WORKSHOP – Tuesday 7th June 2016

Outdoor full-scale test facilities for envelope components : how to get the best from them?



Outdoor full-scale test facilities aim at reducing the gap between design phase and real buildings energy consumptions. With dynamic numerical simulation, these facilities allow to assess the performances of envelope components, systems or whole building. They are complementary tools permitting to validate simulation models, specifically developed for new and innovative components (ex. adaptive facades). Test facilities also largely contribute to the widespread of new technologies in the construction market, by showing real scale integration.

CEA-INES is currently building a new facility named FACT (FACade Tool) on its experimental platform that counts today 4 test cells (PASSYS), 4 houses and 10 roof benches. This new versatile tool will be dedicated to building envelope components testing: opaque and transparent elements, light-weight and massive façades, different thickness (from 10 to 60 cm) and heights (up to 8 m) and different geometry of the indoor environment.

Scope of the workshop is to create the opportunity to exchange around best practices and our common experiences of this kind of facility.

Contact & registration: Lorenza BIANCO lorenza.bianco@cea.fr +33(0)4 79 79 29 07

HELIOS Building - INES Savoie Technolac 50 avenue du lac Léman 73375 Le Bourget du Lac France





9:00 Registration Lynx 3

9:30 - 10:00 Welcome

CEA-INES activities presentation Olivier Flechon (Head of energy and building division – CEA) Lynx 4 – room 302

10:00 - 10:30

New test facility description: FACT Lorenza Bianco (post-doc researcher - CEA) Lynx 4 - room 302

10:30 - 11:30

Presentation of participants and their facilities Lynx 4 – room 302

11:45 – 12:30 FACT on-site visit Patrice Schneuwly

12:30 – 13:30 Lunch Helios building

13:30 - 14:30

IEA Annex 58: feedback and new annex project Hans Bloem (Joint Research Centre - Renewable Energy Unit) Lynx 4 - room 302

14:30 - 16:30

Discussions and brainstorming around best practices for use of full-scale test facility – working group around specific topics *moderator Virginie Renzi* (Head of building envelope lab. – CEA) Lynx 4 – room 302

16:30 – 17:00 Visit of the buildings division facilities

17:00

Visit of INES site (PV fabrication, PV modules, battery testing)



