



**REGIONS
& CITIES**

European Week
Brussels 9-12 October 2017

European Hub for Applied Solar Research

Smart Specialisation Partnership on Solar Energy

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1. Introduction

1.1 million inhabitants

Area 41,634 Km²

GDP 17€ billion



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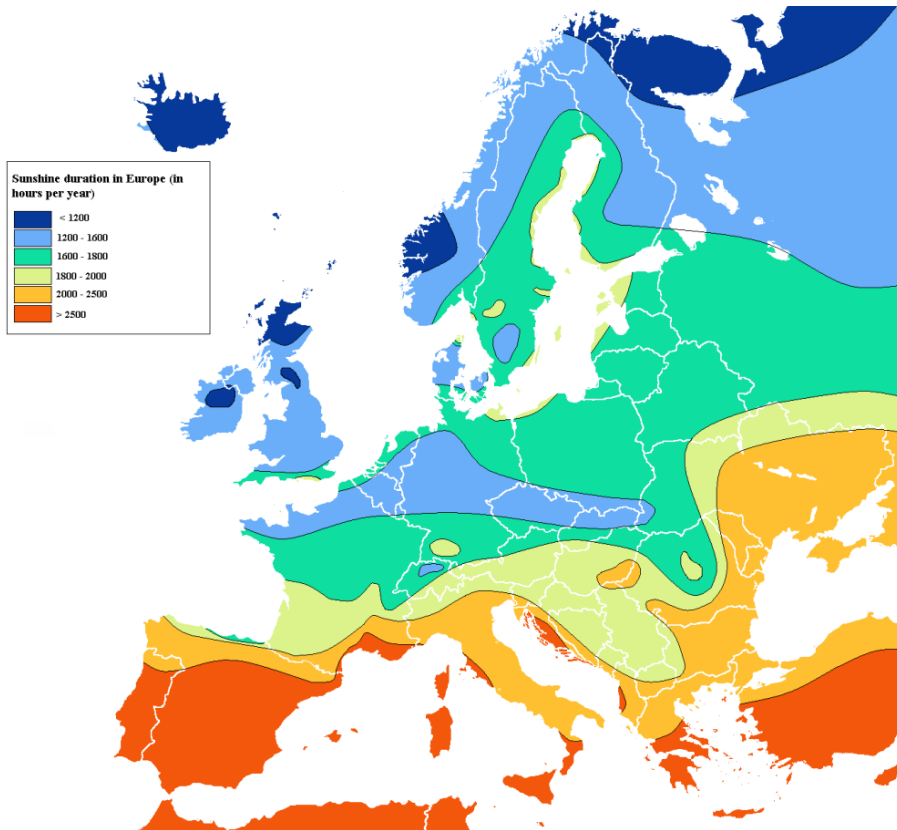


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2. Extremadura's Solar Potential



- We hold the first world position in solar coverage of electricity demand (60,99% in the year 2016)
- Extremadura gathers more than 40% of Spanish installed CSP power and over 30% of installed PV power



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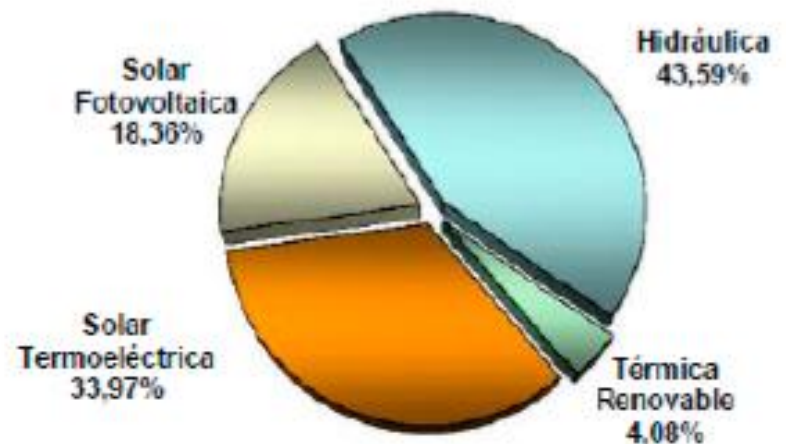
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2. Extremadura's Solar Potential

