

### TRAINING ACTIVITIES

### **Objectives**

The CACTUS workshop, organized as part of the European CACTUS project's final general assembly in the University of Granada, and open to all interested participants, was focuses on two critical dimensions: the social and sustainability aspects of photovoltaic deployment, and the unique climate-specific challenges faced across Europe and beyond in the Operation & Maintenance (O&M) of PV system.

The present file is dedicated to the first session of the workshop, focused on sustainability of PV. Thanks to experts within and outside CACTUS consortium, invited to join keynote presentations and panel discussions, the workshop was aimed to:

- Highlight the importance of integrating social perspectives and sustainability criteria into the design and implementation of photovoltaic systems in different geographical context, bringing the experience of on Europe and Latin America.
- Encourage knowledge exchange at international level, via collaboration and open access data and knowledge sharing.

### **DETAILED PROGRAMME:**

### 15:30 Opening Talks

- Welcome by UGR
- Introduction by EU-SOLARIS Sarah Essam
- Introduction to the CACTUS project Ioannis Tsanakas
- Keynote: EU-Latin America cooperation for a sustainable energy transition Organization of Ibero-American States

## 16:00 Session 1: Sustainability with Social and Environmental Aspects for the Energy Transition

Moderator: Delfina Muñoz

- Keynote 1 Prof. Nieves Espinosa
   Covers environmental, economic, and social sustainability of PV systems, including lifecycle impacts, equity, supply chain ethics, and circular economy.
- Panel Discussion Panelists:
   Cristina Polacchi (EURAC) / Nouha Gazbour (CEA) / Prof. Bilge Şentürk (ODTÜ-GÜNAM) / Felipe Valencia (ATAMOSTEC) / OEI representative / Nieves Espinosa

### 17:00 Coffee Break

# 17:30 Session 2: PV Deployment for the Energy Transition: Climate Resilience and Digitalization

Moderator: Ioannis Tsanakas (CEA)

- Keynote 2A Veronica Bermudez
   Climate-specific PV deployment and O&M strategies for extreme conditions: heat, flooding, dust, hailstorms, etc.
- Keynote 2B Sandra Gallmetzer (EURAC)
   Automation and Adaptation in PV Operation and Maintenance.





Panel Discussion – Panelists:
 Sandra Gallmetzer (EURAC) / Carmen Alonso (CIEMAT) / Hervé Colin (INES / CEA) / Felipe Valencia (ATAMOSTEC) / Veronica Bermudez

18:30 Closing Remarks & End of Workshop

#### Results

The CACTUS workshop successfully brought together a diverse group of experts and stakeholders to advance the dialogue on photovoltaics in the energy transition. The event opened with welcoming remarks from the University of Granada and introductions by EU-SOLARIS and the CACTUS project, setting the stage for a collaborative atmosphere. The keynote from the Organization of Ibero-American States underscored the importance of EU-Latin America cooperation for sustainable energy solutions, inspiring participants to consider global perspectives.

Session 1 focused on sustainability, with Prof. Nieves Espinosa's keynote providing a comprehensive overview of the environmental, economic, and social dimensions of photovoltaic systems. The presentation emphasized lifecycle impacts, equity, supply chain ethics, and the circular economy, sparking a lively panel discussion. Panelists—including Cristina Polacchi (EURAC), Nouha Gazbour (CEA), Prof. Bilge Şentürk (ODTÜ-GÜNAM), Felipe Valencia (ATAMOSTEC), and representatives from OEI—shared experiences and debated strategies for integrating sustainability into PV deployment. The session highlighted the need for transparent supply chains, community engagement, and policy frameworks that support equitable energy access.

The workshop concluded with session 2 (see reference file) and closing remarks, celebrating the active participation and rich exchange of ideas. Attendees left with a deeper understanding of the social, environmental, and technical challenges facing the energy transition, as well as practical strategies for advancing PV deployment in Europe and Latin America.

Linkedin post: CACTUS: post | LinkedIn

Post Views: 173

Pictures		





WORKSHOP



**4 November 2025** 

### **Photovoltaics in Energy Transition:**

Social/Sustainability Aspects and Climate-specific Challenges

Salón de Grados de Matemáticas Faculty of Science, University of Granada

Hybrid format: On site & Online

15:30 - 18:30

Free workshop open to everyone!





cactus-pv.eu

Figure 1 Virtual flyer of the event



Figure 2 Pictures of first session of panel discussions

**Training Activity** 

Hybrid Workshop - Photovoltaics in Energy Transition: Social/Sustainability Aspects and Climate-specific Challenges - sustainability session

Date

**Number of attendees** Place and country

04/11/2025

Online attendees - 21 in person

Hybrid\_University of Granada, Spain and online, hosted via Teams by BI





**Consortium Partners involved** 

**Additional Notes** 

CEA, ESRF, ILL, EURAC, TECNALIA, BI, ATAMOSTEC, EU SOLARIS, UNC

N/A



















© Members of the CACTUS Consortium