



INES-CEA research laboratories guided tour. Presentation of ECoVEM curricula

Tuesday 29th of March 2022

Report on Dissemination activities in the framework of ECoVEM project

Author: Jean-François Lelièvre – INES Formation P12

Following a previous Dissemination event (Science celebration days organised by INES in October 2021 – see corresponding report), professors from INP-Phelma engineering school (Grenoble, France) asked INES to organize an additional guided tour through INES-CEA and INES-PFE facilities (research laboratories and training platforms). The tour took place for 3 hours on the 29th of March and was held in English for **18 students of different engineering specialities (micro- and nano-technologies; energy; materials) and their respective teachers.**

Firstly, a short conference on the fabrication process of photovoltaic (PV) cell and modules was organized, during which **ECoVEM** project was presented. The **new curricula in Solar Photovoltaics developed in the framework of ECoVEM were introduced to the audience**, with the objective of **including such courses in the next year education program of INP-Phelma engineering school.**



After the conference, the students were guided through INES-CEA research laboratories, covering the whole value chain of PV manufacturing process, from silicon crystallization to PV systems, going through PV cell and PV module labs. Afterwards, the tour continued through INES-PFE training platform, which completed the overview on the variety of skills and jobs related to photovoltaic energy.



This conference has been an opportunity to respond to four objectives:

- discover the latest scientific innovations in Photovoltaics;
- present both scientists' and trainers' work;
- take ownership of the scientific and technological challenges related to solar photovoltaics and its synergies with microelectronics;
- stimulate interest and generate vocations in scientific careers in photovoltaics and microelectronics engineering.

Discussions with students and professors were fruitful, and **meetings are scheduled with the teaching staff of INP-Phelma engineering school for the future implementation of ECOVEM trainings in their educational program in 2023.**



Picture of silicon photovoltaic solar cell pre-industrial line at INES-CEA