Welcome & Introduction

Ulrike Jahn, Fraunhofer CSP & Task Manager of IEA PVPS Task 13

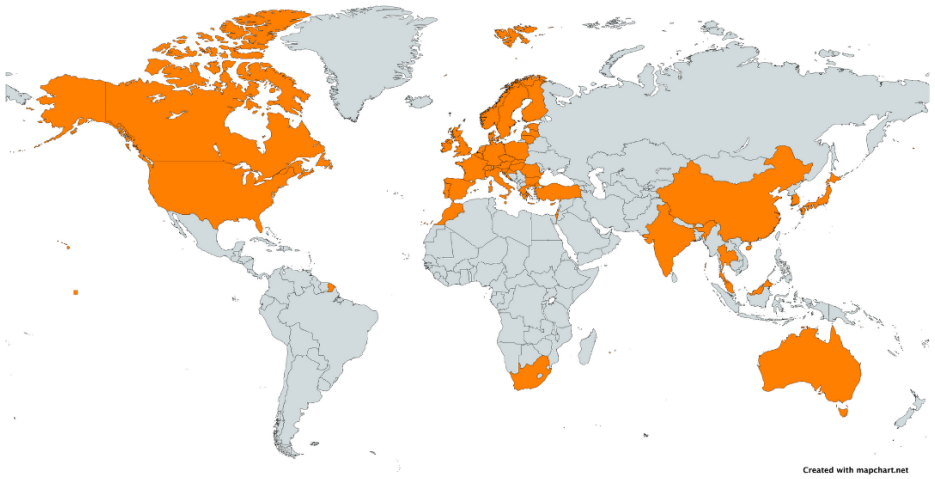
Overview

- What is IEA PVPS?
- Task 13 activities
- Task 13 deliverables

IEA PVPS in a nutshell

- One of 39 currently active Technology Collaboration Programmes within the IEA
- 32 years old – established in 1993
- 27 countries plus the European Commission and 2 Sponsors
- 9 active Tasks and 1 Action Group
- 34 reports published and 17 events organized in the past year
- ~400 participants across ExCo and all Tasks

