

# EBUSCO<sup>®</sup>

## ENERGY

STORAGE | MOBILITY | MARITIME | (DIS)CHARGING

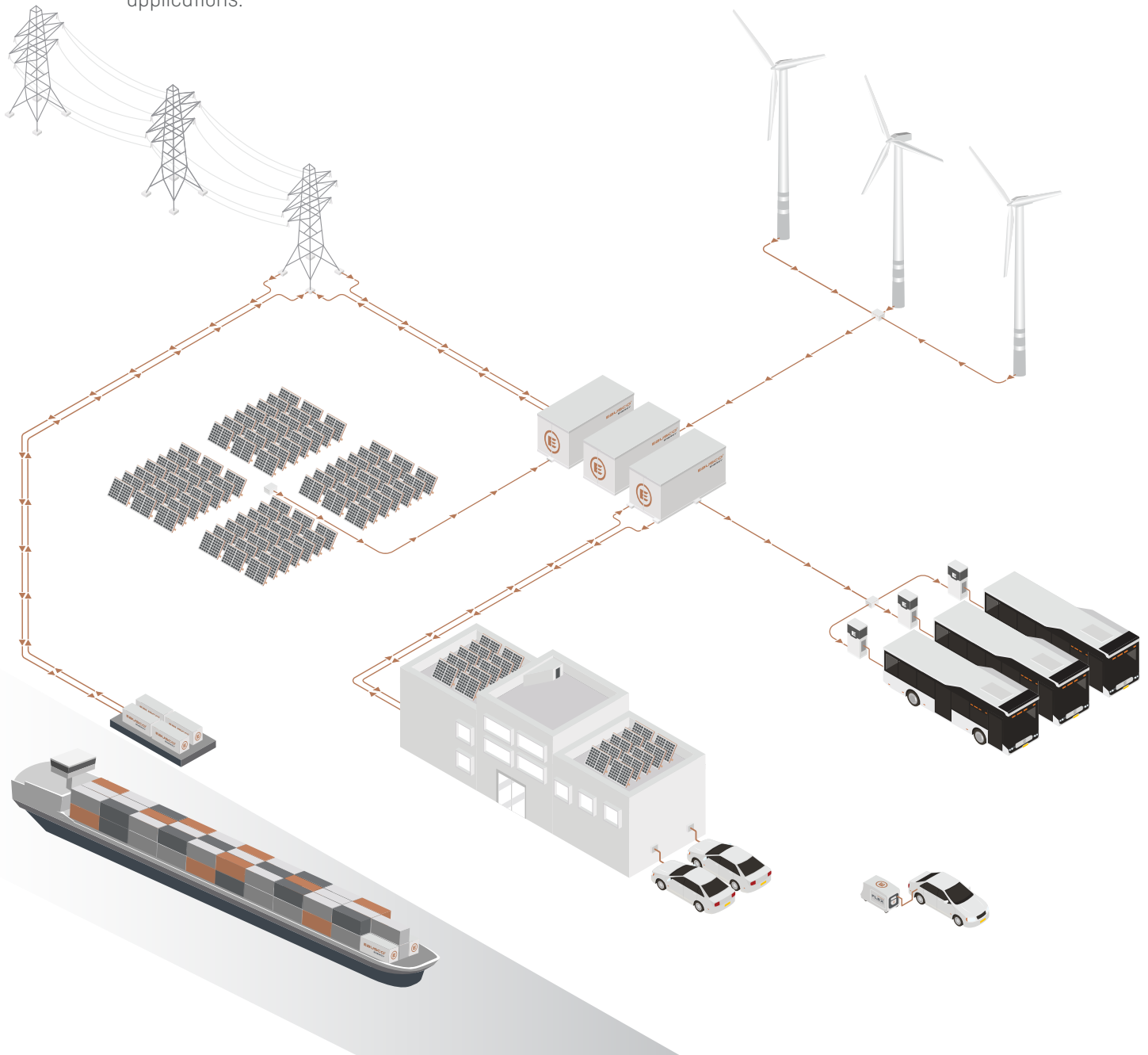


# EBUSCO ENERGY

## GROUNDBREAKING SUSTAINABLE ENERGY SOLUTIONS

Building on its experience with heavy-duty batteries, Ebusco is offering a complete package regarding electrification. With Ebusco Energy, provisions are made towards a more sustainable energy supply that is designed for the future. With the increasing demand on the power grid and the need to switch to green energy, the time to make an impact is now. With Ebusco Energy, solutions are offered that accelerate the transition to sustainable energy while simultaneously solving the challenges that this transition entails.

For over a decade, Ebusco has dedicated itself to electrification, and has built up valuable expertise in the battery market. As part of this focus, Ebusco provides a versatile Battery Management System [BMS] as an integrated part of their Ebusco Energy applications. This BMS delivers extensive battery data, ensuring informed decision-making and enhanced security and safety in deploying energy applications.



