

# Smart Specialisation Platform for Energy

## Thematic Partnership

### *Sustainable Buildings*

Start Date (2016)

## MONITORING PROGRESS REPORT

***Reporting Period: from June 2018 to December 2018***

This Report is presented to the relevant Working/Steering Committee.  
It contains two parts:

- I. Management Report prepared by the Lead Region(s)***
- II. Progress Report prepared by the Lead Region(s)***

Confidentiality: this document (part I) will be made available to the public via the Partnership's web page except for chapter *II.E. Self evaluation*.

Based on the monitoring results, the European Commission will decide on the following year's support.

**Executive summary (max. 250 words):**

*The Sustainable Buildings Partnership was established to identify and solve key industrial challenges in the existing buildings and construction sector. The Partnership is led by Andalusia (ES) and North Great Plain (HU).*

*The partners have jointly identified 3 thematic working areas (1) Eco construction, bioclimatism and insulation of buildings, (2) Renewable energy integration in buildings, and (3) Systems of maximum energy efficiency use in buildings and cities.*

*The partnership has one pilot project in place which involves the deployment of Smart Campuses via the improvement of the EE of University Campus buildings. This project was selected by DG REGIO to received technical assistance during 2018 in the Call for Pilot Actions on "interregional innovation partnerships.*

*The partnership have already advance at the Learning and Connecting phases, mainly through a 2017'survey at the Web page (currently applicable for new members) that served to elaborate a Map of Capacities.*

*Taking into consideration the priorities topics developed at the Map of Capacities, the members are currently defining new pilot projects, expected to be launched during 2019.*

*To highlight that during the present reporting period main activities have been focused on the Smart Campus pilot project that is entering the phase of the Business Plan development, with a special commitment of the 7 participating regions and Universities from Andalusia, Friuli-Venezia Giulia, South-Karelia, Sud Provence-Alpes- Côte- d'Azur, Central Slovenia and Algarve; as well as reinforcing networking through an internal e-Bulletin with novelties on policies and projects related to the Partnership.*

## I. Management Report prepared by the Thematic Platform/Lead Region(s)

### I.A. Partnership Action Fact Sheet

- **Partnership:** *Sustainable Buildings*
- **Partnership's web-page:** <http://s3platform.jrc.ec.europa.eu/sustainable-buildings>
- **S3 Thematic Platform:** *Energy*
- **Objectives:** *The main objective of the S3 Partnership on Sustainable Buildings is to create an alliance between European regions to boost new markets and take advantage of regional opportunities for specialisation.*
- **Lead Region(s):** *list of regions/countries leading this partnership*

<i>Andalusia (ES)</i>
<i>North Great Plain (HU)</i>
<i>North-Croatia (HR) - The North Croatia Regional Energy Agency has agreed to co-lead the Sustainable Buildings Partnership as presented in Bilbao.</i>

- **Official partner regions:** *list of regions/countries that have officially committed to follow this partnership and have been active in the last six months.*

<i>Friuli-Venezia Giulia (IT)</i>	<i>Lapland (FI)</i>	<i>Castile and Leon (ES)</i>
<i>Liguria (IT)</i>	<i>North-Karelia (FI)</i>	<i>Region of Greater Copenhagen (DK)</i>
<i>Veneto (IT)</i>	<i>South-Karelia (FI)</i>	<i>Central Slovenia (SI)</i>
<i>North West Croatia (HR)</i>	<i>Algarve (PT)</i>	<i>Podravska, Slovenia (SI)</i>
<i>South-Estonia Tartu County Region (EE)</i>	<i>Slovenia Litoral (SI)</i>	<i>Sud Provence-Alpes-Côte- d'Azur (FR)</i>
<i>Flanders (BE)</i>	<i>Valencian Community (ES)</i>	<i>Kaunas Province (LT)</i>
<i>Asturias (ES)</i>	<i>Bosnia-Herzegovina (BH)</i>	<i>Prague (CZ)</i>
<i>Murcia (ES)</i>	<i>Catalonia (ES)</i>	<i>Extremadura (ES)</i>
<i>South Transdanubia (HU)</i>	<i>Lithuania -national- (LT)</i>	<i>Region Western Macedonia (EL)</i>
<i>Lazio (IT)</i>	<i>Opolskie (PL)</i>	<i>Campania (IT)</i>
<i>Slaskie (PL)</i>	<i>Lisbon (PT)</i>	<i>Pomorskie (PL)</i>
<i>Podlaskie (PL)</i>	<i>Västerbotten (SE)</i>	<i>Podkarpackie (PL)</i>
<i>Gorenjska (SI), Gorenjska, Upper Carniola (SI)</i>	<i>Mälardalen Region (SE)</i>	<i>Slovak Republic (SK)</i>
<i>South East Sweden (SE)</i>	<i>Jämtland (SE)</i>	<i>Cornwall and Isles of Scilly (UK)</i>