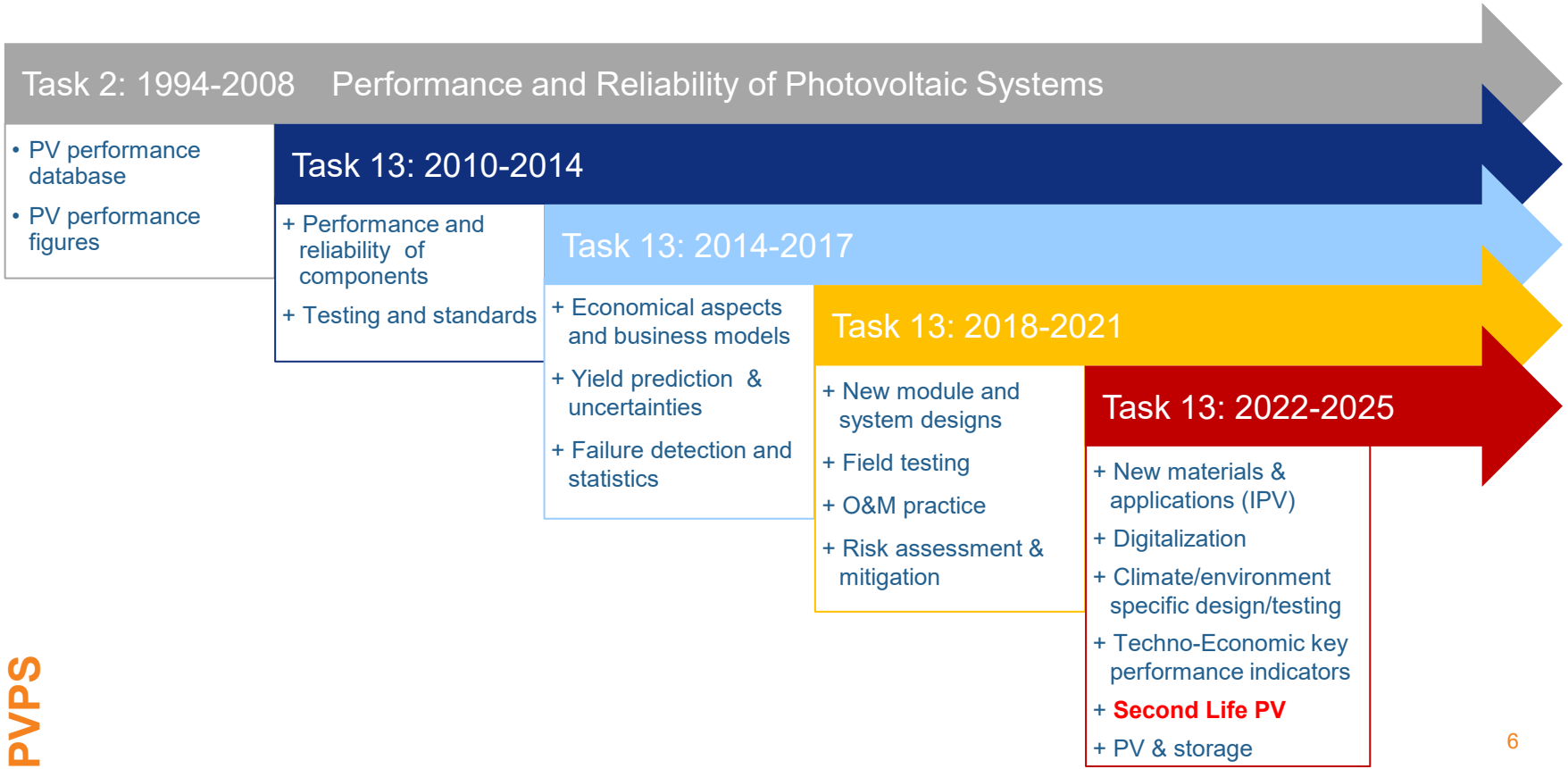
Our members



- Australia
- Austria
- Belgium
- Canada
- China
- Denmark
- Enercity
- European Union
- Finland
- France
- Germany
- India
- Israel
- Italy
- Japan
- Korea
- Malaysia
- Morocco
- the Netherlands
- Norway
- Portugal
- Solar Energy Research Institute of Singapore
- Solar Power Europe
- South Africa
- Spain
- Sweden
- Switzerland
- Thailand
- Türkiye
- United States
- United Kingdom

PVPS

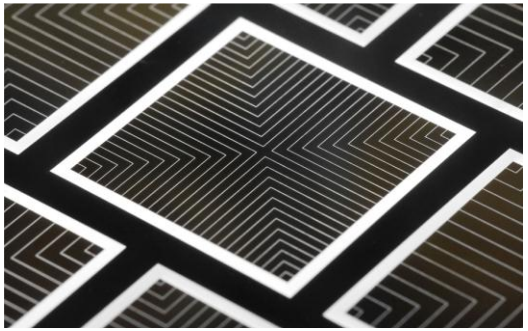
1. Task 13 Collaboration - History and Presence



Task 13: Reliability of novel PV materials, components and modules

PV Cells and Modules

- Degradations modes of new backsheet materials
- Degradation modes in new cell and module technology
- Impact of testing strategies under specific load conditions
- Review of PV module repair strategies
- Re-qualification & standardization of 2nd life PV



PV + Storage Systems

- Application-specific performance and degradation
- Estimating lifetime of PV + storage systems
- Guidelines for O&M of PV + storage systems
- Cost estimations for O&M of PV + storage systems

Reliability and Qualification of Second Life PV

PVPS Task 13 Workshop at EU PVSEC, Bilbao, 25 September, 2025

Ulrike Jahn
Welcome & Introduction

Gernot Oreski, PCCL
Overview of PV Module Repair Procedures

Ioannis Tsanakas, CEA-INES
Testing & Requalification of PV Modules for Reuse

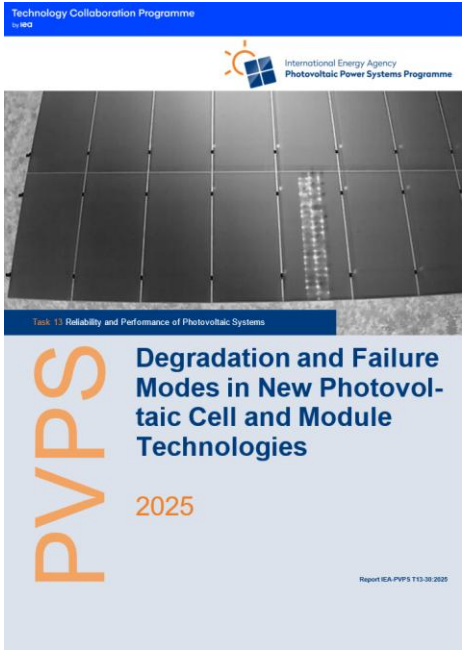
Luc Federzoni, Solreed
Extending the Lifespan of PV Modules via Repair/Reuse: Practices and Perspectives

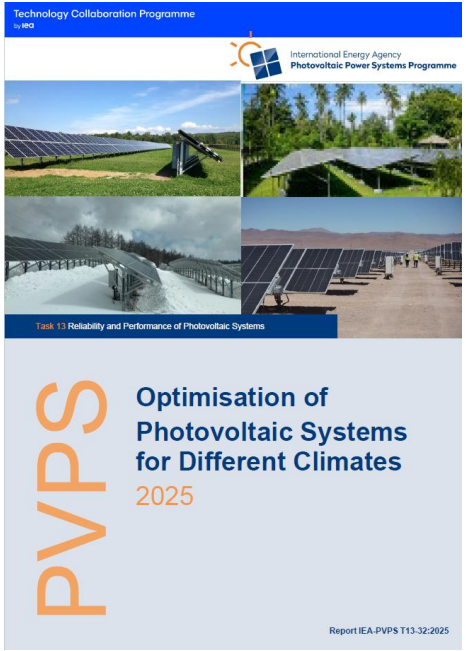
Simon Prüller, 2nd Cycle FlexCo
Reuse Needs Reliability: The Role of Fully Automated PV Testing & Repair

Panel Discussion & Wrap-Up

PVPS

Stay connected!





This report overviews currently known degradation modes and failures of PV module technologies and their mitigations.

The report explores strategies for enhancing the performance of PV systems in different climates.

Thank You

PVPS Task 13 Collaboration: 185 experts from 25 countries