# ENERGY STORAGE SYSTEM (ESS)

## MULTIFUNCTIONAL USAGE

The Ebusco ESS is available in different sizes and storage options, and can therefore be used for many different purposes, such as storage, self-sufficiency, and energy trading.



### STORAGE

To make sure newly generated green energy is not lost because of an overloaded power grid, the ESS can store green energy when it is redundant.



### SELF-SUFFICIENT

By investing in green energy generation, it is possible to achieve full self-sufficiency. You can utilise your own generated power and create a microgrid. With the ESS you are no longer depending on a, at times, unstable energy network. With an ESS, it is possible to accommodate peaks in energy consumption, eliminating the need for grid connection. It is also possible to load shift the electricity required through the battery, further reducing dependence on the grid.



### ENERGY TRADE

The prices of energy are dependent on the amount of energy on the grid and the consumption. With the ESS you can benefit from these shifts by buying when the price is low and selling when the prices are high. Simultaneously, you are relieving the grid when overload occurs, and can provide power when the demand is there.



# MOBILE ENERGY CONTAINER (MEC)

## MOBILE SOLUTIONS FOR WATER AND LAND

Unique for their flexibility and versatility, MEC's can be utilised in many different ways.

### Maritime application

The Mobile Energy Containers can be applied to vessels, to ensure flexible, temporarily, electrification. With the right infrastructure, these flexible applications enable the vessels to have 100% electric propulsion. This involves providing the ship with a container, sailing its route and, at fixed points, swapping the MEC's for fully charged MEC's allowing the ship to quickly continue its route on power.

### Multi-purpose energy storage

However, Mobile Energy Containers can be used even more diversely. Their portability and relatively simple connection to the energy grid, makes it possible to deploy them for temporary projects where high energy consumption is required. Examples include construction sites and festivals.

## EBUSCO MARITIME BATTERIES (EMB)

### MARITIME CERTIFIED BATTERIES

The EMB's batteries are specially certified for the maritime sector and can directly be installed in all kinds of vessels. These maritime batteries can be assembled directly into a ship or yacht and are not bounded to a specific drive system. This means they can be integrated with 100% electric, hybrid and hydrogen drives. Ebusco also supplies the cable system for the vessels ensuring easy installation.

## EBUSCO CHARGING SOLUTIONS

### MAKING CHARGING AS EASY AS POSSIBLE

#### DOCKING STATIONS

Docking Stations are dedicated spaces to charge MEC's. For maritime situations, these stations play a vital role between land-based power sources and MEC's on vessels. While replacing the containers, the depleted batteries can be charged with the Ebusco Docking Stations. It is also possible to use the docking solution to stabilise the grid.

#### SHORE POWER

While on route, vessels can be powered with MEC's. But when vessels go ashore to (un)load cargo, a lot of energy is needed for the process. Ebusco's shore power, consisting of a Docking Station combined with MEC's, enable a direct and flexible connection between batteries on the shore and batteries on the vessel to keep the operation alive during stops in ports. Ebusco's shore power is a perfect alternative to provide mobile and green power to vessels in harbours. These systems both can be specified on 50Hz and/or 60Hz.

#### (DIS)CHARGING

Ebusco provides the total maritime energy package with the addition of charging and discharging stations which can provide power to vessels during (un)loading with a simple plug-and-play solution.

#### EBUSCO ENERGY FLEX

The Ebusco Energy FLEX is a mobile and fast charging energy storage system that stands out for its remarkable flexibility in deployment. Unlike fixed electric chargers, this charger is able to drive and offers a mobile energy storage solution, eliminating concerns about location and infrastructure. This adaptability makes it an ideal choice for diverse settings.



#### ENERGY STORAGE

BATTERY CAPACITY **184 kWh**



#### FAST CHARGING

HIGH POWER CHARGING **60 kW**



#### REMOTE MOBILITY

MOVEMENT SPEED UP TO **4 KM/h**



#### PERFORMANCE INSIGHTS

SMART MONITORING SYSTEM







**“THROUGH EBUSCO ENERGY, WE UPHOLD  
EBUSCO’S MISSION, ACTIVELY FOSTERING A  
GREENER FUTURE BY ADVANCING TOWARDS A  
SUSTAINABLE ENERGY ECOSYSTEM.”**

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Peter Bijvelds, CEO Ebusco

Ebusco leads the electrification of transport with innovative zero emission buses, by overcoming major obstacles to electrification. Not hindered by a legacy in diesel buses, Ebusco has proven itself to be an innovative frontrunner in the development of electric buses as well as ancillary products and services to the electric vehicle ecosystem. We believe Ebusco is at the heart of the entire EV ecosystem.

Building on its experience with heavy-duty batteries, Ebusco’s offering comprises everything from zero emission buses to energy storage systems, charging infrastructure, depots, service and maintenance, local energy supply and grid alignment.

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