



European  
Commission

# EASME

Executive Agency for Small and Medium-sized Enterprises

## EU Support for Energy Efficient Urban Regeneration

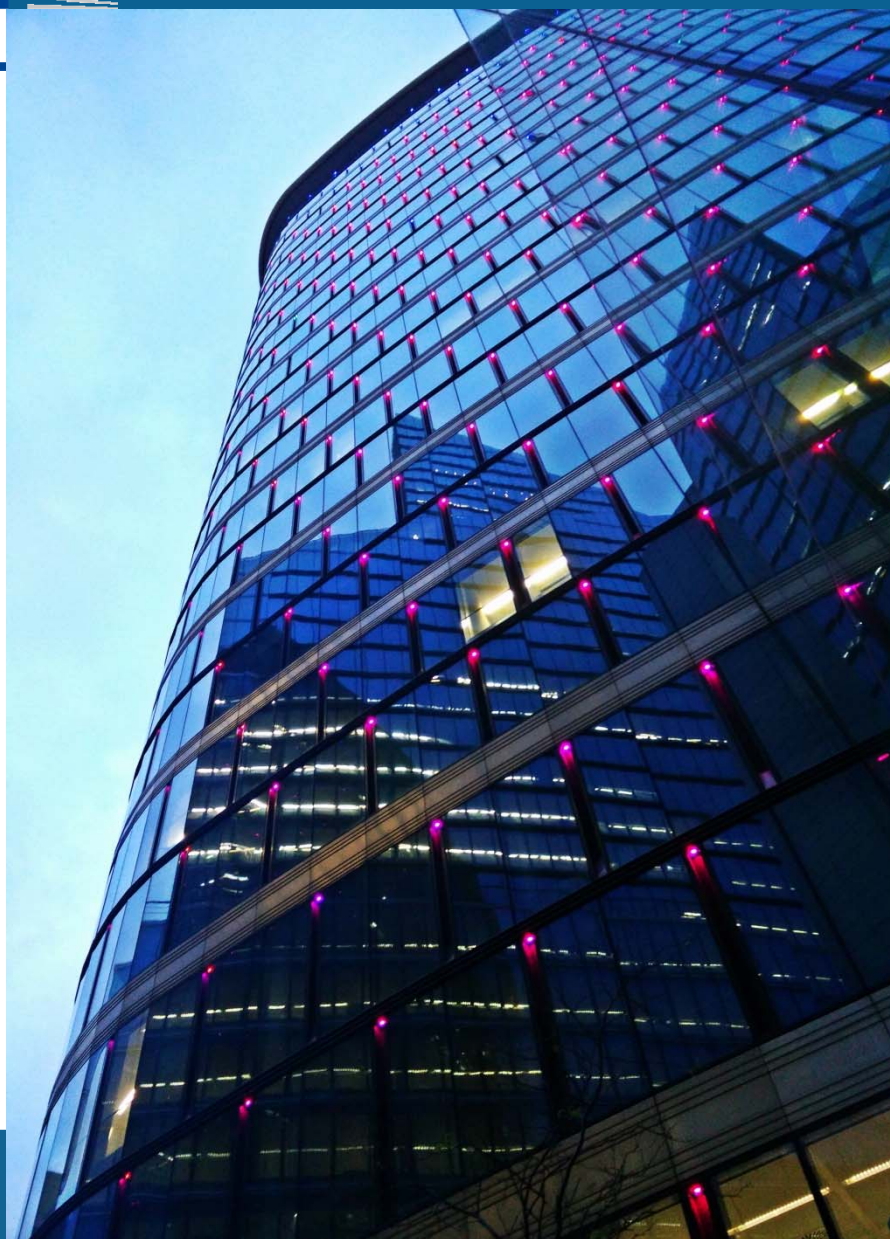
FosterREG Final Conference  
Zagreb 11.05.2017

**Philippe MOSELEY**

Project Advisor

Horizon 2020 Energy Unit (Buildings)

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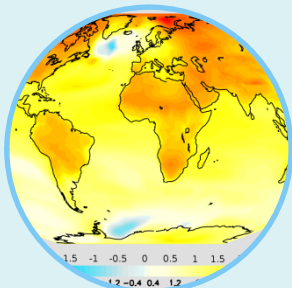






