WG 5: PV in grids

Program for WG5 Workshop
Scheduled from 26 February (13:30-17h) to 27 February (9-17h)

Contact person: Jonathan Leloux
E-mail address: jonathan.leloux@gmail.com

Description
We will have the opportunity to meet in Lisbon at the end of February 2019 and to have several days of intense exchange. Work in progress may be well suited for presentation as well, as we would like to identify potential topics for collaboration, which could materialize in Short Term Scientific Mission proposals. This meeting is a great opportunity for us and we should make the most out of it. This implies that we prepare the meetings as much as possible before we go to Lisbon. Ideally, we should only organize a workshop for a task that has already been defined with its objectives and an associated team, and on which we have already exchanged ideas through remote collaboration, via emails, shared documentation and call meetings.

Ideally, we should try to constitute teams of 3 to 6 persons around one specific task, with one task leader, and this task should aim to produce at least one publication in a scientific journal by the end of 2019. You can either propose a new topic, or you can also join a topic that has already proposed by other colleagues. For some of these topics, a team is already nearly constituted. Here are the hot topics that have been proposed so far:

- Peer-to-peer prosumer cooperation, e.g. using blockchain technology, including spatiotemporal forecasting using data from distributed PV systems.
- Assessment of the PV power mitigation potential from the geographic dispersion of PV systems.
- Assessment of PV power fluctuations at one PV system, as well as for PV system fleets, including the study of the correlation between the fluctuations in PV power between neighbouring installations.
- Evaluation of the Power Quality indicators at the connection of PV systems to the grid.
- Better energy management and storage control at the interface between PV systems and low voltage distributed grids.
- Better procedures for cheap and effective Operation and Maintenance (O&M) of PV systems will be searched for, including soiling and cleaning strategies.
- Fault detection procedures to improve the energy yield of grid-connected PV systems and reduce their power instability.

Tuesday 26 February 2019 (14-17h)
Final program to be announced later

Wednesday 27 February 2019 (9-17h)
Final program to be announced later

Thursday 28 February 2019 (9-17h)
Excursion