	Producción energía eléctrica renovable neta en Extremadura 2016 (GWh)	Aportación en % a la producción renovable neta
Solar Termoeléctrica	1.962	33,97
Solar Fotovoltaica	1.061	18,36
Hidráulica	2.519	43,59
Térmica Renovable	236	4,08
Producción Renovable neta total	5.778	

Aportación en % a la Producción Renovable Neta en Extremadura 2016

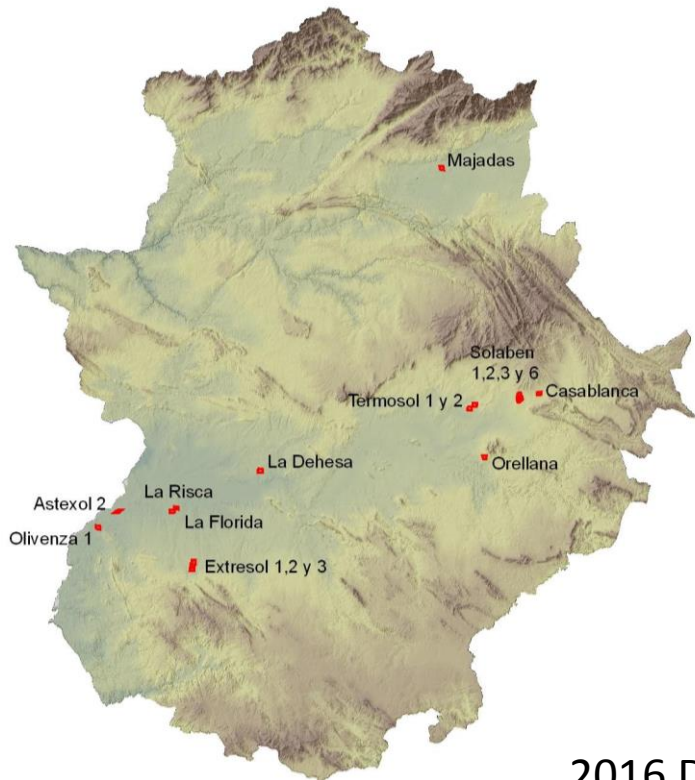


Net electric consumption in Extremadura 2016 = 4.957 GWh

Net electric RES production in Extremadura 2016 = 5.778 GWh



2. Extremadura's CSP Potential

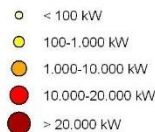
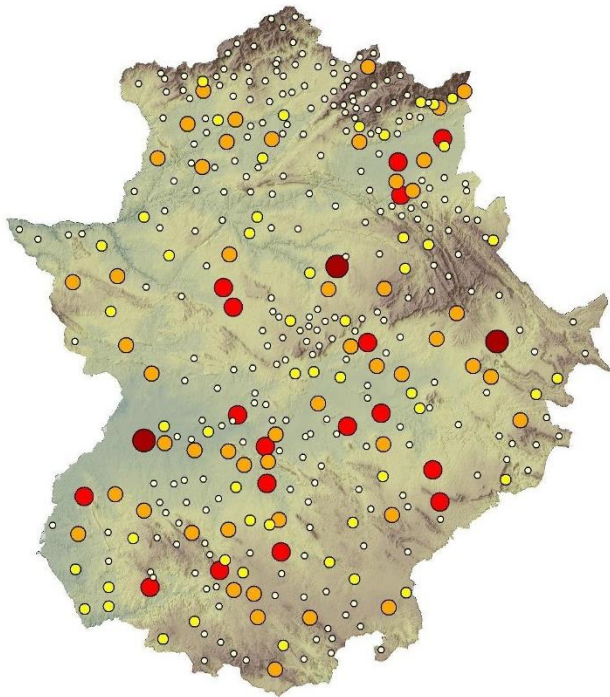


2016 Data

- **There are 17 CSP plants commercially running in Extremadura**
- **Total installed power of 850MW**
- **Electric energy production by this technology reached 1.962 GWh**
- **33,97% of net renewable electric energy was obtained from thermo-solar facilities**



