



#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Energy Efficiency Call 2018/19 Overview

Céline TOUGERON
Project Advisor
Executive Agency for SMEs
Unit BI Energy

Research and
Innovation

- Overview of the H2020 Societal Challenge 3 – Secure, clean and efficient energy

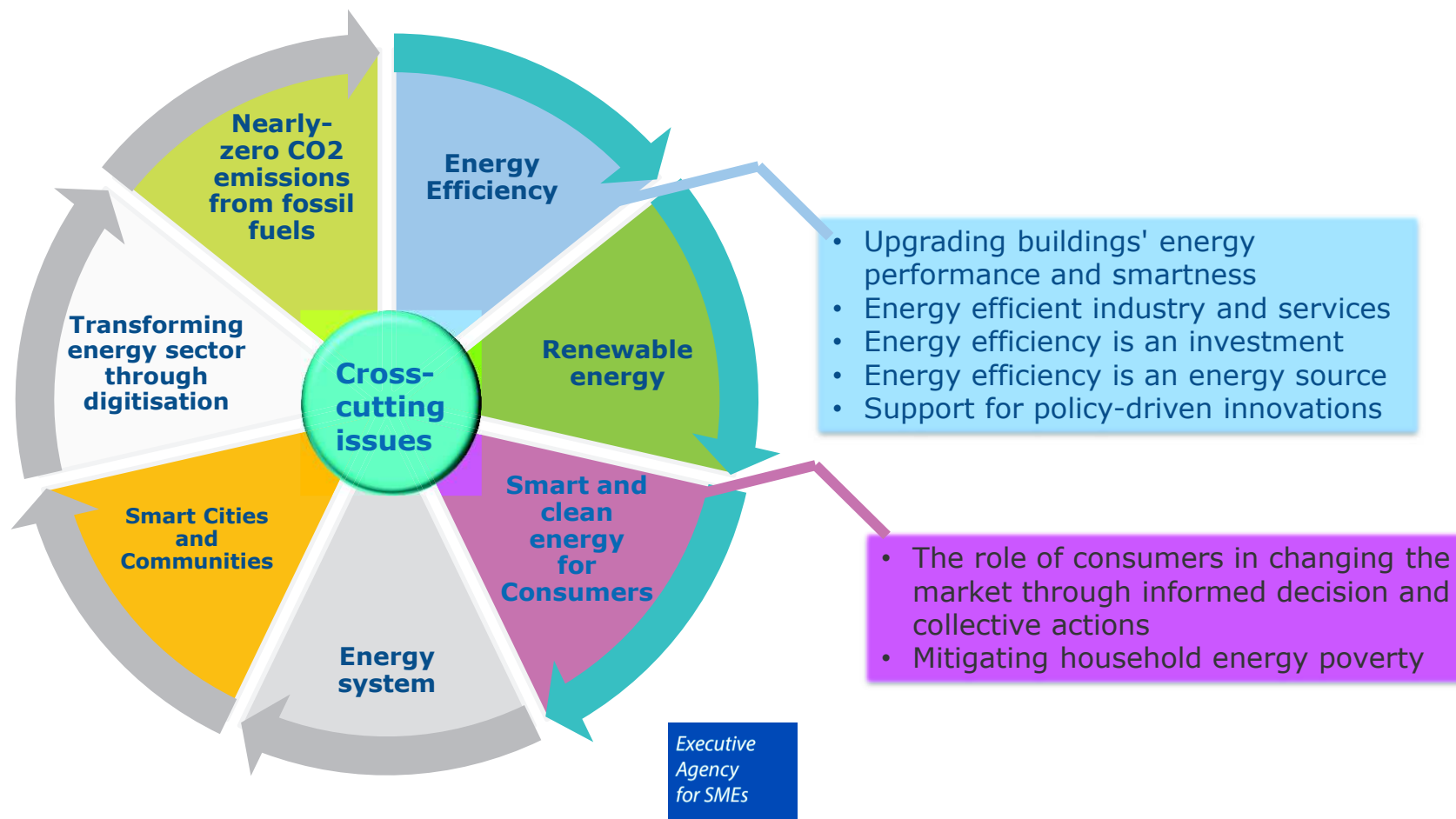
- Insights and guidance for your participation
- Before you start - tips and lessons learnt
- How to inform yourself – the information gateways



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Overview- H2020 Societal Challenge 3

Secure, clean and efficient energy





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Energy Efficiency – sub-areas

Upgrading
buildings' energy
performance and
smartness

Energy efficient
industry and
services

Energy efficiency
is an investment

Energy efficiency
is an energy
source

Support for
policy-driven
innovations

Smart and clean
energy for
consumers



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H2020: Main type of actions in Call 2018/19

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%.

