

Project S3UNICA “Smart SpecialiSation in UNIversity CAMpus”

1st S3UNICA Newsletter – January 2020

An overview of S3UNICA

Low-carbon economy

In the framework of the Interreg Europe Programme and the Priority Axis 3 (Low-carbon economy), the Specific Objective 3.1 focuses on actions to increase levels of Energy Efficiency (below: EE), including the public buildings. The introduction of ICT-based solutions can play a key role in regional strategies, increasing the energy performance of public buildings, or as a part of public awareness strategies. Integrated regional low-carbon strategies are needed to identify the most promising areas of action, mobilise stakeholders, facilitate and channel public and private investments and increase the awareness of using EE alternatives. Regional authorities can also facilitate the development of low-carbon solutions and speed up their application through green public procurement, regional experimentations and investment schemes. In this context the S3UNICA Project aims at emphasizing the role of Universities in regional innovation policies, by providing specialist research and technical expertise in the field of energy sustainable buildings and by offering campuses as an hands-on lab where to implement these innovative solutions. S3UNICA is the natural follow up of the Pilot Project “Smart Campus” selected by DG REGIO under the call for expression of interest for “Thematic Partnerships to pilot interregional innovation projects”, within the S3 Partnership on “Sustainable Buildings”. The main goal of the project is to capitalize the experience of “Smart Campus” project to improve the EE of University Campus buildings and infrastructures, promoting the symbiosis with regional territory and the development of innovative solutions throughout the value chain associated to energy saving and smart grid developments: a common methodology will be defined, using the new Energy Performance of Buildings directive and its Smart Readiness Indicator.

The Partnership of S3UNICA

- PP1 (LP)** - Friuli Venezia Giulia Autonomous Region
- PP2** - University of Udine (ITALY)
- PP3** - University of Trieste (ITALY)
- PP4** - Alba Local Energy Agency – ALEA (ROMANIA)
- PP5** - Andalusian Energy Agency, Regional Ministry of Finance, Industry and Energy, Andalusian Government (AEA) (ES)
- PP6** - University of Malaga (SPAIN)
- PP7** - Regional Council of South Karelia (FINLAND)
- PP8** - LUT University (FINLAND)

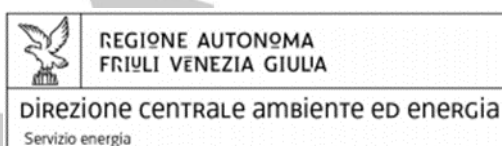
We Started!



On 23-24 October 2019 the Lead Partner - Friuli Venezia Giulia Autonomous Region organised the kick-off meeting of S3Unica in Trieste (IT). During the 1st day the Projects Partners visited the Elettra Sincrotrone Trieste, an international multidisciplinary research centre of excellence. With this visit, the Partners specifically widened their knowledge on EE policies and impact on energy consumption of large scale Research Centre. During the 2nd day partners discussed on the Project implementation phase and its deliverables.

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PP1 (LP)



Friuli Venezia Giulia Autonomous Region – Environment and Energy Central Directorate – Energy Service

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Tel.: +39 040 377 4194
Email: energia@regione.fvg.it
Web site: <http://www.regione.fvg.it/rafvig/cms/RAFVG/ambiente-territorio/energia/>
Facebook: <https://www.facebook.com/regione.fvg.it/>
Twitter: <https://twitter.com/regioneFVGit>

The Friuli Venezia Giulia Autonomous Region (below: FVG) has approved its Regional Energy Plan (REP) in 2015 as stated in the Italian decrees n. 28/2011 and n.102/2014 which implements the directive 2009/28/CE on energy and climate and the use of Renewable energy Sources (below:RES) and the directive 2012/27/EU on EE. Based on the 20-20-20 Package on climate and energy the FVG REP is articulated on several measures:

- *implement and finance an energy inventory / register of public buildings (university campuses as well), starting from the regional heritage, to establish regional energy requalification objectives and priority funding for interventions;*
- *create a summary of technical sheets with the description of "typical interventions" in the field of energy requalification (both for building structures and for facilities) available to public administrations;*
- *introduce an incentive in new/existing buildings (university campuses included) to implement an improvement in energy performance, to install RES plants and micro-plants or to increase supply from RES;*
- *obligation of a three-year plan for the Public Administration for the restructuring of public buildings with the aim to comply with the minimum RES levels.*


