



EASME

Executive Agency for Small and Medium-sized Enterprises



SME SUPPORT



ENERGY



ENVIRONMENT



MARITIME



The EU Framework Programme for Research and Innovation

HORIZON 2020

Energy Efficiency Call 2017 Overview
27 October 2016 – Lyon

Anette JAHN

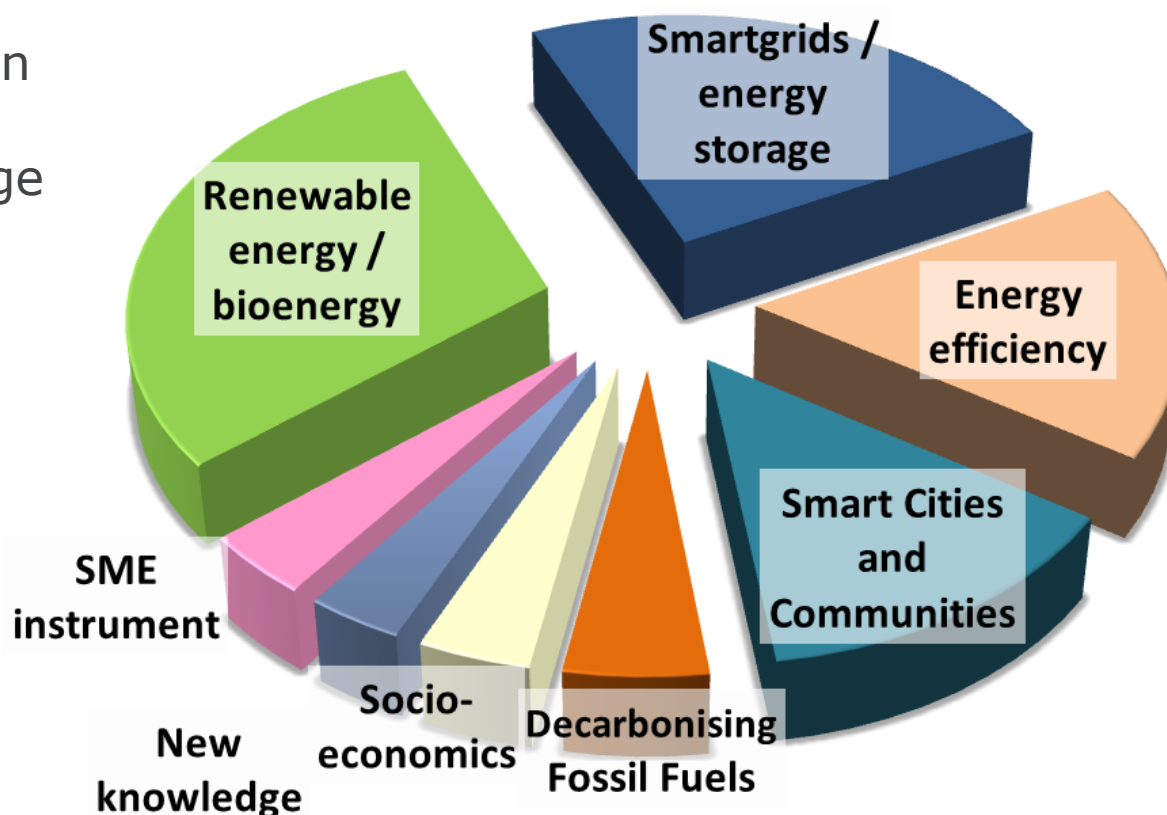
Head of Sector – Public Authorities, Energy Services, EE Finance
H2020 Energy - EASME



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The Horizon 2020 Societal Challenge Secure, Clean and Efficient Energy

Balance between
areas of the
Energy Challenge



H2020: Main type of actions in Call 2017

Deadline 19 January 2017

Deadline 07 June 2017

RIA

Research & innovation actions that establish new knowledge or develop more energy-efficient technologies and solutions.

EU funding rate: 100%.

3 beneficiaries

IA

Innovation actions that demonstrate the viability of new technologies and solutions or support their first deployment in the market.

EU funding rate: 70%.