- **Other regions:** *list of regions/countries that have expressed their interest in this partnership but have not signed a commitment letter).*

<i>Any other comments</i>		

- **Intentions to join:** *list any regional/national authorities Province of Trento (IT), Region South Denmark Region (DK), Moldavia.*

• **Other participants (other than national/regional authorities):**

(Please list here all other (non-region) participants (clusters, institutes, RTOs, etc.))

University of Jaen, Málaga and Almería (ES)	University of Primorska (SI)	Czech Technical University in Prague (CZ)
Aix Marseille University (FR)	Università Degli Studi Di Udine (IT)	Karelia University of Applied Sciences (FI)
Kaunas University of Technology KTU (LT)	Nova University of Lisbon (PT)	University of Faro (PT)
Valencia Sustainable Construction Cluster (ES)	Slaskie Construction Cluster (PL)	Cluster Flanders Innovation and Entrepreneurship (BE)
TECES Energy Efficiency and Energy Conversion Cluster (SI)	Lapland ICT Cluster (FI)	IVE Valencia Institute of Building (ES)
Building2030 NGO (Brussels)		

<p><b>Representative of Lead Region 1:</b> (name, institution, address, phone, e-mail)</p> <p>Joaquin VILLAR, Head of Internationalisation and Prospective Department, Andalusian Energy Agency joaquin.villar@juntadeandalucia.es.</p> <p>Marisa BORRA, Senior Expert in Internationalisation and Prospective Department, Andalusian Energy Agency marialuisa.borra@juntadeandalucia.es</p>	<p><b>Representative of Lead Region 2</b> (if applicable): (name, institution, address, phone, e-mail)</p> <p>Gábor Vámosi, Managing Director, vamosi.gabor@lenergia.hu and Valeria SZABO, International project manager, LENERG Energy Agency Nonprofit Llc. szabo.valeria@lenergia.hu</p>
<p><b>European Commission Coordinator:</b> (name, e-mail)</p> <p>Isabelle SEIGNEUR, Directorate B, Growth and Innovation. Unit 3, Territorial Development. Smart Specialisation Platform on Energy (S3PEnergy)</p>	<p>Any other relevant information:</p> <p>The North Croatia Regional Energy Agency has agreed to co-lead Contact experts: Velimir Šegon Deputy Managing Director North-West Croatia Regional Energy Agency vsegon@regea.org  Julije Domac, Managing Director jdomac@regea.org..</p>

**I.B. Thematic Working Areas (WA)**

• **Thematic Working Areas** (if any, please list of WAs, region(s) in charge of it, names and affiliations of involved regional/national authorities, and other actors)

Working Area	Region in Charge	Involved regions	Other actors
Eco construction, bioclimatism and insulation of buildings	Confirmed leader Lapland Region, Finland	Other involved regions	Other actors
Renewable energy integration in buildings	Regione Friuli Venezia Giulia (to be confirmed by regional authorities)	Other involved regions	Other actors
Systems of maximum energy efficiency use in buildings and cities	Confirmed leaders: IVE Valencia Institute of Building and TECES Energy Efficiency and	Other involved regions	Other actors

	Energy Conversion Cluster (SI)		
Insert Working Area...	Region in Charge	Other involved regions	Other actors
Considering to establish new not technical transversal working areas related to financial and behavioural issues.			