The university system of the FVG Region is composed of 2 public universities with about 50 buildings spread over the territory, some aged and others rather recent ('90) parts of these shared with hospitals. Some of the actions developed in recent years have been linked to the optimization of energy supply and the improvement of energy efficiency. Universities have successfully implemented a SMES (Smart Multi Energy System) model based on the use of cascade energy - which meets the thermal needs of hospitals, university buildings, schools, swimming pools and residential buildings. An EE program has also been launched to rationalise and monitor energy consumption through innovative solutions. Universities play an important role in the sustainable development. The FVG Region aims to promote the reduction of primary energy consumption and to support the energy efficiency of public facilities, through measures of pure efficiency (modernization of systems) and the implementation of intelligent building systems.

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The Stakeholders of FVG Region


	<p>Overit S.p.A. Headquarters: Via U. Bassi 81 - 33080 Fiume Veneto (Pordenone) Tel: (+39) 0434 562911 Fax: (+39) 0434 562964 Web site: https://www.overit.it/ Email: info@overit.it Udine Office: Via Puintat 2 - 33100 Udine</p>
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OveriT S.p.A. is an ICT private company that represents an important node for IT engineering consultancy and support. Founded around the end of the '90s as a spin-off of the IT department of a multinational company leader in food distribution, OveriT has now 380 professionals, it operates worldwide and works together with important organizations to help them achieve excellent performance in the optimization of Field processes. OveriT's customers belong to the Energy & Utility, Oil & Gas, Industry, Services and Transport market sectors. About 10% of the annual turnover is invested in research and development. OveriT has carried out a project on methodologies and solutions for the EE of buildings, a study and analysis of a series of innovative technologies with the aim of improving the EE of buildings, introducing a prototype software solution that integrates the use and control of different instruments. The goal of the prototype is to effectively highlight the critical issues, better manage waste, know the consumption of a building, both from the energy point of view and from the point of view of reducing heat loss. The hardware and software technologies studied are the following: GIS systems for the reconstruction and analysis of the external details of buildings; integration of GIS data with Google Project Tango and portable thermal sensor systems; IoT software / hardware systems for real-time data collection and consequent optimized management of energy consumption.

 <p>TELLUS Geographic Information Systems</p>	<p>TELLUS S.r.l. Via Puintat, 2, 33100 Udine Tel: +39 0432 534076 Web site: http://tellus.it/</p>
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Born in 1997 TELLUS S.r.l. is a private company operating in the Geographic Information System (GIS) sector through the design and development of web and desktop applications. The company's headquarters is in Udine, the research and development laboratory in Trieste (since 2001), in the Area Science Park. TELLUS is one of the first companies to use GIS both as a tool for the study and monitoring of the territory, and as a basis on which to develop logistics applications dedicated to businesses. The experience has led to the creation of applications for large national groups for the processing of data present in the corporate information system, displaying them on geographical maps and integrating them with external databases (socio-economic data, market studies, etc.).

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 <p>APE Agenzia Per l'Energia del Friuli Venezia Giulia www.ape.fvg.it</p>	<p>Agenzia Per l'Energia del Friuli Venezia Giulia Via Santa Lucia 19 - 33013 Gemona del Friuli (Udine) Tel.: + 39 0432 980 322 Email: info@ape.fvg.it Web site: https://www.ape.fvg.it/</p>
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The Friuli Venezia Giulia Energy Agency - APE is a non-profit organization active in promoting the intelligent use of energy in FVG. APE FVG is part of the "Intelligent Energy for Europe" network supported by the European Commission, which includes about 380 agencies in 30 different European states. APE promotes sustainable development by helping local communities to achieve significant and measurable improvements in the rational use of energy and its RES. From November 2016 to July 2018 APE FVG was part of the SISMA team, a European project (Interreg MED Programme) that promotes energy efficiency for public buildings, developing innovative financing schemes for the renovation and soliciting private investments. The ultimate goal was to support local administrations in compliance with the European Directive on the EE of buildings (2010/31 / EU) which provides for the construction of "almost zero energy buildings".

