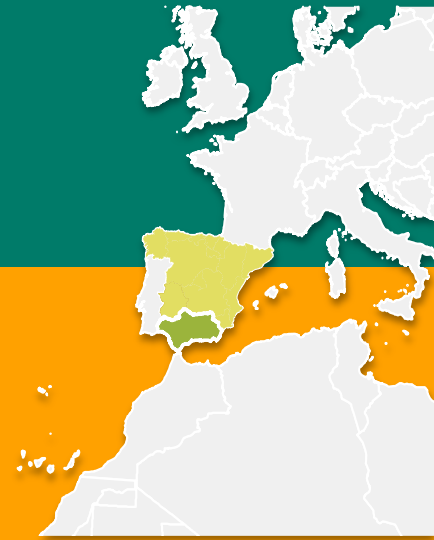




European Week of  
Regions and Cities

Brussels  
10-13 October 2016



Region: Andalusia (Spain)

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Topic of reference: Energy - **ENERGY EFFICIENCY IN BUILDINGS**



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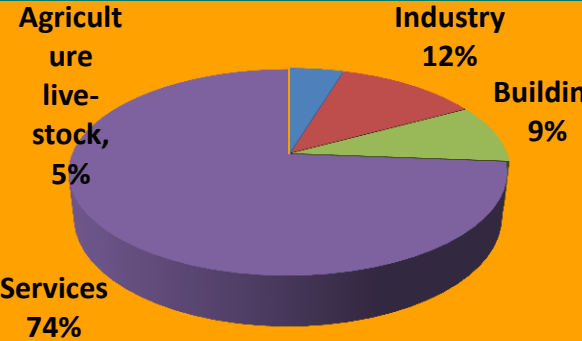
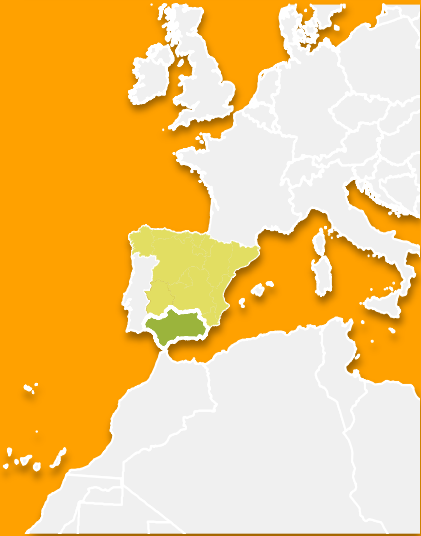
# Andalusia



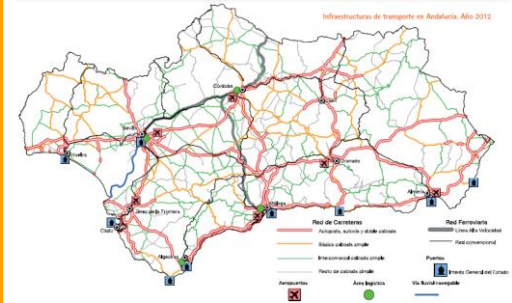
GDP 16.666 € pc (2013)  
73% pc EU 27 (2011)

Area 87.597 km <sup>2</sup>	Population (2014) 8.392.635
<b>Transition Region</b>	
Nº of companies (2013) 472.370	83% qualified working population  34,2 % university graduates

Total spending R&D /GDP 1,1%  
Private sector 36,3 %

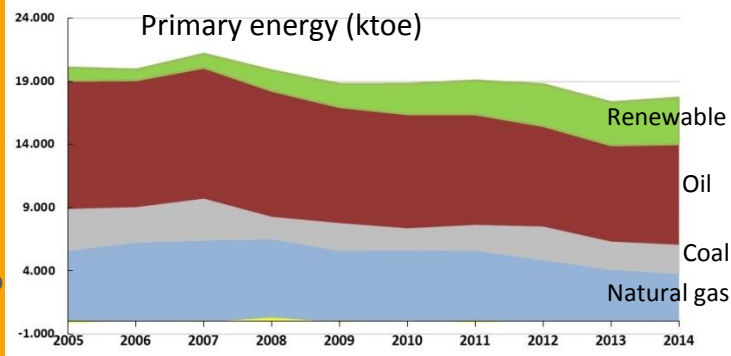


Excellent communication  
networks



Andalusia has a very **high potential of renewable resources** due to its geographical situation, climatology and morphology.

The use of renewable energies has **tripled in the last 10 years** and currently contributes up to 20% of the total energy consumed.





## Andalusia: Competitive Advantages

The **Andalusian energy sector** has experienced an important growth of renewable energy in recent years which has generated a new business field. The sector as a whole is formed of more than 7,800 companies (17.4% in renewables) that generate 125,000 jobs (36.2% in renewables.)

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Experience in the implementation of a wide set of programmes aimed at **improving energy efficiency** in construction, tourism and industry, with an important number of companies, some of them being leaders in their field.