3 beneficiaries
(except EE2-EE11-EE17)

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Buildings



**Industry, Products
& Services**



**Finance for
Sustainable
Energy**



**Public
authorities**



Consumers

**Energy
Efficiency
Call 2018**

90.000.000 €

Closing 4 September 2018

**City facility
EE-17-2019**

11.000.000 €

Closing 13 November 2018

**Energy
Efficiency
Call 2019**

111.000.000 €

Closing 3 September 2019

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Buildings



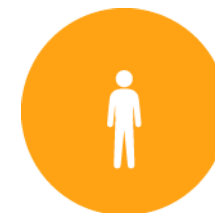
**Industry, Products
& Services**



**Finance for
Sustainable
Energy**



**Public
authorities**



Consumers

**Energy
Efficiency
Call 2018**

EE01	EE06	EE09	EE14	EC01
EE02*	EE08	EE10	EE16	EC02
EE05	EE13	EE11*	EE17**	
	EE15			

**Energy
Efficiency
Call 2019**

EE01	EE06	EE09	EE14	EC01
EE02	EE08	EE10	EE16	EC02
EE03	EE13	EE11		
EE04	EE15			
EE05				

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*** Single beneficiaries eligible**

**** Single beneficiaries eligible.
Deadline: 13 November 2018**



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Buildings



**Industry, Products
& Services**



**Finance for
Sustainable
Energy**



**Public
authorities**



Consumers

**H2020 Energy Efficiency Call 2018 Info
Day topic specific sessions available on-
line (from 25 October):**

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

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**Energy
Efficiency
Call 2018**



Buildings

**Innovation
Actions**

**EE-1 - Decarbonisation of the EU building stock:
innovative approaches and affordable solutions
changing the market for buildings renovation**

**Coordination
& Support
Actions**

EE-2 - Integrated home renovation services *
**EE-5 - Next-generation of Energy Performance
Assessment and Certification**

*** Single beneficiaries eligible**

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**Energy
Efficiency
Call 2018**



**Industry, Products
& Services**

**Innovation
Actions**

EE-6: Business case for industrial waste heat/cold recovery

**Coordination
& Support
Actions**

EE-8: Capacity building programmes to support implementation of energy audits

EE-13: Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource

EE-15-2018: New energy label driving and boosting innovation in products energy efficiency

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**Energy
Efficiency
Call 2018**



**Finance for
Sustainable
Energy**

**Coordination
& Support
Actions**

EE-9: Innovative financing for energy efficiency investments

EE-10: Mainstreaming energy efficiency finance

EE-11: Aggregation - Project Development Assistance *

*** Single beneficiaries eligible**

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**Energy
Efficiency
Call 2018**



**Public
authorities**

**Research and
Innovation
Actions**

EE-14: Socio-economic research conceptualising and modelling energy efficiency and energy demand

**Coordination
& Support
Actions**

EE-16-2018-2019-2020: Supporting public authorities to implement the Energy Union

EE-17: European City facility - European Cities as key innovation hubs to unlock finance for energy efficiency **

**** Single beneficiaries eligible.
Deadline: 13 November 2018**



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**Energy
Efficiency
Call 2018**



Consumers

**Coordination
& Support
Actions**

EC-1: The role of consumers in changing the market through informed decision and collective actions

EC-2: Mitigating household energy poverty

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Agenda

- Overview of the H2020 Societal Challenge 3 – Secure, clean and efficient energy
- Insights and guidance for your participation
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H2020 – Some interesting elements

- 2-year work programme + 2020 insight
- Challenge-based
- Technology Readiness Levels
- Indicative project budget for each topic
- A single funding rate per project
- A single time to grant of 8 months



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While perfect proposals do not exist...

- We are seeking excellent, well implemented, proposals
- Submitted by motivated and inspired project teams
- Aiming to deliver and make a “change”

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Start early ... start now!

