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# EASME

Executive Agency for Small and Medium-sized Enterprises

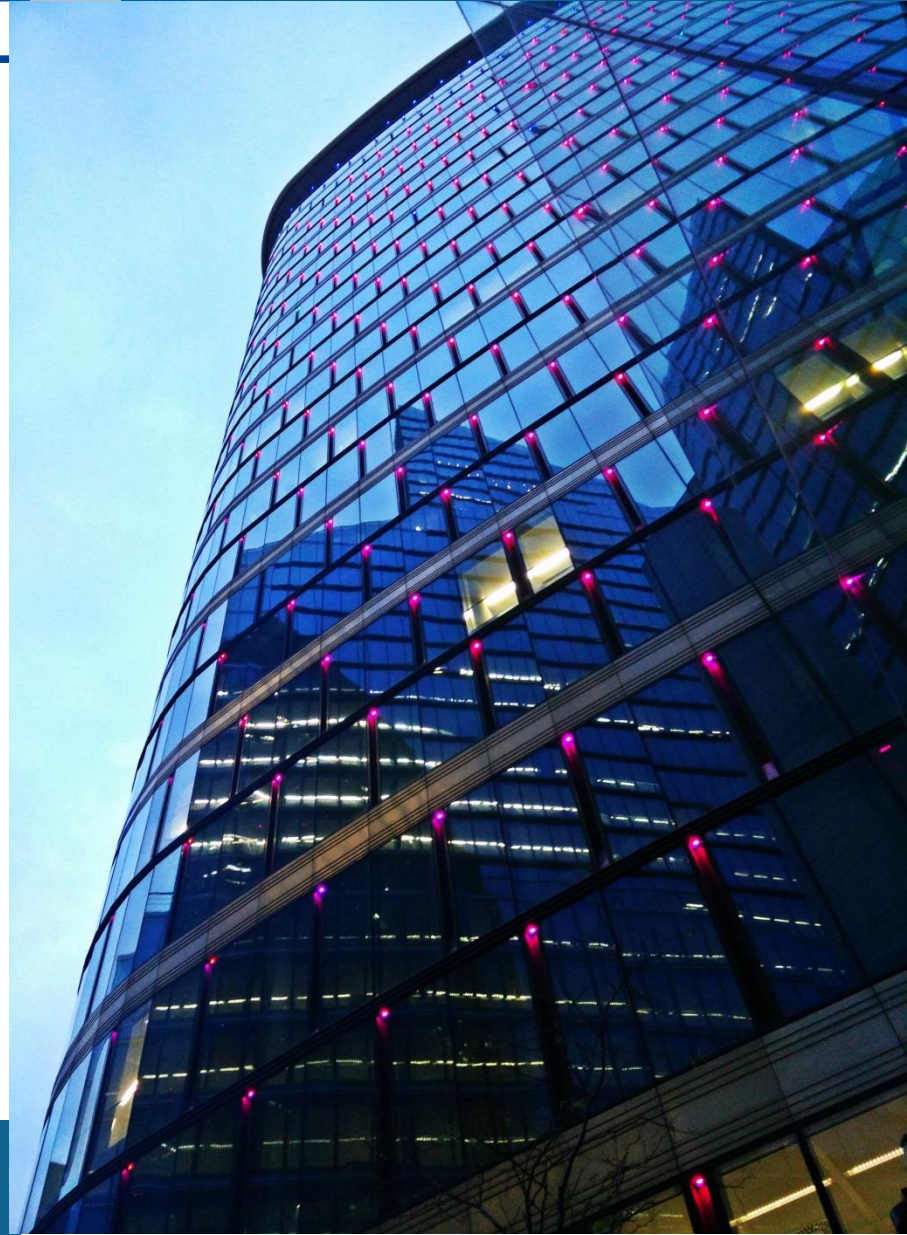
## EU Support for Energy Efficient Buildings

**Philippe MOSELEY**

Project Advisor

Horizon 2020 Energy (Buildings)

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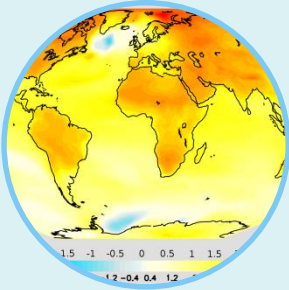


