



European
Commission

Accessing funding for energy efficiency measures in buildings



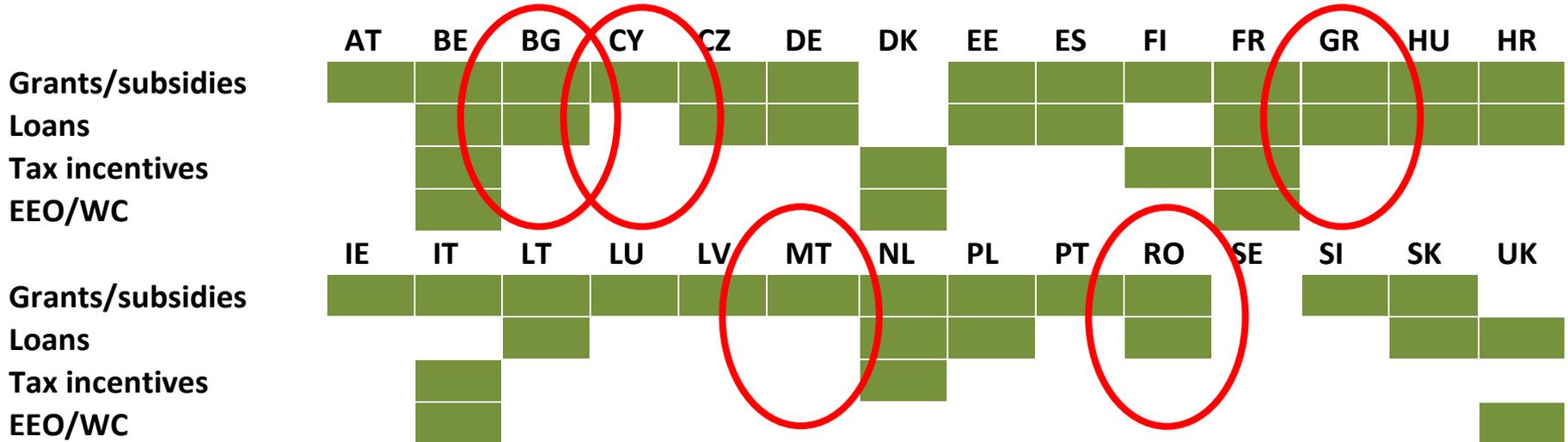
Energy

- Access to finance remains one of the most important obstacles for achieving energy efficiency in real life because of:
 - lack of private and especially public financial resources due to the financial crisis
 - high perceived risk of energy efficiency investments and lack of relevant expertise in banks and other financial institutions
 - lack of knowledge on the "bank-ability" of energy efficiency projects among beneficiaries

Energy savings potential across sectors in the EU could absorb investments of around € 850 billion (2011-2020)

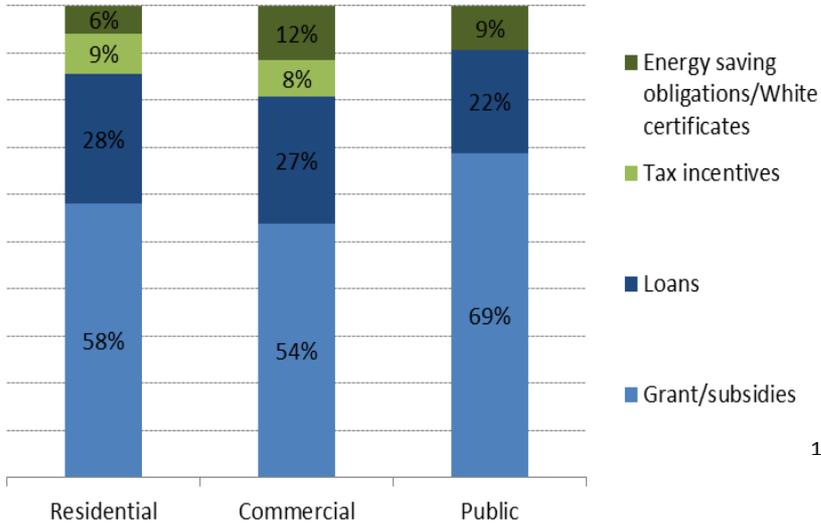
- **Around € 85 billion per year**
- **Buildings take lion's share of ~ € 60 billion per year**
- **There is a long list of barriers to energy efficiency, therefore active involvement of public authorities is unavoidable**