2. Extremadura's PV Potential



2016 Data

- **Total installed power of 560 MW**
- **3 plants of 500, 300 and 250 MW are currently in administrative process**
- **Electric energy production by this technology reached 1.061 GWh**
- **18,36% of net renewable electric energy was obtained from PV facilities**



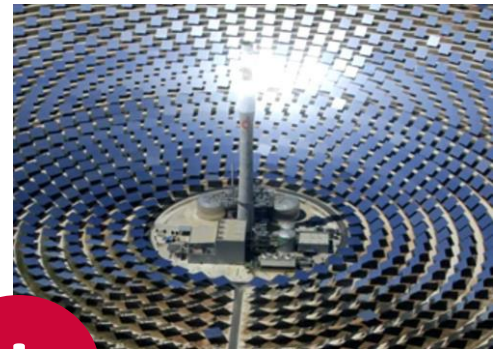
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3. The Importance of Solar Energy in Europe

- ✓ Europe is an industrial leader in the solar energy sector
- ✓ Many EU countries currently develop this technology
- ✓ Manufacturers can be found in more than 10 countries
- ✓ Plants built in Southern Europe could deliver their production to Central and Northern European countries





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4. Solar Energy Partnership



Leading region



Participating regions



Kick off meeting in Brussels

17th of May, 2017:

- **Define main targets**
- **Set up a roadmap**
- **Propose a lead region: Extremadura**



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5. Our Initiatives

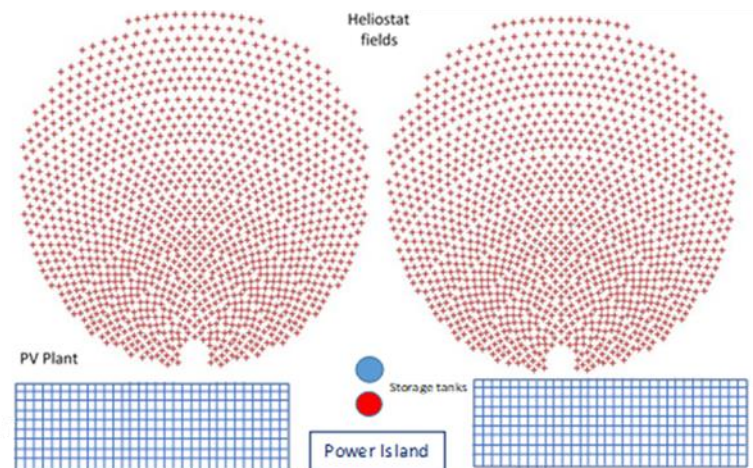
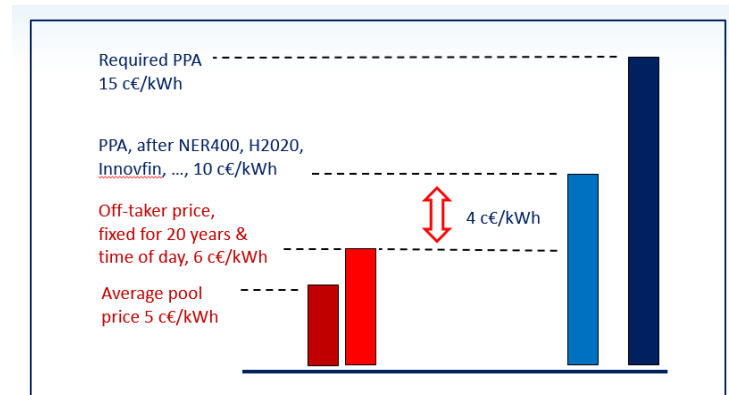
1st Initiative  2 Core Projects

- **INIESC - Alentejo**

Infraestrutura Nacional de
Investigação para Energia
Solar de Concentração

- **Extremadura PPP**

Build a commercial size innovative
STE plant to export its production
to a Central European country






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5. Our Initiatives

2nd Initiative  Generation of Steam by Medium Temperature Thermoelectric Solar for Agroindustrial Applications

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6. Next Steps

Strategic Business Plan -> Novadays Consultant

Innovation Camp -> European Commission & JRC

Energy team: 11-12 October, Brussels

2nd Partnership Meeting -> In Mérida, Spain

November, 2017



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Many thanks for your
attention!

JUNTA DE EXTREMADURA