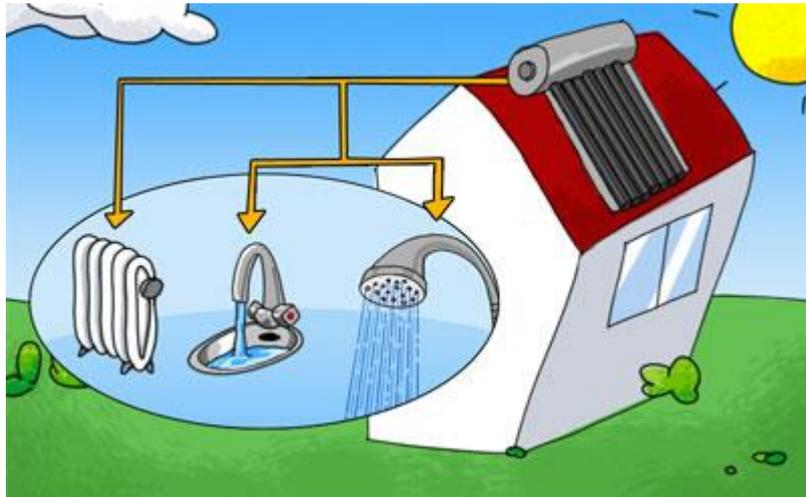


# FINANCIACIÓN DE LA I+D+I SOLAR MT EN H2020



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Grupo Especializado Solar Concentra Madrid 18 de febrero de 2017

# Estructura y Presupuesto

<b>HORIZONTE 2020</b>		<b>74.828</b>
<b>I. Prioridad «Ciencia excelente»</b>		<b>24.232</b>
1. El Consejo Europeo de Investigación (CEI)		13.095
2. Las Tecnologías Futuras y Emergentes (FET)		2.585
3. Las acciones Marie Skłodowska-Curie		6.162
4. Las infraestructuras de investigación		2.390
<b>II. Prioridad «Liderazgo industrial»</b>		<b>16.466</b>
1. Liderazgo en tecnologías industriales y de capacitación:		13.035
1.1 Tecnologías de la información y la comunicación (TIC)		7.423
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas		3.741
1.4 Biotecnología		501
1.6 Espacio		1.403
2. Acceso a la financiación de riesgo		2.842
3. Innovación en las PYME		589
<b>III. Prioridad «Retos de la sociedad»</b>		<b>28.630</b>
1. Salud, cambio demográfico y bienestar		7.257
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y de aguas interiores y Bioeconomía		3.708
3. Energía segura, limpia y eficiente		5.688
4. Transporte inteligente, ecológico e integrado		6.149
5. Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas		2.956
6. Europa en un mundo cambiante – Sociedades inclusivas, innovadoras y reflexivas		1.258
7. Sociedades seguras – Proteger la libertad y la seguridad de Europa y de sus ciudadanos		1.613
<b>IV. Difundir la excelencia y ampliar la participación</b>		<b>816</b>
<b>V. Ciencia con y para la sociedad</b>		<b>445</b>
<b>VI. Acciones directas no nucleares del Centro Común de Investigación (JRC)</b>		<b>1.856</b>
<b>VII. Instituto Europeo de Innovación y Tecnología (EIT)</b>		<b>2.383</b>

