

Data monitoring & analytics for better PV performance and grid integration

Pearl PV Workshop organized by WG5

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1.Introduction

Because of the continuing Covid pandemic Cost Action PEARL-PV took the initiative to organize monthly online workshops in the period from November 2020 until April 2021, inviting participants from within and outside the Action to actively engage in the various research topics that this Action covers. In this context, Working Group 5: “PV in grids” is organizing a workshop on

“Data monitoring & analytics for better PV performance and grid integration”.

These presentations will cover fault detection for large-scale PV plants and small-scale PV systems, PV performance analysis, soiling losses assessment, PV power degradation, solar resource data and PV grid integration.

The workshop will offer a series of presentations on trending topics from outstanding experts from PV research and industry.

2.Agenda

This agenda is a first draft and it is subject to changes.

Time	Item/title	Presenter/moderator
9:00	Opening of the workshop	Angele Reinders (UT, Netherlands)
9:10	Workshop introduction	Jonathan Leloux (UPM, Spain)
9:20	Soiling, mitigation and cleaning optimization for large PV plants	Leonardo Micheli (UJAEN, Spain)
9:50	Data analytics applied to monitoring and field data for performance optimization in large PV plants	Rodrigo Moretón (QPV, Spain)
10:20	Potential for collective self-consumption in local energy communities	Rodrigo Amaro e Silva (UL, Portugal)
10:50	Better PV integration in smart grid: lessons learned from pilot project in the Netherlands	Gerwin Hoogsteen (UT, Netherlands)
11:20	Break	
11:30	Impact of performance and degradation on PV plants profitability	Elina Bosch (Becquerel Institute, Belgium)
12:00	Monitoring and data analytics of power quality issues in PV grid integration	John Licari (UM, Malta)
12:20	Plenary summary and future work	Jonathan Leloux (UPM, Spain)

