



Co-funded by the Intelligent Energy Europe Programme of the European Union



www.nezeh.eu

Sustainable and competitive hotels for energy innovation

NEZEH 2015

Acropolis Nice – June 24th 2015



EASME

Executive Agency for Small and Medium-sized Enterprises

Nearly Zero Energy Building Challenges Inspiration from European Projects

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ENERGY





Intelligent Energy Europe (IEE)



- **EU funding programme** for the uptake of proven intelligent energy solutions
- **IEE I** €350 million for 2003-06
- **IEE II** €730 million for 2007-13
- **700+ projects and 5000+ beneficiaries (45% SMEs)**



Horizon 2020



- **Research and innovation funding programme (2014-2020)** of nearly 80 billion € (in current prices)
- **A single programme coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy, transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond





Societal Challenges - Funding (€ million, 2014-2020)

1. Health, demographic change and wellbeing	7 472
2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy	3 851
3. Secure, clean and efficient energy *	5 931
4. Smart, green and integrated transport	6 339
5. Climate action, environment, resource efficiency and raw materials	3 081
6. Inclusive, innovative and reflective societies	1 310
7. Secure societies	1 695

* Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)



ENERGY CHALLENGE CALLS (indicative budget)



Calls	2014 (M€)	2015 (M€)
→ Energy Efficiency	92.5	100
Smart Cities and Communities	73	85
Competitive Low-Carbon Energy	359	377
SMEs and Fast Track to Innovation	34	34
<i>Part B – other actions</i>	<i>76</i>	<i>58</i>



Energy Efficiency Call (2014-2015)



1. Buildings and Consumers
2. Heating and Cooling
3. Industry and Products
4. Finance for Sustainable Energy





1. Buildings and Consumers



- Prefabricated modules
- Historic buildings
- New EE buildings
- Demand response in building blocks
- ICT for EE
- Socio-eco. research

- Construction skills
- Organisational innovation
- Capacity-building for public authorities and other stakeholders
- Public procurement
- Consumer engagement



2. Heating and Cooling



- Technology for district heating and cooling

- Removing market barriers to the uptake of EE solutions

3. Industry and Products

- Innovation through large buyer groups
- Heat recovery

- Market surveillance
- Organisational innovation in industry





4. Finance for Sustainable Energy



- *Making investments more attractive*
- *Innovative financing and energy services*
- *Project development assistance (+ ELENA scheme with EIB)*



NeZeR



- Promotion of smart and integrated NZEB renovation measures in the European renovation market
- Coordinator: VTT (Finland)
- Partners in NL, SE, RO, ES
- <http://www.nezer-project.eu/>





TOTAL CONCEPT



- The Total Concept method for major reduction of energy use in non-residential buildings
- Coordinator: CIT Energy Management (Sweden)
- Partners in DK, NO, EE
- <http://totalconcept.info/>



STEP-2-SPORT



- Step-by-Step renovation towards nearly zero energy sports buildings
- Coordinator: LEITAT(Spain)
- Partners from PL, EL, IT, SE, BG, PT
- <http://step2sport.eu/>





MORE - CONNECT



- Development of technologies and components for prefabricated and modular renovation
- Coordinator: Huygens (NL)
- 9 SMEs + 9 Universities, Research Centres and Industry Clusters
- <http://www.more-connect.eu/>



 MORE
CONNECT

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BERTIM



- Building energy renovation through timber prefabricated modules
- Coordinator: Tecnalia (Spain)
- Partners in France, Sweden, Denmark, Germany, Poland

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RIBuild



- Robust Internal Thermal Insulation of Historic Buildings. www.ribuild.eu
- Coordinator: Aalborg University (DK)
- Partners in LV, DE, BE, IT, SE, CH
- Research & Innovation project from PPP EeB



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EPC_PLUS



- Energy Performance Contracting Plus
- Coordinator: Centre for RES and Saving Foundation (EL)
- Partners in DE, BE, AT, IE, ES, PT, IT, CZ, SL, BG
- H2020 Coordination & Support Action
- <http://www.epcplus.org/>



€PC
Energy Performance Contracting Plus

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BUILD UP Skills

- Continuing education and training of craftsmen and other on-site workers
- 30 countries
- Need to train over 3 million workers by 2020
- 22 ongoing projects







www.buildupskills.eu





MLEI (Mobilising Local Energy Investments)

→ <http://ec.europa.eu/energy/intelligent/files/mlei-projects-2011-12.pdf>

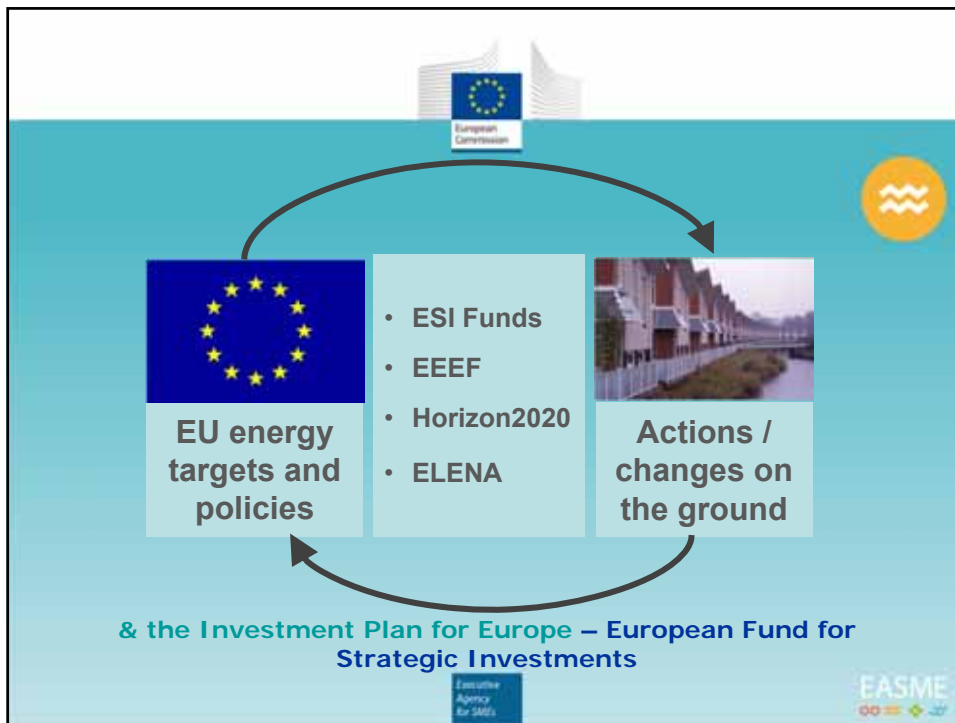


MLEI Energies Positif (France)

- Low-energy refurbishment with guaranteed energy savings in 32 condominiums as well as 8 social housing and public buildings
- Developing extended Energy Performance Contracting services to condominiums beyond normal market standards
- Minimum 60% energy savings targeted
- €40 million investment after 36 months

→ www.energiespositif.fr



European Commission

IEE Projects Database

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

CORDIS

Community Research and Development Information Service

http://cordis.europa.eu/home_en.html

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This slide features the European Commission logo at the top center. On the right side, there is a circular orange icon with white wavy lines. The main content is centered and includes the heading 'IEE Projects Database' followed by its URL. Below this is the heading 'CORDIS' followed by its full name and URL. At the bottom, the logos for the 'Executive Agency for SMEs' and 'EASME' are present.



EASME
Executive Agency for Small and Medium-sized Enterprises

Thank you for your attention

Philippe Moseley
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