Precios corrientes en M€

# RS3: Programme Structure Call 2016-2017

**Secure Clean and efficient Energy**

**Cross-Cutting activities**

**Energy Efficiency**

25 Topics  
Budget: 194 M.€

**Low Carbon Technologies**

36 topics  
Budget: 720,22 M.€

**Smart Cities and Communities**

1 topic  
Budget: 131,5 M.€



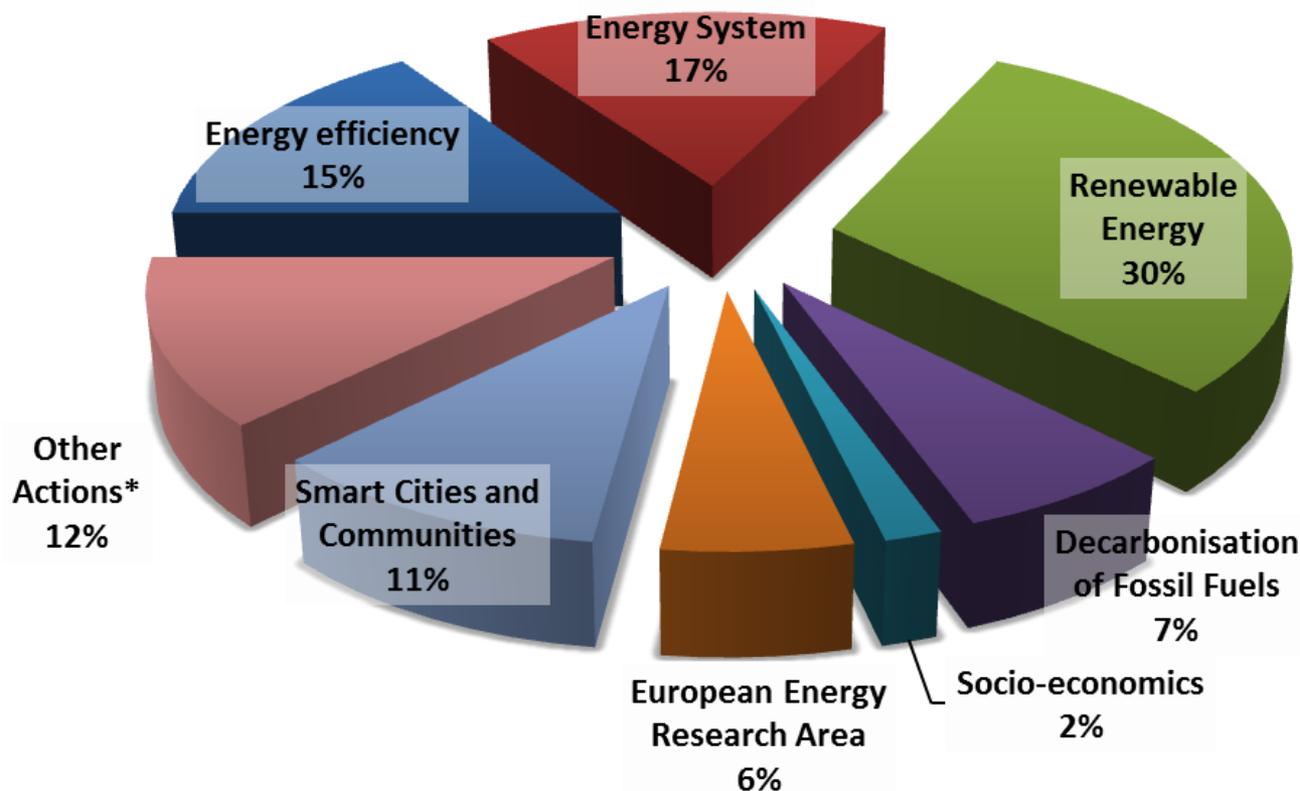
**EASME**

**INEA**

(EACI)

(TEN-T EA)

# Indicative budget distribution per area for Energy calls 2016-2017



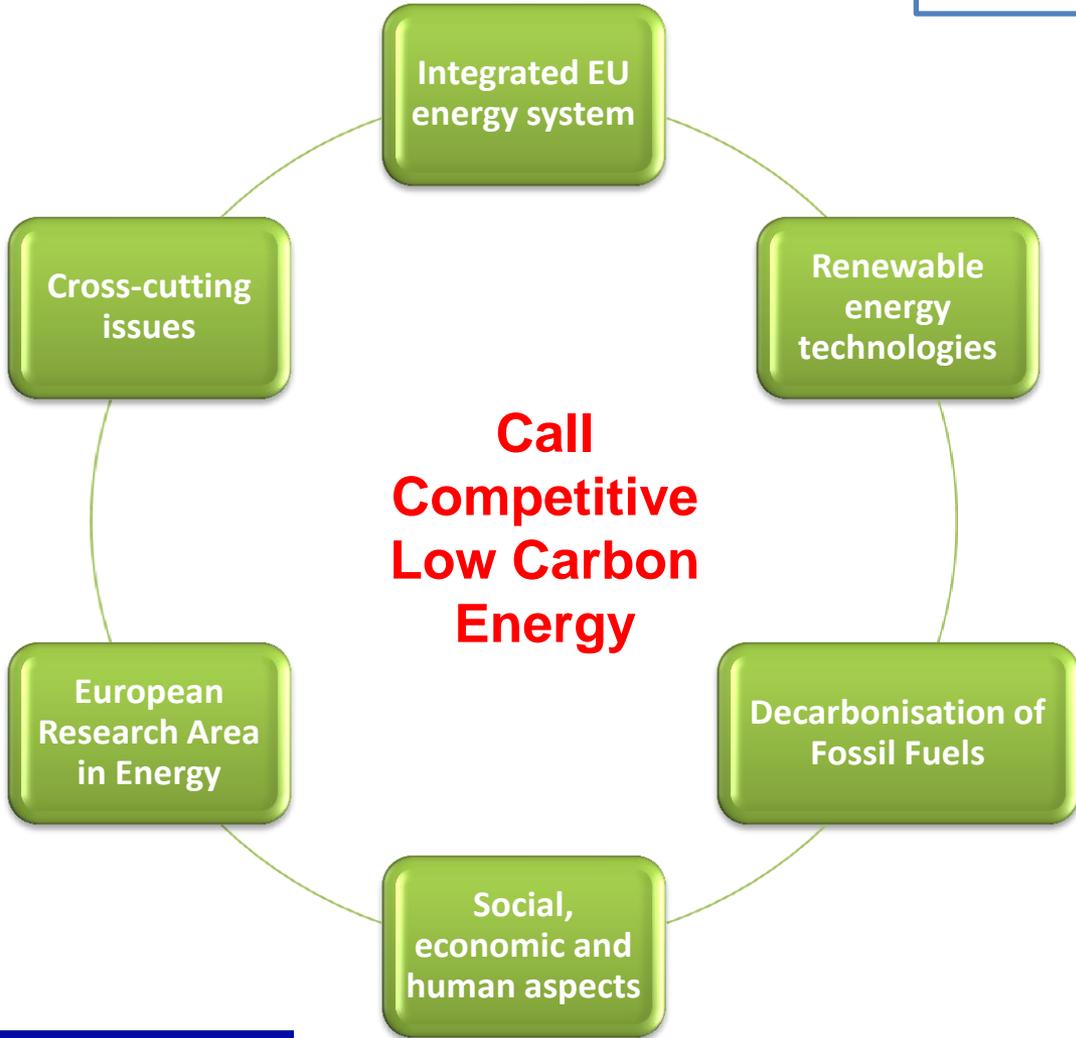
Total budget 2016-2017: EUR 1 344 million