* 100% for non-profit legal entities

3 beneficiaries

CSA

Coordination & support actions* that improve skills, mobilise large-scale investments or facilitate EU policy implementation.

EU funding rate: 100%.

*Mostly 3 beneficiaries (with some exceptions to 1 beneficiary, check the Work Programme)



Achieving near Zero and Positive Energy Settlements in Europe
using Advanced Energy Technology

Demonstration
Innovation Action

- Demonstrate components with increased energy efficiency
- Reduce system costs with efficient production and installation
- Reduce operational costs with better management of energy loads

www.zeroplus.org



Investor Confidence Project – ICPEU

- ICPEU protocols define which standards should be used at each step of the building renovation to guarantee a good quality project – based on the existing standards in 28 Member States
- 'Investment Ready Energy Efficiency'
- Training for project developers and quality assurance providers has started
- Impact already...
 - ✓ The ICPEU Investors Network gathers 15 financial institutions with over EUR 1 billion available for investments in ICP compliant projects
 - ✓ First pilot project in the UK, more in preparation in Portugal, Austria, Bulgaria, Germany...

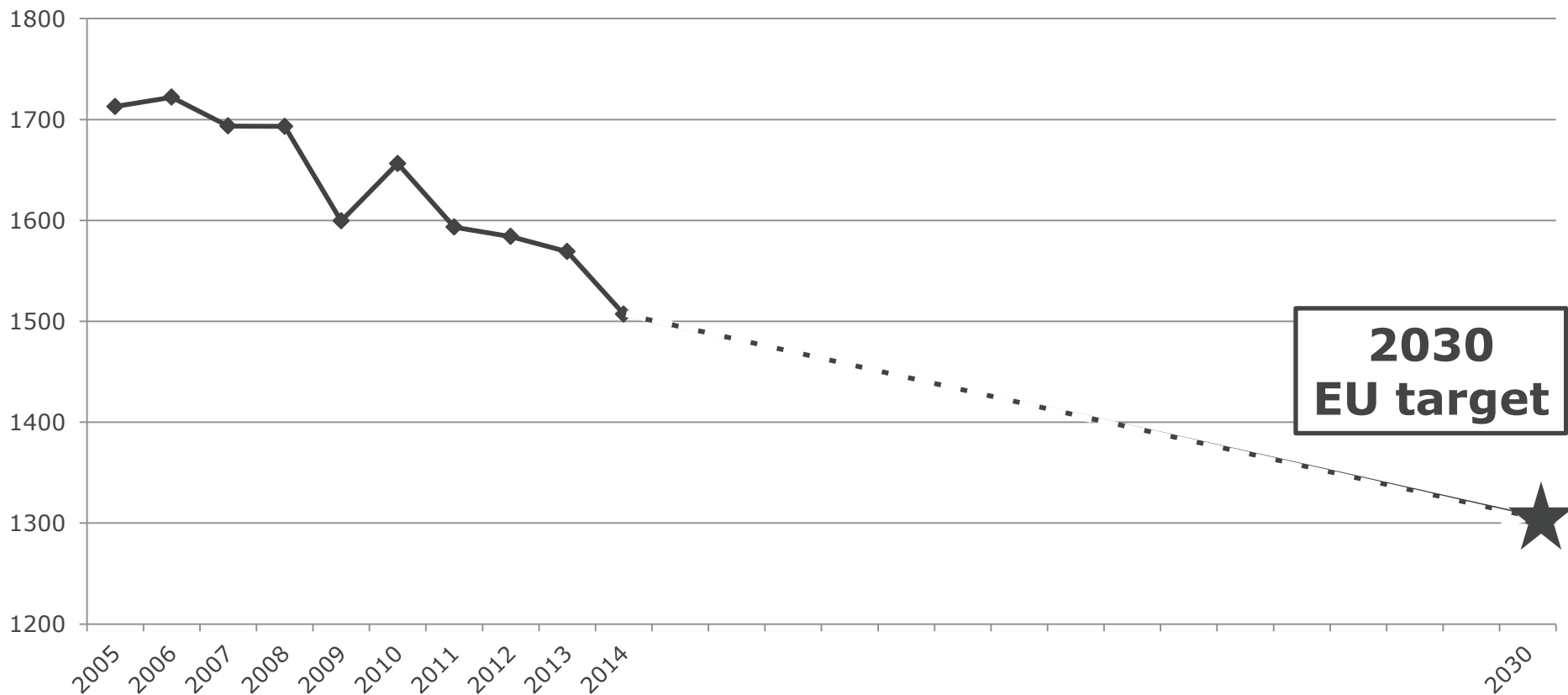


Finance of energy efficiency:

- Pilot of energy performance contracting in condominiums
- All inclusive package: design, implement, finance, monitor
- As of February 2016, 22 contracts were signed with condominiums in the Ile-de-France Region, representing 3,442 units. In total, 41million€ of investment
- Law on energy transition August 2015 + a reduced rate of VAT for energy retrofits made by a TPF provider
- EIB Loan for 100million€ signed backed by EFSI (Junker Plan)



EU primary energy use (Mtoe)



Source: Eurostat 02/2016



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**Heating &
Cooling**



Consumers



Buildings



**Industry &
Products**



**Finance for
Sustainable
Energy**

**Innovation
Actions**

EU Support: 70%
1 to 6 M€ / project

49.000.000 €
Closing 19 January 2017

**Coordination
& Support
Actions**

EU support: 100%
0.5 to 2 M€ / project

55.000.000 €
Closing 7 June 2017



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**Heating &
Cooling**



Consumers



Buildings



**Industry &
Products**



**Finance for
Sustainable
Energy**

**Innovation
Actions**

EE01 - Recovering waste heat from urban facilities

EE04 - New solutions using low grade energy sources

**Coordination
& Support
Actions**

EE02 - Improving existing district heating networks



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Heating &
Cooling



Consumers



Buildings



Industry &
Products



Finance for
Sustainable
Energy





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Heating &
Cooling



Consumers



Buildings



Industry &
Products



Finance for
Sustainable
Energy

Innovation
Actions

EE07 - Stimulating behavioural change through ICT

Coordination
& Support
Actions

EE06 - Engaging private consumers

EE09 - Activating public authorities



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Heating &
Cooling



Consumers



Buildings



Industry &
Products



Finance for
Sustainable
Energy

Innovation
Actions

EE12 - Integrating Demand Response in Energy Management Systems

Coordination
& Support
Actions

EE11 - Promoting deep renovation of buildings

EE14 - Construction skills



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Heating &
Cooling



Consumers



Buildings



Industry &
Products



Finance for
Sustainable
Energy

Innovation
Actions

EE17 - Valorisation of waste heat in industry

EE20 - Efficient data centres

Coordination
& Support
Actions

EE15 - Increasing capacities in industry and services

EE16 - Implementing EU product efficiency legislation

EE18 - Energy efficiency of industrial parks

Public
Procurement
of Innovation

EE17 - Public Procurement of Innovative Solutions



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Heating &
Cooling



Consumers



Buildings



Industry &
Products



**Finance for
Sustainable
Energy**

**Coordination
& Support
Actions**

EE22 - Project Development Assistance

EE23 - Innovative financing schemes

EE24 - Making the energy efficiency market investible



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**Heating &
Cooling**



Consumers



Buildings



**Industry &
Products**



**Finance for
Sustainable
Energy**

**Innovation
Actions**

EU Support: 70%

.Waste heat

.ICT
solutions

.Demand
response

.Waste heat

.Low grade
sources

.Data
centres

**Coordination
& Support
Actions**

EU support: 100%

.DH
networks

.Private
Consumers

.Deep
renovation

.Capacity

.PDA

.Public
authorities

.Construction
skills

.Product
legislation

.Innovative
financing

.Industrial
parks

.De-risking

.PPI

Contractual PPPs in Horizon 2020

- Sustainable Process Industry (SPIRE)
- Energy-efficient Buildings (EeB)
- Green Vehicles (EGVI)
- Factory of the Future (FoF)
- Future internet (5G)

Plus several new PPPs e.g. robotics, big data

Goals of the Energy Efficient Buildings PPP

- Technologies enabling to speed up a reduction in energy consumption and GHG
 - Higher renovation rate of existing stock
 - At lower cost
- Reduction of energy use by 50% compared to 2010
- Reduction of CO2 by 80% compared to 2010
- Improving competitiveness of EU building industry
 - Cost-effective , user-friendly, healthy, safe building products for smart cities



