PV-Hybrid System Data Visualization Recommendations

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

Michael Müller, OFRES, August 2022
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
Thank you

Michael Müller, Task 18
mm@ofres.org