 <p>Elettra Sincrotrone Trieste</p>	<p>Elettra Sincrotrone Trieste s.s. 14 km 163,500 in Area Science Park - 34149 Basovizza (Trieste) Tel.: +39 040-37581 Email: info@elettra.eu Web site: https://www.elettra.trieste.it/</p>
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Elettra - Sincrotrone Trieste S.C.p.A. (*Società Consortile per Azioni*) is a non-profit Share Company of national interest pursuant to Law 370/99 of the Italian Republic. A international multidisciplinary research centre of excellence, specialized in synchrotron and free electron laser radiation and their applications in materials and life sciences. Its mission is to promote cultural, social and economic growth through: basic and applied research; technology and knowledge transfer; advanced technical, scientific and management training; the creation and coordination of national and international scientific networks. The main resources of the research centre are two advanced light sources, the Elettra accumulation ring and the FERMI free electron laser (FEL). Operating continuously (H24), they provide overall "color" and defined quality light to over 30 experimental stations that allow characterization of the structure and function of materials, with sensitivity down to the molecular and atomic level. Every year scientists and engineers from more than 50 countries compete, through the submission of proposals, to access the research center and use time on the experimental stations. The proposals are selected by committees of international experts on the basis of pure scientific merit and potential impact.

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Bluenergy Assistance S.r.l.

Via Gallerio 6 - 33033 Codroipo (Udine)
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Email: assistance@bluenergygroup.it
Web site: <https://www.bluenergyassistance.it/>

Bluenergy Assistance is an Energy Service Company (ESCO) and energy provider. The company is the operational section of Bluenergy Group S.p.A. for the search for advantageous and efficient solutions for the construction of heating and air conditioning systems for residential buildings, large thermal power plants and energy saving control systems for companies. Bluenergy Assistance is in possession of all quality certifications and is equipped with certificates of qualification for the execution of public works (SOA - *Società Organismo di Attestazione*). With Bluenergy Assistance public bodies and companies can achieve their goals of optimization, upgrading and maintenance of plants and buildings, taking advantage of innovative energy solutions.



AEIT - Italian Association of Electrical Engineering Electronics, Automation, Information Technology and Telecommunications

Via Mauro Macchi 32 - 20124 Milano
Tel.: +39 02 873 899 60
Web site: <https://www.aeit.it/>

AEIT is a cultural association based on Societies active in the fields of electrical engineering, computer science, telecommunications and related technologies. AEIT was formed on 1 January 1897 with the original name of "AEI - Italian Electrical Association" and is one of the oldest and well-known cultural associations. Since January 1, 2004 the AEIT was officially established, which includes over 6,000 Individual Members and about 350 Collective Members (Institutions, Universities and Companies) that operate in the strategic sectors of the Federation. With resolution of the General Council in 2013, the AEIT was statutory redefined as the Italian Association of Electrotechnics, Electronics, Automation, Informatics and Telecommunications. AEIT main goal is to promote and support: science and technology development in the fields of electronic, automation, ICT and telecommunications; application development in related fields with focus on future trends; members professional development; institutional relations with universities, schools, industries, agencies.





ABB S.p.A.

Via Vittor Pisani 16 - 20124 Milano
Web site: <https://new.abb.com/it>
Facebook: <https://www.facebook.com/ABBItalia/>
Twitter: <https://twitter.com/ABBItalia>

ABB was born in 1988 from the merger of two important European industrial entities: the Swedish ASEA, founded in 1883 and the Swiss Brown Boveri, founded in 1891, which already in 1903 acquired Tecnomasio Italiano, the oldest Italian electromechanical company created in 1863. In Italy ABB is present with operating

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units distributed in the north and centre of the country. It is divided into 5 Businesses: Electrification, Industrial Automation, Motion, Robotics & Discrete Automation, Power Grids at the service of utilities, industries and customers in the transport and infrastructure sectors. In Italy, the ABB Group has collected over the years the experiences and skills of many of the most well-known brands in the national electromechanical sector, important companies that have made the industrial history of the country such as Ercole Marelli, SACE, Officine Adda, IEL, AnsaldoTrasformatori and Elsas Bailey.