ENERGY-EFFICIENT BUILDINGS
Multi-annual roadmap
for the contractual PPP
under Horizon 2020

Goals of the SPIRE PPP

- Rejuvenate the process industry in Europe and strengthen its competitiveness and sustainability
- Integrate and demonstrate innovative processes and systems for increased resource efficiency
- Reduce of fossil energy intensity by 30% by 2030
- Reduce non-renewable, primary raw material intensity by 20% by 2030
- Leading to a reduction in GHG of up to 40% by 2030 compared to 1999 levels



Indicative EC funding for 2017

H2020 funding	NMBP RTD	ICT CNECT	Transport RTD	Energy RTD + ENER	Environment RTD	TOTAL M€
FoF	86	33	-	-	-	119
EeB	55	-	-	8	-	63
EGVI	-	-	133	-	-	133
SPIRE	82	-	-	8	10	100
TOTAL	223	33	133	16	10	415

**> H2020 Energy Efficiency Call 2017 Info Day
topic specific sessions available on-line:**

<https://ec.europa.eu/easme/en/horizon-2020-secure-clean-and-efficient-energy-info-day>

**> H2020 PPP Call 2017 Info Day sessions
available on-line:**

<http://ec.europa.eu/research/index.cfm?pg=events&eventcode=E8549B02-9403-39F9-E71BF7B28BF5B857>



