Data monitoring & analytics for better PV performance and grid integration

COST Action CA16235 Pearl PV

Working Group 5

Plenary summary and future work

Jonathan Leloux (Polytechnic University of Madrid)
Sonia Pinto (University of Lisbon)

12 January 2021
Online

Two main challenges of PV: LCOE and grid integration

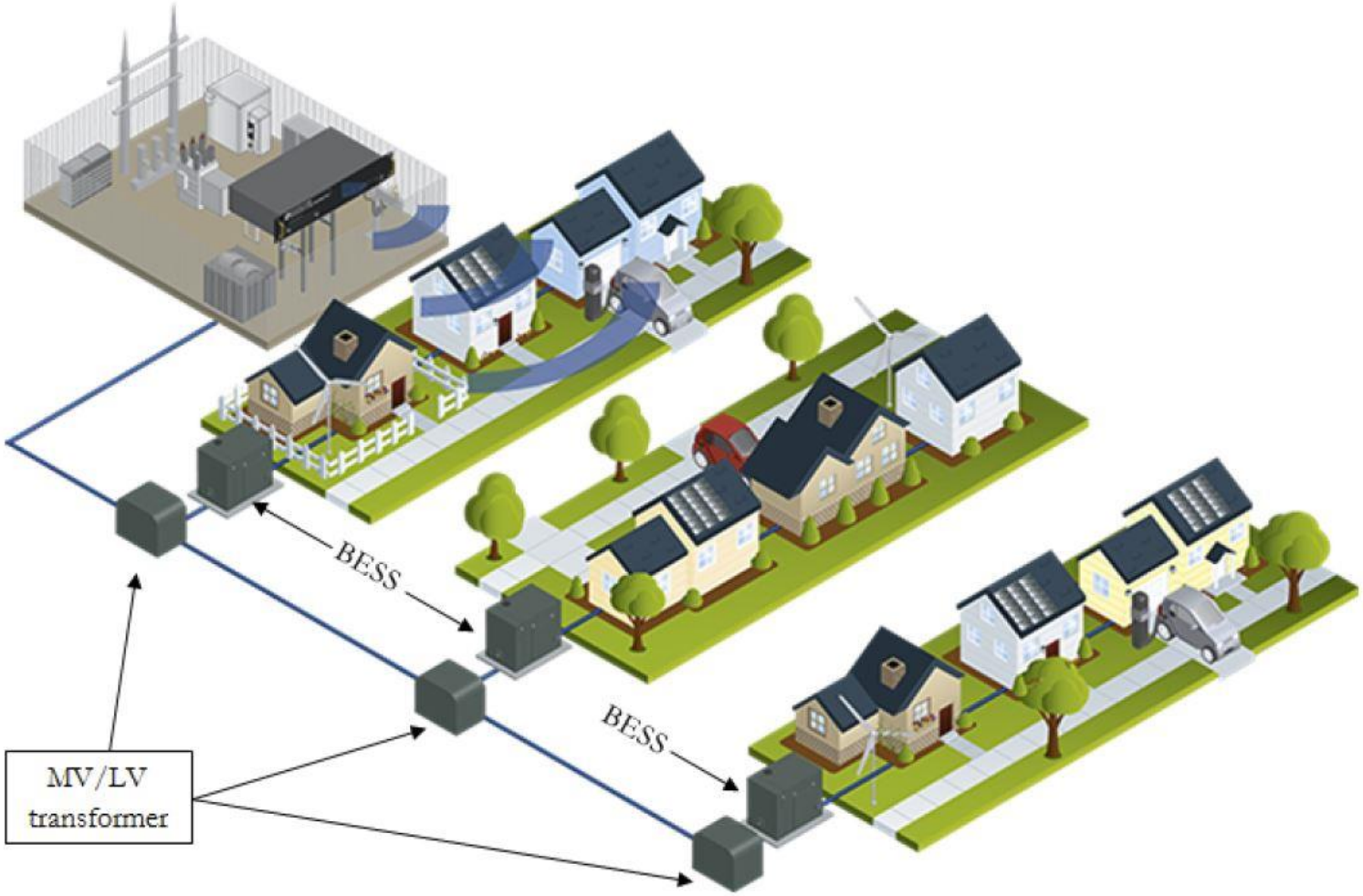
How to further decrease LCOE

- Increase the performance of PV systems
- Better quality controls
- Better component reliability
- Better system reliability
- Increase the lifetime of PV systems and components
- Better energy yield assessments (lower uncertainty)

→ Increase the bankability of PV systems (Lower WACC)

→ Many key challenges at the component and system levels

Smart grids and collective self-consumption



The smart (local) smart grid approach

PV installations are becoming more diversified

Floating PV plant, France

Bifacial PV plant, Egypt

Agrivoltaics, Germany

BIPV, International School of Copenhagen

Pearl PV is a COST Action → R&D + Collaboration+ Networking

- The organizers hope that you had a fruitful workshop
- We still have 1+ year of Pearl PV (until April 2022)
- Let's take maximum benefit from collaboration opportunities
- We encourage collaboration between participants
- Pearl PV can help you find your dream collaborators
- There is life outside of Pearl PV and after Pearl PV
- Let's build our future collaboration from now!