

Get inspired by our course

to make solar buildings!

Case Study Building tour

Introduction to Solar Architecture Universidad Politécnica de Madrid

DAY 3
Company Atelier
Onyx Solar





11/04 2025

9,10,11 **APRIL**

Seamless-P

DAY 1-2

WHERE?

Arquitectura de Madrid 4, Moncloa - Aravaca, 28040 Madrid

DAY 3

ONYX SOLAR ENERGY

C/Palma de Mallorca,



09:00 - 9:30

Welcome, course introduction 09:15 - 09:45 Photovoltaics:

from function to beauty

09:45 - 10:30

Sun as a building material: case studies of solar architecture

Break

10:50 - 11:20

BIPV and Architecture Solar Technology Fundamentals: principles of photovoltaics, solar cell & modules, BIPV design essentials

11:20 – 11:50

Simulation and modeling: processes and workflows for solar potential analysis and BIM-based modelling

11:50 – 12:15

Market Drivers and businesses to promote the transition to solar buildings in Spain

12:15 - 13:00

BIPV experimental showroom tour: developed as part of the ongoing research project RINGS-BI-PV

Lunch

14:00 - 14:45

Activity! Strengths and Challenges of BIPV

14:45 - 15:00

BIPV & innovation: advanced manufacturing for the real market in SEAMLESS-PV: product innovations

15:00 – 15:30

Business models for BIPV: is there a value of beauty? Vision from 20 years of solar buildings

Break

15:45 - 16:15

BIPV performance: The energy-related behavior -thermal, solar, optical and electrical aspects.

15:15 -16:45

Hints on quality and product certifications: technical requirements and current regulations

16:45 –17:15

Cost-effectiveness: competitiveness of investments and life-cycle costs



09:00 - 09:15

Welcome and brief introduction to the day

09:15 - 10:30

Case study 1 Break

11:15 - 11:30

Case study 2

11:30 - 12:30

Activity! Case Study Mapping her materials, challenge in building process

13:00 - 13:30

Case Study/introduction INCREA-SE project: innovations in photovoltaic urban furniture

Lunch

14:00 – 16:30

Building tour visits: Castellana 66 and Campus Acciona



10:00 - 10:15

Welcome and brief introduction to the day

10:15 - 11:15

Onyx: factory visit

11:15 - 11:30

Transfer to Catholic University of Ávila (UCAV)

11:30 - 12:00

Building tour: UCAV project

12:00 - 13:00

Case Study: UCAV project: building intro, concept, overview, design and site, relevance to BIPV, importance of seamless integration, benchmark with other materials, challenge in building process

13:00 - 13:30

Case Study/introduction INCREA-SE project: innovations in photovoltaic urban furniture

Lunch