**Why spend EU funds on  
energy efficient regeneration?**

# Urban regeneration – the challenges



## Climate & energy targets

- Reduced energy consumption
- Renewables



## Multiple authorities

- EU level
- National
- Regional
- Local



## Lack of capacity

- Technical
- Financial
- Legal etc



## Multiple stakeholders

- Separated disciplines



# 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.



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

# HORIZON 2020



*Research*

*Demonstration*

*Market Uptake*

# 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

# 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



Heating &  
Cooling



Consumers



Buildings



Industry &  
Products



Finance for  
Sustainable  
Energy

Coordination  
& Support  
Actions  
EU support: 100%

EE02

EE06  
EE09

EE11  
EE14

EE15  
EE16  
EE18

EE22  
EE23  
EE24

EE19\*

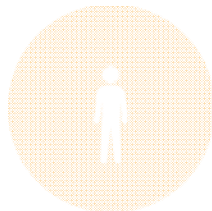
**Deadline:**  
**7 June 2017**

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

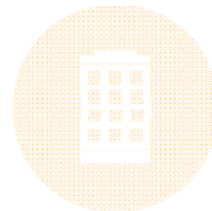




Heating &  
Cooling



Consumers



Buildings



Industry &  
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Finance for  
Sustainable  
Energy

Coordination  
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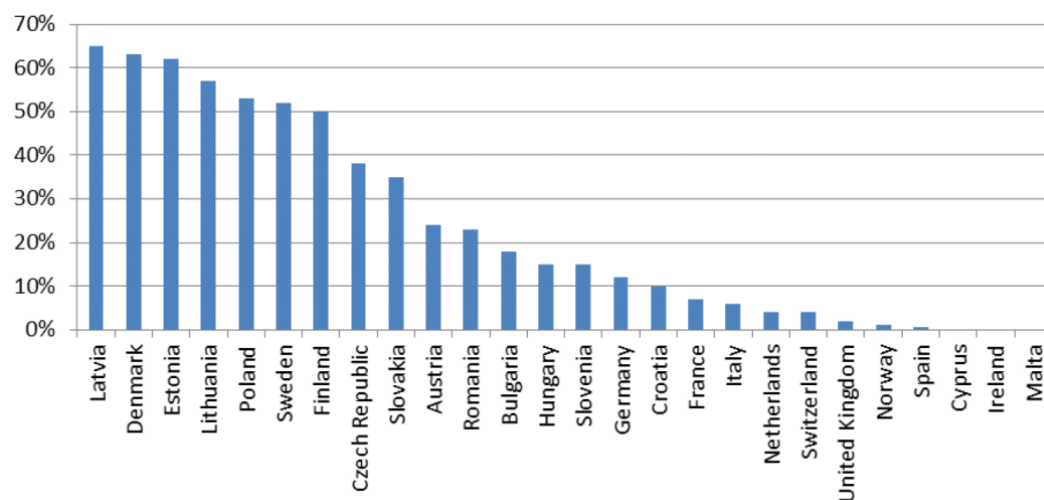
**EE02 - Improving existing district heating networks**

**Deadline:**  
**7 June 2017**

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

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## EE-02: Improving district heating networks



Population served by district heating (2013). Source: European Commission using data from Euroheat & Power

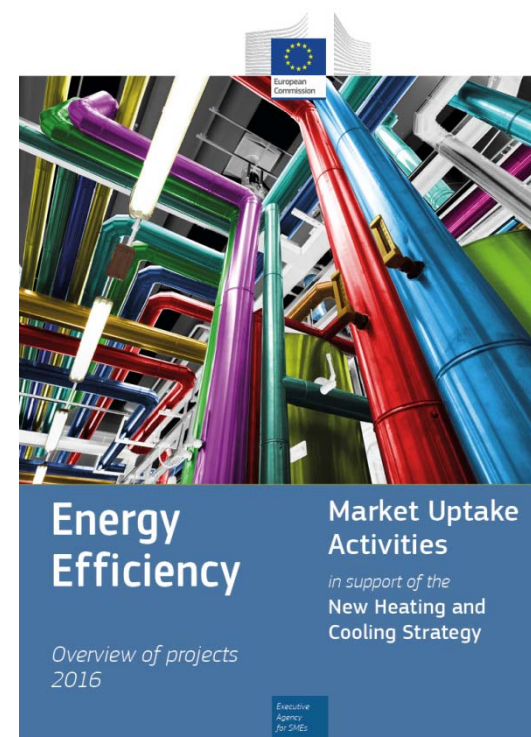


- Many DH systems are **old and inefficient**, use fossil fuels
- **Poor maintenance**, high customer costs, limited user control
- Many customers **disconnect** from networks to install individual systems

