

// ZSW Photovoltaics Test Laboratory: Characterization of PV Storage Systems



// PV storage system test bed

PV storage system – test lab

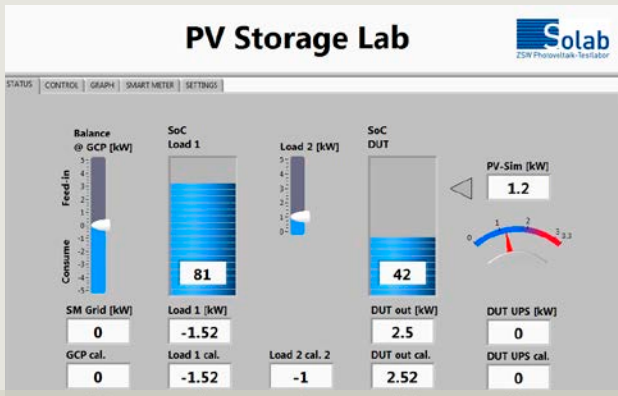
- // Highly resolved acquisition of power flows at the input and output of the storage systems
- // Characterization of energy efficiency as it depends on load profiles
- // Evaluation of implemented storage control algorithms, which might aim at increase of own consumption, increase of efficiency, reduction of losses due to feed-in limits, etc.
- // Analysis of battery cycling and quality of SOC estimation



// PV generator test facility Widderstall, South of Germany

PV storage system – connected to PV generator

- // Highly resolved acquisition of all relevant electrical and meteorological data
- // Electrical characteristics and temperature coefficients of PV generator
- // Energy yield and performance ratio
- // Real outdoor power near STC
- // Short- and long-term stability and performance of PV modules



// Control Panel of PV storage test engine

Systems technology and grid integration of PV storage systems

- // Energy management, optimization of own consumption
- // Storage control algorithms to minimize grid loading and contribute to network stability

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