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Experience in the **construction sector**, with a high volume of skilled workers in the different industries linked to it and several centres and research groups with experience in the development of new material, such as multifunctional, ceramics or micronised marble that play an important role in knowledge transfer and technology with the sector.

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World leader in some areas and **technologies of renewable energy**, such as solar energy, biomass and biofuels.

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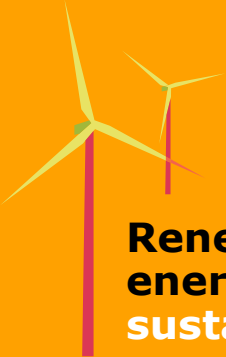
**Research centres of reference** in these areas, such as the **Solar Platform of Almeria** - considered as one of the most important technological research centres in the world, biomass testing facilities belonging to the Advanced Technological Centre for Renewable Energy (CTAER) in Mengíbar (Jaén); as well as the Solúcar Platform in Sanlúcar la Mayor (Seville).

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## RIS3 energy priorities in Andalusia



**Renewable energy,  
energy efficiency and  
sustainable construction**

### Principle of governance



- ➔ **Development of land and marine renewable energy**
- ➔ **Energy smart grids**
- ➔ **High capacity systems of energy storage**
- ➔ **Energy efficiency in businesses, houses and institutions**
- ➔ **Energy sustainability in rural areas**
- ➔ **New construction designs and materials and sustainable processes**



## Why a Sustainable Construction is a priority in Andalusia?

**Objective and regulations of the EU:** Specialisation in energy saving and efficiency and use of renewable energies.

Relevance of the **construction sector:** 8.5% GVA and 5% employment, major energy consumer.

Potential **energy saving and efficiency in building stock.**

Urgent need to **boost** the sector with **all available means.**

Agreement for **Social and Economic Progress** of Andalusia.



## Initiatives in the framework of the RIS3

### a) Programme to Promote Sustainable Construction



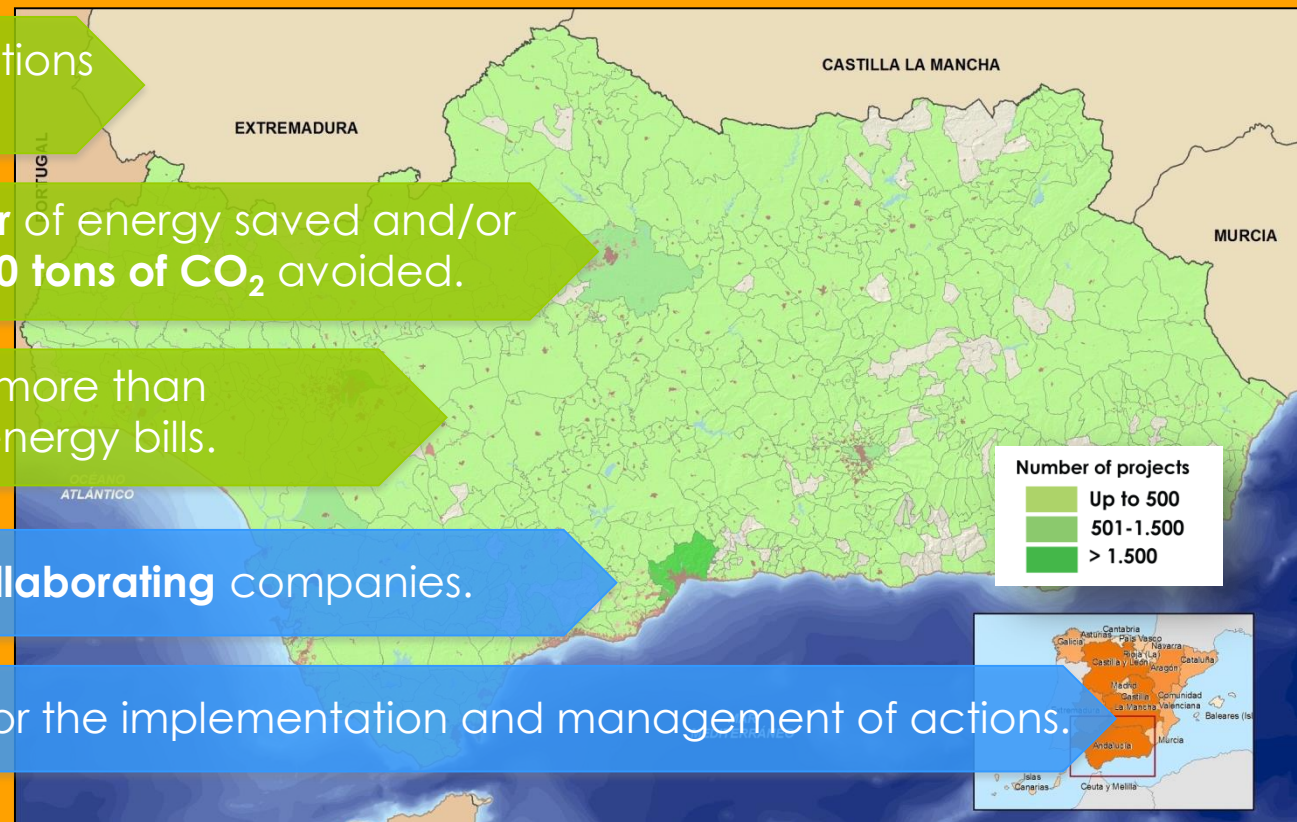
More than **36,000** actions implemented.