PP3	 <p>UNIVERSITÀ DEGLI STUDI DI TRIESTE</p>  <p>dipartimento di ingegneria e architettura</p>	<p>University of Trieste - Department of Engineering and Architecture (DIA)</p> <p>Via Alfonso Valerio 6/1 - 34127 Trieste Tel.: +39 040 558 7300 Web site: www.units.it Facebook: https://www.facebook.com/universitatrieste/ Twitter: https://twitter.com/UniTrieste</p>
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The Department of Engineering and Architecture (DIA) of the University of Trieste (UniTS) has a professional team mainly constituted by the researchers of the Laboratory of Grid Connected & Marine Electric Power Generation and Control (EPGC Lab.). The latter is a body focused on studying the management and control of electrical energy. Thus, one of the core activity of this qualified team into S3UNICA is represented by the monitoring and control of building consumption, through innovative solutions capable of improving the electrical energy exploitation. These competences are also shared with the public and private partners of UniTS in order to allow the exchange of experiences and therefore improve the collaborations with the stakeholders involved. Moreover, UniTS contributes on the electric power quality improvement among the new REP. Objectives of the partnership is to improve the definition of the regional policy commitments in order to reach the European policy targets and to provide a wide set of technical, financial and legislative smart solutions applicable both at regional and European level. The University of Trieste Campus is composed by connected buildings that have different uses and therefore different energy consumptions. UniTS has launched an efficiency program in order to rationalize and to monitor, through innovative solutions, the energy consumption. At its campus, the following activities are ongoing: recognition of existing and applicable microgrid infrastructures, analysis and assessment of the current energy infrastructure, and identification or design of innovative management technologies and models. The Stakeholders of UniTS are the same of those selected by the LP.

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PP4		Alba Local Energy Agency – ALEA Str. Trandafirilor nr.16, Birou 13, cod 510113, Alba Iulia, jud. Alba România Tel.: +40 258813405 Email: contact@alea.ro Web site: www.alea.ro Facebook: https://www.facebook.com/comunitatea.alea Twitter https://twitter.com/alea_ro
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Established in 2008, ALEA promotes EE and RES on local, regional and national level. It is the technical responsible in the set up and implementation of sustainable energy planning in Alba County, offering specialised advice and participating in numerous consultations and working meetings with stakeholders in the energy domain. ALEA is also an accredited supplier of energy management services at urban level according with the Romanian legislation, currently offering technical advice for several municipalities from Centre Development Region. In the field of EE of buildings ALEA conducted actions related to increasing EE, RES integration, energy monitoring, energy management. Moreover, ALEA organized raising awareness events related to RES and EE consumption. Inside of ALEA is operating the ANERGO - a regional energy observatory, acting as a platform for energy data management of many municipalities. ALEA, together with the main technical universities in Romania, has carried out energy related actions which showed that EE in university buildings requires special attention and the need for innovative EE solutions. In S3UNICA, capitalising on the experience exchange activities, ALEA will put forward technical solutions for future EE projects for university buildings, will identify the adequate action proposals for the Action Plan. ALEA will also focus on finding synergies between innovative smart solutions for EE in university buildings and other activities related to energy deployed by ALEA.

The Stakeholders of ALEA

	Regional Development Agency "Centru" – RDAC Strada Decebal 12, 510093, Alba Iulia, Judetul Alba Tel.: + 40 258818616 Email: office@adrcentru.ro Web site: http://www.adrcentru.ro/ Facebook https://www.facebook.com/ADRCentru.ro
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The mission of The Regional Development Agency Centru is to put into practice the plans and strategies elaborated in partnerships, to efficiently use the financial and human resources in order to assist the communities in the Centru Region, as well as to attract new resources. Main activities are focused on the elaboration and update of the Regional Development Plan (RDP) as well as the operational and sectoral plans and programs at regional level; the management of the funds allocated from the EU Funds, the national budget and from other sources; monitorisation of the implemented projects; promotion of the region and the activities arising from the regional development policies; provision of technical assistance to investors in disadvantaged areas, as well as monitorisation of the activities rolled out by the economic agents benefiting from facilities: development of national, interregional, and international partnerships. ADR Centru members will participate in events related to exchange of experience: the S3UNICA Regional Stakeholder Group as

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experts on financing EE works in buildings using EU funding; - the EE meetings in order to share knowledge on financing among the S3UNICA project partners.

