



PV-Hybrid System Data Visualization Recommendations

Task 18: "Off-Grid and Edge-of-Grid Photovoltaic Systems"

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PV Hybrid System data visualisation

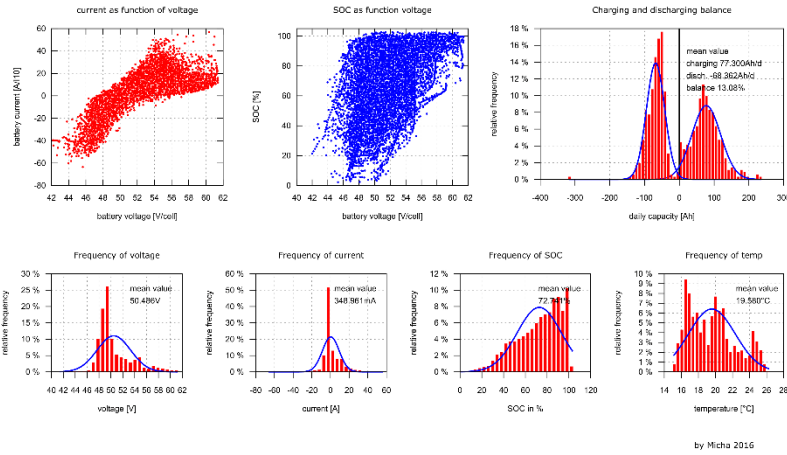


- Many PV Hybrid Systems operate without performance supervision
- This work proposes a standardised data visualisation to allow an efficient overview on the performance of the system
- The key is to analyse the battery data
- Many systems can be easily compared
- A long term supervision allows to compare several years of the same system in order to identify weak and inefficient operating periods.
- The one page visualisation allows to plan maintenance and components replacement in an efficient way

Data visualisation example



- Min, max and Average values
- Daily energy balance
- Histogram and SOC analyses



Energy self-sufficient house, Freiburg Germany



Thank you

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