



**S3Energy Sustainable Buildings Partnership meeting  
6th July 2017, Debrecen, Hungary**

**Follow-up and Conclusions**

**Venue:** LENERG Energy Agency office, 26 Kassai Road, 4028 Debrecen (Szilícium Mező Inkubációs Központ/Silicon Field Incubation Center).

**From:** 12:00 to 15:00

**Objectives:**

- Inform on the advancement of the project and present of project activities.
- Presentation of the summary of regional map of activities and stakeholders.
- To present and analyse concrete offers of interregional collaboration;
- Agree on a calendar for next activities.

## **Participants:**

Leadership for the Sustainable Buildings Partnership: Andalusian Energy Agency (AAE), Spain  
Co-leaders and Topic Leaders of the Partnership.

11.30-12.00 Get together (sandwiches)

## **Agenda:**

12.00-12.15 Welcome from LENERG. Sustainable Buildings in Hungary.

12.15-12.30 Introduction to the meeting (AAE)

12.30-13.00 Status of the Sustainable Buildings Partnership (by AAE) (new members, Declarations of partners, new European entities, status of project ideas, map of innovation on Sustainable Buildings, results from the Helsinki meeting.)

13.00-13.30. Topic 1. ECOCONSTRUCTION. ECOCONSTRUCTION, BIOCLIMATISM AND INSULATION OF BUILDINGS Use of energy efficient materials, autochthonous or with low carbon footprint, in complete insulation solutions with high thermal performance. Innovative measures for the passive conditioning of buildings, through new solutions and non-conventional building elements.

Presentation of Topic by Topic Leader

Presentation of a Summary Map of Innovation, main Policies and main Stakeholders of the region by each participant and project ideas. (power point presentation 10 minutes each).

13.30-14.000 Topic 2 & 3. ENERGY SYSTEMS. Topic 2 RENEWABLE ENERGY INTEGRATION IN BUILDINGS Innovative solutions in the generation and use of green energies, hybridisation in energy production, use of new materials, self-consumption and energy storage. Architectural integration. Topic 3 SYSTEMS OF MAXIMUM ENERGY EFFICIENCY USE IN BUILDINGS AND CITIES solutions that optimise the use of energy for climatisation, lighting, hot water, cooling and other uses, and that adapt to different types of users (including people with low resources). Presentation of Topics by each Topic Leader.

14.00-14.15. Horizontal issues. Financing, Dissemination, collaboration with European Institutions and with other S3 P Energy (Covenant of Majors, Fedarene, others) AAE

14.15-14.30. Planning of next partnership activities.

14.45-15.00. Discussion on challenge, conclusion and suggestions.

## **Background**

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A coordination working meeting of the Sustainable Building Partnership was held on 6<sup>th</sup> July 2017, from 12-15h, in Debrecen, Hungary, in order to exchange experiences among the partner leaders and coordinate actions to collectively discuss the state of progress within the partnership, including agreeing on the governance of the consortium. Participants were also invited to advance on the settlement of the next steps with key discussions on topics within the partnership, and discussion on project ideas and challenges on Sustainable Building.

The meeting counted on the participation of 12 experts from Andalusia, Spain; Eszak-Alföld, Hungary; Lapland, Finland and, by skype, Pomorskie in Poland.

### Attendants:

Joaquin Villar and Marisa Borra from the Andalusian Energy Agency, Regional Ministry of Employment, Business and Trade, Andalusian Regional Government

Gabor Vamosi, General Director of LENERG, Papp Domián, Valeria Szabo and Nóra Saya, from LENERG Energy Agency non profit Ltd, co-leaders of the partnership

And Stakeholders from Eszak-Alföld Region: József Fucsko from the Hungarian Environmental Economics Center, and György Szabó from the University of Debrecen,

Tytti Ahoranta, Digipolis Oy, Lapland Region, project manager of Wood and Sustainable Construction.

And from Pomorskie region: Zbigniew Borkowski and Dominik Mieczkowski from INFRACORR cluster, and Piotr Krzyżanowski from the Energy Community Cluster (Gminny Mikiklaster Ewertgetycznyr).

### Conclusions:

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- The coordinator of the partnership presents the updated work plan, activities and functioning of the partnership by the Andalusian Energy Agency, Regional Ministry of Employment, Business and Trade. The Sustainable Building Partnership's main updates are that the partnership currently presents an important participation of regions, with up to 56 which have shown interest, and since the last meeting on 17<sup>th</sup> May 2017 in Brussels, new partners from Norway, Sweden, Italy and Greece have expressed their intention to join the partnership (please see the power point presentation).
- The co-leader of the partnership, LENERG Energy Agency Nonprofit Llc., Gabor Vamosi, General Manger presents their institution and team.
- Experts from LENERG explained the Hungarian situation concerning the main legislation addressed to the Sustainable Construction Sector, including the Hungarian National Building Energy Strategy 2030, as well as the situation at the Hajdú-Bihar county 2014-2020.
- The expert from the Lapland Region in Finland made a presentation on the main legislation affecting the Topic 1. ECO CONSTRUCTION, BIOCLIMATISM AND INSULATION OF BUILDINGS.

In this sense, some data has been highlighted from the new Directive of the European Parliament and the Council amending Directive 2010/31/EU on the energy performance of buildings which has put into action "Energy efficiency first", a key element of the Energy Union. The importance of energy measurement has been highlighted, therefore "What you measure, you can manage and develop".

National building legislations rarely take a stance on the **carbon footprints** of buildings or define the maximum energy consumption permitted – despite the fact that it is recognized that in developed countries, buildings and real estate constitute about 40% of our energy consumption and 35% of our emissions.

A reflexion is that it would not be sustainable to build zero energy construction if the carbon footprint of the building materials were not minimized at the same time. The key factors when building energy effective buildings are the thermal proof envelope with proper interior ventilation.