 <p>UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA</p>	<p>Technical University of Cluj Napoca Strada Memorandumului 28, Cluj-Napoca 400114 Tel: +40 264401200 Email: contact@utcluj.ro Web site: https://www.utcluj.ro/ Facebook: https://www.facebook.com/utcluj.ro/</p>
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The Technical University of Cluj-Napoca comprises twelve faculties in the two academic centres, Cluj-Napoca and Baia Mare, as well as in locations, such as Alba-Iulia, Bistrita, Satu Mare and Zalau. The fields of study have a wide range, from engineering to architecture, fundamental sciences, socio-human sciences and arts. Research is, along with education, the main priority of the Technical University of Cluj-Napoca. In all faculties of the university there are research structures, from collectives, groups and laboratories, to research centres and platforms. The Faculties of Civil Engineering and Building Services runs an energy auditors for buildings certification programme. The University has also extensive collaboration on EU level in the framework of EU programmes dealing with EE. TUCN staff will participate at the S3UNICA Regional Stakeholder Group as experts in innovation and they will be part of the EE learning activities as well. Valuable input will be given by the TUCN for the elaboration of the S3UNICA Action Plan.

<p>PP5</p>	 <p>Agencia Andaluza de la Energía CONSEJERÍA DE HACIENDA, INDUSTRIA Y ENERGÍA</p>	<p>Andalusian Energy Agency, Regional Ministry of Finance, Industry and Energy, Andalusian Government – AEA C/ Isaac Newton, 6. Isla de la Cartuja, 41092 Sevilla Tel.: +34 954 78 63 65 Web site: www.agenciaandaluzadelaenergia.es Facebook: https://www.facebook.com/Agenciaandaluzadelaenergia Twitter: https://twitter.com/Agenciaandaener</p>
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The Andalusian Energy Agency is a public entity belonging to the Andalusian Government, is attached to the Regional Ministry of Finance, Industry and Energy. The Agency has been created by the Andalusian Parliament by Law 4/2003, of 23th September and its main objective is to develop regional policies to maximize, in energy, economic and environmental terms, and the energy supply of the Autonomous Community of Andalusia. Their main functions are:

- Improving the quality of energy services in Andalusia.
- Collaborating at the development of infrastructures for generation, transmission and distribution, encouraging the diversification of sources and reducing harmful emissions by promoting actions on RES, EE and low carbon emission technologies.
- Promoting technological innovation and R&D in the Andalusian energy sector to maximize EE and therefore avoiding energy losses in public and private facilities.


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- Strengthen international cooperation on energy technologies.
- Management of public incentives schemes of the Andalusian Regional Government on energy. Promoting energy saving and diversification and deployment of renewable installations in buildings and installations of the Andalusian government, through the Energy Network of the Andalusian, REDEJA.

The Stakeholders of AEA

LOGO NOT AVAILABLE	Energy Management Network of the Andalusian Regional Government (REDEJA) C/ Isaac Newton, 6. Isla de la Cartuja - 41092 Sevilla Tel.: +34 954 78 63 65 Web site: www.agenciaandaluzadelaenergia.es Facebook: https://www.facebook.com/Agenciaandaluzadelaenergia Twitter: https://twitter.com/Agenciaandaener
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The Energy Management Network of the Andalusian Regional Government (REDEJA) is the tool designed to promote energy saving and diversification in the Andalusian administration, as well as implement RES in buildings of the Andalusian Regional Government. REDEJA has been created by Agreement of the Governing Board of 26th June 2007, is established in the administration of the Andalusian Regional Government. The Andalusian Regional Government promote this network due to the high potential for energy and economic savings in many cases superior to 40%, through a specific, coordinated and effective management of the energy billing of the Andalusian Regional Government. The network is formed of centres of consumption of the General Administration of the Andalusian Regional Government and other organisms, administrations and public, reaching a current total of near 100, integrating 11 regional ministries. The members of the REDEJA network will participate at the S3 UNICA project as experts of the Andalusian Energy Agency and members of the regional stakeholders group, in order to share their knowledge in auditing and design Road Map for the 9 public Andalusian universities as for learning from the experiences of other partners around Europe in best practices related to RES, EE and smart grid and their applications to energy campus in relation with cities and towns.

