

Desafio Societal 3 – Energia segura, não poluente e eficiente



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H2020

Objetivos estratégicos na área da Energia no Horizonte 2020

**Redução do
consumo**

**Eletricidade
hipocarbónica**

**Combustíveis
alternativos**



**Uma rede
europeia única e
inteligente**



Programa de Trabalhos do Desafio Societal 3 (2016-2017) – Concursos Abertos 2016 & 2017



CALL ENERGY EFFICIENCY

2016 - 9 TÓPICOS → até 15/09/ 2016

2017 - 14 TÓPICOS → até 05/01/2017 & 07/09/2017

136M €



CALL LOW CARBON ENERGY

2016 - 12 TÓPICOS → até 07 /06/2017

2017 - 22 TÓPICOS → até 07 /06/ 2017

487M €



CALL SMART AND SUSTAINABLE CITIES

Lighthouse projects (SCC1)

2016 – 1 TÓPICO → até 5/04/2016

2017 - 1 TÓPICO → até 14 /02/2017

131M €

Programa de Trabalhos de Energia 2016-2017

ENERGY EFFICIENCY – 25 TÓPICOS



SMART CITIES AND COMMUNITIES – 1 TÓPICO



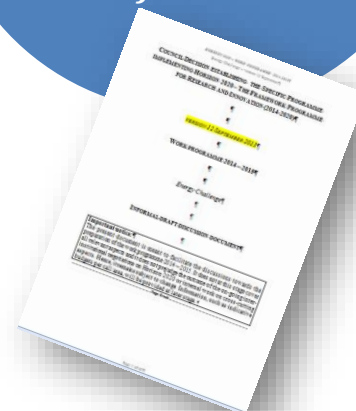
COMPETITIVE LOW CARBON ENERGY – 37 TÓPICOS



SMES FOR A LOW CARBON ENERGY AND EFFICIENT ENERGY SYSTEM 1 TÓPICO



*Programa de
Trabalhos 2016-
2017
– Energia Segura,
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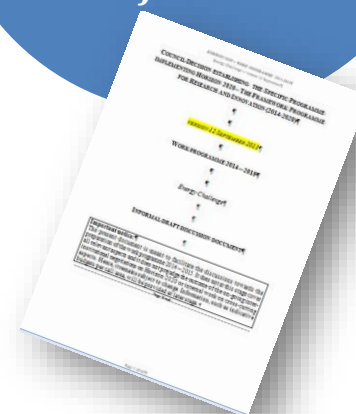
http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-energy_en.pdf

Programa de Trabalhos de Energia 2016-2017

ENERGY EFFICIENCY – 25 TÓPICOS



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Desafio Societal Energia – Concursos 2016/2017 – Eficiência Energética

Áreas de financiamento



Sistemas de Aquecimento e Arrefecimento



Edifícios e Consumidores



Indústria e Produtos



Investimento



Aquecimento e arrefecimento

Heating and Coolings	TOPIC	Type of scheme	€/project
EE 1 – 2017	Waste heat recovery from urban facilities and re-use to increase energy efficiency of district or individual heating and cooling systems	IA (TRL 6-8)	3-4M€
<i>Keywords: Waste heat and waste water heat recovery in urban areas in services sector and transport system facilities</i> <i>Important aspects: replicability scalability, modularity; build on previous projects supported in FP7 and H2020</i>			
EE 2 – 2017	Improving the performance of inefficient district heating networks	CSA	1-2M€
<i>Keywords: concrete regional or national action plans for the retrofitting of inefficient district heating networks</i>			
EE 4 – 2016/2017	New heating and cooling solutions using low grade sources of thermal energy	RIA (TRL4-6)	3-4M€
<i>Keywords: technologies to use low grade energy sources (residual and RES sources of thermal energy) and/or technologies that are able to take advantage of very low and low (moderate) temperature resources by upgrading them</i>			



Consumidores

Engaging consumers	TOPIC	Type of scheme	EC Contribution
EE 6 – 2016/2017	Engaging private consumers towards sustainable energy	CSA	1-2M€

Keywords: awareness of the collective consumer action, actions to motivate changes, prosumers, vulnerable consumers, ict-solutions, understading energy bills

EE 7 – 2016/2017	Behavioural change toward energy efficiency through ICT	IA	1-2M€
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Keywords: ICT-based solutions (smart meters, smart plugs, smart appliances), energy savings, factors influencing consumer choices and behaviour

EE 9 – 2016/2017	Engaging and activating public authorities	CSA	1-1,5M€
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*Keywords: a) develop, finance and implement sustainable energy plans and measures
b) peer to peer learning for pub. Authorities – capacity to help deliver the energy transition*



Edifícios

Buildings	TOPIC	Type of scheme	EC Contribution
EE 11 – 2016/2017	Overcoming market barriers and promoting deep renovation of buildings	IA (TRL 6-8)	1-2M€
<i>Keywords: remove regulatory barriers and non-regulatory barriers, at least 60% of energy savings, financial mechanisms, instruments and business models</i>			
EE 12 –2017	Integration of Demand Response in Energy Management Systems while ensuring interoperability through PPP (EeB PPP)	CSA	3-4M€
<i>Keywords: Solutions to optimize the interaction between buildings and Intelligent Energy Management Systems towards optimizing, at building level, energy consumption, renewable energies production and local storage</i>			
EE 14 – 2016/2017	Construction skills	CSA	1-2M€
<i>Keywords: upgrading or setting up qualification and training schemes to increase the number of skilled building professionals/blue collar workers</i>			

Prazos de submissão – Concurso Eficiência Energética 2016

Concurso	Tópico	Prazo de Submissão
H2020-EE-2016-CSA	EE-06, 09, 11, 14	15/09/2016
H2020-EE-2017	EE-01, 04, 07, 12	19/01/2017
H2020-EE-2017-CSA	EE-02, 06, 09, 11, 14	07/06/2017

