



**INTERNATIONAL**

## INVITED SESSION SUMMARY

**Title of Session:** Building integrated photovoltaic solutions towards zero energy buildings.

**Name, Title and Affiliation of Chair:**

George E. Georghiou, Prof., University of Cyprus, Wilfried Van Sark, Prof., Utrecht University

**Details of Session (including aim and scope):**

This session aims to provide to the participants of SEB20 with building integrated photovoltaic (BIPV) solutions that consist of photovoltaic elements, which substitute conventional construction materials, in an effort to reach zero energy buildings.

The scope of this session includes work that is related to:

- Real-world case studies of BIPV applications, including performance reporting.
- Electrical and thermal analysis of BIPV systems.
- Grid connection of the BIPV elements and load management.
- Lifetime testing for BIPV elements integrated in the building envelope.
- Novel designs of aesthetically pleasing BIPV solutions.
- 3D planning tools and examples of new and renovation buildings and districts.
- Economic analysis and market potential for BIPV.

The session will provide opportunities for researchers, architects, designers, system and building developers, and other stakeholders to present and review theoretical and applied work in the design, development, optimisation, integration and operation of BIPV systems.

We thus, invite authors to submit original research and case studies on the latest developments and innovations in BIPV technologies.

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):**

University of Cyprus - FOSS, Utrecht University, Solar Energy Application Centre (NL), SUPSI (CH), FHTW (AT), Główny Instytut Górnictwa (PL), ML System (PL), EURAC, Italy

**Website URL of Call for Papers (if any):**

**Email & Contact Details:**

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