It has also been pointed the importance to use performance indicators at all stages of building, from the planning and design of the building, during the maintenance and use, management and maintenance phases, taking into account users' use and comfort, and also including the demolition stage.

The Building performance indicators <http://figbc.fi/en/building-performance-indicators/>

You can also find this link on the presentation.

The Topic leader is pleased to inform and invite all partners to participate at the Skelleftea, Sweden Wood Building Summit on 7 and 8 November 2017.

<http://ww.woodbuildingsummit.se>

Pomorskie Region in Poland offers their experience to coordinate Topic 2 on RENEWABLE ENERGY INTEGRATION, and just in case also Heating and Cooling within the Topic 3. SYSTEMS OF MAXIMUM ENERGY EFFICIENCY USE IN BUILDINGS AND CITIES. Therefore the experts and stakeholders from the Pomorskie region in Poland, from INFRACORR cluster and from the Energy Community Cluster (Gminny Mikiklaster Enertgetycznyr) connected by skype, explained in detail the Project Ideas intended for interregional collaboration:

- Project Idea: Micro CHP Biogas (10-100 kw) for use to provide heat and electricity to housing and commercial buildings, the idea is to use it both at urban and rural areas.
- Project Idea: Heat pumps supplying heat to buildings (housing and public) with the heat source fed from waste heat sources (sewage system, gray water system, exhaust air) and seasonal thermal energy storage.
- Project idea: Organisation of an energy-independent housing estate as Living-lab. Several regions in Slovenia and in Andalusia are also working in living labs and therefore collaboration opportunities within this area will be further explored.
- The coordinator of the Partnership present the results from the previous Partnerships events, mainly:
  - The participation in the [Smart Regions Conference](#) (1st-2nd June 2017), Helsinki, that counted on the participation of the Andalusian Energy Agency's General Manager.
  - The presentation of the Partnership at Fedarene, the European Federation of Environmental and Energy Agencies, during the General Assembly of the Association held in Berlin (1<sup>st</sup> June 2017).
- Concerning the next meeting in Brussels, a Brainstorming exercise was developed by the participants. The following challenge ideas were proposed:

By Lapland and LENERG:

- At European Level: The main Interregional challenge will be focused on the deficient quality of existing buildings. The buildings should be renovated to fulfil the energy efficiency quality. There should be funds to finance this renovation work. This issue will be put in relation with the question on the importance of the carbon footprint and performance indicators. This challenge is related to the role that energy efficiency has with regards to combating energy poverty of the most disadvantaged population, which are the collective groups that also suffer more precarious living conditions.

By LENERG and stakeholders:

- 1. Regional/county level: Lack of capital and often expertise at municipalities. This challenge covers the importance of the role of the ESCO energy services companies in promoting energy efficiency addressed to the building sector in European regions, counties and municipalities. This challenge is also complex. Legal questions, as well as awareness conditions, make advisable a greater effort on the development of this type of projects.
- 2. National level: Cooperation of local governments, (energy) agencies, enterprises with public administration (Ministries). A deeper cooperation among enterprises and other stakeholders with National energy efficiency stakeholders, would be advisable in some regions, to increase communication channels.
- 3. At European Level: Difficulties in stakeholder engagement and raising awareness (Methods suggestions experience of other regions). It is a challenge in the Hungary region and others to exchange experiences from regions related to stakeholder engagement and awareness. The experience from other regions may be taken into account in order to overcome difficulties encountered.

By the Andalusian Energy Agency and LENERG:

- The main challenge at European interregional level of Sustainable Construction is the difficulties encountered to finance energy efficiency and renewable energy addressed to the sustainable building sector. The problem of finance is complex and it should focus on responding to the question on How to make energy projects “sweet” “ soft” for private banks investments?.

As a conclusion or summary on the main Challenge that would be addressed, the following points are considered:

- The importance of stakeholder engagement (pointed out by Hungarian partners).
- The lack or difficulties for capital (agreed by Andalusia and Hungary).
- The importance of the carbon footprint (mentioned by Lapland) and the importance of taking into consideration the performance indicator for economic reasons (Hungary stakeholders).
- The problem of the deficient quality of the existing buildings, building stock mentioned by Lapland and Hungary) and the importance of energy poverty.

Therefore an idea for studying the main challenge will be:

- The main Interregional challenge will focus on the deficient quality of existing buildings. The challenge will be how to engage private stakeholders (private banks and new ways to engage citizens and enterprises) into the renovation of buildings in a sustainable way, contributing to the fulfilment of the European challenges of the Building Sector. This challenge will take into consideration the energy performance of buildings and clear performance indicators, including Environmental

performance indicators (as the carbon footprint) adapted to the stakeholders requirements. A special emphasis will be taken on the energy situation of the building sector for vulnerable groups. The regions have an essential role contributing to putting into practice an Action Plan which considers all stakeholders (quadruple helix) involved in order to successfully overcome this challenge.

Next Events:

- S3PEnergy indicated those events in which it is expected to showcase the progress of the interregional partnerships, namely:
  - Open Days ([EWRC2017](#)) (Oct 9-12), Brussels
- Wood Building Summit on 7 and 8 November 2017 <http://ww.woodbuildingsummit.se>
- Specific event of Building Partnership will take place in November 2017 in Seville.
- High level event of the S3PEnergy, in the 1<sup>st</sup> week of December 2017.

#### Wrap-up and Next steps

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Lead region in collaboration with co-leader and topic leader:

- Elaborate a Press-Note of the meeting (in local language and English).
- Elaborate a summary Follow-up report.
- Send the presentations of the meeting and the list of attendants.
- Inform the partnership about the meeting and next steps.

All regions:

- Will send their comments and ideas about the Challenge.