From today,

11 months until the deadline:

4 September 2018



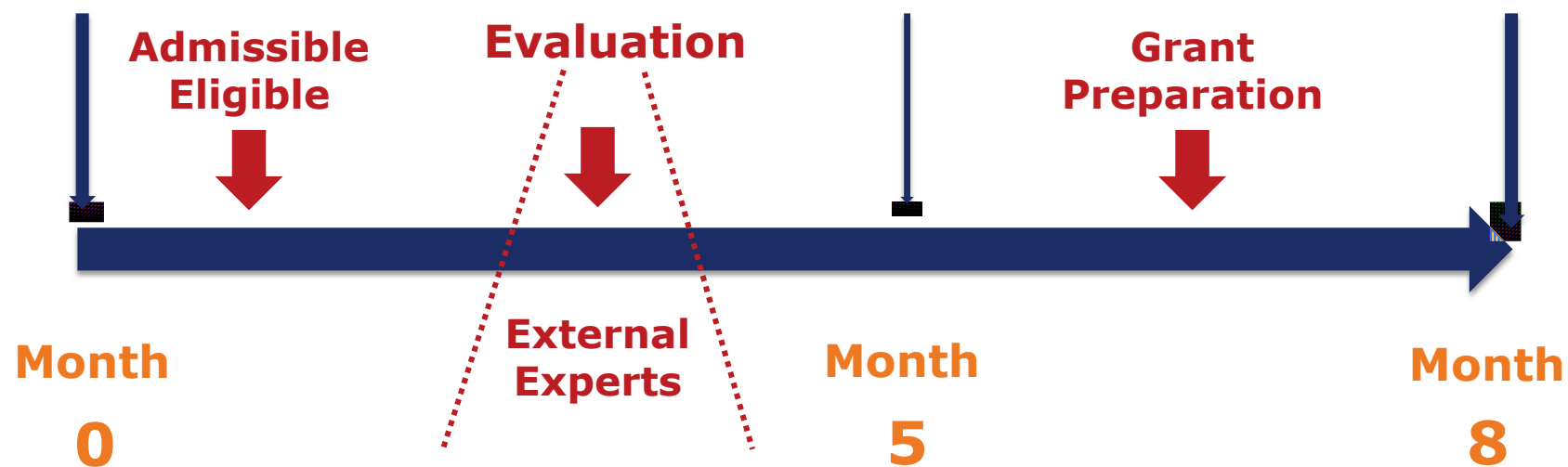
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H2020 evaluation process

Deadline

Informing
Applicants

Grant Agreement
Signature



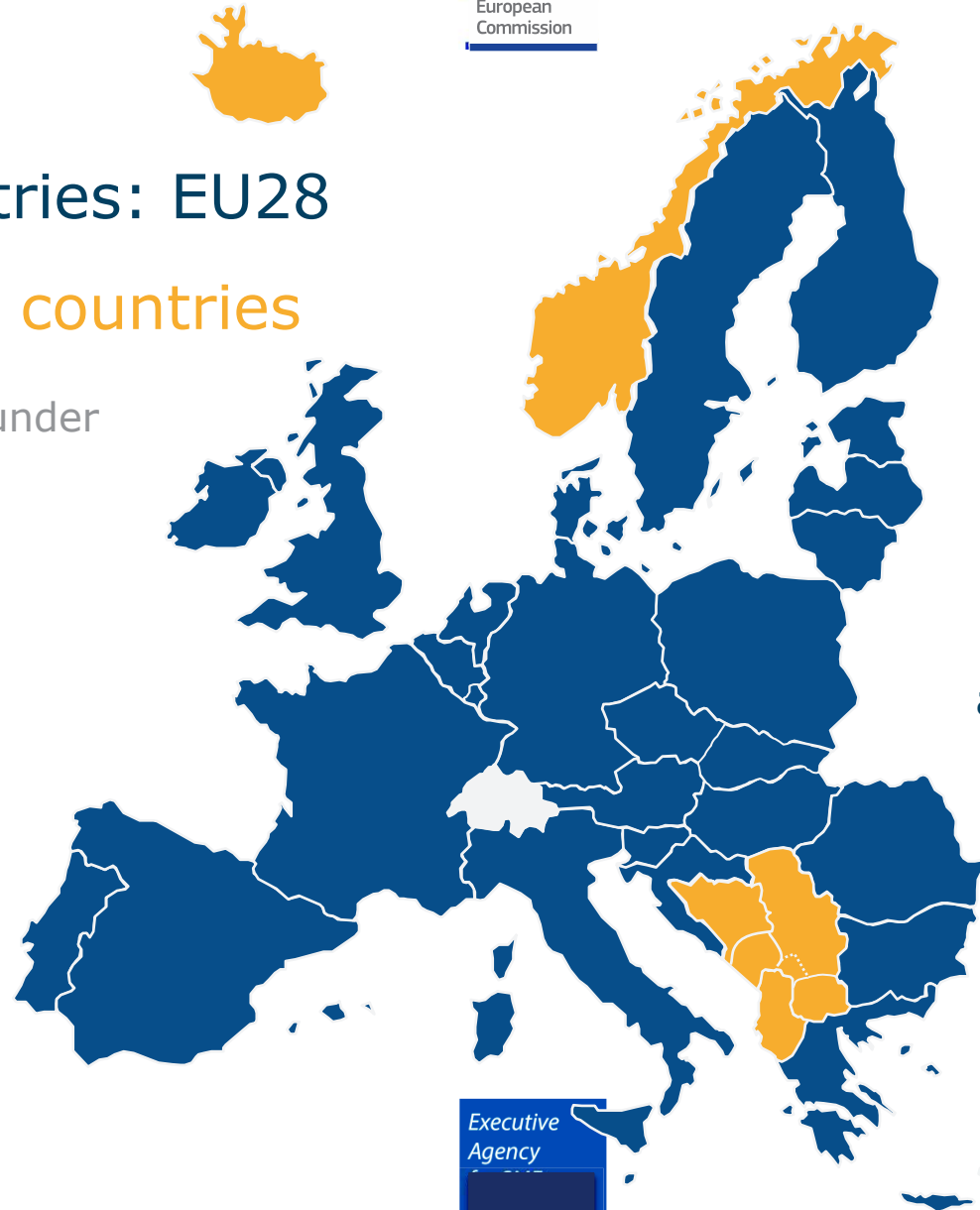
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Eligible Countries: EU28