### I.C. Overview of past activities (past six months, the 2<sup>nd</sup> half of 2018)

#### Past Meetings

Title	Date	Place
Sustainable Buildings Partnership Meeting	28.11.2018	Bilbao
Please enter title here...	Please enter date here...	Please enter place here...
Please enter title here...	Please enter date here...	Please enter place here...
Any other comments		

#### Past Workshops

Title	Date	Place
SMART CAMPUS Sustainable Building Interregional Collaboration Pilot Project meeting	6.9.2018.	Trieste (FVG, Italy)
SMART CAMPUS Sustainable Building Interregional Collaboration Pilot Project meeting	18-19.10.2018	Malaga (Andalusia, Spain)..
SMART CAMPUS Sustainable Building Interregional Collaboration Pilot Project meeting	19-20.11.2018	Marseille (France)

#### Past Dissemination Activities

Title	Date	Place
Presentation of the Smart Campus Sustainable Building Interregional Collaboration Pilot Project meeting t in the next EMA Meeting	3-4.12.2018	Brussels
Bilbao - S3 Thematic Platform Days	26-28.11.2018	Bilbao, Spain
Sustainable Buildings partnership meeting	20.11.2018	Marseille
EWRC 2018 S3PEnergy Presentation	10.10.2018	Brussels
Presentation of Sustainable Building Partnership at "Workshop on Regional Heating and Cooling priorities in the framework of the Smart	30.05.2018	Brussels

<i>Specialisation Platform ( S3P-E H&amp;C)</i>		
<i>Presentation of Sustainable Building Partnership at ZERO2 international conference. The partnership was presented by Črtomir Kurnik from Slovenia (not included in previous report).</i>	<i>21-22.03.2018</i>	<i>Ptuj, Slovenia</i>

### **I.C. Overview of future activities (the next 6 months – the 1st half of 2019)**

#### **Future Meetings**

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>EUSEW. European Sustainable Energy Week</i>	<i>June 2019 (tbc)</i>	<i>Brussels</i>
<i>Sustainable Building, Week of Regions</i>	<i>October 2019 (tbc)</i>	<i>Brussels</i>

#### **Future Workshops**

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>SMART CAMPUS Sustainable Building Interregional Collaboration Pilot Project meeting</i>	<i>January 2019 (tbc)</i>	<i>Faro, Algarve, Portugal</i>
<i>SMART CAMPUS Sustainable Building Interregional Collaboration Pilot Project meeting</i>	<i>March 2019 ( exact date to be agreed by organisers and partners)</i>	<i>Lapperanta (South Karelia Region, Finland).</i>
<i>SMART CAMPUS Sustainable Building Interregional Collaboration Pilot Project meeting</i>	<i>2019 (tbc)</i>	<i>Ljubljana, Slovenia</i>

#### **Future Dissemination Activities**

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>

**II. Progress Report** prepared by the Lead Region(s) of the partnership, describing **results achieved during this period**, in no more than 3 pages (the report is “cumulative”).  
All items listed in Sections A, B, and C, below, must be addressed.

Additional documentation such as extended technical reports and/or proceedings of workshops may be provided separately as an annex to this report (and should be referenced in the report).

### II.A. Innovative results

- Innovative results and achievements that could be attributed to the Partnership.  
(Specific examples of Results vs. Objectives)

*Although the partnership activity has advanced on the two phases "learn" and "connect" of the S3PEnergy methodology, first results and achievements will arise from the Smart Campus pilot project focus on energy efficiency and renewable energy and smart grid applied to University Campus of the participating regions, which is currently entering the phase of the Business Plan development. The Smart Campus project has determined to work on a horizontal demo-case, and two other specific demo-cases are already ongoing. Important progress has been made concerning the testing of the technological innovations at the Lappeenranta EcoCampus (including the tests of the facilities, the elaboration of a budget, etc.). A complete report on the progress of the Smart Campus will be provided by the consultant to the European Commission.*

- Tangible short- and medium-term socio-economic impacts achieved or expected.  
(Specific examples)

*In order to measure the socio-economic impacts achieved, it would be necessary that the potential pilots identified by members will enter the demonstration phases, in order to have more tangible results of the impact that the partnership's activity could have. Nonetheless, the successful achievement of the partnership's objectives could have a two-fold socio-economic impact in the partner regions.*

