

EASME

Executive Agency for Small and Medium-sized Enterprises







The EU Framework Programme for Research and Innovation

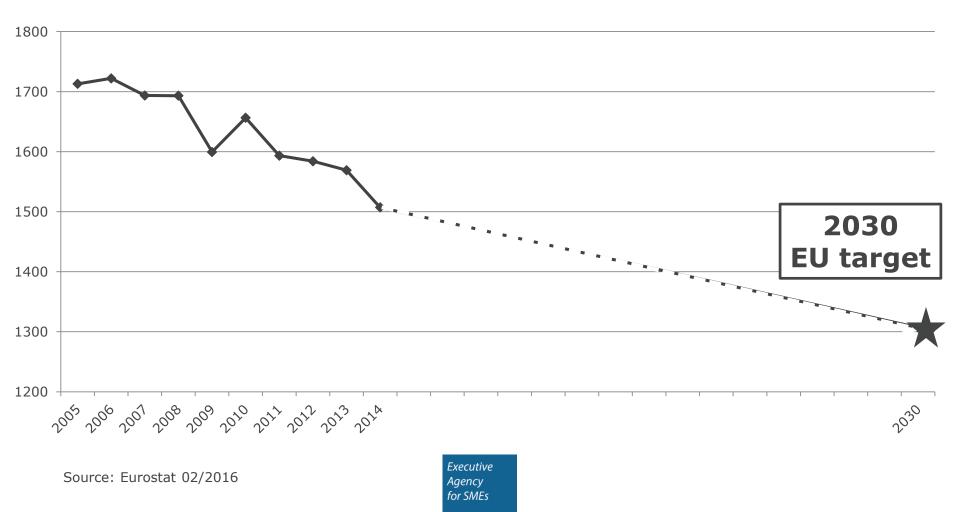
HORIZON 2020 Energy Efficiency Call 2017 Overview of June 7 Call Deadline

Gordon SUTHERLAND Senior Project Advisor H2020 Energy



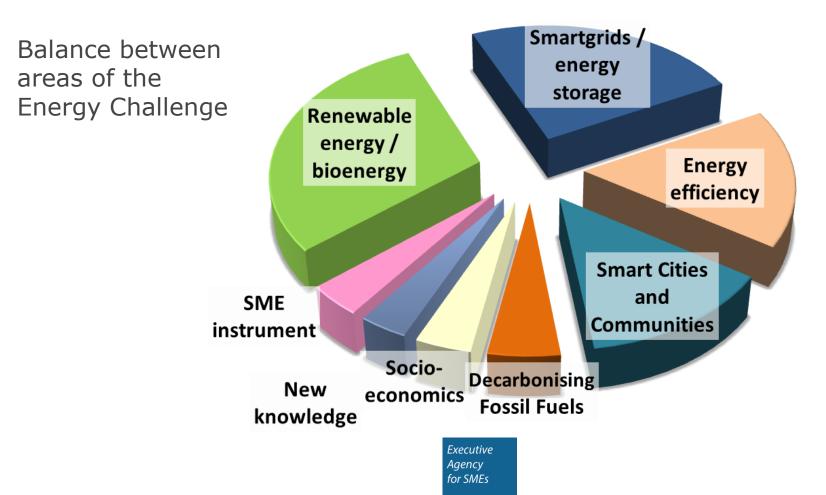


EU primary energy use (Mtoe)





The Horizon 2020 Societal Challenge Secure, Clean and Efficient Energy

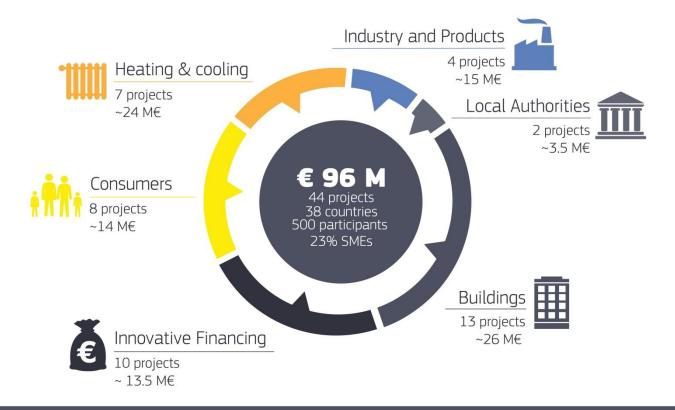








H2020 Energy Efficiency 2016 Call Results





H2020: Main type of actions in the Energy Efficiency Call 2017

Deadline 19 January 2017

TΑ

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

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

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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)