	Technological Corporation of Andalusia (CTA) C/ Albert Einstein, s/n. Edificio INSUR, 4ª pta. PCT Cartuja, 41092 - Sevilla Tel.: +34 954 46 13 52 Email: cta@corporaciontecnologica.com Web site : https://www.corporaciontecnologica.com/en/index.html Facebook: https://www.facebook.com/CTAndalucia https://twitter.com/CTAndalucia
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Technological Corporation of Andalusia (CTA) is a private foundation that was born from a public-private partnership. For more than 14 years, CTA has been supporting R&D activities through financing, mentoring and cooperation with main Andalusian stakeholders, emerging as a singular multi-sectorial innovation cluster. CTA has funded more than 690 R&D business. Currently, CTA is owned by more than 166 companies, 70% of them SMEs. It enjoys the support of public authorities, universities, social agents and other bodies. It

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specialises in technology transfer and the evaluation and financing of R&D. CTA has considerable experience in promoting transverse projects which are based on the 7 priority sectors for the Andalusian economy, including Construction and Civil Engineering, Energy and the Environment and ICT. CTA members will participate at the S3UNICA Regional Stakeholder Group as experts in innovation in close collaboration with Andalusian companies and as financiers of innovative projects within the region.

PP7	 REGIONAL COUNCIL OF SOUTH KARELIA	Regional Council of South Karelia Kauppakatu 40 D, FI-53100 Lappeenranta Web site: www.ekarjala.fi Facebook "Etelä-Karjalan liitto" Twitter @EtelKarjalanlii @SouthKarelia
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Regional Councils in Finland are joint regional authorities mandated by national law to address cross-municipal issues of development within their geographical areas. The main tasks include regional development and planning activities, other tasks include promoting regional interests and international relations to support their core mission. The Regional Councils are involved in distribution of ERDF according to the Finnish National OP and responsible for the smart specialisation strategy process. The regional councils are enablers of cross-industrial development and transition to low-carbon economy through their means, primarily the Regional Plan developed every four years, continuous network activities and the funds distributed. The main role of the Regional Council of South Karelia within the S3UNICA project is to represent the policy viewpoint – directly and indirectly influenced and well as the management system of EU funds. The region is also committed to ambitious low-carbon goals which puts pressure of finding effective means to achieve this. In a relatively small region, the public-private-partnerships between university and surrounding region are established and can be modelled as well.

The Stakeholders of Regional Council of South Karelia

	City of Lappeenranta/ Greenreality Services Villimiehenkatu 1 53100 Lappeenranta Tel. +358 40 667 2235 Web site: https://www.greenreality.fi/en/ Twitter @GreenrealityLPR
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The City of Lappeenranta is the leading municipality of the region with about half of the population living there. Lappeenranta is also the location of LUT-University as well as LAB University of Applied Sciences. The City is committed to ambitious low-carbon goals. The Greenreality Services is a cross-sectoral internal service hub. Lappeenranta Greenreality Services is also the host for regional Greenreality Network public-private

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low-carbon platform as well as strategic partner and project manager in multiple development initiatives. Within S3UNICA the involvement of City of Lappeenranta is important as the leading municipality with its multiple functions as well as competence and role to mobilise real action concerning the low-carbon targets of S3UNICA. Lappeenranta is also doing strategic cooperation with the LUT-University and hence a stakeholder with critical position for both regional S3UNICA partners.

PP8	 LUT University	LUT University - School of Energy Systems Skinnarilankatu 34 - 53850 Lappeenranta Tel.: +358 294 462 111 Web site: https://www.lut.fi/web/en/school-of-energy-systems
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LUT University is a pioneering science university in Finland, bringing together the fields of science and business since 1969. LUT's international community is composed of approximately 6,000 students and experts engaged in scientific research and academic education. The main role of LUT University is to support the Regional Council of South Karelia (PP7) by providing insights of the state of the art from the point of view of systemic energy efficiency in North Karelian buildings and campuses. This involves at first a Smart Readiness Indicator (SRI) study to be performed for LUT campuses, to form a basis for further discussions with the local stakeholders, later also with the S3UNICA partners. LUT University has two campuses in two cities, Lappeenranta Campus and Lahti Campus. The campuses are heated by district heating, partly by heat pump systems. Lappeenranta campus has 500 kW installed solar power. In 2012, LUT was awarded the WWF Green Office certificate. The certificate has been renewed through an external assessment in 2019. LUT's environmental system was certified in 2014-2017 and has been continuously maintained and developed according to best practices. LUT was awarded in the International Sustainable Campus Excellence Award competition as the best university in the Excellence in Campus category in summer 2013.