+ associated countries

+ third countries (under certain conditions)



General rule:
Minimum of 3 legal entities from 3 EU28 or Associated Countries
Except EE2-11-17 where single applicants are eligible

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

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Evaluation – Award Criteria

- **Excellence**
- **Impact**
- **Quality & efficiency of implementation**
 - Detailed aspects to be taken account of for each of the main criteria
 - Self-evaluation form available
 - No negotiation takes place -> only the very best are selected





Excellence – your selling point to the experts

- Make choices, focus, have a clear direction
- Innovate
- Win by explaining. Experts are briefed (allowed) to only read your proposal, no other sources
- If you re-submit: use the feedback
- >160 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.
- Communication. Exploitation.
- Keep links to your actual work plan.
- Plan activities to monitor your performance.

Impacts - Examples



Finance of energy efficiency:

- Pilot of energy performance contracting in condominiums
- All inclusive package: design, implement, finance, monitor
- As of June 2017, 26 contracts were signed with condominiums in the Ile-de-France Region, and up to 5,300 are or will be renovated. In total, €38million 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)



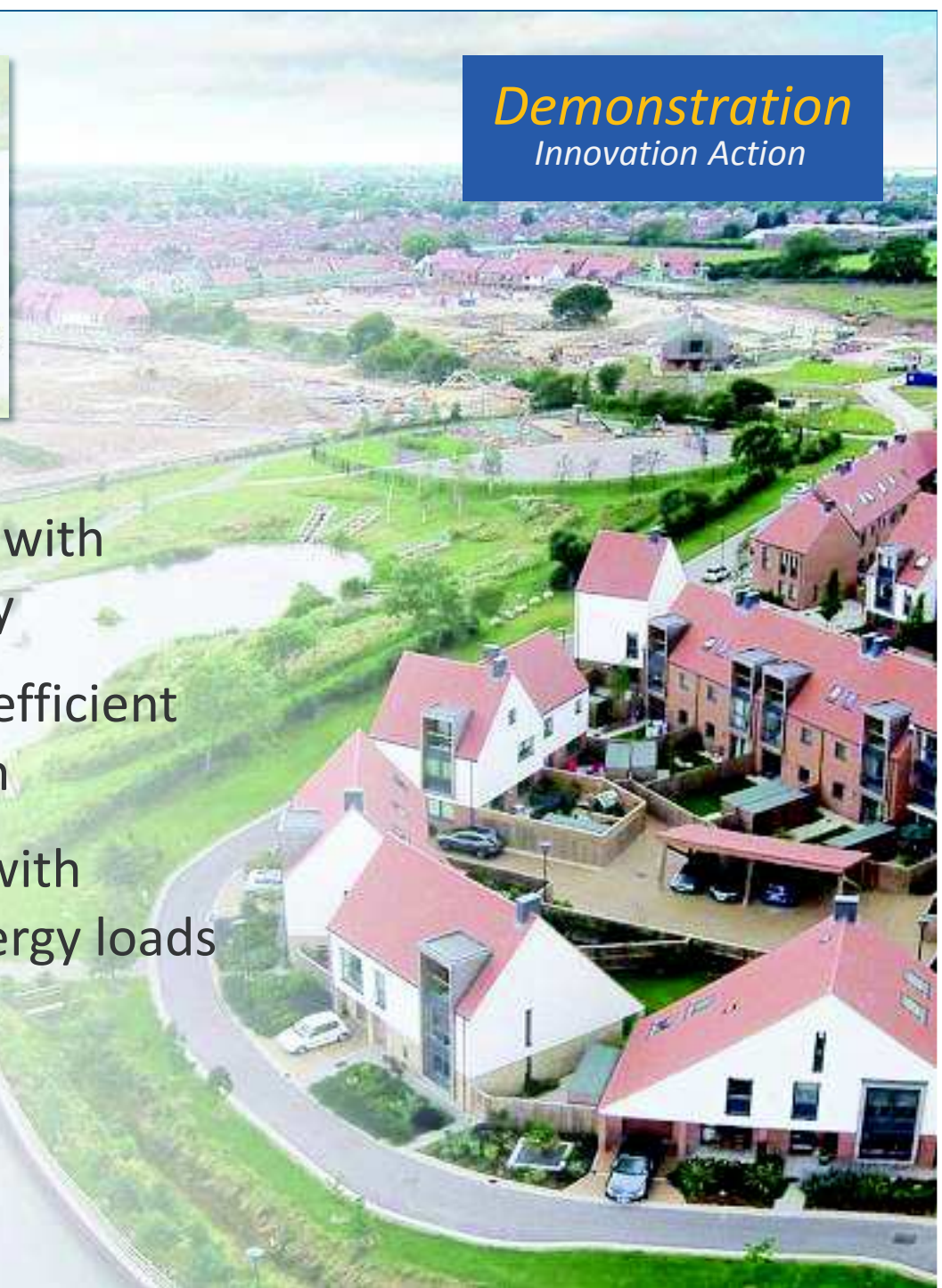


Achieving near Zero and Positive Energy Settlements in Europe
using Advanced Energy Technology

*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





Ethics

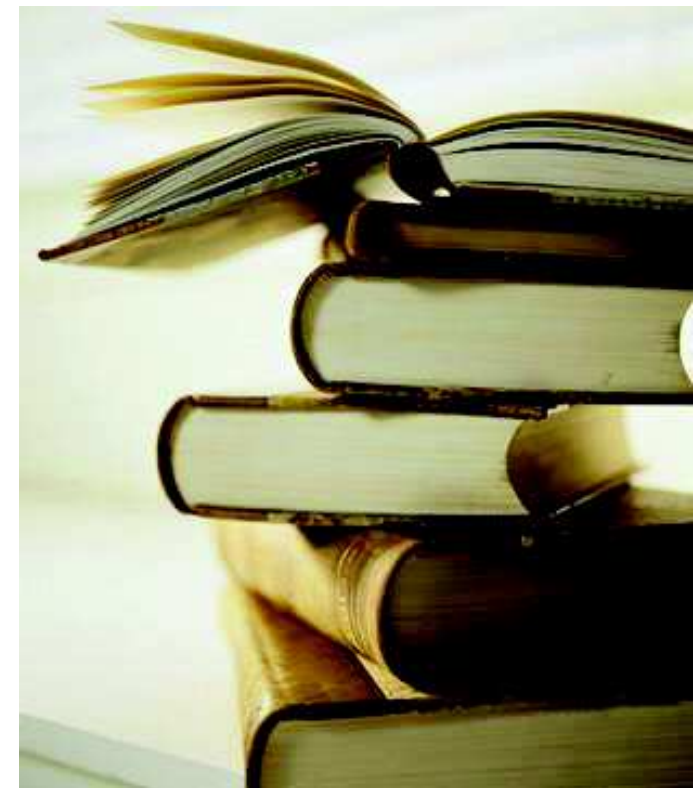
- An ethical review is carried out to assess and address the ethical dimension of your activities
- The ethical review ensures that all activities under H2020 are conducted in compliance with fundamental ethical principles
- Specific issues are checked, e.g. humans cells, animals, environmental protection, protection of personal data,...
- Participants should conduct an Ethics Self-assessment
- All proposals considered for funding will undergo an Ethics Review carried out by independent ethics experts



Learn the language ...

