

Renewable energy is the future, to make it happen, we need energy storage solutions.



ECO STOR is investing in building a circular economy for the battery industry, providing battery energy storage systems (BESS) by giving EV batteries a second-life, but also using first-life batteries.

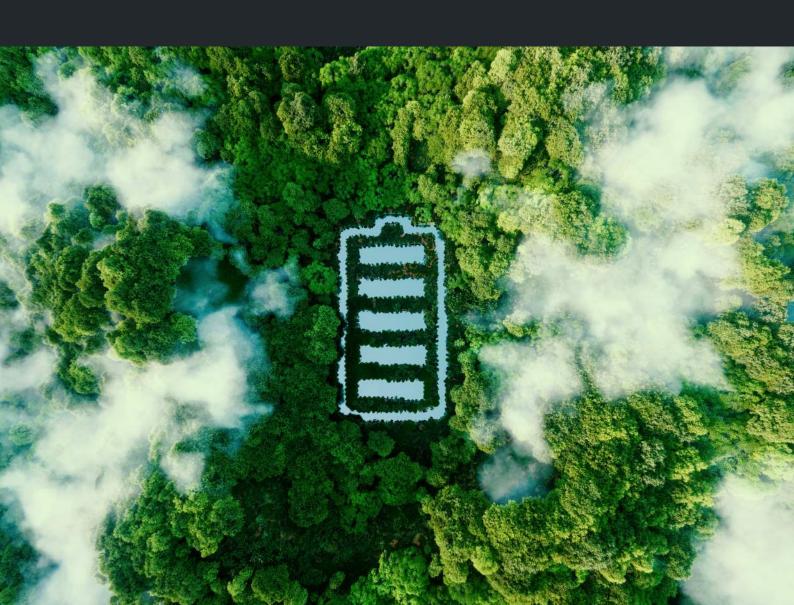
# Why invest in energy storage?

Battery systems are at the heart of everything, from storing energy from small-scale solar arrays on rooftops to frequency regulation of the power grid.

You can contribute to creating a stronger grid, make money on an arbitrage and

secure a steady supply of the cheapest power available for all times of the day, regardless of the price from hour to hour.

By investing in energy storage, you are planning for the future.

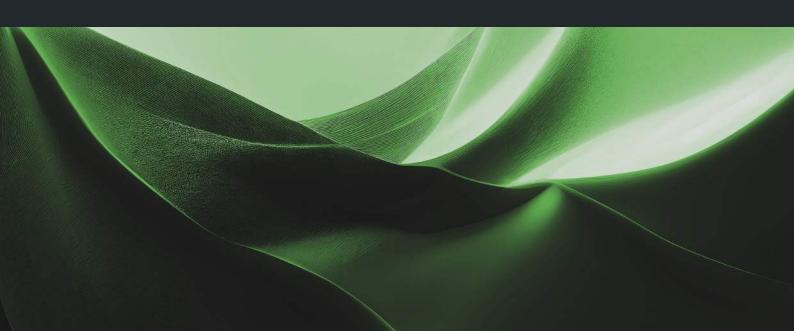


# What our systems can do for you

# Spot price optimization Energy is stored when costs are low and used or sold when costs are high. Peak shaving and Load leveling Cut peaks to avoid high tariffs, reduce pressure on the grid and optimize your consumption curve. Solar power utilization Make the most out of your solar array - store surplus energy production and use it when the sun doesn't shine. Frequency services Enter the frequency markets with your battery solution to increase the ROI further.

## 5. Virtual Power Plant

Connect with other storage systems to be part of the virtual power plant.



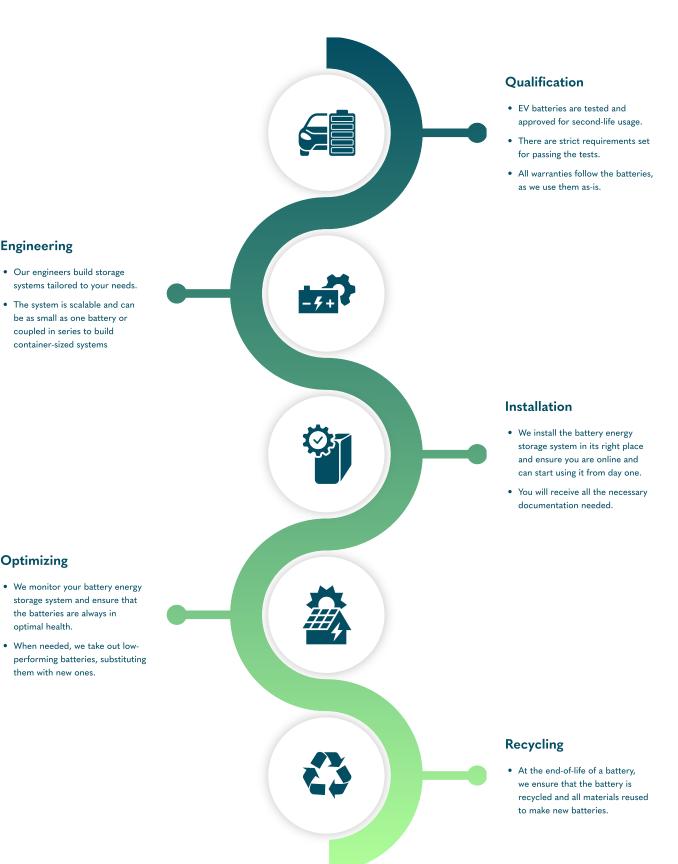
# Our process

We follow the complete cycle of Li-ion batteries for different use, from first-life as EV Batteries through second-life as energy storage systems for energy storage, peak shaving and grid support, to recycling the batteries.

