



SOLAR ENERGY TO TACKLE THE CLIMATE CHANGE

With a 56% increase in world energy demand anticipated from 2010 to 2040, solar energy technologies are expected to play a significant role. Through passive applications and power generation, solar energy is vital for the energy transition needed to respond to climate change, rising population, energy security, water scarcity, economic growth and increasing urbanization. Indeed, being abundant and diffuse, the solar resource is particularly well suited to the building sector.

The challenge is to transform this potential into real power generation.

SOLAR ACADEMY GRADUATE SCHOOL

Solar Academy Graduate School is located on the INES campus in Savoie, France. INES (National Institute for Solar Energy) is a platform for research in Solar Energy (100 M€ invested in 10 years) with 450 employees working at INES in 2019 (about 350 at CEA and 100 at USMB/CNRS).

The mission of the Solar Academy is to become a national and international leader in scientific research, engineering, business, economy and law for a model of low-carbon distributed generation and consumption. Central to its organization is a multidisciplinary approach to enable the large-scale utilization of the solar energy resource. The Solar Academy combines practice and theory in the areas of solar and building physics, scientific computing, material science, business, law, sociology architecture and urban planning.

Research activities will be structured along 3 scientific axes: solar resources for multiscale energy needs; solar resource digitalization; disseminating solar energy use in the built environment.

SOLAR ACADEMY INTERNATIONAL SCHOOL OF EXCELLENCE

OUR ORGANIZATION AND PARTNERSHIP

- Consortium : USMB, CNRS, CEA
- INES research platform
- 8 research labs involved
- 5 training structures
- Doctorals school
- International network including renowned research centers in Asia, Australia, America, Canada, Europe, etc.

OUR SCHOOL - MASTER / PhD

- Master's curricula **Science and Technology and Economics, Law, Humanities**
- Multidisciplinary approach
- Theory and practice in the built environment
- Education through research projects
- Peer-to-peer coaching, common seminars, workshops and mixed-level team projects (Master/PhD).
- Tutoring and mentoring
- Outstanding research activities in solar resources
- Close connection with industry
- Broad international mobility opportunities
- Scholarships



MASTER DEGREE
Master Energy and Solar Buildings
Energy efficiency and buildings solar energy integration (**ESB Master**)

OPEN NOW

OPEN IN 2021

Master Solar Energy : engineering and economics

- ESBC : Energy for Solar Buildings and Cities
- SoLEM : Solar Energy, Law, Economics and Management

PHD

OPEN NOW

Comprehensive Approach of Solar Integration in Built Environments