*Firstly, measures taken as a result of partnership work which successfully improve energy efficiency and reduce energy consumption of buildings will be a major milestone for those regions and for the EU as a whole on the pathway to build low carbon economies. This is due to the importance of the buildings sector in the EU, which is the largest energy consumer in the Europe, representing 40% of the total EU consumption and 36% of CO<sub>2</sub> emissions.*

*Secondly, increasing innovation and development in the area of sustainable construction should catalyse growth and job-creation in the construction sector. This sector, which has traditionally had a great weight in terms of GDP and employment in many EU regions (some of them represented in the partnership), has been strongly hit in the aftermath of the financial crisis. Therefore, through successful partnership projects, growth and employment are expected in a key sector for partners.*

### II.B. Inter-regional and inter-partnership collaborative results

- Additional results obtained from working with other partnerships under the thematic S3 Platforms. (Specific examples)

*Much of the inter-partnership collaboration of the Sustainable Buildings partnership has taken place within the S3PEnergy in the form of S3PEnergy platform joint organised activity such as joint workshops, meetings and working groups. From these sessions, partnerships have been able to exchange their experiences and the challenges they have faced developing S3 energy projects and this has enabled them to learn from each other. For example, during the S3PEnergy Joint Partnerships Meeting of the 28th of November in Bilbao, leaders from all platforms shared with other leaders and partners their experiences on topics such as: financing of interregional projects, information on innovation policy, bottlenecks for innovation, IPR development and business models, etc. Information was also exchanged between the Sustainable Building Partnership and the Heating and Cooling Partnership in the "Workshop on Regional Heating and Cooling priorities in the framework of the Smart Specialisation Platform" (S3P-E H&C) during last meeting on the 30th of May 2018 in Brussels. Moreover, during the S3 Thematic Platform Days in Bilbao, the Partnership interacted with partnerships from the other two Thematic Platforms of Agri-Food and Industrial Modernisation. Related to the Sustainable Building Partnership, some common issues have been detected with the Innovative Material for Batteries, Smart Grids and Solar Energy partnerships, and with the S3PEnergy Heating and Cooling initiative launched by DG ENER and managed by JRC.*

- Evaluation of the involvement of relevant business sector (clusters, SMEs, business associations, chambers of commerce, etcetera) in the Partnership activities. (Specific examples)

*5 Businesses partners are involved in the different working groups, some of the leading:*

*Valencia Sustainable Construction Cluster (ES), Slaskie Construction Cluster (PL), Lapland ICT Cluster (FL), Cluster Flanders Innovation and Entrepreneurship, TECES Energy Efficiency and Energy Conversion Cluster (SI)*

*There are 8 members of industry which are part of the Smart Campus pilot:*

- 1. ABB SpA - industrial supplier*
- 2. Blue Energy Group SpA (Italy) - energy trader*
- 3. OverIT (Italy) - ICT for energy enterprises*
- 4. Technological Corporation of Andalusia (Spain) - PPP*
- 5. Green Energy Showroom, cluster (Finland)*
- 6. Iskraemeco – energy collector (Slovenia)*
- 7. GEN-I – energy supplier (Slovenia)*
- 8. Enercoutim, Alcoutim Solar Energy- association (Portugal)*

- Evaluation of whether **the level of inter-regional cooperation is sufficient** to potentially provide **practical and relevant socio-economic impacts**. (Specific examples)

*Evaluation of whether the level of interregional cooperation in the partnership is sufficient for being socio-economically impactful cannot take place until the partnership activity enters the demonstrate, scale-up and commercialise phases.*

*Suggestion: it would be very useful to define a certain common performance indicators for the evaluation of all partnerships.*

## II.C. New activities

- Involvement of regions from EU13 Member States in the Partnership, in particular with respect to scoping, mapping and/or matchmaking. *In addition, justification should be provided if no EU13 regions are involved.*

*Regions from 8 out of 13 EU13 Member States are members of the Sustainable Buildings Partnership. What's more, one of the partnership co-leaders is the North Great Plain region of Hungary. The region of Central Slovenia is one of the participating regions in the Smart Campus pilot selected by DG REGIO.*

