

IEA PVPS Task 15 Workshop

“BIPV in the BIM-based building process”

10th May 2022 (13:15 - 16:30)

This workshop session focuses on the design and construction of BIPV buildings when BIM-based processes are implemented. The workshop has a twofold aim: on the one hand, to get the main lesson learned and opportunities provided by BIPV BIM-based processes implemented in actual buildings and research projects on BIM-BIPV, and on the other hand, to collect challenges that arose in such processes that need to be solved to support the AEC sector for an effective and seamless BIPV adoption. Beyond that, thanks to the perspectives and experiences of different stakeholders working with BIM and BIPV from the building sector, we aim to establish a common ground and possible fields of cooperation.

The workshop will be organized with presentation sessions from invited experts from the field and as a collaborative discussion among the IEA PVPS Task15 participants and relevant stakeholders in BIM and BIPV digital processes.

Programme of the Workshop

13:15 Welcome and introduction of the workshop

13:30 – 14:15 First Session

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| • IPV Austria Award : Winter Plus Energy Building project (CH) | Nadia Vontobel Architekten |
| • IPV Austria Award : Bahnsteig Matzleinsdorferplatz project (AT) | Architekturbüro Reinberg |
| • “Vitality District” Research Project | Mattia Dallapiccola (EURAC) |

13' ppt + 2' for one question, for each contribution

14:25 – 14:55 Second Session

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| • A BIM approach for BIPV towers in Milan (IT) | Andrea Vanossi (CMB) |
| • BIM standardisation International & Europe | Architekturbüro Kompolschek |

13' ppt + 2' for one question, for each contribution

14:55 – 15:10 Coffee Break

15:20 – 16:30 Discussion session

- Guidelines for the discussion – SUPSI
- Group creation and roundtable internal discussion
- Plenary discussion

Location of the Workshop

The workshop will be held in hybrid mode (in presence and online).

- **Online attendance please contact: francesco.frontini@supsi.ch**

Preview of topics/aspects to be discussed during the workshop

1. BIPV and BIM approach

How can a BIPV project benefit from the adoption of the BIM approach? What is needed to make BIM ready for BIPV? And how can research contribute to this?

2. Custom tools and workflows vs "predefined" software for BIPV, in relation to BIM

*Which strategy is the best for the different stages of the BIPV building development process?
Which strategy is the best for the BIM environment?*

3. BIPV products/elements and BIM

*Where do you see the best chances for adopting a standard BIM definition of BIPV product?
Which are the important aspects of BIPV products to consider for BIM projects?*