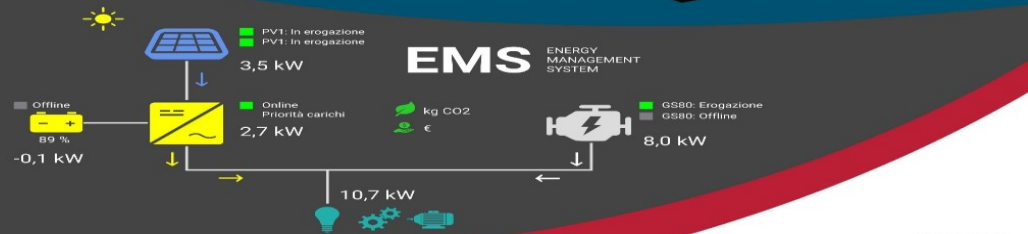
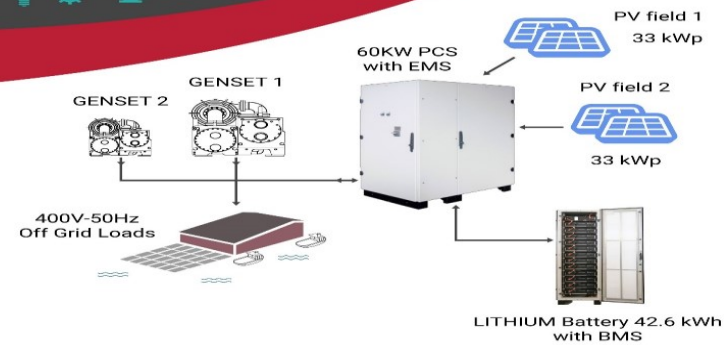


HYBRID PCS FOR MICROGRID APPLICATION



CASE HISTORY





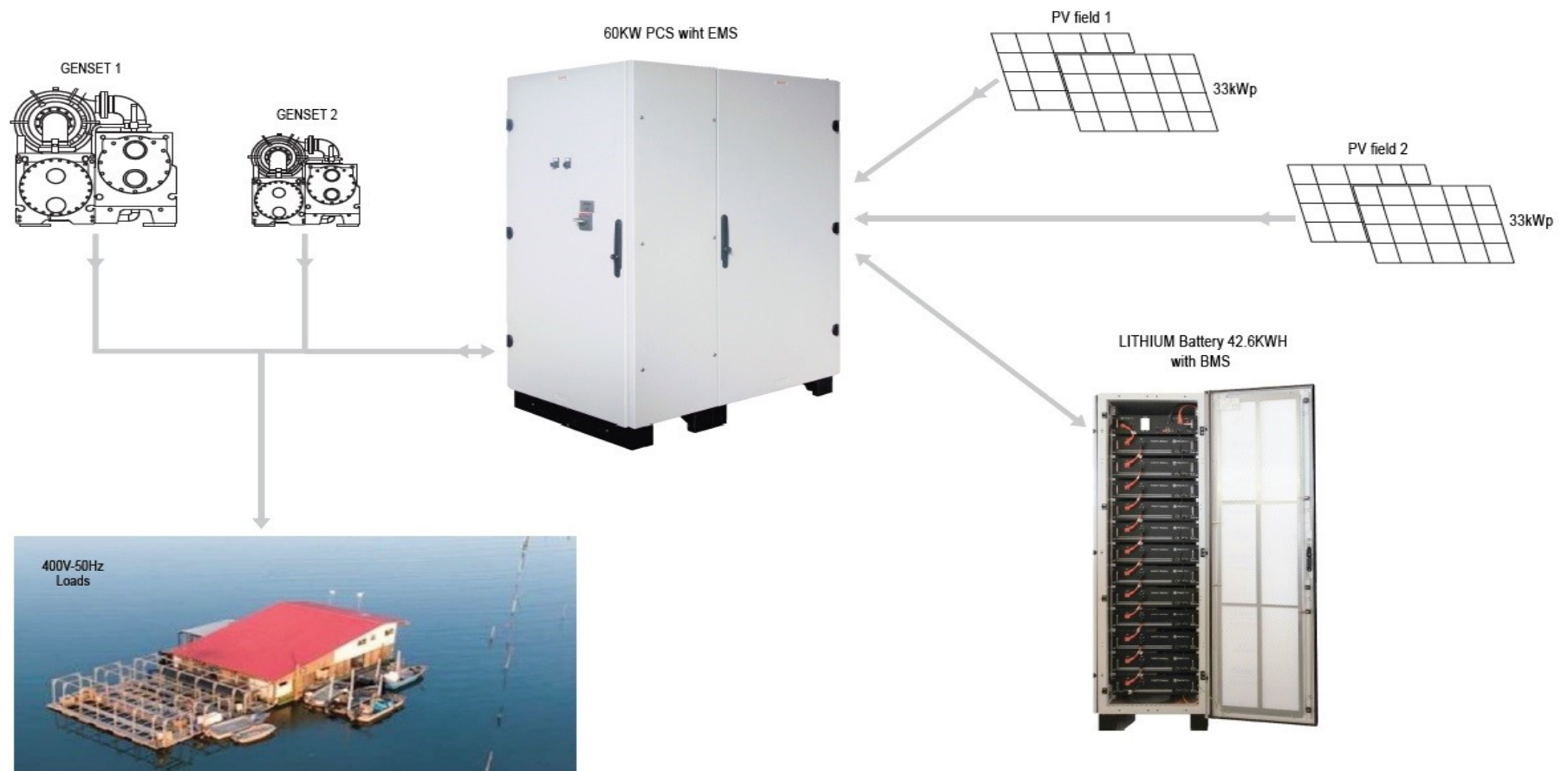
GENERAL INFO

- Customer – Fishing Farmer
- Place of Installation – Rosolina (Rovigo) Italy
- Date of Installation – August 2019