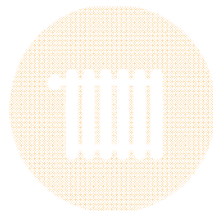
# Market uptake for heating and cooling

Project examples including:

- Strategic and spatial planning for heat networks e.g. [European Thermal Atlas](#)
- Capacity building e.g. [RES H/C SPREAD](#)



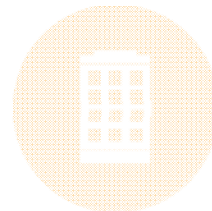
<https://ec.europa.eu/easme/en/heating-and-cooling>



Heating &  
Cooling



**Consumers**



Buildings



Industry &  
Products



Finance for  
Sustainable  
Energy

**Coordination  
& Support  
Actions**

**EE-06 - Engaging private consumers**

**EE-09 - Activating public authorities**

**Deadline:  
7 June 2017**

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

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## EE-09 a/b: Engaging & activating public authorities

Why public authorities?

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



## EE-09a Engaging public authorities

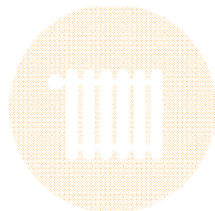
- Innovative approaches
- Ambition in plans and measures
- Multi-stakeholder engagement
- Focus on sectors with high energy saving potentials
- Capitalising on synergies with e.g. Covenant of Mayors, Smart Cities & Communities or similar



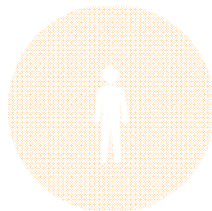
## EE-09b Peer to peer learning for public authorities

- Enhance public authorities' capacity to deliver the energy transition
- Innovative energy-related exchange programmes for staff
- Need to scale up peer-learning to exploit full potential





Heating &  
Cooling



Consumers



**Buildings**



Industry &  
Products



Finance for  
Sustainable  
Energy

Coordination  
& Support  
Actions

**EE11 - Promoting deep renovation of buildings**

**EE14 - Construction skills**

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

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## EE-11 Deep renovation of buildings

- Overcome common barriers to renovation
- Improve energy performance and speed up rate of renovation
- Improve environmental, health and well-being outcomes
- Improve compliance with regulations



## Example of deep renovation: Transition Zero

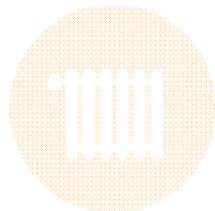
- Standardised, affordable home renovations in record time
- Minimal disturbance of occupants – successful Dutch model 'Energiesprong' scaled-up and transferred to UK and French markets
- Involves social housing associations, suppliers and financiers



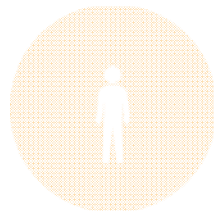
<http://transition-zero.eu/>

# Is the workforce ready? EE-14 Construction skills

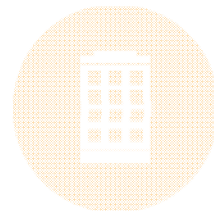




Heating &  
Cooling



Consumers



Buildings



Industry &  
Products



Finance for  
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Energy

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

**EE19 - Public Procurement of Innovative Solutions**

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

**Deadline:  
7 June 2017**

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## EE-19 Public procurement of innovative solutions

- Speed up public sector modernisation
- Get better value for money through cooperation
- Address issues of common interest together



