-based, so no software installation is required, but if desired, an Asset Hub API is available for customers who wish to integrate this into their own systems.



# Mobile energy overview

When the grid connection sets limits for electrification, we solve the challenge with mobile energy.

Developed for temporary infrastructure, hybridisation and DC fast charging.

Integration against all types of energy sources.

Available in numerous sizes and configurations.

Mobile, modular and expandable units.



## **BQ-S AC Power supply**

**400kW/442-569kWh**

**208-690V 50/60Hz**

The mobile AC power supply solution has a built-in battery pack with high-power.

The unit supplies AC power and works as stand alone or in a hybrid configuration with grid, solar or generator.

Option to connect CQ-XS CCS2 360kW DC fast charger.



## **BQ-M AC Power supply**

**600-1000kW/660-1150kWh**

**208-690V 50/60Hz**

The mobile AC power supply solution has a built-in battery pack with high power.

The unit supplies AC power and works as stand alone or in a hybrid configuration with grid, solar or generator.



## **CQ-XS DC Fast charger**

**CCS2 360kW (2x180kW)**

**400V 400kW 50/60Hz**

Liquid cooled to ensure fast DC charging for excavators and heavy machinery.

Designed for seamless connection with the BQ AC power supply units or as a stand-alone charger.

# Mobile DC charging stations that provide the power you need, when and where you need it.



## **CQ-S DC Fast charger 230kWh** **CCS2 200kW (2x100kW)** **400V 86kW 50/60Hz**

Mobile DC charging stations that provide the power you need, when and where you need it. The mobile charging solution has a built-in battery pack with high-power chargers to provide fast DC charging for excavators and heavy machinery.

The unit supplies AC power and works as a CCS2 charger, with flexible re-charge using a CCS2 charger or grid.



## **CQ-M DC Fast charger 540kWh** **CCS2 360kW (2x180kW)** **400V 86-200kW 50/60Hz**

Mobile DC charging stations that provide the power you need, when and where you need it. The mobile charging solution has a built-in battery pack with high-power chargers to provide fast DC charging for excavators and heavy machinery.

The unit supplies AC power and works as a CCS2 charger, with flexible re-charge using a CCS2 charger, grid, solar or generator.



## **CQ-L DC Fast charger 1150kWh** **CCS2 360kW (2x180kW)** **400V 86-360kW 50/60Hz**

Mobile DC charging stations that provide the power you need, when and where you need it. The mobile charging solution has a built-in battery pack with high-power chargers to provide fast DC charging for excavators and heavy machinery.

The unit supplies AC power and works as a CCS2 charger with flexible re-charge using a CCS2 charger, grid, solar or generator.



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