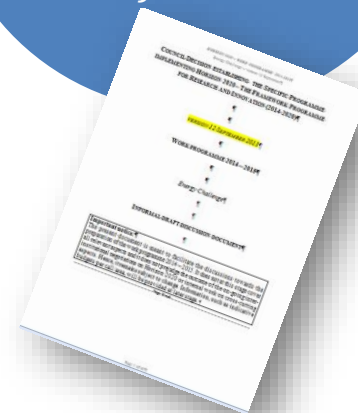
Programa de Trabalhos de Energia 2016-2017



**COMPETITIVE LOW CARBON ENERGY
– 37 TÓPICOS**



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COMPETITIVE LOW-CARBON ENERGY – Áreas

1. Towards an **integrated EU energy system**
2. **Renewable energy technologies**
3. Enabling the **decarbonisation of the use of fossil fuels** during the transition to a low-carbon economy
4. **Social, economic and human aspects** of the energy system
5. Supporting the development of a **European research** in the field of energy

Renewable Energies Technologies

Contexto

- Energy Union
- Desafios das alterações climáticas
- SET-Plan
- Acelerar a transição energética

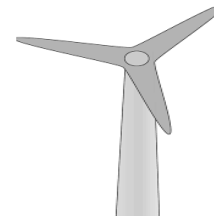


Investigação
Básica

Investigação
Avançada



Demonstração



Mercado



Portfolio Supported	Basic Research	Advanced Research	Demonstration	Market uptake
Photovoltaics	LCE-6-2017	LCE-7-2016/2017	LCE-9-2016	LCE-21-2017
			LCE-10-2017	
Concentrated Solar Power			LCE-11-2017	LCE-21-2017
Solar Heating and Cooling			LCE-12-2017	
Wind Energy			LCE-13-2016	
			LCE-14-2017	
Ocean Energy			LCE-15-2016	
			LCE-16-2017	
Hydropower				
Geothermal Energy			LCE-17-2016	
			LCE-23-2016	LCE-21-2017
		LCE-18-2017		
Combined Heat and Power				
RES integration in the system				
Bio and Renewable Alternative Fuels		LCE-8-2016/2017	LCE-19 -2016/2017	LCE-21-2017
		LCE-22-2016	LCE-20-2016/2017	

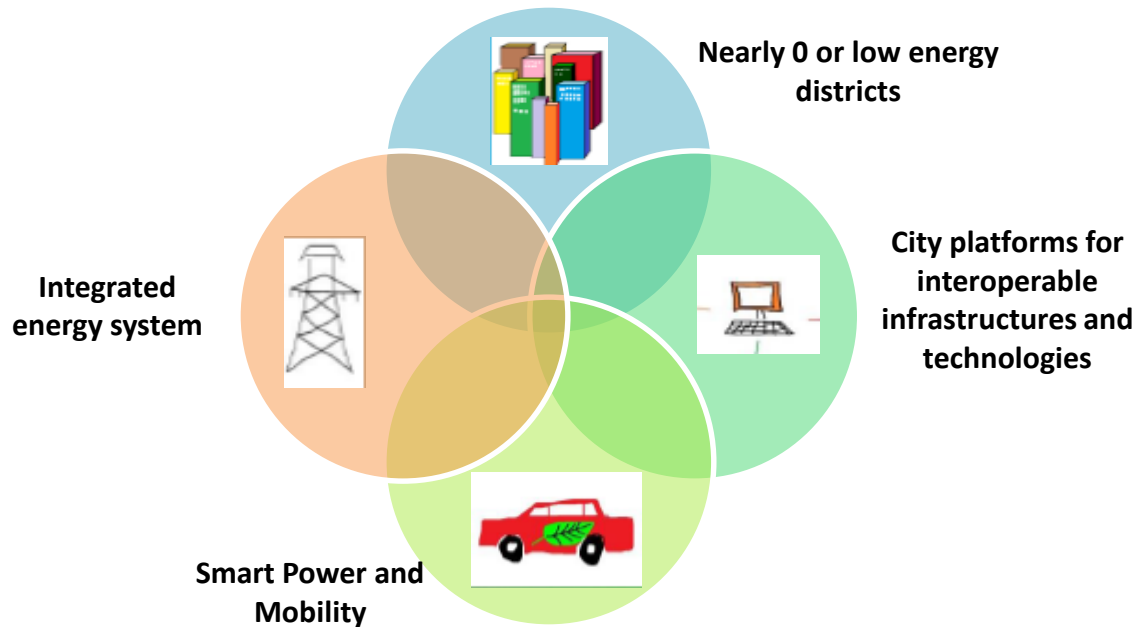
Prazos de submissão – Concurso Eficiência Energética 2016

Concurso	Tópico	Prazo de Submissão
H2020-LCE-2017	LCE 9, 13, 15, 19, 20, 22, 35	08/09/2016
	LCE 6, 7, 8, 21, 27, 28, 29, 30, 31	05/01/2017
	LCE 1, 4, 5, 9, 13, 15, 19, 20, 22, 35	14/02/2017
	LCE 10, 11, 12, 14, 16, 17, 18, 19, 20	07/09/2017

Smart Cities and Communities

Smart Cities and Communities	TOPIC	Type of scheme	EC Contribution
SCC 1 – 2016/2017	Smart Cities and Communities lighthouse projects	IA (> TRL 7)	12-18 M€

Keywords: smart homes, smart energy, ICT systems and electric vehicles, integration, replication of solutions



Smart Cities and Communities





**KEEP
CALM
AND
CALL
THE NCP**

Dúvidas?



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