SOPHIA
European Research Infrastructure

Pre-Announcement

# 10th SOPHIA Workshop PV-Module Reliability

## May 28th – 29th, 2020
## Neuchâtel, Switzerland

### OBJECTIVES:

**REQUIREMENTS OF NEW AND UPCOMING PV APPLICATIONS FOR MATERIAL SELECTION AND RELIABILITY ASSESSMENT**

The École Polytechnique Fédérale de Lausanne EPFL (Switzerland) and the Fraunhofer Institute for Solar Energy Systems ISE (Germany) are proud to invite to the 2020 SOPHIA-workshop 'PV-Module Reliability' in Neuchâtel, Switzerland. The 2020 workshop will feature reliability aspects of innovative PV applications in service life prediction modelling and standardization. Aspects of the influence of reliability on sustainability will be presented and further information on the EU-Project SolarTrain provided.

The main topics of the upcoming workshop will be:

- **Bifacial modules**
  Bifacial modules are more and more present in the market and forecasts expect further growth of this technology in future. The special load conditions and related effects on materials and impacts on module reliability will be in the focus of this session.
- **Novel applications: special and innovative**
  New applications of PV modules and systems like floating PV, street integrated PV or Agro-PV come along with specific operational conditions and loads. How do these effect reliablity and how can the specific conditions be addressed?
- **Advancements in lifetime modelling**
  How can reliability and degradation models be improved to predict the development of PV modules and plants?
- **Sustainability**
  Interdependence of Reliability and Sustainability and legislative effects, including the outcomes of the EU EcoLable preparatory study.
- **Recent failure mode testing**
  Recent failure modes like LeTID call for adapted testig to be developed and validated.

For more information please visit the workshop's website:

**www.pv-reliability.com**

Fraunhofer ISE

EPFL

**Organizer**
Fraunhofer ISE, Dr. Karl-Anders Weiß

**Host**
EPFLL, Dr. Alessandro Virtuani

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