**Why spend EU funds on  
renovation of sports buildings?**



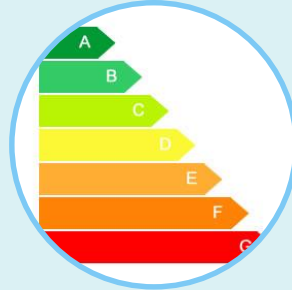
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# Building renovation – the challenges



## Climate change

- Reduced energy consumption
- Renewables



## Higher standards

- Energy efficiency
- Air tightness



## Lack of capacity

- Technical
- Financial
- Legal etc



## Fragmented industry

- SME's
- Separated disciplines





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# Clean Energy for all Europeans

## ACHIEVING THE BINDING 30% ENERGY EFFICIENCY TARGET BY 2030



### Energy Efficiency Directive

- Binding 30% energy efficiency target for 2030;
- Create 400,000 new jobs;
- Reduce gas imports by 12%;
- Save € 70 billion in fossil fuel imports;
- Empower consumers by granting access to information on their energy consumption.



### Energy Performance of Buildings

- Clear vision for a decarbonised building stock by 2050;
- Smart & Efficient buildings through use of Information and Communication Technologies and Smart Technologies;
- Smart Finance for Smart Buildings initiative:
  - More effective use of public funding
  - Aggregation of funds
  - De-risking
- Protect vulnerable groups & address energy poverty.



### Ecodesign Working Plan 2016-2019

- List of new product groups;
- Outline on how ecodesign will contribute to circular economy objectives;
- Specific measures on air conditioning;
- Guidelines on voluntary agreements.

## EASME's role within the European Commission

- Manage EU programmes
- Feed project outcomes into EU policymaking





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THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

