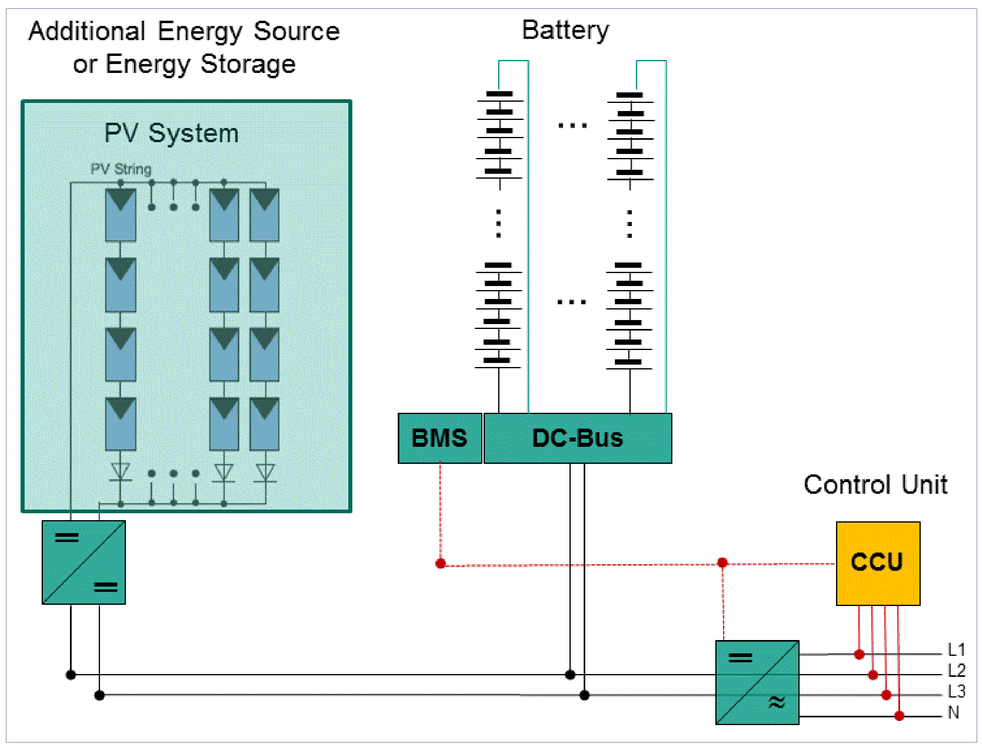
LARGE-SCALE BATTERY STORAGE HAS FOUND ITS HOME

APPLICATIONS

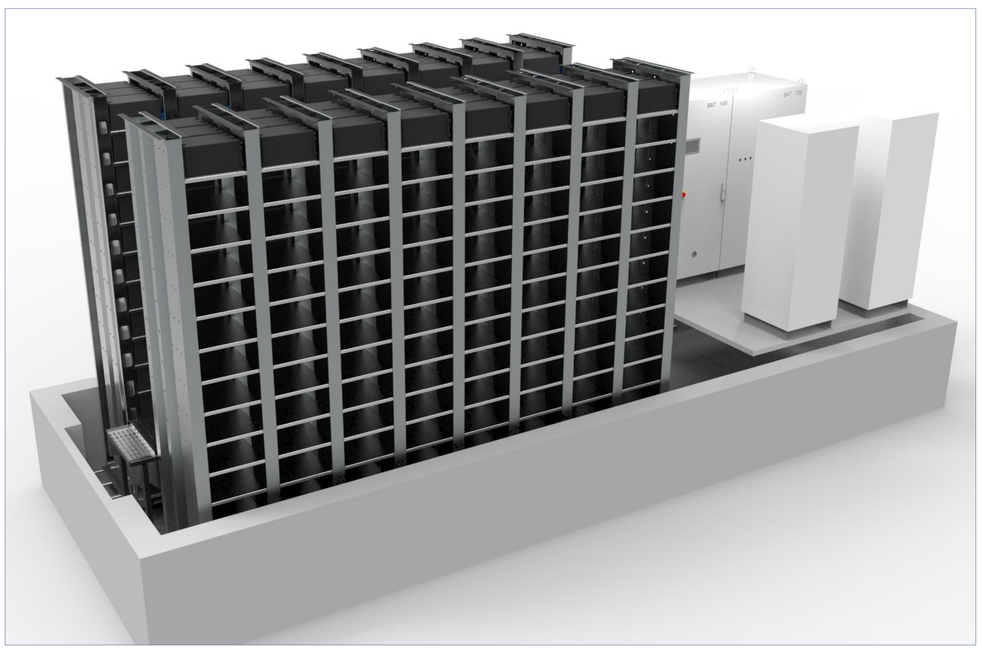
- Supply of primary control reserve
- District energy storage
- Industrial applications (power shifting)
- Integration of different renewable energy sources (solar, wind, biogas) or supplementary battery technologies
- Day/night energy shifting

TECHNICAL INFORMATION

- Energy (scalable) 1.5 MWh
- Power (scalable) 2 x 100 kW to 1 x 1.8 MW
- Concrete housing 8 x 3 x 4 m
- Redundant configuration
- AC- or DC-coupled
- Island- or grid-connected
- Innovative cooling system for high integration density and low power losses
- Mass-produced battery modules
- Long lifetime due to independent energy generation forecast and intelligent control system
- Plug and play



System design – DC-coupled system



Interior of the large-scale storage system

Visual integration of the storage system in district areas

EnergyLab 2.0

The storage system will be built as part of the Helmholtz project “EnergyLab 2.0”, which aims to explore the interaction between the components of future energy systems in the field. In this context, different technologies for power generation, energy storage and conversion will be interconnected with consumer loads to form a smart energy system using state-of-the-art information and communication infrastructure.