



Integrated Photovoltaics Conference

Meet the Experts in
Photovoltaic Integration

Thursday 28th November 2024

Auditorium di Santa Apollonia

 via San Gallo, 25
Firenze



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 dell'Ordine degli Architetti di Firenze, e il riconoscimento di 6 CFP dell'Ordine degli Ingegneri di Firenze. Per gli ingegneri, la richiesta di accreditamento va fatta iscrivendosi al seguente link: firenze.ing4.it

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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	Sala Poccetti	
10:55	Innovative approaches in solar architecture: Harmonizing aesthetics and functionality in BIPV	 Dalle aree non idonee alla pianificazione paesaggistica regionale: una sfida per i sistemi agrivoltaici in Toscana	11:00
11:35	European Industry Actors in BIPV: Solutions, challenges, and the path forward		12:45
12:45	Lunch break	Pranzo	12:45
13:45	Agrivoltaics: Transitioning from demonstration projects to utility-scale systems	 Esperienze e sfide per il BIPV in Italia	13:45
14:50	Advancing integrated PV in Europe: short presentations from the "Call for Projects" - Part 1		14:50
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 27 November 2024*

Main Auditorium

08:15 - 9:00 Badge collection

09:00 – 09:30 Welcome and opening remarks

Giulio Poggiaroni, ETA-Florence, Italy

Pierluigi Bonomo, SUPSI, Switzerland

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

Paola Galgani, Deputy Mayor of Florence, Italy

Address by Municipality

Massimo Mazzer, CNR, Rete italiana del fotovoltaico per la ricerca, lo sviluppo e l'innovazione, Italy

Italian Photovoltaic Network for Research, Development, and Innovation

Roberto Bologna, DIDA Department of Architecture, University of Florence

Address by SITdA, The Italian Society of Architectural Technology

Daniel Valencia Caballero, Tecnalia, Spain

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, Belgium

Speakers

Pau Garcia Audí, European Commission, Directorate-General for Energy Efficiency

Lorenzo De Simone, Joint Research Centre - New Bauhaus Initiative

Claire Morin, Solarpower Europe, Belgium

Stephanè Garson, Akuo & Sunstyle, France

Michela Barosio, European Association for Architectural Education-EAAE, Belgium

Dieter Moor, Arconsol, Austria

Jean-Didier Steenackers, Sunsoak, Belgium

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, Switzerland

Keynote

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

**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.

Introduced and moderated by

Philippe Macé, Bequerel Institute, Belgium

Lara Morandotti, PV Magazine, Italy

Speakers

Kai Buntrock, Autarq GmbH, Germany

Marcus Bäckmann, 3S-Swiss Solar Solutions, Switzerland

Werther Cambarau, Tecnalía, Spain

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, AIAPP - Associazione Italiana di Architettura del Paesaggio, Italy

Speakers

Angelo Pignatelli, EF Solare Italia, Italy

Arturo Ramos Fuente, Sun'Agri, France

Jerome Lintz, Next2Sun, Germany

**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, Italy

Innovative bifacial agrivoltaics for Urban systems

Selçuk Yerci, Center for Solar Energy Research and Applications, Turkey

PV4PLANTS project

Built environment

Nicola Baggio, Futura Sun, Italy

Colored photovoltaic modules for highly integrated project

Paulius Laurikėnas, Solitek R&D, Lithuania

Solitek PV noise barriers pilot project, performance and cost evaluation

Wilfried van Sark, Utrecht University, The Netherlands

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

Claire Morin, SolarPower Europe, Belgium

INCREASE project

Modelling

Massimo Plazzer, Province of Trento, Italy

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, Italy

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

Bruno Bueno, Fraunhofer, Germany & Saptak Ghosh, CSTEP, India

Potential assessment of building integrated photovoltaics in India

15:50-16:00 Coffee 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, Italy

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

Chiara Bedon, University of Trieste, Italy

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

Rainer Grischke, Meyer Burger, Switzerland

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

Hossein Ebadi, Politecnico di Torino, Italy

ATTRACT project

Rafael Pardo Lloría, Flexbrick, Spain

Prefabricated big format BIPV flexible ceramic panels for architectural envelopes

César Dominguez, Instituto de Energia Solar, Spain

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

John Morello, Freesuns, Switzerland

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

Resource efficiency

Alessandro Virtuani, CSEM, Switzerland

Carbon intensity of BIPV

Florian Ollagnon, EPFL, Switzerland

Colouring solutions for BIPV

Alexa Lutzenberg, INIW, Germany

Resource efficiency with BIPV in construction

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, Italy

Pierluigi Bonomo, SUPSI, Switzerland

■ ■ Programma, sessioni in italiano

Sala Pocetti

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

11:00 - 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, Socio AIAPP

Interverranno

Stefania Saccardi, Vicepresidente della Regione Toscana, Assessore all'Agricoltura

Raffaella Bisconti, Sun'Agri Italia Srl

Gabriele Paolinelli, DIDA Dipartimento di Architettura Unifi, Portavoce AIAPP - Associazione Italiana di Architettura del Paesaggio

Marco Neri, Presidente Confagricoltura Toscana

Angelo Pignatelli, EF Solare Italia, Symbiosyst Project

Massimo Plazzer, Provincia Autonoma di Trento

13:45 - 15:00 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

Lucia Montoni, Eta-Florence, DIDA-Dipartimento di Architettura UNIFI

Interverranno

Massimo Mazzer, CNR, Rete italiana del fotovoltaico per la ricerca, lo sviluppo e l'innovazione

Laura Maturi, EURAC Research

Marco Barone, Casa spa

Claudio Pirotta, PIZ srl

Carlo Zuccaro, Cooperativa GFF (ex GKN)

Diego Prati, CNA, Responsabile Installazione Impianti di CNA Nazionale

Romano Mati, ANAEPa-Confartigianato, Installatori Impianti Elettrici

Gabriele Giusti, ANAEPa-Confartigianato, Termoidraulici e Manutentori