- **Proposal:** Your application
- **Participants Portal:** Commission's electronic submission tool – compulsory gateway for H2020 proposals
- **Consortium:** A team of organisations submitting the proposal – with one defined Coordinator

- **'Secure, clean and efficient Work Programme 2018/20':** background, topics and budgets
- **General annexes to the Work Programme:** list of countries, eligibility and admissibility conditions, evaluation criteria and procedure, scoring and thresholds, etc.
- **Submission forms and templates:** essential forms and guides to draw up and submit your proposal
- **Guide to the submission and evaluation process**



Clearing the fog ... on the structure of your proposal

Section 1-3

'Technical Annex'

Your Proposal description

- Excellence
- Impact
- Implementation

Section 4-5

- Description of your partnership & CV's
- Ethics

Online Forms

- **Admin. data**

Optional Annexes: e.g.

- **Letters of Support**



Make your choices – before you start

- Start early – a good proposal needs time and evolution
- Clear unique project objective?
- Clear unique (set of) target group(s)?
- Clear set of partners – are they THE voice of the market?
- Clear path to make a difference?



Define your specific objective & target group

- What would you like to achieve?
- Whom do you want to address?
- Make sure you know the current (market) situation and your starting point
- Check:
 - the IEE project database
 - the list of H2020 Energy Efficiency Call projects
- Take a reality check before you invest your time:
 - investigate the interest amongst target group and major stakeholders

Produce a first outline of your idea

- Write a preliminary 2-3 pages about your:



- objectives
 - target group
 - major steps (work packages)
 - intended consortium (countries, types of organisations)
- Internal reality check: Use it as first base to discuss with potential partners
 - External reality check: Consult with market actors – check their understanding and interest.



Your consortium

- Be consistent – remain relative to your objective & target group
- Be adaptable - be ready to renounce a country if you do not secure the right partner
- Do not cover the EU map artificially
- Involve partners in the preparation – avoid surprises after submission
- Keep consortium motivated - agree a working method for the proposal phase, make a plan for their contributions

Start writing the detailed proposal – Work Plan

- Fine-tune your aim objectives and your target group
- Take your time to decide the best methodology to be applied – can it deliver? Think impact!
- Define your main working steps
- Follow the guide on number of pages





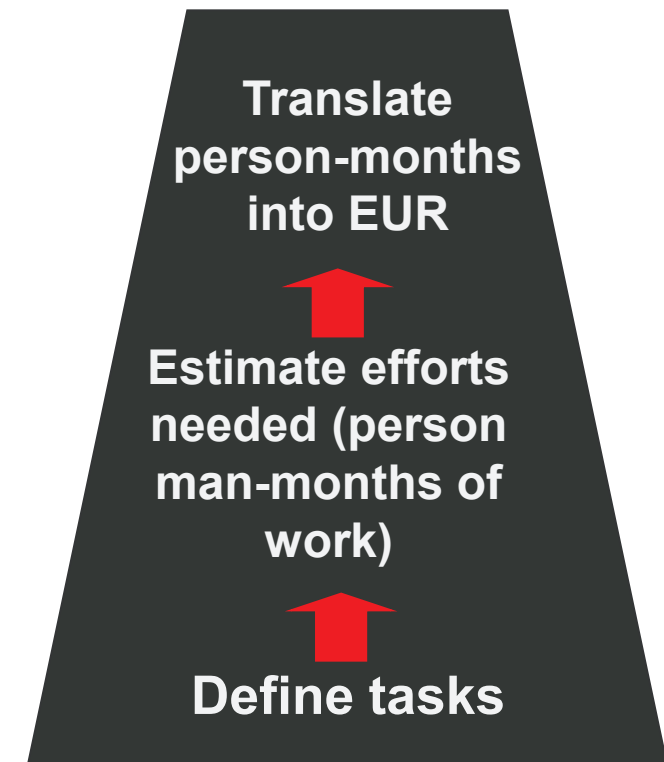
Final polishing

The technical annex must give a detailed description of the project idea and **work plan**, which:

- divides the planned work into **work packages**,
- assigns the related responsibilities and resources within the consortium,
- sets out a project time schedule, main **milestones and deliverables**,
- describes the project management structure,
- describes the communication and exploitation plans.