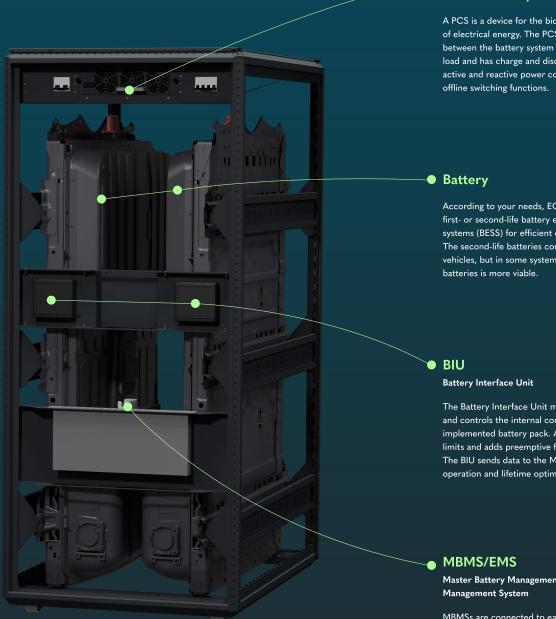
**Engineering** 

**Optimizing** 

optimal health.



# The parts of an ECO STOR second-life system



### PCS

### **Power Conversion System**

A PCS is a device for the bidirectional conversion of electrical energy. The PCS is connected between the battery system and the grid and/or load and has charge and discharge functions, active and reactive power control functions, and

According to your needs, ECO STOR supplies first- or second-life battery energy storage systems (BESS) for efficient energy utilization. The second-life batteries come from electrical vehicles, but in some systems, using first-life

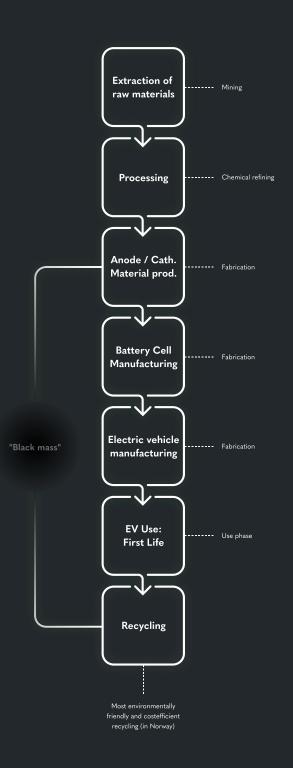
The Battery Interface Unit monitors parameters and controls the internal contractors of the implemented battery pack. Also, it handles safety limits and adds preemptive fault mitigation. The BIU sends data to the MBMS, ensuring safe operation and lifetime optimization.

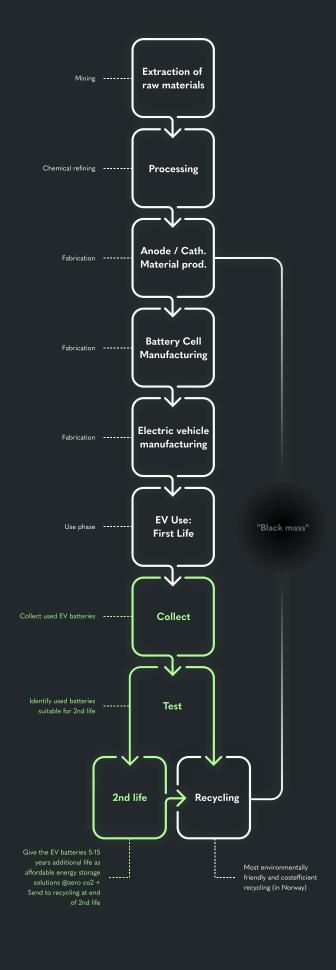
# Master Battery Management System/Energy

MBMSs are connected to each BIU and PCS (Power Conversion System) and handle requests on charge/discharge dispatches from the EMS. The EMS makes decisions on battery operation based on implemented functionality and prioritization, which come from parameters for the entire battery system published by the MBMS.

# Traditional value chain

# ECO STOR's value chain





# Timeline - Our history

**ECO STOR's** purpose is to contribute to a clean energy future for our planet through the development of a circular economy for the battery industry. We also want to contribute to providing an energy-secure future through battery energy storage solutions.