The EU Framework Programme for Research and Innovation

HORIZON 2020 – Energy Efficiency Call

Insights and guidance for your participation

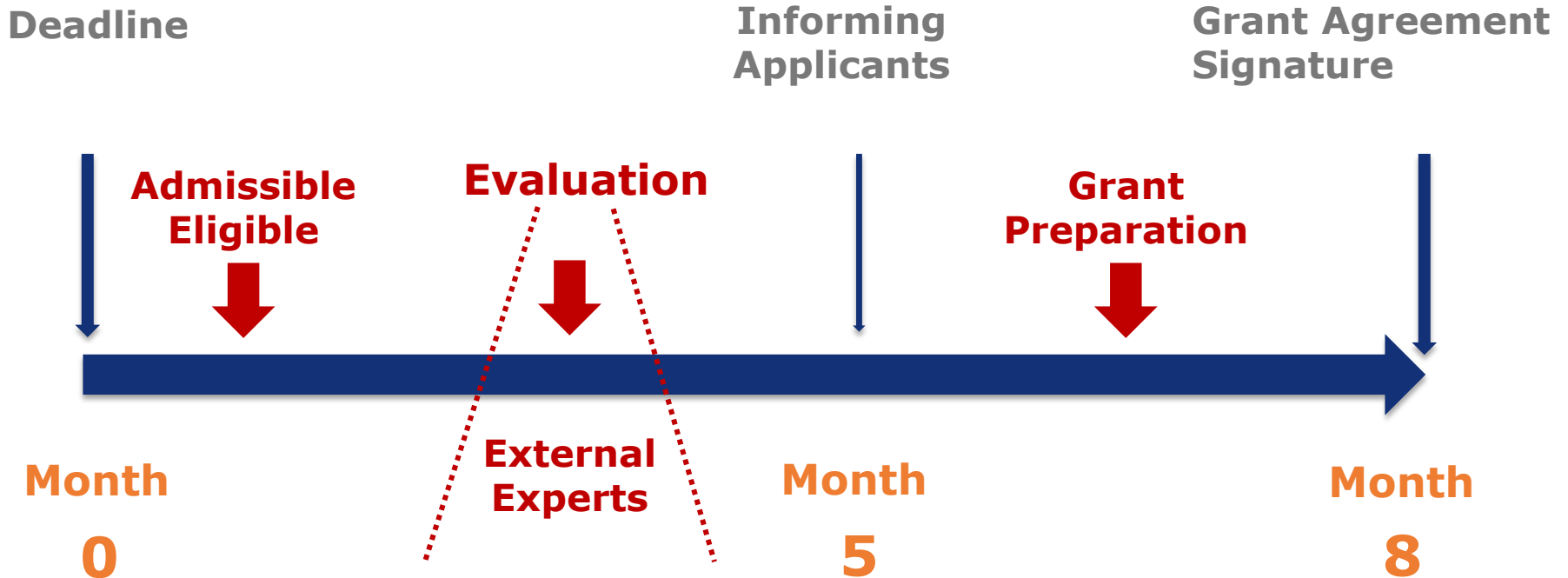


ENERGY

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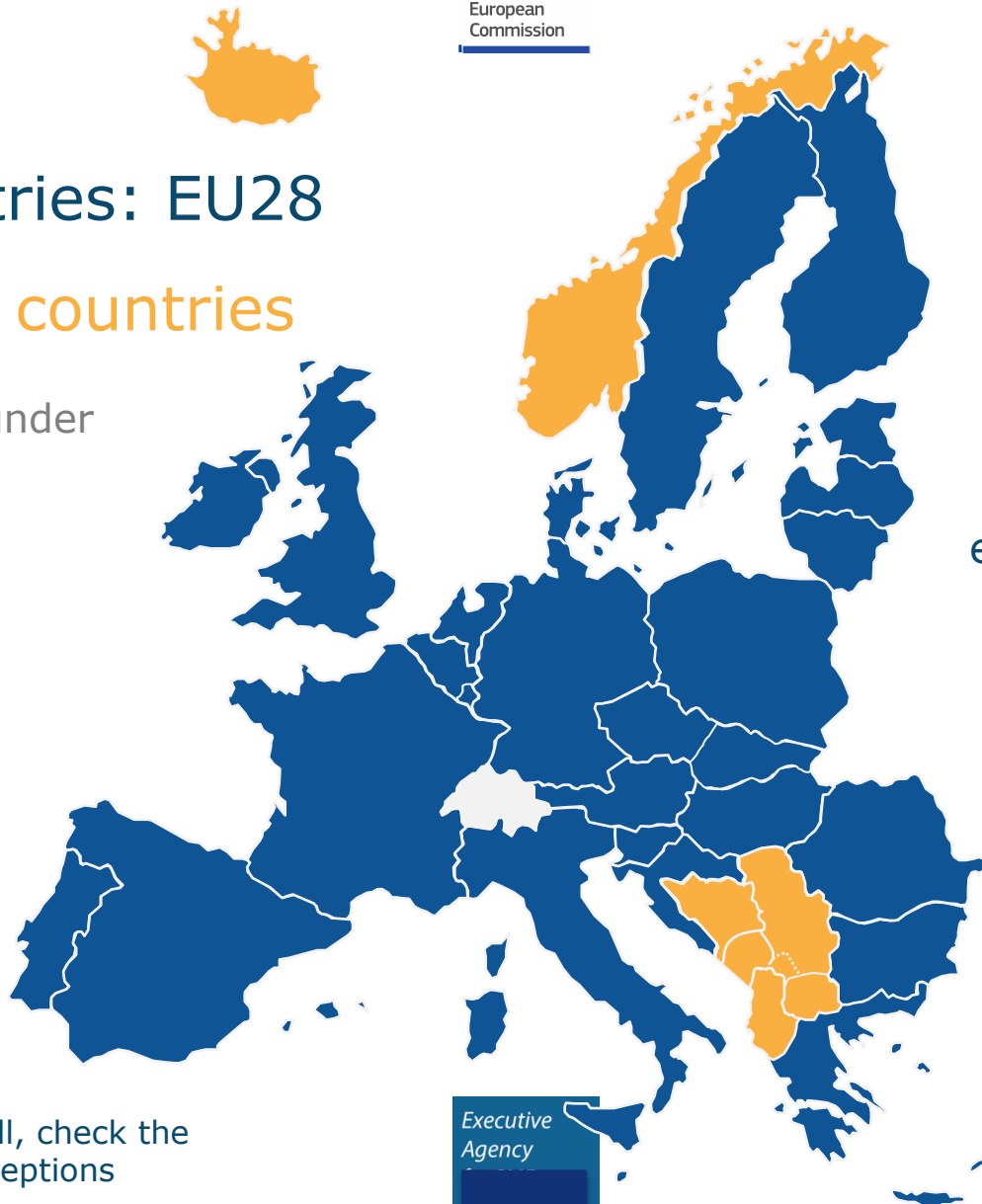
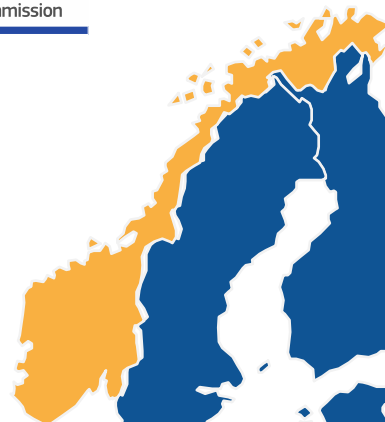
- Basic principles
- Feedback from our experts
- How to inform yourself – the information gateways

