



# Integrated Photovoltaics Conference

Meet the Experts in  
Photovoltaic Integration

Thursday 28<sup>th</sup> November 2024

Auditorium di Santa Apollonia

 via San Gallo, 25  
Firenze



[ipv-conference.com](http://ipv-conference.com)

Organised by **etaflorence** \* **renewableenergies**

# We look forward to welcoming you in Florence



Auditorium Sant'Apollonia, via San Gallo 25, Florence.

The conference is free and open to all upon [registration](#).

*La partecipazione al Convegno prevede il riconoscimento di 4 CFP della Fondazione Architetti Firenze.*

*Per maggiori informazioni scrivere a [info@ipv-conference.com](mailto:info@ipv-conference.com)*

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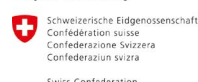
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Main Auditorium

08:15	Badge pick-up	
09:00	Welcome and Opening Remarks	
09:30	BIPV in the Construction Sector: Advancing Beyond the Current State of Play	
10:45	Coffee break	
10:55	Innovative approaches in solar architecture: Harmonizing aesthetics and functionality in BIPV	Sala Poggetti
11:35	European Industry Actors in BIPV: Solutions, challenges, and the path forward	 Dalle aree non idonee alla pianificazione paesaggistica regionale: una sfida per i sistemi agrivoltaici in Toscana
12:45	Lunch break	Pranzo
13:45	Agrivoltaics: Transitioning from demonstration projects to utility-scale systems	 Esperienze e sfide per il BIPV in Italia
14:50	Advancing integrated PV in Europe: short presentations from the "Call for Projects" - Part 1	
15:50	Coffee break	
16:00	Advancing integrated PV in Europe: short presentations from the "Call for Projects" - Part 2	
17:15	Closing session	
17:35		

# Programme *Status of 30 Oct 2024*

Main Auditorium

## 08:15 - 9:00 Badge collection

## 09:00 – 09:30 Welcome and opening remarks

Giulio Poggiaroni, ETA-Florence

Pierluigi Bonomo, SUPSI

**Welcome and Introduction to the Conference and the EU Solar Buildings Platform**

### Address by Authorities

Maria Getsiou, European Commission, Directorate General for Research and Innovation

**Institutional message**

Daniel Valencia Caballero, Tecnalia

**Overview of the four IPV sectors: buildings, agriculture, infrastructures, vehicles**

## 09:30 - 10:45 BIPV for the construction sector: action points beyond the state of play

Emerging trends and future directions in solar architecture

Key challenges to market expansion

Strengthening collaboration among developers, architects, engineers, and policymakers

Upskilling for the renovation wave

### Moderated by

Spyros Mathioudakis, European Builders Confederation

Heinz Ossenbrink, ETA-Florence, Former European Commission JRC

### Speakers

Clare Morin, Solarpower Europe

Stephanè Garson, Akuo & Sunstyle

Michela Barosio, European Association for Architectural Education-EAAE

Dieter Moor, Arconsol

Jean-Didier Steenackers, Sunsoak

## 10:45-10:55 Coffee break

## 10:55 - 11:35 Empathic architecture: a bond between sustainability and beauty

Lori Zillante, MCA – Mario Cucinella Architects, will deliver a keynote on the evolving link between sustainability and beauty in architecture, emphasizing solar photovoltaic (PV) integration.

By incorporating PV as a design element, solar tech can enhance both form and function. The talk will outline MCA's vision for sustainable architecture, highlighting examples of how PV and other green technologies can integrate seamlessly into building design as part of the whole architectural concept.

### Introduction

Pierluigi Bonomo, SUPSI

**Keynote**

Lori Zillante, Architect &amp; Engineer, R&amp;D Unit Manager - MCA-Mario Cucinella Architects

**11:35 - 12:45 European Industry Leaders in BIPV:  
Solutions, Challenges, and the Path Forward**

In this session, we will highlight key market trends and data in the BIPV sector. This overview will be followed by presentations from three prominent European industry leaders, who will share their solutions, experiences, and perspectives on the challenges currently facing the BIPV industry and discuss potential paths forward.

**Moderated by**Philippe Macè, Bequerel Institute  
Lara Morandotti, PV Magazine**Speakers**Kai Buntrock, Autarq GmbH  
Marcus Bäckmann, 3S-Swiss Solar Solutions  
Werther Cambreu, Tecnalia**12:45 - 13:45 Lunch****13:45 - 14:45 Agrivoltaics: transitioning from demonstration projects to  
utility-scale systems**

Experiences of agrivoltaics across Europe, the synergy between energy generation, food production and landscape protection

**Moderated by**

Paolo Picchi, ETA-Florence

**Speakers**Angelo Pignatelli, Symbiosyst project  
Arturo Ramos Fuente, Sun'Agri  
Jerome Lintz, Next2Sun**14:50 - 15:50 Advancing Integrated PV in Europe: Project Highlights from the  
'Call for Projects' - Part 1****Moderated by**

Heinz Ossenbrink, ETA-Florence, Former European Commission JRC

**Presentations organized by Theme****Agrivoltaics**Mariangela Latino, CNR  
**Innovative bifacial agrivoltaics for Urban systems**  
Selçuk Yerci, Center for Solar Energy Research and Applications  
**PV4PLANTS project**