# Example of PPI: the CEPPI project

<http://www.ceppi.eu>



ABOUT CEPPI CITIES TENDERS GUIDANCE & LEARNING KEEP INFORMED



5 CITIES  
AND  
4 EXPERT PARTNERS



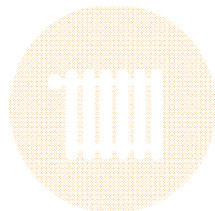
LOOKING FOR  
SUSTAINABLE ENERGY  
SOLUTIONS



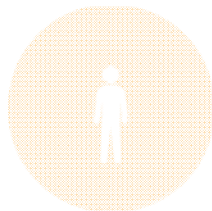
THROUGH  
PUBLIC PROCUREMENT  
OF INNOVATION



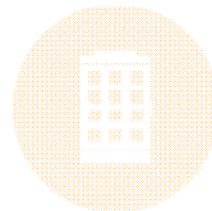
TO ACHIEVE  
ENERGY SAVINGS  
of 33 GWH PER YEAR



Heating &  
Cooling



Consumers



Buildings



Industry &  
Products



Finance for  
Sustainable  
Energy

Coordination  
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Actions

**EE22 - Project Development Assistance**

**EE23 - Innovative financing schemes**

**EE24 - Making the energy efficiency market investible**

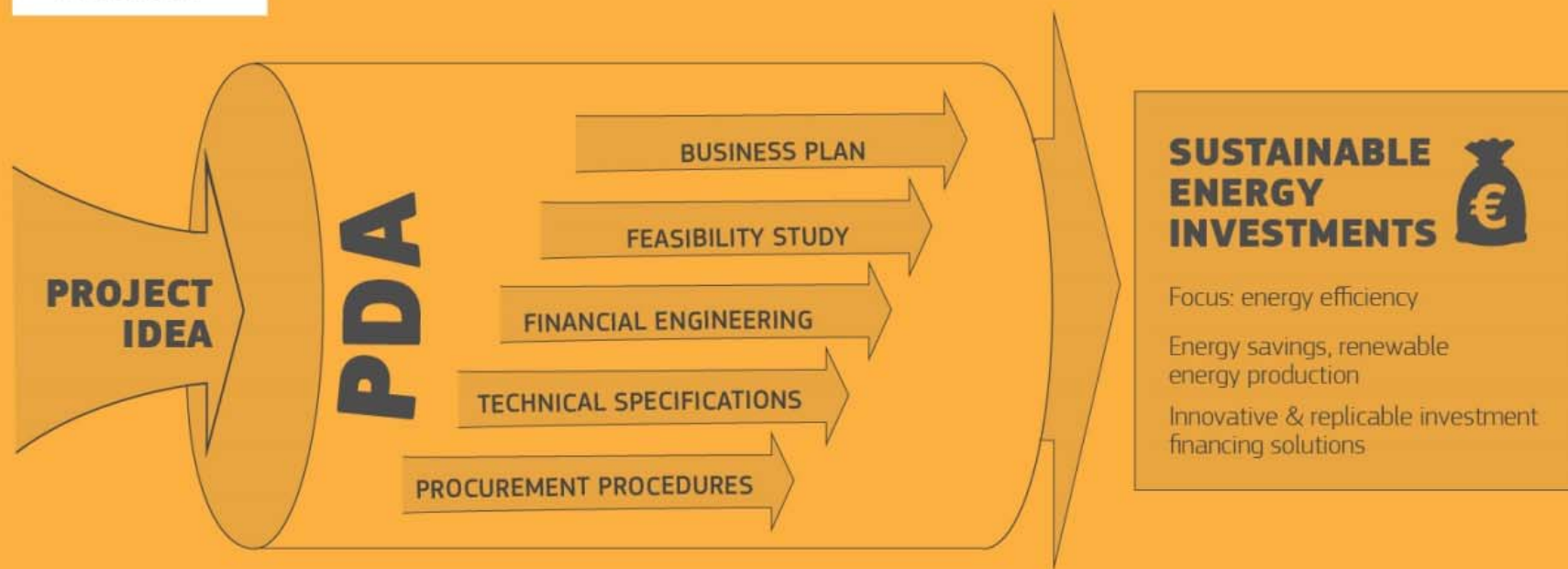
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## EE-22 Project Development Assistance (PDA)