OUR SOLUTION





SCOPE OF SUPPLY

Elpower was called to create a microgrid system in a platform located in Venice Laguna, where our customer has its own facility (fishing farming). The scope was to switch the supply of the existing loads (40 kW in total) from two diesel genset to a renewable source microgrid, with two PV power plants of 33 kWp each and a BESS of 42,6 kWh, both of them directly connected with a Cleansland 60 kW Hybrid PCS. Thank to Elpower EMS (Energy Management System) the utilization of diesel genset moved from 100% to 30%.



HYBRID PCS

- **CleanIsland 60 kW**
- Double Inverter, back to back
- Output Voltage 400V
- Number of phases 3 + N
- Input Voltage range 540/648 V
- Max Current 74A
- Indoor solution
- Dimension (WxDxH) 1400x800x1700
- Grid Forming-Grid Following
- Black Start Capability
- Installation August 2019





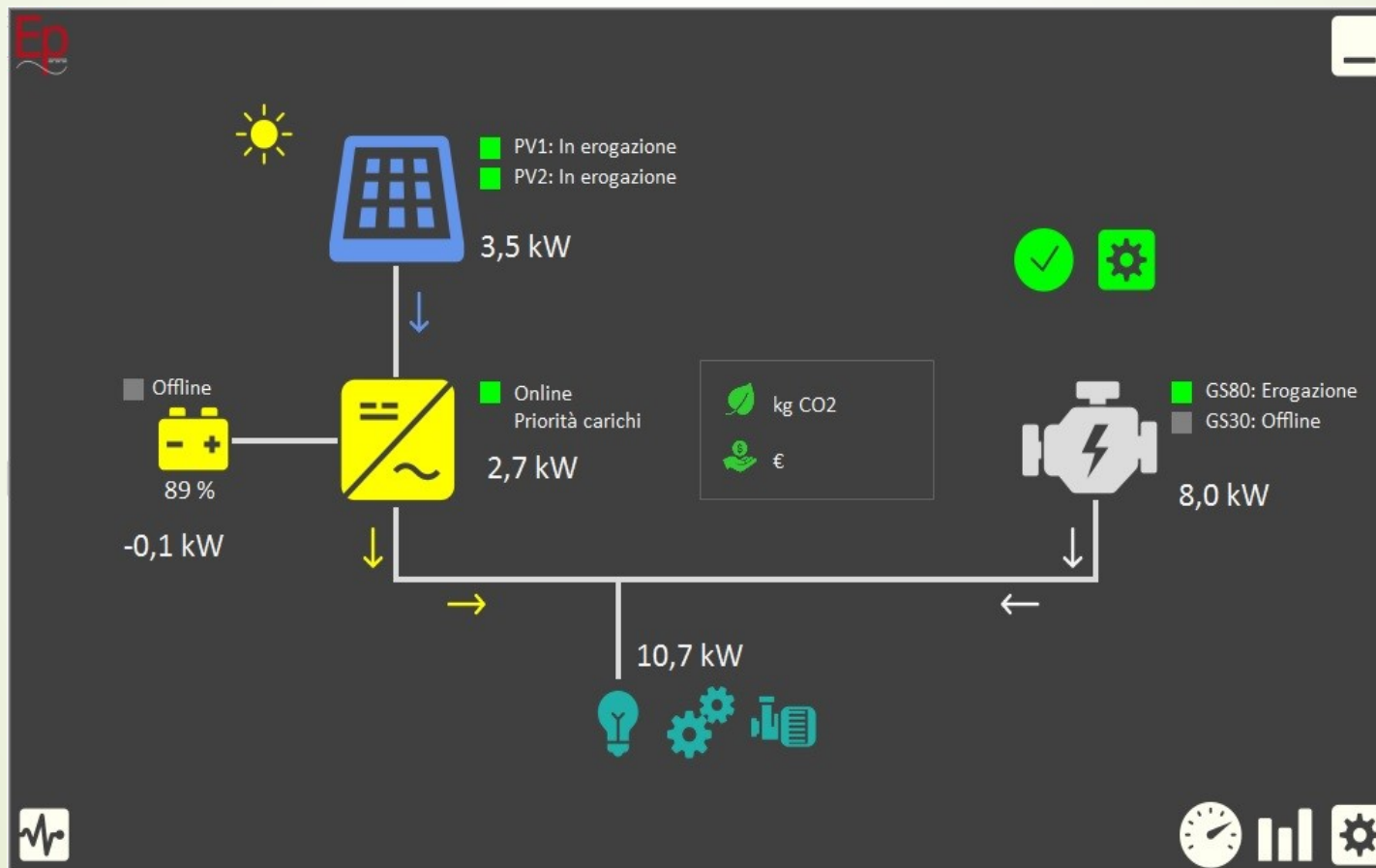
ENERGY STORAGE SYSTEM

▶ Pylontech Power Cube H2

Battery System Capacity	42,62 kWh
Battery System Voltage range	540/648V
Battery System Capacity	74°
Battery Module H48074	12 modules
Deep of Discarghe	80%
Operation Cycle Life	3.500
BMS module	SC1000
Operation temperature	0-50°



EMS Energy Management System





THANK YOU FOR YOUR ATTENTION

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