Create the budget

- Design your budget “bottom-up”
- Wait until the tasks are sufficiently specified and agreed – then design define the budget
- Check consistency regularly while advancing on with your Work Plan - share of resources, appropriate levels between partners, appropriate weight of person-months between major work steps





Last check: consistency / language

- Ask an “informed outsider” for critical reading and feedback
- Check consistency of your description of activities and budget
- If you have the chance, have a native speaker check the English



Frequent mishaps – Eligibility / Admissibility

- Call deadline is unchangeable: use all advantages of the electronic submission system to make the deadline!
- Completeness: one section missing makes your proposal inadmissible
- Partnerships: remember the principle of 3 participants from Member States or Associated Countries (check the Work Programme 2018/20 for exceptions)
- Page limit: 50 pages for CSA / 70 pages for IA+RIA: applied strictly during evaluation



Frequent mishaps – Excellence

- Evaluation results: Proposal lacks an explanation of the concept and added value and innovation falls short
 - ✓ Focus and show how you innovate
 - ✓ Explain the overall concept underpinning the project not only from the perspective of the Coordinator... input from your partners is key
 - ✓ Don't assume that the evaluators know your specific context
 - ✓ Be clear - you win by explaining!



Frequent mishaps – Impact

- Evaluation results: Ambition is not quantified / not realistic / not supported by action
 - ✓ Quantify! Describe in a concise, yet robust, manner your baseline, benchmarks and assumptions
 - ✓ Keep your 'challenge' in mind!
 - ✓ Plan activities to monitor your performance
 - ✓ Be aware: maintain the link between your actual activities in your work plan and the impact that they will lead to!



Frequent mishaps – Resources

- Evaluation results: Work plan not sufficiently detailed / Budgets not justified / Budgets seem top-down
 - ✓ Make sure work description sufficiently detailed and clear
 - ✓ Invest time into this: this is the opportunity to convince evaluators that you can materialise your vision
 - ✓ Invest time into your resource planning –bottom up



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



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Information Resources

- **H2020 Portal**
 - Check the FAQs
 - Contact the Participant Portal H2020 Helpdesk
- **National Contact Points**
- Horizon2020 and FP7 projects
 - **CORDIS database**
- 300+ Intelligent Energy Europe (IEE II) projects, including various information platforms and portals
- Mailbox: EASME-ENERGY@ec.europa.eu
 - No pre-proposal checks



"National Contact Points" – Energy Efficiency

Main services



Guidance on choosing relevant H2020 topics and types of action



Training and assistance on proposal writing (including pre-proposal check)



Advice on administrative procedures and legal issues



Support in consortium building (Partner Search Tool and Brokerage events)





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IEE Project database

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

Projects database

Search an item...

Browse by

Sector
All
Country
All
Date
Start
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

BUILD UP
energy solutions for better buildings

THE EUROPEAN PORTAL FOR ENERGY EFFICIENCY IN BUILDINGS

News | Events | Publications | Links | Cases | Tools | People | Blogs | Communities | Financing | Training | Country Facts | Overview Articles | Webinars

2012: EPBD - National implementation, NZEB - MS report on progress, EED - Entry into force

2013: EPBD - Application between 9/01/2013 and 9/07/2013, EED - National implementation

2014: EPBD - MS list of measures and instruments, RES Directive - Minimum levels of RES, EED - Assessment of national transposition

2015: NZEB - MS report on progress

2016: EuroPHit Project starts

2017: EPBD - MS updated list of measures and instruments

2018: NZEB - All new public buildings, NZEB - MS report on progress

2020: NZEB - All new/refurbished buildings, EuroPHit project ends, Strategic objectives

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

Country Fact Sheets: EPBD implementation in the United Kingdom - status at the...

Financing Schemes: National/Regional schemes for Non-Residential Buildings and... National/Regional schemes for Residential Buildings National/Regional schemes for Municipalities, Social...