*Research*

*Demonstration*

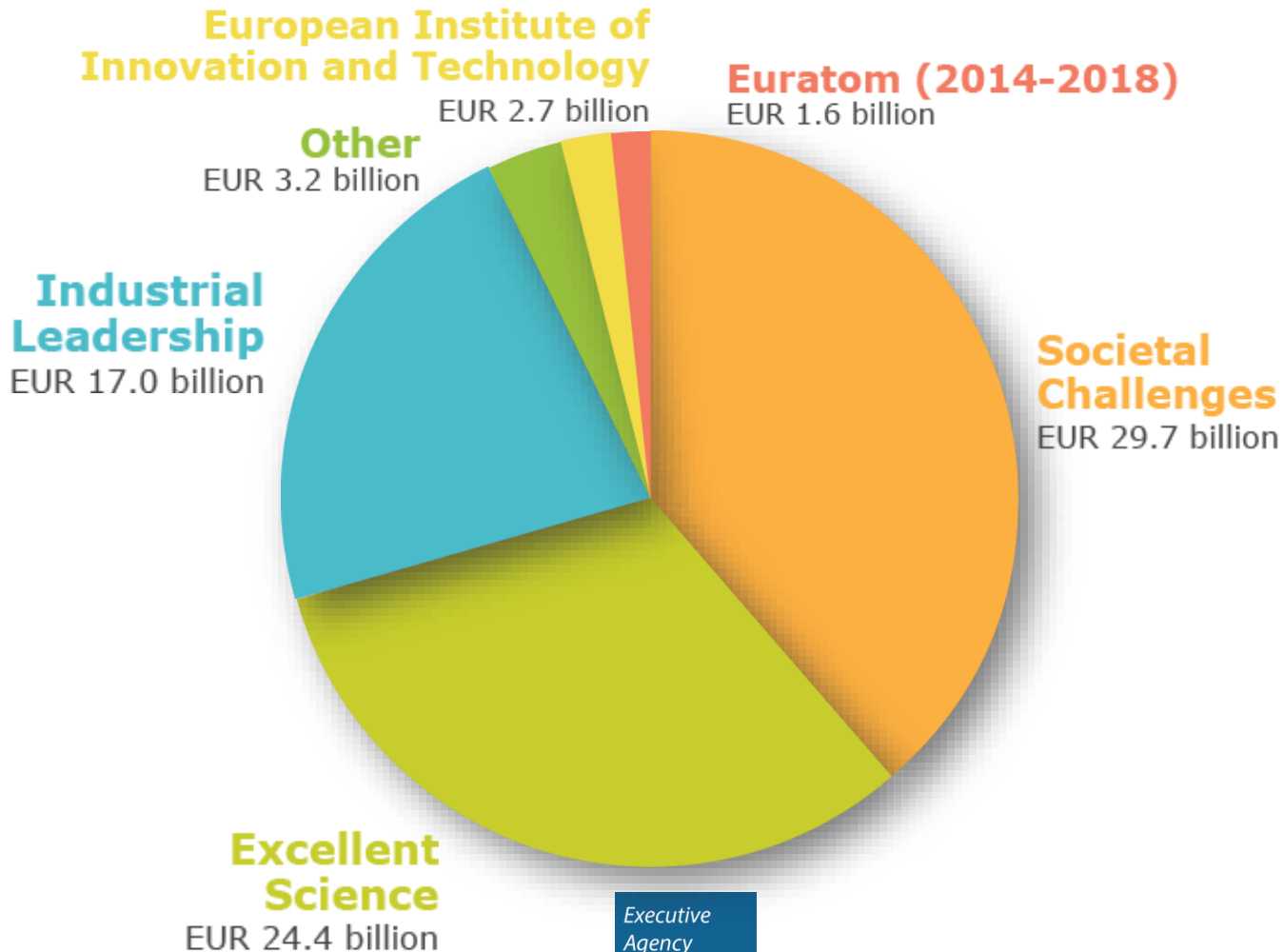
*Market Uptake*

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# Horizon 2020 Budget (2014-2020)



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# Horizon 2020 Budget (2014-2020)

- 1. Health, demographic change & well-being
- 2. Food security, sustainable agriculture, marine research & the Bioeconomy
- 3. Secure, clean & efficient energy **EUR 5.9 Billion**
- 4. Smart, green & integrated transport
- 5. Climate action, environment & raw materials
- 6. Europe in a changing world
- 7. Secure societies