Closing 7 June 2017

Actions

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



Coordination & Support Actions EU support: 100%	EE02	EE06 EE09	EE11 EE14	EE15 EE16 EE18	EE22 EE23 EE24
				EE19*	



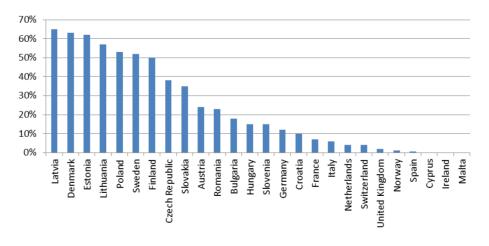


Coordination & Support Actions EE02 - Improving existing district heating networks





Improving existing district heating networks



Percentage of the population served by district heating (2013).Source: Commission services using data supplied by Euroheat and Power



- significant number of DH systems are old and inefficient and run using fossil fuels
- poor maintenance, high customer heat costs and limited ability for user control
- significant number of customers disconnect from networks and install individual systems

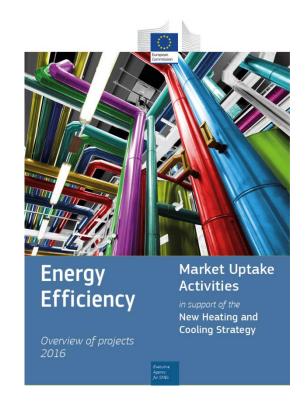




Market uptake for heating and cooling

Support under IEE and Horizon 2020 EE and LCE sections of the energy challenge

- support to market actors for the uptake of specific heating and cooling solutions <u>REGEOCITIES</u>, <u>GEODH</u>, <u>SDHPLUS</u>, <u>RESCUE</u>, <u>BiogasHeat</u>, <u>CODE2</u>.
- support to energy labelling for heating and cooling products and end consumer decision making <u>LabelPackAplus, FRONT, SuperSmart</u>.
- heating and cooling planning Progressheat, SmartReFlex, RES H/C SPREAD, STRATEGO, HRE (4), CoolHeating, SDHp2m.
- Support to project development assistance -> e.g MLEI PDA and Horizon 2020 PDA <u>SOLROD</u>, <u>BOWEN</u>, <u>Energy4Flexibility</u>, <u>GeoKec</u>, <u>EFIDISTRICT</u>, <u>BEenergi</u>, <u>TrustEE</u>.
- For projects with larger investments refer to the ELENA facility managed by the EIB.



https://ec.europa.eu/easme/en/heati ng-and-cooling











EE6-2017 Engaging private consumers towards sustainable energy

Specific challenge:

Consumers should be more aware, active, energy sufficient, and be prosumers. Specifically:

- Due to fluctuating energy prices, 50 million Europeans are affected by energy poverty;
- Collective consumer actions are hampered by barriers;
- Insufficient use of ICT solutions;
- Insufficient understanding of energy bills;



• Need to increase understanding of consumer behaviour





Topic EE-09a Actions aiming at engaging public authorities

Why public authorities?

- ✓ spending power (19% of EU GDP)
- \checkmark pivotal role in their communities
- \checkmark important driver in energy transition









In practice - What are we looking for?

- Innovative approaches
- Ambition in plans and measures
- Multi-stakeholder engagement



- Focus on sectors with high energy saving potentials
- Capitalising on synergies with e.g. Covenant of Mayors, Smart Cities & Communities or similar





The challenge of EE-09 b) Peer to peer learning for public authorities

- Step up public authorities' capacity to help deliver the energy transition
- Various techniques of peer-learning already tested staff mobility schemes, peer-to-peer working, mentoring, work shadowing, peer-reviews, study visits, etc.
- Need for scaling up peer-learning to exploit full potential





Coordination & Support Actions EE11 - Promoting deep renovation of buildings EE14 - Construction skills