Near **36,000 toe/year** of energy saved and/or diversified and **85,000 tons of CO<sub>2</sub>** avoided.

Economic saving of more than **280 million euros** in energy bills.

More than **8,300 collaborating** companies.

**17,000 direct jobs** for the implementation and management of actions.





## b) Plan for the Sustainable Construction and Rehabilitation of Andalusia, Horizon 2020 .

**Funds:** Provided with **529 million euros** until 2020, with budgets available from the European Union and the Andalusian Regional Government.

**Objective:** to promote the **energy rehabilitation of buildings** and urban rehabilitation, improve the **competitiveness of companies** of the construction sector, create **skilled employment** and **reduce energy poverty**.

Based on **innovation and technological development**, with a strong alignment to the “Smart Specialisation Strategy” in Andalusia (RIS3) where the innovative actions are especially supported.

**Key innovative aspect:** multidisciplinary approach including financial schemes, capacity building, innovation, awareness raising and combating energy poverty, amongst others.





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## Energy Efficiency in buildings in Andalusia 2016-2020



CONSTRUCCIÓN  
**SOSTENIBLE**  
en Andalucía Andalucía se mueve con Europa

**189 M€**

Energy rehabilitation of buildings, lighting architecture, renewable energies, energy improvement of installations **in Andalusian public and private buildings.**



Incentive scheme for the **sustainable energy development** of Andalusia 2020

**164 M€**



**Investment** Plan for energy efficiency in buildings of the Andalusian Regional Government (**REDEJA**)

**25 M€**

**NEW ORIENTATION AIMING TO CREATE VALUE, VALUE, VALUE....**





# Why cooperation is important to better implement your RIS3 energy-related priorities?

Map of Smart Specialisation: **Eye@RIS3**  
<http://s3platform.jrc.ec.europa.eu/>.

Name	NUTS ID	Description	Research & Innovation Capabilities	Business Areas & Target Market	EU Priority
Castilla y León	[ES41]	Energy & su...	1. Energy production & distribution	1. Construction	1. Sustainable innovation
Helsinki-Uusimaa	[FI1B1]	Cleantech	1. Energy production & distribution	1. Construction	1. Sustainable innovation
Kymenlaakso	[FI1C4]	Clean energy an...	1. Energy production & distribution 2. Power generation/renewable sources	1. Construction 2. Construction of buildings	1. Sustainable innovation 2. Eco-innovations
Centre	[FR24]	Energy efficien...	1. Energy production & distribution 2. Power generation/renewable sources	1. Construction 2. Construction of buildings	1. Sustainable innovation 2. Sustainable energy & renewables



Towards a Model of Sustainable Construction and Energy Efficient Buildings.





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# BUILD2LC: Boosting low carbon innovative building rehabilitation in European regions



Total budget: **1.658.987 €**  
Co-financing: 274.341,85 €  
ERDF contribution: **1.384.645,15 € (83,4%)**



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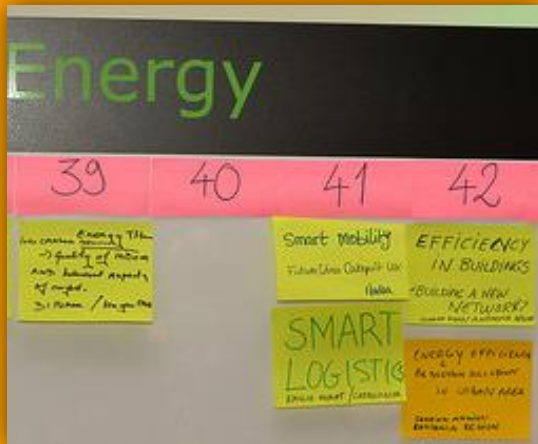
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# Extending collaboration to other regions

## SMART REGIONS Conf..

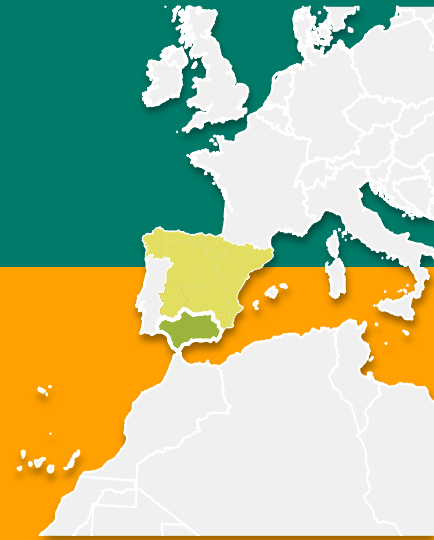
SMART REGIONS Conference-1-2 June 2016 – Square, Brussels





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