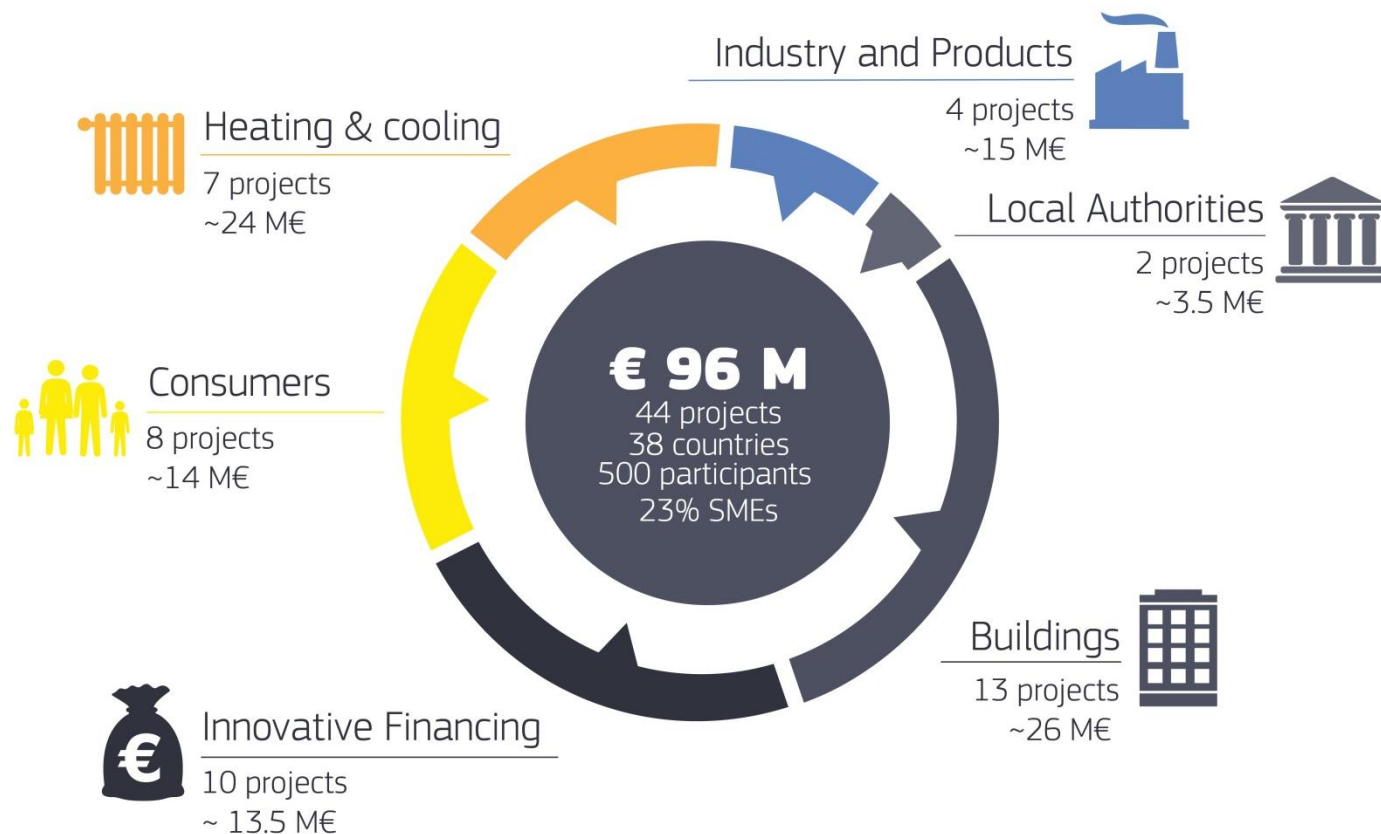






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# H2020 Energy Efficiency 2016 call results



# Secure, Clean and Efficient Energy

Main areas	2017, Million EUR
Energy Efficiency	104
Smart Cities and Communities	69
Competitive Low-Carbon Energy	423
SME Instrument	50
ELENA (project dev. assistance)	20
Tenders and other actions	34



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# Secure, Clean and Efficient Energy

Main areas	2017, Million EUR
Energy Efficiency	104

## Funding areas



Buildings



Heating &  
Cooling



Consumers



Industry &  
Products



Finance for  
Sustainable  
Energy



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# Secure, Clean and Efficient Energy

Main areas	2017, Million EUR
Energy Efficiency	104

## Types of action

*Research*  
100% funding

*Demonstration*  
70% funding

*Market Uptake*  
100% funding



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**Heating &  
Cooling**



**Consumers**



**Buildings**



**Industry &  
Products**



**Finance for  
Sustainable  
Energy**

*Innovation  
Actions*

49 million EUR

**Deadline 19 January 2017**

*Coordination &  
Support Actions*

55 million EUR

**Deadline 7 June 2017**

<http://ec.europa.eu/easme/en/energy>

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Heating &  
Cooling



Consumers



**Buildings**



Industry &  
Products



Finance for  
Sustainable  
Energy

*Innovation  
Actions*

EE12 - Integrating demand response in energy management systems

**Closed for proposals**

*Coordination &  
Support Actions*

EE11 - Promoting deep renovation  
EE14 - Construction skills

**Deadline 7 June 2017**

<http://ec.europa.eu/easme/en/energy>

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**Heating &  
Cooling**



Consumers



Buildings



Industry &  
Products



Finance for  
Sustainable  
Energy

*Innovation  
Actions*

EE01 - Recovering urban waste heat  
EE04 - Using of low grade energy sources

**Closed for proposals**

*Coordination &  
Support Actions*

EE02 - Improving existing district heating  
networks

**Deadline 7 June 2017**

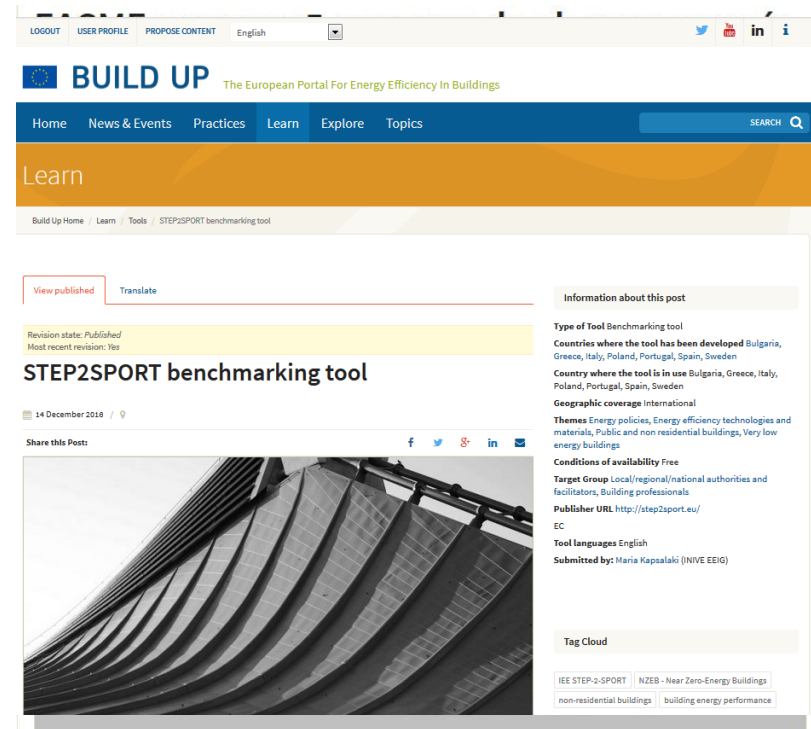
<http://ec.europa.eu/easme/en/energy>

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# BUILD UP – the EU portal for energy efficiency in buildings

