IBPSA Project 2
Online meeting: Task 1 – Events & Project BOPTEST+

17/12/2025

Attendees:

Name	Affiliation
Bertrand Kerres	Terion, Denmark
David Blum	LBNL, USA
Ettore Zanetti	LBNL, USA
Jaap Neven	KU Leuven, Belgium
Javier Arroyo	Wedoco, Spain

Agenda.

- Events, workshops, and presentations [10 min]
- Website and other media [10 min]
- Project BOPTEST+ [35 min]
- Miscellaneous [5 min]

Events, workshops, and presentations.

- **2025/05/13 → Presentation at the Building Digital Twin International Congress**.
- **2025/06/02 → BOPTEST v0.8.0 released**.
- **2025/06/11 → 4th Project 2 research webinar at IBPSA Webinar Series**.
- **2025/08/24 → BS2025 in-person meeting and workshop**.
- **2025/08/24 → BS2025 papers on software and test cases**.
- **2025/11/18 → BOPTEST v0.9.0 released:** addition of a major new large-office test case and further improvements to the BACnet interface. No backward incompatibilities in this release.

Others? → **2025/06/21 → ASHRAE Summer conference:** paper presentation about workforce training (see here).

Website and other media.

Routine website maintenance continues, mainly focused on keeping meeting minutes and release-related content up to date. It is agreed that a short LinkedIn post highlighting the v0.9.0 release and the new test case would be beneficial to increase visibility.

Project BOPTEST+

An update is given on the status of the Horizon Europe proposal preparation, with a target deadline in mid-February 2026. The consortium structure is actively being consolidated. Recent partner additions: dnergy and Climify.

Several candidate pilot sites are discussed. These include residential living-lab buildings, educational facilities, and a potential district-scale pilot. The discussion highlights the importance of selecting pilots that remain strongly aligned with the core objectives of the call, particularly advanced HVAC control, energy flexibility, and system integration, while avoiding excessive focus on peripheral domains.

From a technical standpoint, the proposal is structured around the development of pilot-specific BOPTEST test cases and a more systematic toolchain that links heterogeneous building information (e.g. drawings, metadata, and operational data) to semantic models, Modelica models, and finally executable BOPTEST test cases. This approach is seen as a key innovation element, supporting both scalability and societal readiness by reducing the effort required to adopt advanced control methods in real buildings.

Additional topics that could be mentioned in the context of the proposal to support BOPTEST developments include: support compilation and FMU generation with OpenModelica, the definition of meaningful per-building KPIs in district models, the integration of pricing or billing signals at district level, emulation of sensor uncertainty, and potential refactoring or modularization efforts to make BOPTEST easier to deploy and maintain at scale.

Actions

Javier to schedule a follow-up meeting.