Technical teachers’ training in Photovoltaics

Intensive ECoVEM course on “Photovoltaic cells and modules fabrication process: Trends & Perspectives at research and industrial levels”

On the 27th of April 2023, in association with “CMQ Smart Energy Systems Campus” and “Institut Smart Grids”, INES-PFE (INES Formation) delivered an intensive ECoVEM training to 17 high school teachers (EQF 4-5) from all over France. These teachers are specialized in Physics, Technology or Science education and are working either in senior high schools or in vocational schools.

As an introduction, the ECoVEM project was presented in details. The objective of this training was to present the trends and advances in photovoltaic (PV) research and industry, at both global and European levels. In addition to theoretical lessons (4h), two guided tours were included during the day: one through INES-CEA research laboratories (PV cells, modules and systems laboratories – 2h) and another through INES-PFE educational training platform (1h).

Such teacher’s training contributes to the goals of ECOVEM project, aiming at strengthening skills in microelectronics at European level, INES-PFE being particularly active in supporting the strategic sector of the PV industry.
Indeed, teachers’ training in these cutting-edge technologies is essential for them to raise awareness among their students about future career opportunities, thus fostering vocations and supporting the urgent comeback of the PV industry in France and in Europe. Following this course, various teachers showed an interest in implementing a collaboration with INES-PFE to include ECoVEM courses or dissemination events in their curricula.
Similar training are also delivered by INES-PFE to students, with 159 young people trained to date, since mid-2022 (which will be described in details in T4.1 Pilot Test final report):

- **University Institute of Technology** specialized in **Physics and Instrumentation** (Annecy) 3-year Higher Education diploma – Technician profile (80 students - EQF5)
- **USMB Solar Academy** (Chambéry) – **Master 2 program** “Energy for buildings and solar cities” in English (28 students - EQF6-7)
- **USMB-INES** (Chambéry) – “Energy for buildings and solar cities” **Continuous VET Master 2 program** (9 students - EQF6-7)
- **INP-Phelma** Materials and Microelectronic engineering school (Grenoble) – **Master 2 program** (10 students - EQF7)
- **ENSAF** (Chambéry) – “Sustainable building” **Continuous VET Master 2 program** (12 students - EQF6-7)