

“Secure, Clean and Efficient Energy” in Horizon-2020

Work program 2014-2015. Open calls

Secure, Clean and Efficient Energy makes part of the Societal Challenges defined in Horizon-2020 (H2020) Program. This Program covers the period of time 2014-2020. Secure, Clean and Efficient Energy deals with the following main areas:

- Energy efficiency (EE)
- Competitive Low-Carbon Energy (LCE)
- Smart cities and communities
- SMEs and Fast Track to Innovation for Energy

H2020 calls for 2014-2015 were published on 11.12.2013. The list of forthcoming calls is presented herein below. Total budget foreseen for Secure, Clean and Efficient Energy in 2014-2020 is of 5.93 billion euro, including 657.87 million euro for 2014 and 676.92 million euro for 2015.

Energy efficiency calls deal with issues of: A - Buildings and consumers, B - Heating and cooling, C - Industry and products, D - Finance for sustainable energy.

Competitive Low-Carbon Energy calls cover issues of: New knowledge and technologies; Renewable electricity and heating/cooling; Modernising the European electricity grid; Providing the energy system with flexibility through enhanced energy storage technologies; Sustainable biofuels and alternative fuels for the European transport fuel mix; Enabling the decarbonisation of the use of fossil fuels during the transition to a lowcarbon economy; Supporting the development of a European research area in the field of energy; Social, environmental and economic aspects of the energy system; Cross-cutting issues.

Smart cities and communities and **SMEs and Fast Track to Innovation for Energy** deal with priority issues of cities/communities and SME's as defined in H2020 work program and objectives.

List of the open calls dead-lines:

Dead-line:	December 09, 2014
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Energy Efficiency: C - Industry and products

EE 18 – 2014/2015: New technologies for utilization of heat recovery in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use

Energy Efficiency: A – Buildings and consumers

EE 2 – 2015: Buildings design for new highly energy performing buildings

Dead-line: **December 17, 2014**

SMEs and Fast Track to Innovation for Energy

SIE 1 – 2014/2015: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

Dead-line: **March 03, 2015**

Competitive Low-Carbon Energy: *Renewable electricity and heating/cooling*

LCE 3 – 2014/2015: Demonstration of renewable electricity and heating/cooling technologies

Competitive Low-Carbon Energy: *Renewable electricity and heating/cooling*

LCE 4 – 2014/2015: Market uptake of existing and emerging renewable electricity, heating and cooling technologies

Competitive Low-Carbon Energy: *Modernising the European electricity grid*

LCE 5 – 2015: Innovation and technologies for the deployment of meshed off-shore grids

LCE 6 – 2015: Transmission grid and wholesale market

Competitive Low-Carbon Energy: *Providing the energy system with flexibility through enhanced energy storage technologies*

LCE 9 – 2015: Large scale energy storage

Competitive Low-Carbon Energy: *Enabling the decarbonisation of the use of fossil fuels during the transition to a lowcarbon economy*

LCE 12 – 2014/2015: Demonstrating advanced biofuel technologies

Competitive Low-Carbon Energy: *Sustainable biofuels and alternative fuels for the European transport fuel mix*

LCE 14 – 2014/2015: Market uptake of existing and emerging sustainable bioenergy

Competitive Low-Carbon Energy: *Supporting the development of a European research area in the field of energy*

LCE 19 – 2014/2015: Supporting coordination of national R&D activities

Competitive Low-Carbon Energy: *Social, environmental and economic aspects of the energy system*

LCE 21 – 2015: Modelling and analysing the energy system, its transformation and impacts

Smart Cities and Communities

SCC 1 – 2014/2015: Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects

Smart Cities and Communities: *Enhancing the roll-out of Smart Cities and Communities solutions by stimulating the market demand*

SCC 3 – 2015: Development of system standards for smart cities and communities solutions

Dead-line: **March 18, 2015 (two stage projects)**

SMEs and Fast Track to Innovation for Energy

SIE 1 – 2014/2015: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

Dead-line: **April 28, 2015**

Competitive Low-Carbon Energy: *Supporting the development of a European research area in the field of energy*

LCE 18 – 2014/2015: Supporting Joint Actions on demonstration and validation of innovative energy solutions

Dead-line: **May 05, 2015**

Competitive Low-Carbon Energy: *Sustainable biofuels and alternative fuels for the European transport fuel mix*

LCE 13 – 2015: Partnering with Brazil on advanced biofuels

Dead-line: **June 10, 2015**

Energy Efficiency: *A – Buildings and consumers*

EE 5 – 2014/2015: Increasing energy performance of existing buildings through process and organization innovations and creating a market for deep renovation

EE 6 – 2015: Demand response in blocks of buildings

EE 7 – 2014/2015: Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures

EE 9 – 2014/2015: Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures

EE 10 – 2014/2015: Consumer engagement for sustainable energy

EE 11 – 2014/2015: New ICT-based solutions for energy efficiency

Energy Efficiency: *B – Heating and cooling*

EE 13 – 2014/2015: Technology for district heating and cooling

EE 14 – 2014/2015: Removing market barriers to the uptake of efficient heating and cooling solutions

Energy Efficiency: *C - Industry and products*

EE 15 – 2014/2015: Ensuring effective implementation of EU product efficiency legislation

EE 16 – 2014/2015: Organisational innovation to increase energy efficiency in industry

EE 17 – 2015: Driving energy innovation through large buyer groups

Energy Efficiency: *D - Finance for sustainable energy*

EE 19 – 2014/2015: Improving the financeability and attractiveness of sustainable energy investments

EE 20 – 2014/2015: Project development assistance for innovative bankable and aggregated sustainable energy investment schemes and projects

EE 21 – 2014/2015: Development and market roll-out of innovative energy services and financial schemes for sustainable energy

Dead-line: **June 17, 2015 (two stage projects)**

SMEs and Fast Track to Innovation for Energy

SIE 1 – 2014/2015: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

Dead-line: **September 17, 2015 (two stage projects)**

SMEs and Fast Track to Innovation for Energy

SIE 1 – 2014/2015: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

Dead-line: **December 16, 2015 (two stage projects)**

SMEs and Fast Track to Innovation for Energy

SIE 1 – 2014/2015: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

For more information and updates please consult:

Horizon 2020 Work Program 2014-2015 in the area of 'Secure, Clean and Efficient Energy':

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-energy_en.pdf

Calls about Secure, clean and efficient energy:

<http://ec.europa.eu/programmes/horizon2020/en/newsroom/548/493>

H2020 Calls:

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/master_calls.html#h2020-ee-2014-2015

H2020 Official Documents: <http://ec.europa.eu/programmes/horizon2020/en/official-documents>