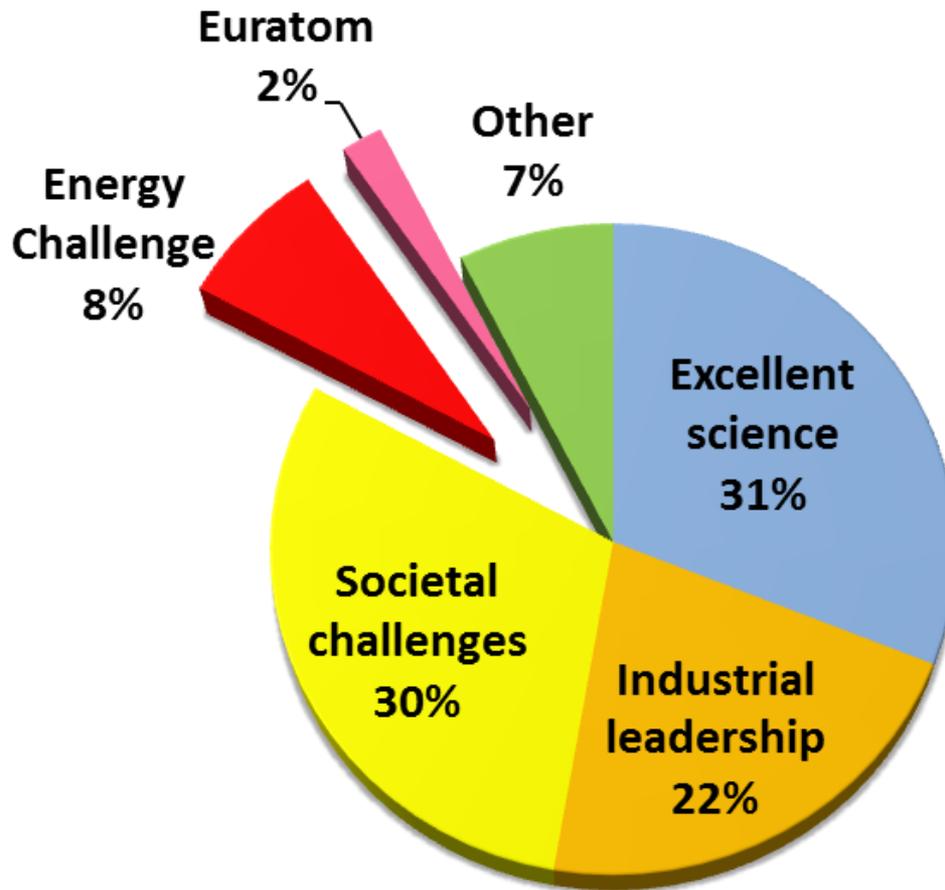


Horizonte2020

JORNADA INFORMATIVA-RETO SOCIAL “ENERGIA SEGURA, LIMPIA Y EFICIENTE” Programa de Trabajo2016-2017

