

WG 1: PV Monitoring

Program for WG1 Workshop

Scheduled from 26 February (13:30-17:00h) to 27 February (9:30-17:00h)

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Description

Working group 1 on PV monitoring is organizing several sessions as part of the PEARL-PV workshops in Lisbon. Overarching topic is "Review of PV performance data and analysis".

Selected WG1 participants and others working in the field of PV monitoring and performance analysis will present their most recent work. This includes work in progress as we would like to identify potential topics for collaboration, which could materialize in Short Term Scientific Mission proposals.

Tuesday 26 February 2019 (13:30-17:00h)

Twente

13:30-14:30h	Plenary meeting (Room: C6.2.56)
14:30-15:00h	Coffee break
15:00 – 17:00h	WG1 meeting (Room: C1-FFCUL)
15:00-15:10h	Welcome and introduction to WG1 meeting, Wilfried van Sark, Utrecht University
15:10-15:30h	The Pearl-PV databank Dijana Capeska Bogatinoska , University for Information Science and Technology "St. Paul the Apostle"
15:30-15:50h	Apparent performance ratio of photovoltaic systems - a methodology for evaluation of photovoltaic systems across a region Kristijan Brecl , M. Topič, University of Ljubljana
15:50-16:00h	Photovoltaic systems monitoring solutions, Kristijan Brecl , M. Topič, University of Ljubljana
16:00-16:30h	Performance and degradation rates of CIS and c-Si photovoltaic systems in tropical climate

Kun Kunaifi, Angele Reinders, Dimas Kaharudin, Muhammad Kirjono, University of

16:30-17:00h On the search for representative characteristics of PV systems: Data collection and analysis of PV system azimuth, tilt, capacity, yield and shading Wilfried van Sark, Sven Killinger, David Lingfors, Yves-Marie Saint-Drenan, Panagiotis Moraitis, Jamie Taylor, Nicholas Engerer, Jamie M. Bright
 17:00-17:15h Wrap up, commonalities Wilfried van Sark, Utrecht University

Wednesday 27 February 2019 (9:30-17:00h)

9:30-15:00h	WG1 meeting (Room: C1-FFCUL)
9:30-10:00h	Review of PV performance data and analysis: current status and future developments Jonathan Leloux, UPM
10:00-10:30h	UAV-Based Autonomous Monitoring System for large-scale Photovoltaics (PV) Plants Mohammadreza Aghaei, Fraunhofer ISE
10:30-11:00h	Monitoring PV Power Plants with Low Power Wireless Sensor Networks Pascal Koelblin, Markus Schubert, University of Stuttgart
11:00-11:30h	PV system performance evaluation by clustering production data to normal and non- normal operation. Odysseas Tsafarakis, Kostas Sinapis, Wilfried van Sark
Together with: 11:00-11:30h	Coffee break
11:30-12:00h	Improving the performances of PV panels using hybrid systems <u>Daniel T. Cotfas</u> , Transilvania University of Brasov
12:00-12:30h	CPVs and hybrid systems in concentrated light <u>Petru A. Cotfas</u> , Transilvania University of Brasov
12:30-13:30h	Lunch
13:30-14:00h	Monitoring and performance of an PV EV charging station Ayda Esfandyari, DIT
14:00-15:00h	Discussion on developing ideas for collaboration and defining Short Term Scientific Missions for WG1 Wilfried van Sark, Utrecht University
15:00-15:30h	Coffee break
15:30-17:00h	Plenary meeting (Room: C6.2.56)

Thursday 28 February 2019 (9:00-17:00h)

Excursion

09:00 – 12:00h Visit to CIS PV plant

12:00 – 14:00h Lunch

14:00 – 17:00h Visit to CPV plant

Workshop results

At the end of the workshop we will have collected and discussed ideas for collaboration. One potential outcome is the organization of a review paper on PV performance practice within Europe.