

EMPOWER

Energy Monitoring Good Practice

Pilot Microgrid

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On line Peer Review

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More carbon reduction by dynamically monitoring energy efficiency

Good Practice Description

At one municipality in Podravje region a pilot microgrid was established (5 public buildings)



It serves for modeling and finding solutions for:

- possible self-sufficiency of public buildings (reduction of energy costs)
- possible island operation of the microgrid
- legal formal establishment of an energy community in which interested citizens would participate and finance the installation of PV at the fire station.

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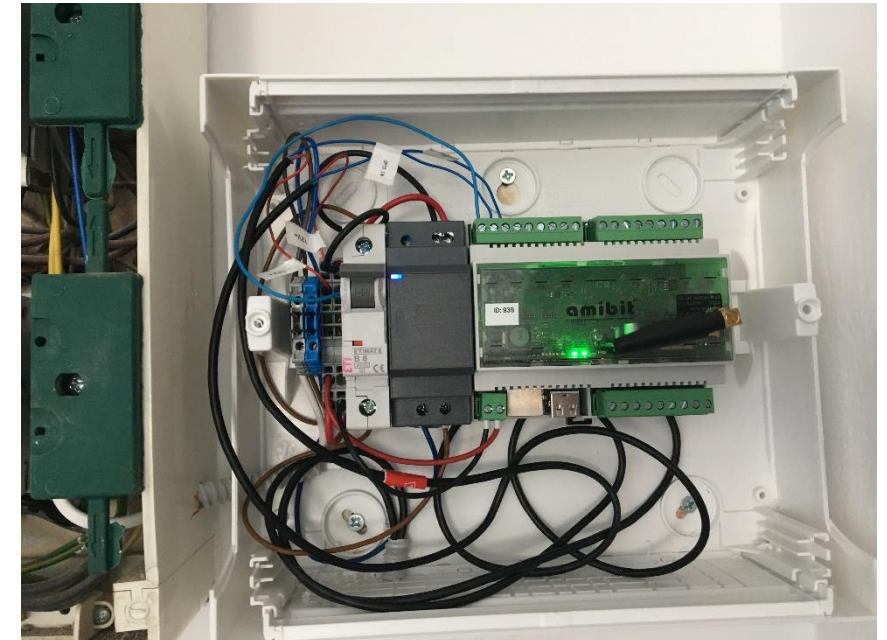
Benefits of Good Practice



- Solution for the monitoring of the consumption and production of electricity at all facilities included in the microgrid
- The monitoring provides insight into real-time electricity data

The communication between the controller and the main electricity meter allows us to monitor the following parameters:

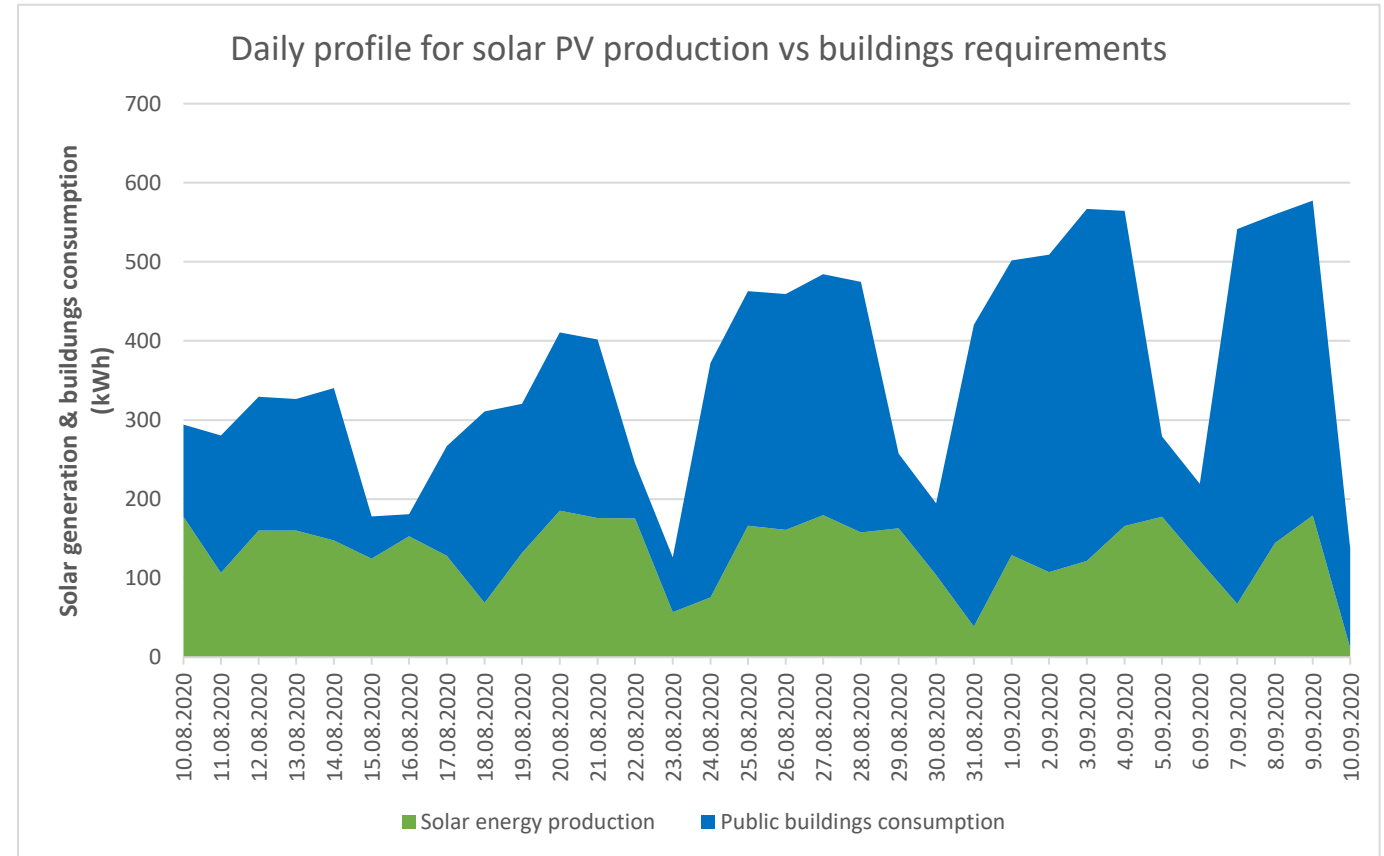
- total electricity consumption
- current power consumption, voltage and current of each phase



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How transferable/replicable is the Good Practice

- For all buildings, automatic energy accounting is established (online application)
- Electric power measurements are performed at 15 minutes interval on all microgrid buildings
- With such data also energy or RES communities could be easily established



Thank You – Any Questions



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