

Welcome

The Faculty of Science and Technology of Universidade Nova de Lisboa (FCT-UNL) and the National Energy and Geology Laboratory (LNEG) are pleased to announce the 2nd Net Zero-Energy Buildings Conference.

The second edition of conference is organized as a joint event with the EBC Annex 67 - Energy Flexible Buildings and is dedicated to recent developments on Net Zero-Energy Buildings in Smart Cities where buildings are interactive nodes in the city energy flows featuring diverse renewable energy sources.

In this context, the conference will feature presentations that highlight current challenges and emerging initiatives on the role of energy flexibility (in demand and supply) of buildings and the impact on the grid.

The conference aims to provide a platform for scientists, researchers, engineers, professionals, entrepreneurs, policy-makers and students to engage and discuss emerging trends in the field.

Event organizers

Daniel Aelenei, FCT-UNL

Helder Gonçalves, LNEG

João Martins, FCT-UNL

Laura Aelenei, LNEG

Find out more information on:

<http://sites.uninova.pt/fbuildings/home>



New Challenges for NZEB in Smart Cities
Energy Flexibility and Building to Grid Interaction



Auditorium Leopoldo Guimarães (CENIMAT), FCT-UNL
Campus de Caparica
Tuesday 29th September, 2015

ORGANIZERS



With support of



Media partners



Sponsors



08:30 – 09:15 **Registration and Reception**

09:15 – 09:40 **Opening of Conference**
 Teresa Ponce de Leão, President of LNEG
 Fernando Santana, Dean of FCT-UNL

SET PLAN (Strategic Energy Technology Plan) and Horizon 2020
 Helder Gonçalves, LNEG, Portugal

Energy Flexible Buildings, Operating Agent Annex 67
 Søren Østergaard Jensen, DTI, Denmark

10:30 – 11:00 **Break**

Electric mobility in future Buildings
 João Peças Lopes, INESC Porto

11:00 – 12:30 **Strategies of Energy Flexible Buildings and Districts**
 Henrik Madsen, TUD, Denmark

Smart Cities-Interactive buildings
 Paulo Ferrão, MIT Portugal

12:30 – 14:00 **Free lunch**

NZEB an Interactive Building?

Daniel Aelenei, LNEG, Portugal

NZEB in the local low-voltage grid environment

Anna Marszal, Aalborg University

Refurbishment challenges of NZEBs

Manuela Almeida, University of Minho

14:00 – 15:30 **About time-resolution in the analysis of grid interaction in NZEBs**

Jaume Salom, IREC, Spain

Energy matching in NZEB

Ala Hasan, VTT Technical Research Centre, Finland

Analysis of thermal and electric hourly loads for a new Zero Emission neighbourhood in Norway

Igor Sartori, SINTEF, Norway

15:30 – 16:00 **Break**

Applications of Control Strategies and Energy Flexibility systems: Ambassador Project, Carlos Duarte, SCHNEIDER

16:00 – 17:15 **Control and Flexibility from the System Operator point of view, Nuno de Souza e Silva, NESTER**

Introducing the City Performance Tool, Filipe Rodrigues, SIEMENS

17:30 **Closing of Conference**
