

# Workshop Agenda

Ensuring an optimum and reliable photovoltaic performance  
(SMARTER-PV)

<b>Date:</b>	27 <sup>th</sup> October 2021
<b>Time:</b>	10:00 – 11:30 am (CY time)
<b>Location:</b>	Online Workshop – Microsoft Teams – Connect via the link <a href="#">here</a>
<b>Hosted by:</b>	University of Cyprus (UCY)
<b>Moderator:</b>	Andreas Livera (University of Cyprus – PV Technology Laboratory)

**Background:** Optimal photovoltaic (PV) performance can be ensured by data analytic functionalities that can automatically detect and differentiate failures, reversible and irreversible performance mechanisms.

This workshop will provide technical information in the field of performance, reliability, and monitoring of PV systems. Emphasis will be given on the diagnosis of failures and trend-based performance losses in monitored PV systems. The developed solution, R shiny application (interactive web app) with data analytic functionalities will also be demonstrated.

The workshop is intended for local and international partners, researchers and stakeholders in the PV energy sector. The participants will get the required technical background and in-field knowledge of the work carried out in the **SMARTER-PV** project.

"The SMARTER-PV project (BILATERAL/ISRAEL/0518/0017) was part of the "RESTART 2016-2020" Programmes for Research, Technological Development and Innovation and was funded by Innovation Authority (IIA) in Israel and the Research & Innovation Foundation (RIF) in Cyprus."

## Workshop Agenda

10:00	10:05	0:05	<b>Welcome</b> <i>Welcome by Andreas Livera - Principal Investigator (University of Cyprus)</i>
10:05	10:20	0:15	<b>PV Technology Laboratory general presentation and research activities</b> <i>Presentation by Spyros Theocharidis (University of Cyprus)</i>
10:20	10:40	0:20	<b>Degradation and failure diagnosis in PV systems - Insights and results of the SMARTER-PV project</b> <i>Presentation by Andreas Livera (University of Cyprus)</i>
10:40	10:55	0:15	<b>Questions/Open discussion</b>
10:55	11:25	0:30	<b>Demonstration of the developed R shiny application - Discussion on how to integrate the solution into operating PV systems</b> <i>Presentation by Andreas Livera (University of Cyprus)</i> <i>Discussion moderated by Andreas Livera (University of Cyprus)</i>
11:25	11:30	0:05	<b>Workshop Summary and Closing Remarks</b>

## Project Information

The **SMARTER-PV** project was initiated in May 2019 to develop an innovative solution for ascertaining the reliability and optimal performance of PV systems based on data-driven analytics and failure diagnostics.

The project was coordinated by the PV Technology Lab of FOSS Research Centre for Sustainable Energy of the University of Cyprus (UCY) and the partners are K-Energy (a well-reputed Cypriot PV company with a wide experience in PV project development and performance monitoring) and Raycatch (an Israeli company specialized in Artificial Intelligence diagnostics for solar energy).

## Consortium



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