The LUT School of Energy Systems' areas of expertise are energy engineering, electrical engineering, sustainability science and mechanical engineering. The School also includes LUT Voima, a unit that serves experimental research activities. Areas of research at the LUT School of Energy Systems include energy engineering, electrical engineering, environmental engineering and mechanical engineering. The research activity covers the technologies and systems required for the production, transfer, distribution and use of energy from manufacture and fuels all the way to energy consumption. The expertise forms an entity that is in line with lifecycle-thinking, and takes design of new applications, material choices, technological solutions and their environmental impacts, manufacturability, usability and EE into account. The LUT School of Energy Systems also coordinates the activities of the multidisciplinary Carelian Drives and Motor Centre research unit (CDMC). The unit is a centre of expertise jointly owned by the LUT and ABB. The centre's activities focus on demanding, long-term research and product development activities related to electric machinery, electric drives and EE. The Stakeholder of LUT is Greenreality Services, the internal service of City of Lappeenranta (see above PP7).

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PP9		<p>Association of Municipalities Polish Network “Energie Cités” (PNEC) 17/30 Sławkowska Str. 31-016 Kraków Tel.: +48 12 429 17 93 Web site: www.pnec.org.pl E-mail: biuro@pnec.org.pl Facebook: https://www.facebook.com/Stowarzyszenie-Gmin-Polska-Sie%C4%87-Energie-Cit%C3%A9s-1566886270206559/</p>
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The Association of Municipalities Polish Network “Energie Cités” (PNEC) is a non-governmental organisation which, since 1994, supports sustainable energy planning and implementation on the local level. PNEC activities include:

- promotion of energy efficiency and use of RES;
- increasing local authorities’ knowledge and capacities in the area of energy planning, energy management, energy optimisation, development of innovative energy solutions, etc.
- supporting local authorities in the elaboration of local climate & energy strategies, policies and action plans;
- implementation of projects supporting sustainable energy development of Polish municipalities and communities;
- organization of dedicated trainings, conferences, seminars, info events workshops, study tours, peer-to-peer learning schemes etc. devoted to climate & energy-related issues;
- publication of thematic material focusing on climate protection, climate adaptation and municipalities’ leading role in energy transition.
- supporting exchange of experience and ideas between its members and with other European municipalities and organisations;
- helping municipalities in identifying/obtaining funds, as well as partners for energy-related projects.

PNEC members are municipalities from all over Poland and of all sizes. It cooperates with partners from all over Europe. Since April 2009 it is a Covenant of Mayors Supporter and, as such, it is actively engaged in boosting the CoM implementation in Poland. Within the S3UNICA project PNEC will actively engage in interregional and regional exchange of experience and good practices and testing new tools. It will also support the city of Bielsko-Biała in strengthening collaboration with the university sector to make use of its energy efficiency and energy innovation potential.

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The Stakeholder of PNEC

	<p>Municipality of Bielsko-Biała Plac Ratuszowy 1/6 - 43-300 Bielsko-Biała Tel. +48 33 4971 497 E-mail informacja@um.bielsko.pl Web site: https://www.bielsko-biala.pl/ Facebook: https://www.facebook.com/bielskobiala.profiloficjalny</p>
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Bielsko-Biała (approx. 178 000 inhabitants) is located in the southern part of Poland, in the Silesian Voivodeship. The city is very active, dynamically developing and – due to its location at the foot of the Beskid mountains - attractive for the tourists. Bielsko-Biała is also a Polish forerunner in terms of energy management. Both its authorities and citizens are involved in many environmentally-friendly initiatives and the city is one of the first Covenant of Mayors signatories. In 2010 Bielsko-Biała's City Council approved local Sustainable Energy Action Plan, which was the first document of this kind adopted in Poland. The SEAP shows how the city plans to achieve its climate & energy targets set for the period 2010-2020. In August 2015 another important document was unanimously approved for implementation - a "Low Emission Development Programme and a new Sustainable Energy Action Plan for Bielsko-Biała", which is an update of the plan from 2010. Within the past years the city implemented many projects aiming at the reduction of GHG and air pollutants emissions, as well as raising energy awareness of the citizens. It thermally retrofitted many public buildings, invested in renewables, modernised public transport system, launched city bike, co-financed replacement of old and inefficient boiler houses in private households and many others. It also runs a long-term educational and engagement campaign called "Bielsko-Biała protects the climate". Within the campaign the city organises annual Energy Festivals and cooperates with the educational sector, from kindergartens to high schools. Within the S3UNICA project, Bielsko-Biała wants to establish stronger cooperation with the university sector to be able to better consider its energy efficiency and energy innovation potential when planning future strategies and activities.