Madrid, 15 de octubre 2015

Horizonte 2020 – Presupuestos

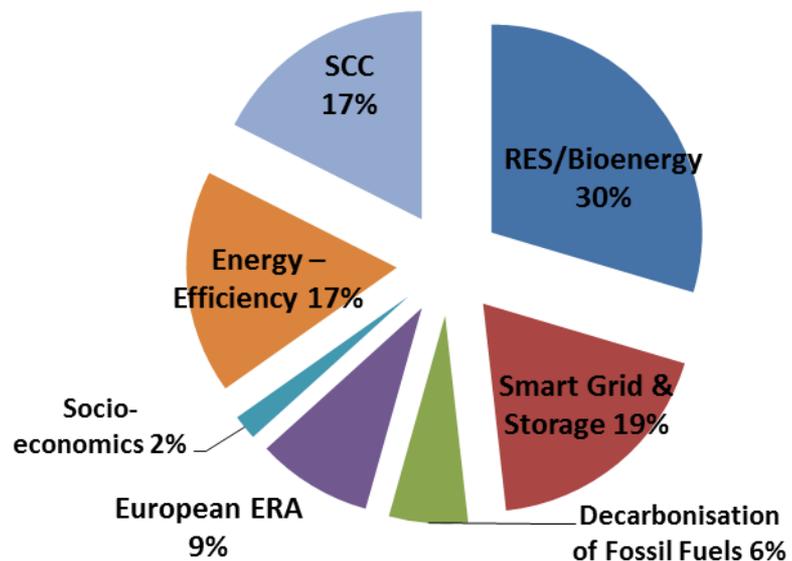


Total budget H2020:
EUR 74,83 billion

Budget of the Energy Challenge:
EUR 5,69 billion

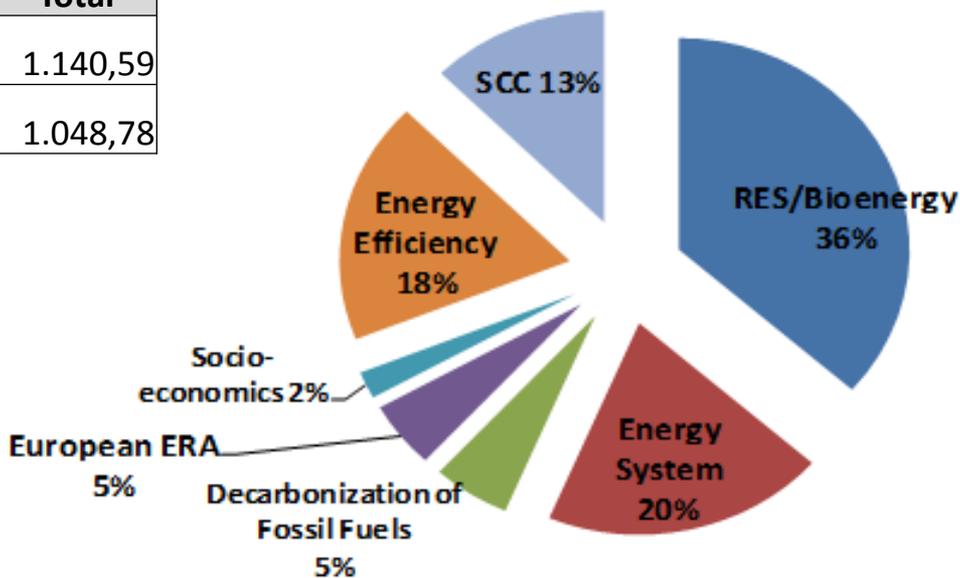
Balance entre áreas en el Reto de Energía

WP2014-15



	Budget M.€		Total
	WP 2014 & 2015	WP 2016 & 2017	
WP 2014 & 2015	549,13	591,46	1.140,59
WP 2016 & 2017	508,66	540,12	1.048,78

WP2016-17



Estructura programa de ENERGIA Call 2014-2015

Secure Clean and efficient Energy



Energy Challenge

Energy Efficiency
21 topics

Low Carbon
Technologies
22 topics

Smart Cities and
Communities
4 topics

Estructura programa de ENERGIA Call 2016-2017

Societal Challenge 3 "Secure Clean and efficient Energy

Cross-Cutting
activities

Energy Efficiency
25 topics

Low Carbon
Technologies
36 topics

Smart and
Sustainable Cities
4 topic

WP CROSS-CUTTING ACTIVITIES

(i) Industry 2020 in the Circular Economy

(ii) Internet of Things

(iii) Smart and Sustainable Cities

Smart Cities and Communities (SCC-01)

SCC-1-2016-2017: Smart Cities and Communities light house projects

Sustainable cities through Nature-based solutions (SCC-02)

SCC-2-2016-2017: Demonstrating innovative nature-based solutions in cities

SCC-3-2016: New governance, business, financing models and economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing)