Buildings -

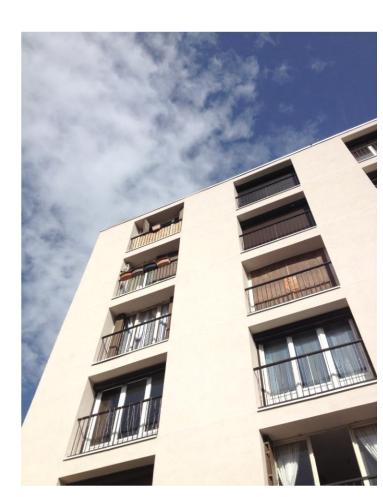
Pivotal for achieving the EU Energy and Climate Objectives:

2020 objectives:

- + 20% Energy Efficiency,
 - 20% Share of Renewable Energy
- 20% CO2 emissions

2030 objectives:

+ 27% Energy Efficiency





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EE-11 Buildings

- Increase renovation rate
- Improve energy performance of renovations
- Environmental sustainablity, health and well-being

Barriers to overcome:

 Non-technological, valuechain based (expl.: packages, finance, performance guarantees)





Example: Transition ZERO

- Standardised, affordable mass passive house retrofits in record time
- Minimal disturbance of the tenants – successful NL model 'Energiesprong' scaled-up and transferred to UK and French markets
- Involves social housing associations, suppliers and financiers





Is the workforce ready?





EE-14-2017: Construction skills

Specific Challenge

- Improve skills of entire value chain for energy efficiency
- Blue and white collar workers
- New challenges e.g. BIM, RES integration, new products and processes







EE15 - Increasing capacities in industry and services

Coordination & Support Actions EE16 - Implementing EU product efficiency legislation EE18 - Energy efficiency of industrial parks

Public Procurement of Innovation

EE17 - Public Procurement of Innovative Solutions



EE-15 Energy efficiency measures in industry

- Ensure that energy audit recommendations lead to **actual implementation**,
- Ensure that the results of energy audits provide the relevant financial data and can be addressed at board level
- Energy efficiency also relies on people behaviour and improvement of the energy culture of enterprises and their supply-chain.





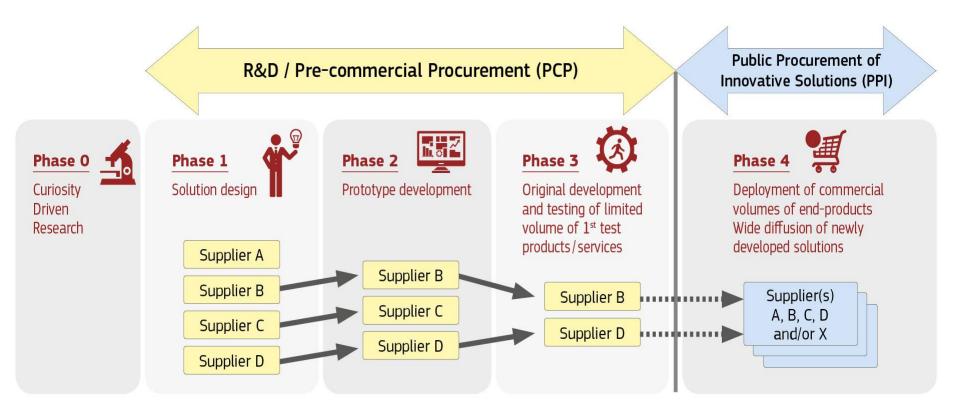
The challenge of EE-18 Energy efficiency of industrial parks

- **Energy** represents an **important** part of enterprises' **production costs** even for **nonenergy intensive industries**
- In **industrial parks optimising** energy efficiency can be obtained by **stimulating and facilitating energy cooperation** among businesses
 - Physical clustering (buildings and processes, energy exchange, collective production) and service clustering (joint contracting)
 - Addresing organisational, financial, legal, social and technical barriers





EE-19: Introducing Public Procurement of Innovative Solutions



Why European cooperation on PPI?