*The North-Croatia Energy Agency has confirmed interest to co-lead the partnership. And TECES Energy Efficiency and Energy Conversion Cluster (Slovenia) has committed to co-lead the Topic on Systems of maximum energy efficiency use in buildings and cities*

*Finally, regions from EU13 Member States have signalled interest in participating in the development of the three pilot ideas produced in the partnership: creating a living lab-based laboratory to foster energy efficiency and energy sufficiency in large panel building systems, new technologies applied to near zero public buildings and low carbon wood robust construction.*

- Involvement of regions/countries from outside of EU28 Countries. (Number of participants from non-EU countries. Specify their contribution)

*Bosnia-Herzegovina (BH) is a partner and Moldavia has expressed its interest in joining the partnership. Also, the Partnership is exploring possibilities to establish cooperation links outside EU in several countries in Iberoamerica (Argentina) and North Africa (Tunisia)*

- Advancement and promotion of the Partnership through publications and other communication/outreach activities. (Number of outreach activities that resulted from the Partnership. A complete list with references and web-links should be given in an annex)

*The Partnership was presented in many events during the second half of 2018, among other during EWRC. In addition to regular specific face-to-face, web meetings and phone calls with the lead regions. All PowerPoint*



*presentations and conclusions of these meetings are available online in the Partnership's dedicated section of the S3P webpage, managed by JRC.*

- **Activities and projects with partnerships working under other S3 Thematic Platforms (Agri-Food, Energy and Industrial Modernisation).**

*The S3PEnergy Sustainable Buildings partnership was involved in joint activities with the other S3 Thematic Platforms of Agri-Food and Industrial Modernisation during the S3 Thematic Platform Days in Bilbao (26-28th of November 2018). The Sustainable Building Partnership participated in the joint meeting in Bilbao, and the members of the Sustainable Buildings Partnership may further explore coordination with other partnerships through joint meetings and exchanges.*

## II.D. Your Partnership and the UN 2030 Sustainable Development Goals (SDGs)

The EU has a strong position when it comes to sustainable development and is also fully committed to be a frontrunner in implementing the UN's 2030 Agenda<sup>1</sup>, together with its member countries and regions. Many interregional partnerships under the thematic S3 Platforms contribute strongly to the attainment of these 17 goals.

**Please indicate to which Sustainable Development Goals and to what extent your thematic Partnership contributes?**

### Your Partnership and Sustainable Development Goals

Goals to which your partnership (can) contribute:	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Not applicable
Goal 1. <b>End poverty</b> in all its forms everywhere	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 2. <b>End hunger</b> , achieve <b>food security</b> and improved <b>nutrition</b> & promote <b>sustainable</b> agriculture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 3. Ensure <b>healthy lives</b> & promote <b>well-being</b> for all at all ages	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 5. Achieve <b>gender equality</b> & empower all women and girls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 6. Ensure availability and sustainable management of <b>water and sanitation</b> for all	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 7. Ensure access to <b>affordable, reliable, sustainable and modern energy for all</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 8. Promote sustained, inclusive and sustainable <b>economic growth</b> , full and productive <b>employment</b> & decent <b>work for all</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 9. Build resilient <b>infrastructure</b> , promote inclusive and sustainable <b>industrialisation</b> & foster <b>innovation</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 10. Reduce <b>inequality</b> within and among countries	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 11. Make <b>cities</b> & human settlements inclusive, safe, resilient and sustainable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 12. Ensure sustainable <b>consumption &amp; production patterns</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 13. Take urgent action to combat <b>climate change</b> and its <b>impacts</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 14. Conserve and sustainably use the <b>oceans, seas &amp; marine</b> resources for sustainable development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 15. Protect, restore and promote sustainable use of <b>terrestrial ecosystems</b> , sustainably manage <b>forests</b> , combat <b>desertification</b> , halt and reverse land degradation and halt biodiversity loss	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 16. Promote <b>peaceful &amp; inclusive societies</b> for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 17. Strengthen the means of implementation and revitalise the <b>Global Partnership for Sustainable Development</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> The 2030 Agenda for Sustainable Development and its 17 Sustainable Development Goals (SDGs), adopted by the United Nations (UN) in September 2015, gave a new impetus to efforts to achieve sustainable development.