H2020 evaluation process





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Eligible Countries: EU28

+ associated countries

+ third countries (under certain conditions)

General rule*:

Minimum of 3 legal entities from EU28 or Associated Country

+ Tunisia, Georgia, Moldova, Turkey, Ukraine, Israel

* in Energy Efficiency Call, check the WP 2016-17 for exceptions

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How do we brief the experts?

- Experts are briefed to understand the Call text, the evaluation criteria - and their mandate
- **Only the best proposals should be selected – not requiring any negotiations**
- **Only evaluate the proposal, no other source**
- **Clear drive towards tangible impact (Topic in Work Programme, application form)**
- Evaluate individually 7-9 proposals, half day per proposal

Award Criteria – against what is your proposal assessed?

- Excellence
- Impact
- Quality & efficiency of implementation



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It is a demanding competition: Call 2015 in numbers

478

Proposals

**>4500
organisations**

50

**Project
selected**

**>500
organisations**

35 countries

Agenda

- The evaluation process – basic principles
- Feedback from our experts
- How to inform yourself – the information gateways

Award criterion "Excellence" – your selling point to the experts

- Innovate.
- Make choices, focus, have a clear direction.
- You can only win by explaining. Experts are briefed (allowed) to only read your proposal, no other sources.
- If you re-submit: use the feedback.
- 122 proposals were successful until today in H2020 Energy Efficiency. Check them out:

<http://cordis.europa.eu>

Award criterion "Impact" – what convinces the experts?

- Drive towards the indicators given in the work programme.
- Be ambitious. Quantify. Robust assumptions.
- Foresee communication. Exploitation.
- Keep links to your actual work plan.

Award criterion "Implementation" – which ingredients?

- Build up the consortium which is fit for purpose
- Invest in the description of the work packages:
Convince evaluators that you can "do" your vision,
your impact.
- Invest into your budget planning: bottom up.

Agenda

- The evaluation process – basic principles
- Keys to success – feedback from our experts
- How to inform yourself – the information gateways



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Inform yourself

- H2020 Participant Portal
- National Contact Points
http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.htm
- Participant Portal H2020 Helpdesk
- Contact us – the EASME energy efficiency team: (No pre-proposal checks)
EASME-ENERGY@ec.europa.eu
- Horizon2020 and FP7 projects: CORDIS database
- 300+ Intelligent Energy Europe (IEE) projects, including various information platforms
ec.europa.eu/energy/intelligent/

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Horizon 2020 Portal





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**THANK YOU
FOR YOUR ATTENTION**

Find out more

<http://ec.europa.eu/research/horizon2020>

EASME on Twitter



@H2020EE • @H2020SME • @EEN_EU • @EU_ECOINNO

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IEE Project database

<http://ec.europa.eu/energy/intelligent/projects/>

Projects database

Search an item...

Browse by

Sector
 ▼

Date
Start

Country
 ▼

End

Last updated projects

[Collaboration for Housing nearly zero-energy renovation \(COHERENO\)](#)

Start date 01/04/2013 - End date 31/03/2016 (Ongoing)

[Integrated Initiatives>EE + RES in Buildings](#)

The objective of COHERENO is to strengthen collaboration of enterprises in innovative business models for realizing Nearly Zero Energy Building (NZEB) renovations in single family owner occupied...