### WHAT



# EE-22 Project Development Assistance (PDA)

## Target groups for PDA include:

- Public and private project promoters
- Public authorities
- Public or private infrastructure operators  
estate managers
- Energy service companies (ESCOs)







# EE-22 Project Development Assistance (PDA)

**FOCUS ON...**

ENERGY EFFICIENCY INVESTMENTS IN



Existing public and private buildings



Street lighting



Retrofitting of existing district heating/cooling



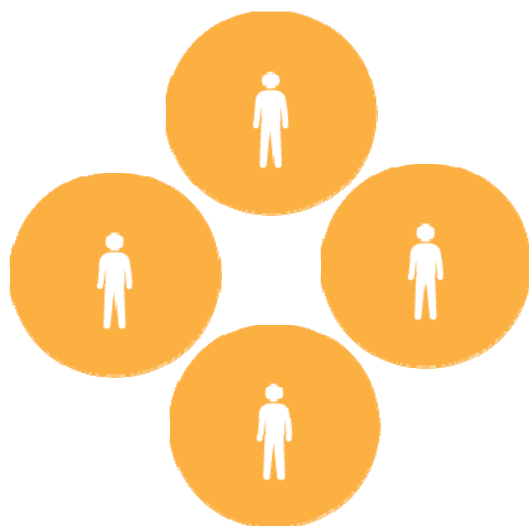
Urban transport



Industry and services

**Size of investment portfolio: EUR 7.5 million – EUR 50 million**

# Support for Capacity Building



☒ "Sustainable Energy Investment Forum" 2016-2019

☒ National Finance Platforms (ES/AT/NL-IT-FR)

☒ ManagEnergy – energy efficiency finance: in-depth learning for energy agencies, starting Q2 2017

☒ Peer to Peer facility 2016/2017

# Capacity Building: Sustainable Energy Investment (SEI) Forum

Series of events across EU in 2017/2018 to build capacity, and increase demand & supply of EE finance.

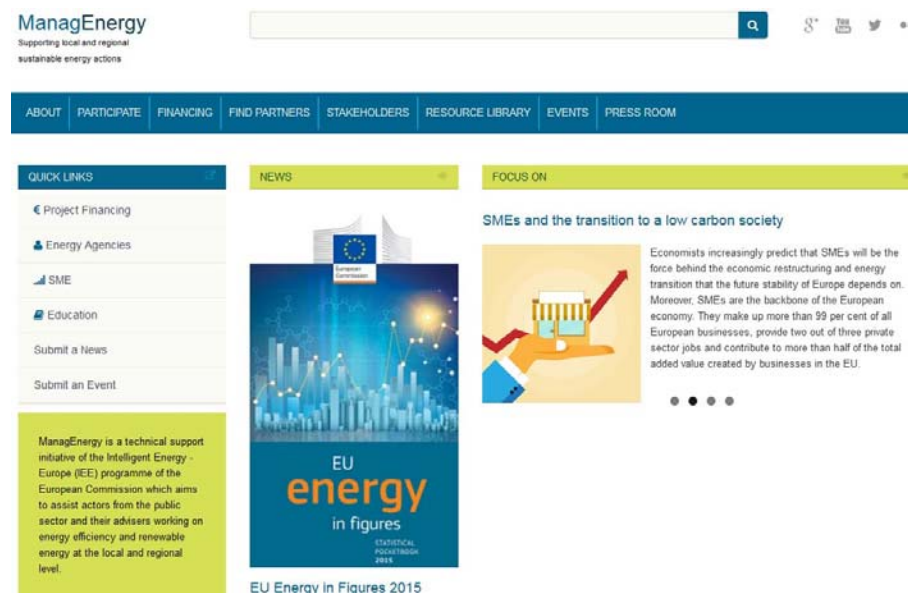
- Showcase exemplary projects & replicable investment models
- First event: Riga, 11<sup>th</sup> Nov 2016, covering the Baltic Region



# ManagEnergy (2017-2020)

Platform for high quality  
training/coaching and networking  
for local & regional energy  
agencies

[www.managenergy.net](http://www.managenergy.net)



# 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

## EASME propone 5 maneras de ahorrar energía en el 2017

27 Enero 2017 / Pan European

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Find out more

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

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