


MV HESS Energy Management System (EMS)

<p>Name of the HW/SW technology: Energy Management System (EMS)</p> <p>Purpose of the HW/SW technology: Operation and of the MV HESS System and internal and external communication</p>	
Detailed description	The Energy Management System is based on a Micro-PC.
Applications	<p>The Energy Management System (EMS) can be used wherever multiple subsystems have to be organized. In the actual application the EMS communicates with the three individual systems Inverter, Supercap system (with DC/DC-converter and supercap storage) and Li-Ion battery. The software is handling the errors of the subsystems and managing the operation with so called State machines where the system changes from the states error , standby and operation.</p> <p>Furthermore the Primary reserve (grid frequency dependent power) and the Power sharing (usage of battery or supercap) algorithms are implemented in the EMS.</p> <p>The communication to the grid operator, EMP (Energy Management Plattform) or cloud is done via Ethernet protocol.</p>
Images, drawings	 <p>Micro-PC used as MV HESS Energy Management Platform</p>

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