[Solar Thermal in Major Renovations and Protected Urban Areas \(URBANSOLPLUS\)](#)

Start date 01/06/2011 - End date 31/05/2014 (Closed)

[Small-scale applications>Renewable energy \(ALTENER\)>Heating and Cooling](#)

Article 13 of the 2009/28/EC Directive requires minimum share of renewables for new buildings and major renovations. Given the current very low construction rate for new buildings, renovation play...

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BUILD UP

www.buildup.eu



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THE EUROPEAN PORTAL FOR ENERGY EFFICIENCY IN BUILDINGS

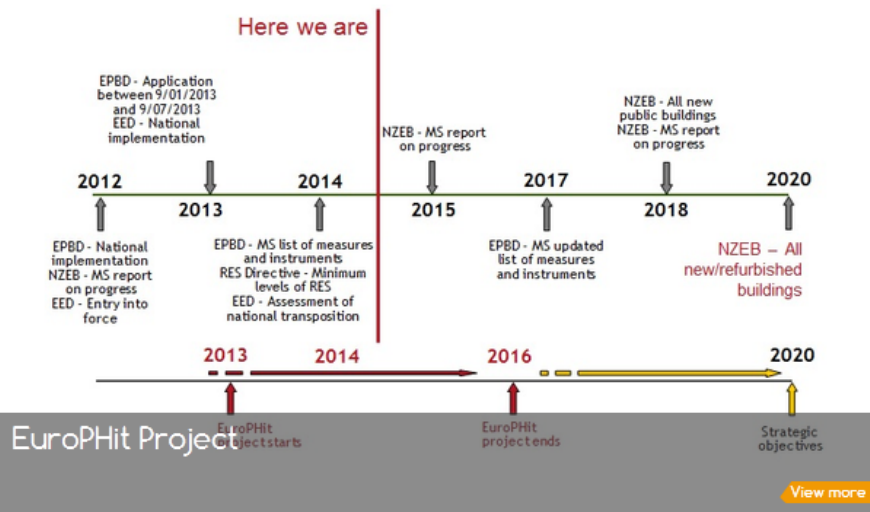
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Young Researchers' Conference and Best Young

1st QUALICheck International Conference

Webinar: The Role of Labelling and Certification

Common Implementation Roadmap for Renewable



Welcome to BUILD UP, the European web portal for energy efficiency in buildings.

Learn More

Propose content

3969 Publications	539 Cases	9914 Regist. Users
296 Tools	17 Upcoming Events	2758 News

Highlighted Community

Energy Performance of Buildings Directive Community

My Communities | Updates

All the activity on your Communities from a single location

BUILDUP Themes

Air conditioning, cooling, ventilation, air infiltration **Energy efficiency technologies**

Country Fact Sheets

EPBD implementation in the United Kingdom – status at the...

EPBD implementation in the United Kingdom – status at the...

EPBD implementation in the United Kingdom – status at the...

View all

Financing Schemes

National/Regional schemes for Non-Residential Buildings and...

National/Regional schemes for Residential Buildings

National/Regional schemes for Municipalities, Social...

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Training Schemes

Building/Construction

Installers of Small-Scale Renewable Energy Systems

Air-Conditioning System Inspectors

View all



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Managenergy

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Supporting local and regional
sustainable energy actions



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ManagEnergy is a technical support initiative of the Intelligent Energy - Europe (IEE) programme of the European Commission which aims to assist actors from the public sector and their advisers working on energy efficiency and renewable energy at the local and regional level.

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NEWS



Multi-Level Governance in Sustainable Energy Planning

COOPENERGY has finished selecting sixty best practice examples of how local and regional authorities across Europe are collaborating to deliver sustainable energy



FOCUS ON

ManagEnergy: The map and the territory



What a busy time of year! ManagEnergy capacity building workshops are taking place across Europe; along with networking events on Community Energy, Innovative Financing, and Energy Transition. Check the events calendar to find a sustainable energy event near you!



Innovative financing for public authorities from eef - a role model fund for energy efficiency investment



Without enough investment into energy efficiency, the EU risks missing its 2020 - and longer-term - climate and energy targets. Public funding is available - and 'role model fund' eef is showing how to profitably deliver innovative financing solutions for sustainable energy projects.