SCC-4-2016: Sustainable urbanisation

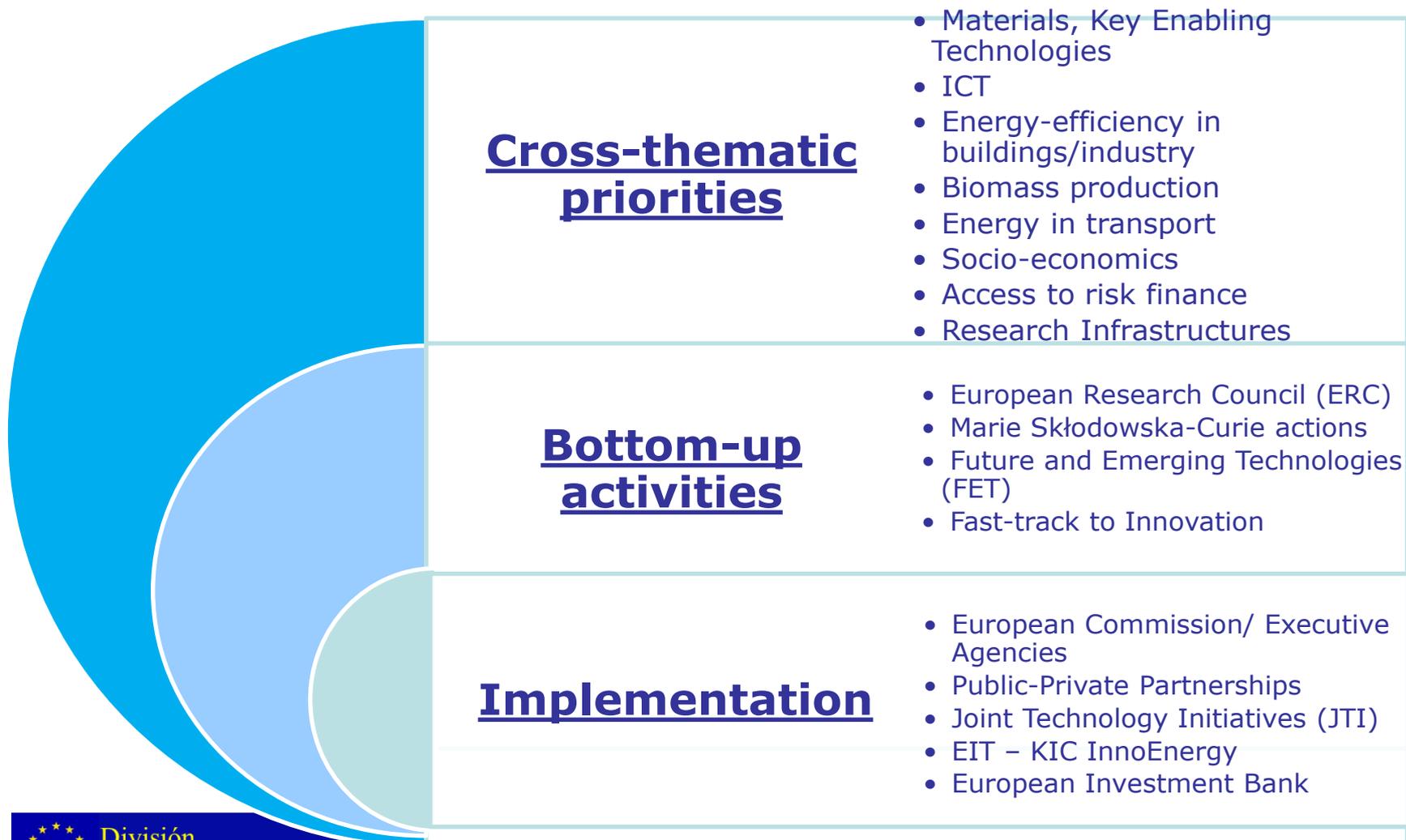
NOVEDADES FOCUS AREA: LCE – RES/Biofuels

- **Topic LCE-06-2017: “New Knowledge and technologies”.**
Un solo topic : RES , Wind, Sustainable Fuels.
- **Topic LCE-07-2016-2017: “Developing the next generation technologies of renewable electricity and heating / cooling”.**
RIA – PV, CSP, SHC, Wind, Ocean, Hydropower, Geothermal, CHP, RES integration in the energy system.
- **Topic LCE-08-2016-2017: “Development of next generation biofuel technologies”** RIA.

Demonstrating Innovative Renewable Energy Technologies.

- Topic **LCE-9** al **LCE -20**: **IA** - Topics diferentes por tecnologías de RES y para Biofuels.

Energía fuera del RS3



Cross-Thematic Priorities

LEITs (Leadership in Enabling and Industrial Technologies)
Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

Energy-efficient Buildings
(*EEB-01 - EEB-8*)

Sustainable Process Industry
(*SPIRE-04, SPIRE-05, SPIRE-08*)

Materials for Energy
(*NMBP-2, NMBP-3, NMBP-17 - NMBP-20*)

LEITs (Leadership in Enabling and Industrial Technologies)
Information and communication technologies

Low energy computing
(*ICT-5*)

Power electronics

Big Data
(*ICT-15*)

Photonics
(*ICT-29*)

Internet of Things
(*EUB-2*)

Cross- Thematic Priorities

Societal Challenge 2

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

Biomass production

(BB-01, BG-03)

Marine energy

(RUR-07, RUR-08)

Societal Challenge 4

Smart, green and integrated transport

Energy-efficient transport

(MG-1.1, MG-2.1.)

