

WG 1: PV Monitoring

Program for WG1 Workshop

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

Contact person: Wilfried van Sark

E-mail address: W.G.J.H.M.vanSark@uu.nl

University of Twente

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 (13:30-17h)

13:30-14:30	Plenary meeting, room C6.2.56	
14:30-15:00	Coffee/tea break	
WG1 meeting, room C1-FFCUL		
15:00-15:10	Welcome and introduction to WG1 meeting, <u>Wilfried van Sark</u> , Utrecht University	
15:10-15:30	The Pearl-PV databank <u>Wilfried van Sark</u> , Utrecht University	
15:30-15:50	Apparent performance ratio of photovoltaic systems - a methodology for evaluation of photovoltaic systems across a region Kristijan Brecl , M. Topič, University of Ljubljana	
15:50-16:00	Photovoltaic systems monitoring solutions, Kristijan Brecl , M. Topič, University of Ljubljana	
16:00-16:30	Performance and degradation rates of CIS and c-Si photovoltaic systems in tropical climate <u>Kun Kunaifi</u> , Angele Reinders, Dimas Kaharudin, Muhammad Kirjono,	

16:30-17:00	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

17:00-17:15 Wrap up, commonalities Wilfried van Sark, Utrecht University

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

WG1 meeting, room C1-FFCUL

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

Thursday 28 February 2019 (9-17h)

Excursion

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.