Training Schemes: Building/Construction, Installers of Small-Scale Renewable Energy Systems, Air-Conditioning System Inspectors

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



EASME

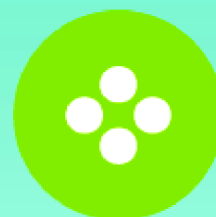
Executive Agency for Small and Medium-sized Enterprises



SME SUPPORT



ENERGY



ENVIRONMENT



MARITIME

**THANK YOU
FOR YOUR ATTENTION**

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It is a demanding competition: Call 2016 in numbers

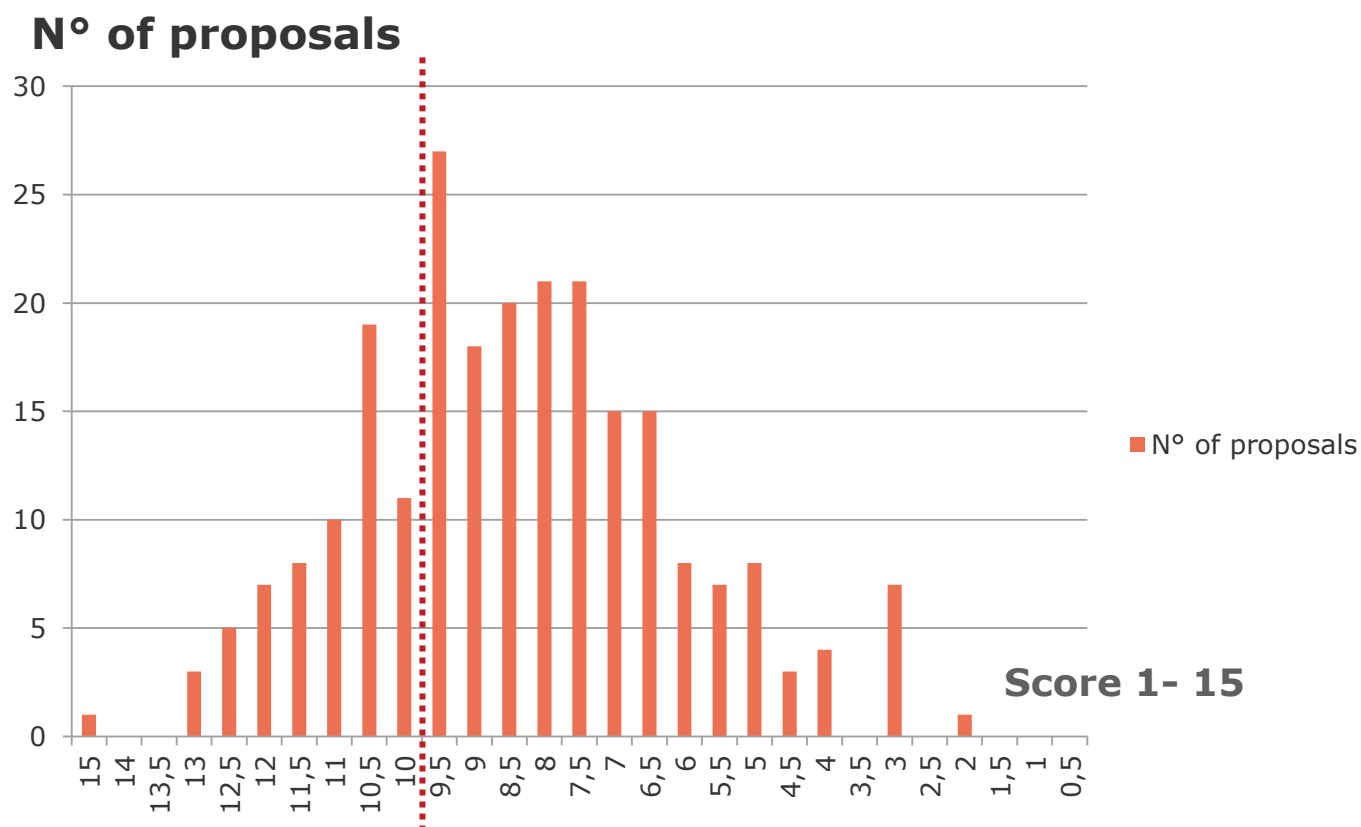
284

Proposals

42

**Project
selected**

It is a demanding competition!*



*Example of 2015 Market Update proposals (CSA)