

26-30 SEPTEMBER 2022

EUROPEAN SUSTAINABLE ENERGY WEEK

Going green and digital
for Europe's energy transition



'From Net Zero to Plus Energy Buildings: designing buildings for climate and cultural diversity'

Cultural-E
Mid-term conference



Date: 28 September 2022,
11:00 – 14:00 CET

'Unlock the value of Positive Energy Buildings and Neighbourhoods'

**Open workshop co-organised
with sister projects**



EXCESS

Date: 28 September 2022,
14:00 – 15:30 CET

Location: Confindustria EU Delegation
[Avenue de la Joyeuse Entrée 1](#)
[1040 Brussels, Belgium](#)

A Positive Energy Building (PEB) produces more energy than it consumes, and feeds RES (Renewable Energy Sources)-based energy to the grid. Thus, PEBs constitute a more ambitious step than Zero Energy Buildings since they help to reduce the carbon footprint also from neighbouring buildings: they can support e.g. older buildings, where the transition to zero energy state would not be cost-efficient.

PEBs also contribute to reducing the energy grid congestion by providing a flexible energy asset that allows buildings and energy communities to act as integrated parts of the energy system and exchange energy (electrical, thermal energy, or other future energy carriers) among them or with the grid.

This is why PEB topic has received increasing attention in recent years, and it is becoming part of the energy policy in several EU countries. A wide availability of technologies makes the realization of PEB feasible. However, their market uptake is still low due to several barriers related to market and regulatory framework, user acceptance and concept complexity.

The Cultural-E mid-term conference presents the overall approach proposed by the project and the key methodologies and technology developments to increase the market uptake of PEB in the EU. The open workshop with sister projects syn.ikia and EXCESS aims at presenting the main discussion points raised when dealing with PEBs in the residential sector.

Registration link: <https://eusew22cultural-e.eventbrite.com>

Contact persons:

Annamaria Belleri (Eurac Research – Cultural-E project): annamaria.belleri@eurac.edu

Larissa De Rosso (Architects' Council of Europe – Cultural-E project): larissa.derosso@ace-cae.eu

Gloria Oddo (Architects' Council of Europe – Cultural-E project): gloria.oddo@ace-cae.eu

Niki Gaitani (NTNU – syn.ikia project): niki.gaitani@ntnu.no

Andreas Türk (Joanneum Research – EXCESS project): andreas.tuerk@joanneum.at

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Cultural-E Mid-term conference

11:00 – 11:30	<i>Coffee break and registration for Energy Day</i>
11:30 – 11:40	Welcome to the conference by the project coordinator (Annamaria Belleri, EURAC Research)
11:40 – 12:20	User centered technologies for PEB: <ul style="list-style-type: none">• Cloud-based HMS - user interface (Jose de las Heras, Advanticsys)• Active window system (Giovanni Toniato, Eurofinestra)• Packed heat pump system and hybrid storage capacity (Tom Lipinski, VENTIVE)• Smart ventilation through ceiling fan (Giulia Torriani, EURAC Research)• Enabling building flexibility (Enrico Dalla Maria, EURAC Research)
12:20 – 12:30	Cultural-E solution sets for Plus Energy Buildings: performance analysis and harmonized control strategies (Francesco Isaia, EURAC Research)
12:30 – 12:40	Understanding cultural and climate drivers for plus energy building design (Ralph Horne and Ivan Luque Segura, RMIT)
12:40 – 12:50	Life cycle environmental impact assessment of Plus Energy Buildings – (Roberta di Bari, University of Stuttgart)
12:50 – 13:00	Q&A session
13:00 – 14:00	<i>Lunch break and Networking</i>

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'Unlock the value of Positive Energy Buildings and Neighbourhoods' Open workshop co-organised with syn.ikia and EXCESS

14:00 – 14:15	Welcome by the three project coordinators (Cultural-E project: Annamaria Belleri, Synikia project: Niki Gaitani, Excess project: Andreas Türk)
14:15 – 14:30	Plus Energy Buildings for climate and cultural diversity (Cultural-E project, Annamaria Belleri)
14:30 – 14:45	Sustainable Plus Energy Day Neighbourhoods (syn.ikia project, Niki Gaitani and Jaume Salom)
14:45 – 15:00	PEB and community (EXCESS project, Andreas Türk)
15:00 – 15:20	Plus Energy Buildings: How can data, users and social and community practices be reconciled? - open discussion (moderated by Ralph Horne, RMIT & Cultural-E project)
15:20 – 15:30	Final remarks



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