[www.buildup.eu](http://www.buildup.eu)

- Latest news, research, live webinars, data tools
- Upload material, collaborate
- Works on all screen sizes
- Now in 7 major EU languages



The screenshot displays the BUILD UP website interface. At the top, there is a navigation bar with links for 'Home', 'News & Events', 'Practices', 'Learn', 'Explore', and 'Topics'. Below this is a search bar. The main content area features a large orange banner with the word 'Learn'. The article title is 'STEP2SPORT benchmarking tool', dated 14 December 2018. The article includes a 'View published' button and a 'Translate' option. A 'Share this Post' section is visible with social media icons. The article content includes a photograph of a modern building facade with a curved, metallic structure. To the right of the article, there is a sidebar with 'Information about this post' containing details such as 'Type of Tool Benchmarking tool', 'Countries where the tool has been developed Bulgaria, Greece, Italy, Poland, Portugal, Spain, Sweden', 'Country where the tool is in use Bulgaria, Greece, Italy, Poland, Portugal, Spain, Sweden', 'Geographic coverage International', 'Themes Energy policies, Energy efficiency technologies and materials, Public and non residential buildings, Very low energy buildings', 'Conditions of availability Free', 'Target Group Local/regional/national authorities and facilitators, Building professionals', 'Publisher URL http://step2sport.eu/', 'EC', 'Tool languages English', and 'Submitted by: Maria Kapsalaki (INIVE EEIG)'. At the bottom right, there is a 'Tag Cloud' with tags like 'IEE STEP-0-SPORT', 'NZEB - Near Zero-Energy Buildings', 'non-residential buildings', and 'building energy performance'.





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# IEE Projects Database

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

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English (en) ▾



INTELLIGENT ENERGY EUROPE

European Commission > Energy > Intelligent Energy Europe > Projects database

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## STEP-by-STEP renovation towards nearly zero energy SPORT buildings (STEP-2-SPORT)

[View published](#)

[New draft](#)

[History](#)

Revision state: *Published*  
Most recent revision: Yes

Tags: [building](#) [refurbishment](#) [renovation](#)

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STEP-2-SPORT project aims to support the refurbishment of the existing sport buildings through **step by step renovation towards Nearly Zero Energy Buildings (NZEB)**. Energy audits and energy performance certification will be performed in **pilot sport facilities** from 7 different countries (Sweden, Poland, Portugal, Spain, Italy, Greece and Bulgaria). **Action Plans for renovation of pilots** will be developed, identifying what energy improvement measures should implement each pilot over the next 10 years in order to be a NZEB. Following the recommendations defined in the action plans, energy improvement measures will be set up during the project duration. A **roadmap will be defined** with the aim of achieving NZEB in EU sport buildings in the medium-long term. The most important barrier for sport owners is the lack of investment capital to implement full refurbishment towards NZEB. For this reason, **innovative business model schemes**, and in particular ESCOs will be promoted since they can finance energy improvement measures. A **Replication Plan** will be defined to transfer the results of the project and trigger the replication of renovations in other EU sport buildings. More information: Twitter: [@step2sport](#) / Facebook [www.facebook.com/Step2SportEU](#) / LinkedIn [gr.linkedin.com/pub/step-2-sport-step-by-step-renovation-towards-nzeb/aa/a53/1a9](#)

In this page:

- [Results](#)
- [Lesson learned](#)
- [Videos and photos](#)
- [Partners and coordinator](#)

### Results

**Result 1** Energy action plans defined in 26 pilot sport buildings in order to be nearly Zero Energy Buildings within 10 years term.

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**THANK YOU  
FOR YOUR ATTENTION**

Find out more

<http://ec.europa.eu/easme/en/energy>

EASME on Twitter



@H2020EE • @PhilippeMoseley

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