



ENERGY IN BUILT ENVIRONMENT CONFERENCE

Climate-driven solutions for next generation EU cities

29-30 June 2023

WELCOME MESSAGE

Dear colleague,

On behalf of the Organizing Committee I would like to warmly invite you to the Conference 'Energy in Built Environment: Climate-Driven Solutions for Next Generation EU Cities', jointly organised by the Portuguese National Laboratory of Energy and Geology (LNEG), COST Action Positive Energy Districts European Network (PED-EU-NET), European Energy Research Alliance Joint Programme Smart Cities (EERA JPSC) on 29th and 30th of June 2023.

The transformation of the built environment is a key step for a climate neutral Europe and demands scaling up effort and actions from the building level to district and city level. Significant innovation at building level has already been reached with the recent development of the nearly Zero-Energy Buildings (nZEBs) and the uptake concept Positive Energy Districts (PEDs), built on the paradigm of zero energy smart and sustainable cities.

In this framework, the conference aims to provide opportunities to share and exchange knowledge and ideas on climate driven solutions for three scales application of built environment: Cities, districts and buildings, facilitating cooperation and science, policy and practice dialogue.

Your sincerely,

Laura Aelenei, Laboratório Nacional de Energia e Geologia (LNEG)



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PED-EU-NET 3rd URBAN STAKEHOLDERS WORKSHOP **URBAN LIVING LABS: PATHWAYS OF SUSTAINABILITY TRANSITIONS**

Carcavelos, 29th of June 2023 (9:30-16:00)

Nova School of Business and Economics University

OPENING SESSION

9:30 Welcome messages

Vicky Albert-Seifried, Fraunhofer Institute for Solar Energy Systems, PED-EU-NET Chair | Joana Balsemão, Cascais Municipality | Prof. Miguel Pina e Cunha, Fundação Amélia de Mello Chair in Leadership at Nova School of Business and Economics

URBAN LIVING LABS: ground for Circular innovation (Plenary)

9:45 Introduction to the Workshop

João Dinis, Empresa Municipal de Ambiente de Cascais | Laura Aelenei, National Laboratory of Energy and Geology

Impulse #1 Climate-neutral Districts and PEDs: “in operation vs. life cycle”, a story-telling approach to address multiple stakeholders’ perspectives?

Michal Kuzmic, Czech Technical University in Prague | Paolo Civiero, Università degli studi Roma Tre

Impulse #2 PED-Lab/urban labs Inclusive innovation - How can urban living labs enable inclusive innovation?

Siddharth Sareen, University of Stavanger | Savis Gohari, Norwegian University of Science and Technology

Impulse #3 Metrics of circularity in PED Labs - How is circularity measured through digitalizing infrastructures with what unexploited potential?

Ghazal Etminan, Austrian Institute of Technology | Oscar Seco, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas

Impulse #4 Orientating progress - What challenges are emerging for monitoring of progress on PEDs and PED-Labs?

Maria Beatrice Andreucci, Sapienza University of Rome | Mari Hukkalainen, Technical Research Centre of Finland

10:45 Coffee and refreshments

WORLD CAFE SESSIONS (Parallel sessions)

11:15 Group #1 Climate-neutral Districts and PEDs: “in operation vs. life cycle”, a story-telling approach to address multiple stakeholders’ perspectives

Group #2 PED-Lab Inclusive innovation

Group #3 Metrics of circularity in PED Labs - How is circularity measured through digitalizing infrastructures with what unexploited potential

Group #4 Orientating progress - What challenges are emerging for monitoring of progress on PEDs and PED-Labs?

Wrap-up by each World Cafe table rapporteur

12:30 Lunch

A CARBON NEUTRAL SPACE LIVING LAB-CASCAIS SUSTAINABLE SMART POLE

14:00 Presentation of the case study

Technical visit

João Dinis, Cascais Ambiente

15:00 Closing remarks and main conclusions of the Workshop

15:30 Coffee and refreshments



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Workshop EERA Joint Programme on Smart Cities and PED-EU-NET Research agendas, building capacity and networking

Carcavelos, 29th of June 2023 (16:00-19:00)

Nova SBE University

OPENNING SESSION

16:00 Introduction to the workshop, 2023-2024 work agenda, common goals, alignment activities

Annemie Wyckmans, Head of Smart Sustainable Cities-NTNU, coordinator of EERA JPSC

Vicky Albert-Seifried, Fraunhofer Institute for Solar Energy Systems, PED-EU-NET chair

PARALLEL SESSIONS (open to the public)

16:15 Parallel Workshops (buildings, districts, cities, just transition)

Scientific publications, white/policy papers, Horizon Europe calls-consortium building (List of relevant HE call [topics 2023-2024](#)).