Electric mobility

(MG-4.2)

Green Vehicles

(GV-1, GV-4, GV-5, GV-6, GV-8)

Use of alternative fuels

(MG-1.1, MG-2.1, GV-1)

Cross- Thematic Priorities

Societal Challenge 5

Climate action, environment, resource efficiency and raw materials

Nature-based solutions for Smart and Sustainable Cities

(SCC-2, SCC-3, SCC-4)

Societal Challenge 6 - Europe in a changing world; Science with and for Society

Social Innovation

(Horizon Prize - SwafS-10)

Responsible Research

Cross- Thematic Priorities

Societal Challenge 7

Secure societies

Critical Infrastructures

(CIP-1)

Access to Risk Finance

Support for first-of-a-kind demonstration projects

(InnovFin Energy Demonstration Projects - EDP)

European Research Infrastructures (including e- Infrastructures)

Research Infrastructures for energy *(INFRAIA-01)*

Instrumento PYME

- Seamless business innovation support
- Completely bottom-up – all areas of the Energy covered
- Only open to SMEs – also single-beneficiaries possible

3 phases of support (no need to start with phase 1)

- 1. Business innovation grants** (feasibility studies, lump sum of EUR 50,000 per project);
 - 2. Business innovation grants for innovation development & demonstration purposes** (between EUR 0.5 – 2.5 million / project)
 - 3. Free-of-charge business coaching**, access to a wide range of innovation support services and facilitated access to risk finance to facilitate the commercial exploitation of the innovation.
- ✓ 4 submission deadlines per year for phase 1 and 2
 - ✓ Budget for the Energy SME topic (SMEInst-09-2016-2017: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system):
 - ✓ **46 M€ in 2016**
 - ✓ **50 M€ in 2017**

Energia en H2020 : JTI-FCH

Multi-annual Work-Plan 2014-2020

Continuation of EU support under Horizon 2020

- **EU budget: 665 mill. EUR**
- **Objectives:** reduce the (production) cost, increase the lifetime, increase the efficiency, reduce 'Critical raw materials'

Transport

- Road vehicles
- Non-road vehicles and machinery
- Refuelling infrastructure
- Maritime, rail and aviation applications

Energy

- Hydrogen production and distribution
- Hydrogen storage for renewable energy integration
- Fuel cells for power and combined heat & power generation

Cross-cutting Issues

(e.g. standards, consumer awareness, manufacturing methods, ...)



HORIZON PRIZES in ENERGY

A new instrument to generate **breakthroughs** and **induce innovation** in **low carbon energy technologies**

Title	Budget (EUR million)	Publication of the contest	Submission of proposals
CO2 reuse (Innovative products utilising CO ₂)	€1.5	3 quarter 2016	Until 2nd quarter 2019
Combined Heat and Power(CHP) Installation with 100% RES (hospital with a perfectly integrated CHP installation)	€ 1.0	3 quarter 2016	Until 2nd quarter 2019
Integrated Photovoltaic System (European protected historic urban district with PV system in its buildings)	€ 0.75	3 quarter 2016	Until 3rd quarter 2018

F. Model Rules of Contest (RoC) for prizes :

http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016-2017/annexes/h2020-wp1617-annex-ga_en.pdf

Risk finance for demonstration projects

InnovFin Energy Demo Projects Pilot Facility (EDP)

(Other Action#28)

- First-of-a kind commercial-scale industrial demonstration projects (TRL 7-8) for unproven pre-commercial technologies in the field of innovative **renewable energy, fuel cells and hydrogen** in support of the SET-Plan
- Loan amount: min EUR 7.5 M€, max EUR 75 M€
- Loan maturity: max 15 years

Application & inquiries: directly with the EIB - New Products & Special Transactions, EIB, Luxembourg

Tel: +352 4379 85002, E-mail: innovfinFDP@eib.org

<http://www.eib.org/products/blending/innovfin/products/index.htm>

MUCHAS GRACIAS

M^a Luisa Revilla

Punto Nacional de Contacto – Reto Social 3- Energía – Horizonte 2020

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