- Speed up public sector modernisation
- Get better value for money through cooperation
- Address issues of common interest together
- Create growth and jobs in Europe

PROCUREMENT OF LIGHTING INNOVATION AND TECHNOLOGY IN EUROPE (PRO-LITE)





www.prolitepartnership.eu





EE22 - Project Development Assistance

Coordination & Support Actions

EE23 - Innovative financing schemes

EE24 - Making the energy efficiency market investible



Impacts - Examples



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)





H2020 Energy Efficiency Call 2017 Info Day topic specific sessions available online:

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





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THANK YOU FOR YOUR ATTENTION

Find out more http://ec.europa.eu/research/horizon2020



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The EU Framework Programme for Research and Innovation

HORIZON 2020 – Energy Efficiency Call

Tips & and tricks for submitting an excellent proposal





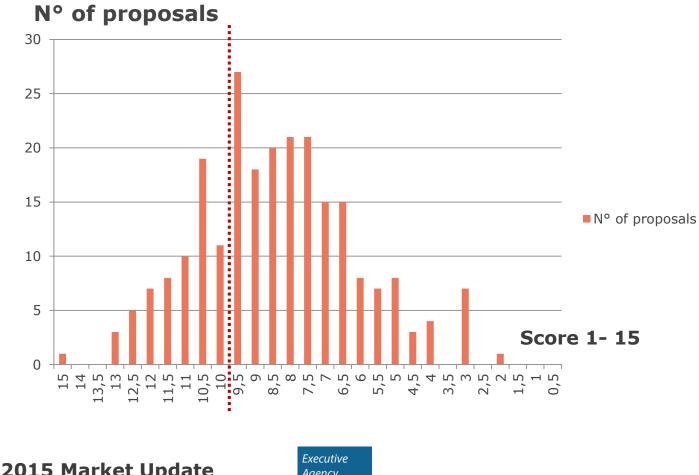
It is a demanding competition: a typical Call for Proposals in numbers







It is a demanding competition!*



*Example of 2015 Market Update proposals (CSA)

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- The evaluation process some interesting elements
- Before you start tips and lessons learnt
- Keys to success feedback from our experts





H2020 – Some interesting elements

- 2-year work programme
- 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





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







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







- The evaluation process basic principles
- Before you start tips and lessons learnt
- Keys to success feedback from our experts







If you didn't start early ... then start now! From today, 4th April:

+/- 2 months until deadline

7th June 2017

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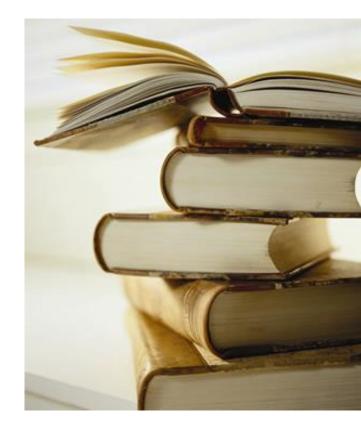
Learn the language ...

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





- 'Energy Challenge Work Programme 2016/17': 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

Your Proposalyodescriptionpa• ExcellenceCV	rtnership & data /'s	Annexes: e.g. • Letters of
• Impact • Et	hics	Support

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Implementation



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

for SMEs



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:

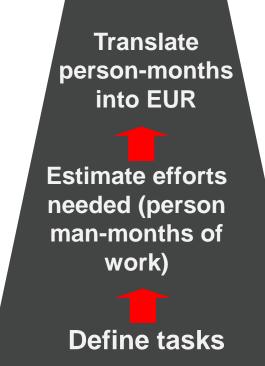
- divides the planned work into work packages,
- assigns the related responsibilities and resources within the consortium,
- sets out a project time schedule, main milestones and deliverables,
- describes the project management structure,
- describes the communication and exploitation plans.





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



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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







- The evaluation process basic principles
- Before you start tips and lessons learnt

• Keys to success - feedback from our experts





Frequent mishaps – Eligibility / Admissibility

- <u>Call deadline is unchangeable</u>: use all advantages of the electronic submission system to make the deadline!
- <u>Completeness</u>: one section missing makes your proposal inadmissible
- <u>Partnerships</u>: remember the principle of 3 participants from Member States or Associated Countries (check the Work Programme 2016/17 for exceptions)
- <u>Page limit</u>: 50 pages for CSA





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





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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: <u>EASME-ENERGY@ec.europa.eu</u>
 - No pre-proposal checks





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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European Commission



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Find out more http://ec.europa.eu/research/horizon2020



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