\* *Other Actions* = actions not implemented through calls for proposals (e.g. Risk Finance, procurements, subscriptions, contributions, grant to identified beneficiaries)

Interconnections



Suministro de electricidad a bajo coste y de baja emisión de carbono





# Renewable energies

- Support the **next set of technologies** for **cost-competitiveness** and market introduction (off-shore wind, certain areas of PV, CSP, tidal and wave energy, and geothermal energy);
- **Continue supporting** those technologies that have **started to reach cost-competitiveness but where continued efforts are needed** (on-shore wind, areas of PV, advanced biofuels, and solar heating and cooling);
- Continue supporting **new and emerging technologies** (e.g. advanced and solar fuels, ocean thermal energy conversion (OTEC), Saliency gradient energy, etc.), **mature technologies where further innovation remains important** (hydropower, PV-thermal) and **replace critical pollutant/expensive materials by eco-friendly/sustainable materials**.



# Renewable energies

	Basic Research (TRL <4)	Advanced Research (TRL 3-5)	Demonstration (TRL 5-7)	Market uptake
PV	LCE-6	LCE-7	LCE-9, LCE-10	LCE-21
CSP			LCE-11	
<b>Solar Heating and Cooling</b>			LCE-12	<b>N/A</b>
Wind Energy			LCE-13, LCE-14	LCE-21
Ocean Energy			LCE-15, LCE-16	
Hydropower				
Geothermal Energy			LCE-17, LCE-23, LCE-18	
CHP				
RES integration in the system				
Bio- and Renewable Alternative Fuels			LCE-8, LCE-22	LCE-19, LCE-20



# Solar Heating and Cooling (SHC)

- Mature technology exists but it still remains under-exploited;
- New technology is needed to enlarge the application sectors;
- Issues of cost, performance and operability still exist;
- Cost competitiveness and acceptability of solar heating systems need to be improved

## ***Advanced research (RIA)***

- Development of components for residential single-family solar-active houses – *LCE-7-2016-2017 (sólo segunda fase pendiente)*

## ***Demonstration (IA)***

- **Solar heat in industrial processes – *LCE-12-2017***

# Resultados H2020: 2014-2015 y provisionales 2016

# WP2014-2015

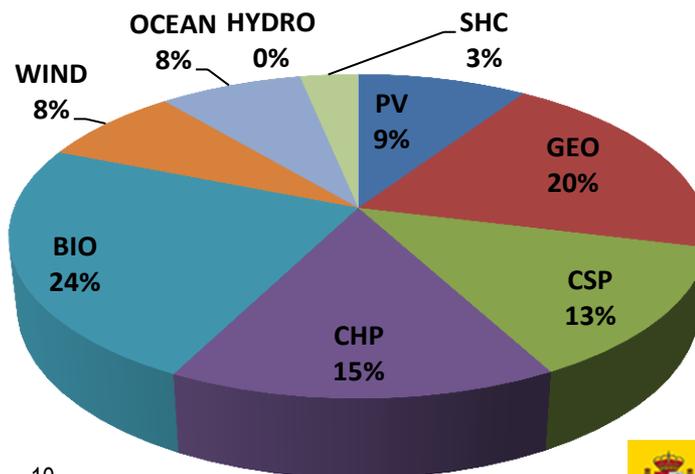
## Tecnologías topics LCE-2 y LCE-11 RIA