## Built environment

Nicola Baggio, Futura Sun

**Colored photovoltaic modules for highly integrated project**

Paulius Laurikėnas, Solitek R&D

**Solitek PV noise barriers pilot project, performance and cost evaluation**

Wilfried van Sark, Utrecht University

**BIPV in the Inside Out project, a plus energy retrofit of a high-rise apartment building**

Claire Morin, SolarPower Europe

**INCREASE project**

## Resource efficiency

Alessandro Virtuani, CSEM

**Carbon intensity of BIPV**

Florian Ollagnon, EPFL

**Colouring solutions for BIPV**

Akexa Lutzenberg, INIW

**Resource efficiency with BIPV in construction**

## 15:50-16:00 Coffe break

## 16:00-17:15 Advancing Integrated PV in Europe: Project Highlights from the 'Call for Projects' - Part 2

**Moderated by**

Heinz Ossenbrink, ETA-Florence, Former European Commission JRC

## Components

Fabrizio Leonforte, Politecnico di Milano

**Building-integrated photovoltaics in existing buildings: a novel PV roofing system**

Chiara Bedon, University of Trieste

**Challenges and gaps in modelling the thermo-mechanical performance of glass-glass BIPV modules exposed to fire accidents**

Rainer Grischke, Meyer Burger

**Meyer burger solar roof tile with SHJ tunnel-IBC cell technology**

Hossein Ebadi, Politecnico di Milano

**ATTRACT project**

Rafael Pardo Lloría, Flexbrick

**Prefabricated big format BIPV flexible ceramic panels for architectural envelopes**

César Dominguez, Instituto de Energia Solar

**A semi-translucent building-integrated PV module based on integrated tracking micro-concentration providing high power density and daylight management**

John Morello, Freesuns

**Solar roof tiles for a seamless integration of BIPV into heritage and listed buildings**

## **Modelling**

Massimo Plazzer, Province of Trento

**3D Solar: large-scale and detailed estimation of the photovoltaic energy potential of the Trentino Province available on the public webgis**

Chen Jiawei, Politecnico di Milano

**Development of a large-scale digital twin model for predicting crop yield in agrivoltaic systems: a case study in Lombardy, Italy**

Bruno Bueno, Fraunhofer & Saptak Ghosh, CSTEP

**Potential assessment of building integrated photovoltaics in India**

## **17:15-17:35 Closing session**

**Survey on Barrier Mapping for Integrated Photovoltaics**

**The EU Solar Building Platform: Mission, Members, and Future Initiatives**

**Conclusions and farewell**

### **Speakers**

Giulio Poggiaroni, ETA-Florence

Pierluigi Bonomo, SUPSI

## Programma, sessioni in italiano

*Sala Poggetti*

In parallelo alle sessioni in inglese in Auditorium, si terranno due sessioni in italiano nella sala Poggetti.

### **11:45 - 12:45 Dalle aree non idonee alla pianificazione paesaggistica regionale: una sfida per i sistemi agrivoltaici in Toscana**

Le regioni italiane stanno ancora recependo gli ultimi aggiornamenti legislativi sull'agrivoltaico e aggiornando il loro quadro normativo, tra loro anche la Toscana. L'agrivoltaico comincia ad apparire come strumento per le aziende agricole, ciò nonostante non è sempre inquadrato come elemento detrattivo del paesaggio.

Alla luce della Convenzione dell'Europa per il paesaggio, siglata a Firenze nel 2000, obiettivo dell'evento è aprire spunti di riflessione sui sistemi agrivoltaici quali strumenti utili alle aziende agricole e con ricadute positive per gli obiettivi di qualità paesaggistica definiti dal PIT della Regione Toscana.

Quando i sistemi agrivoltaici entreranno nella pianificazione paesaggistica regionale?

#### **Moderato da**

Paolo Picchi, ETA-Florence

#### **Interverranno**

Assessorato all'Agricoltura, Regione Toscana

DIDA Dipartimento di Architettura Unifi, socio AIAPP

Rappresentanti associazioni di categoria e aziende

### **13:45 - 14:45 Esperienze e sfide per il BIPV in Italia**

Il fotovoltaico integrato negli edifici è una grande opportunità per il nostro paese di raggiungere gli obiettivi fissati nel PNIEC nonché i più ambiziosi obiettivi europei al 2050.

Il patrimonio immobile italiano può contribuire significativamente in tal senso, per questo motivo aziende produttrici, architetti, aziende dell'edilizia e decisori pubblici devono unire le forze verso una progettazione condivisa.

In questa sessione racconteremo varie esperienze, di attori diversi, nel settore BIPV in Italia alimentando poi una discussione tra i partecipanti sulle barriere e le opportunità per lo sviluppo di questo settore.

#### **Moderato da**

Lara Morandotti, PV Magazine

#### **Interverranno**

Laura Maturi, EURAC Research

Casa spa

Claudio Pirotta, PIZ srl

Cooperativa GFF (ex GKN)

CNA e Confartigianato