Wrap up from WGs (5-10 minute)

PED-EU-NET MC meeting (CA members)

18:15 MC meeting: CA updates and news

(For those who are not joining the PED-EU-NET MC, they can continue the discussion in the parallel workshops)

19:00 Reception and Social Dinner



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Lisbon, 30th of June 2023 (9:30-17:30)
LNEG-IAPMEI Campus, Auditorium

Opening session

- 9:30 **Welcome message from the Host**
Teresa Ponce de Leão, President of the National Laboratory of Energy and Geology
Innovation, research, and cities in Portugal-Welcome message
Ana Fontura Gouveia, Secretary of State for Energy and Climate
- 9:40 **Introduction to the event**
Laura Aelenei, Head of Energy in Built Environment Research Area at LNEG

Urban Energy Transition, 100 Climate neutral Cities, EU Cities Mission Europe

- 9:50 **Urban Energy Transition, 100 Climate neutral Cities, EU Cities Mission Europe**
Keynote
Paulo Ferrão, Vice-chair of the Commission's Mission Board for the Climate-Neutral and Smart Cities, EU Mission Ambassador for Portugal
- 10:20 **Coffee break & Posters gallery**

Plenary, Moderators: Maria Beatrice Andreucci, Sapienza University of Rome | Siddharth Sareen, University of Stavanger

- 10:50 **SCIENCE4POLICY - EERA Joint Program on Smart Cities**
Keynote
Annemie Wyckmans, Head of Smart Sustainable Cities-NTNU, Coordinator of EERA JPSC
- 11:20 **Lisbon towards 100 Climate-neutral and Smart Cities**
Keynote
Miguel de Castro Neto, President of Lisboa e-Nova
- 11:50 **Learning from PRACTICE**
Fireside chats (interviews and discussion) with practitioners, policy makers, researchers (Cities, Neighborhoods, Buildings)
Angelina Tomova, Energy Agency of Plovdiv
João Dinis, EMAC, Cascais Municipality
Maarten De Groot, VITO / EnergyVille
Rui Fragoso, Diretor of Buildings and Resources Efficiency Department at ADENE
- 12:10 **Wrap up and reflections from the Plenary**
- 12:30 **Networking Lunch & Posters gallery**

Climate neutral CITIES dialogue, Moderators Helder Gonçalves, Director of LEN,LNEG | Ghazal Etminan,AIT

- 14:00 **Progress of Transition Towards Positive Energy Districts and Climate-Neutral Cities**
Christoph Gollner, Driving Urban Transitions Partnership (DTU)
DivAirCity-Bucharest City
Cristiana Croitoru, Universitatea Tehnică de Construcții București (UTCB)
9 Cities for Mission CNC in Italy: which emerging issues related to PED perspective
Paola Clerici Maestosi, ENEA Department Energy Technologies and Renewables, Smart Energy
CrAFt cities - Creating Actionable Futures
Judith Borsboom-van Beurden, Locality



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From NZEB to ZCB, Moderators: Daniel Aelenei, NOVA School of Science and Technology University | Paolo Civiero, Università degli studi Roma Tre

15:00 Towards zero-emission, efficient and resilient buildings

Mariangiola Fabbri, Head of Research, Building Performance Institute of Europe

From NZEB to NZEC, Portuguese perspective

Rui Fragoso, Director of Buildings and Resources efficiency Department at ADENE

15:30 Coffee break & Posters gallery

Sustainable Neighborhoods and districts, Moderators: Michal Kuzmic, ČVUT | Savis Gohari, NTNU

16:00 PED-urban: The German approach towards climate-neutral neighborhoods

Gerhard Stryi-Hipp, Head of Group Climate-neutral Cities and Districts, Fraunhofer ISE

POCITYF (Évora)

Júlia Oliveira Pereira, NEW R&D - Centre for New Energy Technologies, EDP

The Dutch vision on local energy systems in 2050 and autonomy on district level

Nienke Maas, TNO

oPEN Lab

Maarten De Groot, VITO/EnergyVille

17:00 Closing remarks

ORGANIZING COMMITTEE

HOST AND LOCAL ORGANIZATION

Laura Aelenei and Helder Gonçalves, Laboratório Nacional de Energia e Geologia

João Dinis, Cascais Ambiente

ORGANIZING PARTNERS

Vicky Albert Siefried, Fraunhofer Institute for Solar Energy Systems ISE, Germany (Chair of the COST Action PED-EU-NET)

Annemie Whyckmans, Norwegian University of Science and Technology, Norway (Chair of the EERA Joint Program on Smart Cities)

Maria Beatrice Andreucci, Sapienza Università di Roma, Italy (COST Action PED-EU-NET Grant Holder Scientific Representative and WG4 Leader)

SCIENTIFIC COMMITTEE

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