

COST Action PEARL PV CA16235

Performance and Reliability of Photovoltaic Systems:
Evaluations of Large-Scale Monitoring Data



Training School III

Simulation tools and models for the analysis of PV system performance

6 - 9 July 2021

Host: University of Brasov, Romania

Workshop Structure

(Detailed presentation titles and speakers to be advised,
structure may vary slightly in the final programme)
(Timings are based on Eastern European Time (Brasov))

Tuesday 6 July 2021 – Day 1: Modelling Principles

Time	Activity
09:30-10:00	Registration and Opening of the Training School
10:00–11:15	Participant introductions – training school participants introduce themselves and their research activities
11:15-11:45	Break
11:45-12:30	The role of modelling in assessing and monitoring PV system performance
12:30-13:30	Lunch
13:30-15:15	Approaches to PV module and system modelling
15:15-15:45	Coffee break
15:45-17:00	Modelling exercises – simulation of system performance
17:00-18:00	Approaches to PV module and system modelling

Wednesday 7 July 2021 – Day 2: Investigating Performance

Time	Activity
09:30–09:45	Introduction to Day 2 programme
09:45-11:15	Modelling of system inputs
11:15-11:45	Coffee break
11:45-12:30	Reliability modelling
12:30-13:30	<i>Lunch break</i>
13:30–15:00	Performance analysis and fault detection
15:00-15:30	Coffee break
15:30-17:00	Exercises on field performance and fault detection
17:00-18:00	Data quality assurance in modelling

Thursday 8 July 2021 – Day 3: Modelling System Concepts

Time	Activity
09:30–09:45	Introduction to Day 3 Programme
09:45-11:15	Modelling of different system types
10:15-11:30	<i>Coffee Break</i>
11:30-13:00	Modelling of shading and system operating conditions
13:00-14:00	<i>Lunch Break</i>
14:00-14:15	Introduction to modelling group challenge
14:15-15:30	Group modelling exercise
15:30-16:00	<i>Coffee Break</i>
16:00-17:00	Group modelling exercise (continued)
17:00-17:30	Preparation of group presentations for wrap-up session on final day

Friday 9 July 2021 – Extending modelling to non-technical aspects

Time	Activity
9:30–11:00	Modelling of economic and environmental aspects of PV systems
11:00-11:30	Coffee break
11:30-12:45	Interactive poster session (reports on modelling challenge)
12:45-13:30	Wrap-up and closure of the training school

Contact persons:

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This Training School is supported by