	2014			2015			TOTAL	
	Proposals	Funded	Subv (M€)	Proposals	Funded	Subv (M€)	Funded	Subv (M€)
PV	36	2	9,5	47	1	3,3	3	12,8
GEO	11	2	12,1	18	3	14,9	5	27
CSP	25	1	6,5	13	2	11,8	3	18,3
CHP	31	2	12,1	19	2	9	4	21,1
BIO	81	2	10,6	88	4	22	6	32,6
WIND	25	1	7,3	10	1	3,5	2	10,8
OCEAN	25	0	0	20	2	10,8	2	10,8
HYDRO	9	0	0	4	0	0	0	0
SHC	18	0	0	6	1	4,4	1	4,4
<b>Total</b>	<b>261</b>	<b>10</b>	<b>58,1</b>	<b>225</b>	<b>16</b>	<b>79,8</b>	<b>26</b>	<b>137,9</b>

### CALL 2015

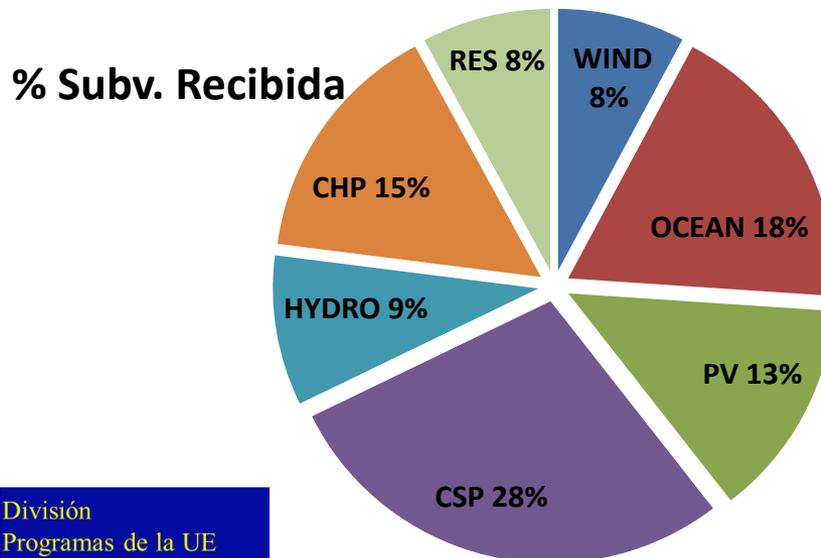
SOLPART- CNRS (FR)

ABENGOA RESEARCH



# WP2016 Tecnologías topics LCE-7 RIA

	2016			2017			TOTAL	
	Proposals	Funded	Subv (M€)	Proposals	Funded	Subv (M€)	Funded	Subv (M€)
PV		2	8,5				2	8,5
GEO		0	0					
CSP		4	17,9				4	17,9
CHP		2	9,6				2	9,6
WIND		1	4,9				1	4,9
OCEAN		3	11,7				3	11,7
HYDRO		1	5,9				1	5,9
RES		1	5,0				1	5,0
SHC		0	0				0	0
<b>Total</b>	<b>76</b>	<b>14</b>	<b>63,5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>63,5</b>





**ÁMBITO DE INVESTIGACIÓN:** photovoltaics (PV) and concentrating solar power (CSP)

**LÍNEAS TEMÁTICAS:**

- A) Innovative and low-cost PV manufacturing issues
- B) Advanced PV products and applications
- C) PV system integration
- D) CSP cost reduction and system integration

**ORIENTACIÓN Y TRLS (Investigación, Desarrollo, Demostración, Innovación):** I+D+D, TRL 5-6 a 6-7.



## IMPORTANT DATES:

- Brokering webinar: 12 December 2016,
- Deadline for submitting preproposals: 20 February 2017
- Official opening of the Call: 5 December 2016
- Deadline for Full proposal: 15 June 2017
- Feedback on funding decisions and project starts from end of 2017



## ELEGIBILIDAD :

- Consortia of a minimum of **2 partners from 2 different countries participating in the SOLAR-ERA.NET** Cofund joint call. At least one partner in the consortium must be from industry.
- The project duration is limited to max. **36 months**.
- **Preproposals: 20 February 2017, highest quality invited to full stage**

<http://www.solar-era.net/>