Main EU28 economic instruments in 2013 targeting energy renovations



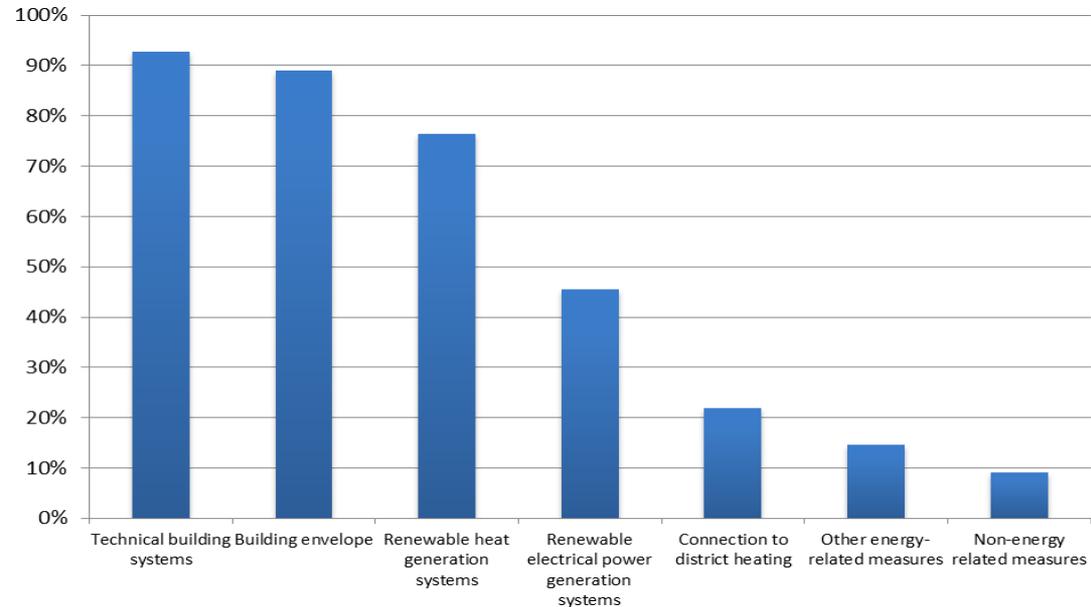
Shaded cells indicate that the economic instruments types operational in 2013 in each Member State

Support schemes in Member states



Share of EU28 economic instruments by instrument type for residential, commercial and public buildings

Types of eligible intervention measures offered by the EU28 economic instruments



EU financial support to energy efficiency till 2013

Cohesion policy funds (2007-2013):

- **5,1 billion € for energy efficiency (up to 8 billion € if all MS re-allocate 4% for housing improvements under the ERDF)**

Intelligent Energy Europe Programme (2007-2013):

- **735 million € for 'soft' energy efficiency/renewables projects**
- **Capacity building, awareness raising, best practices sharing**

ELENA Facility:

- **120 million € for technical assistance to mobilise investments**
- **To scale up projects and reduce transaction costs and support project development – EUR 2,5 billion expected**

European Energy Efficiency Fund (EEE-F):

- **265 million € for investments into mature, bankable efficiency/renewables projects**
- **20 million € for technical assistance**
- **Role model projects, leverage effect, EPC support...**

EU financial facilities today – energy efficiency at the centre of attention

Next Multi-Annual Financial Framework (2014-2020)

- **EU Cohesion funding to allocate around 23 billion € to energy efficiency and renewable energy (doubling current allocations)**
- **Horizon 2020: around 5,6 billion € is to be allocated to research and innovation in "*Secure, clean and efficient energy*" – incl. ELENA**

Financing the energy renovation of buildings with Cohesion Policy funding

- **What's in it for buildings?**
- **And how to access financing from the cohesion funds?**



TECHNICAL GUIDANCE

Financing the energy renovation of buildings
with Cohesion Policy funding

FINAL REPORT

A study prepared for the European Commission
DG Energy



[http://ec.europa.eu/energy/efficiency/studies/doc/2014_guidance_ener
gy_renovation_buildings.pdf](http://ec.europa.eu/energy/efficiency/studies/doc/2014_guidance_energy_renovation_buildings.pdf)

This technical guidance document:

- Aims to help Cohesion Policy Managing Authorities (MAs) plan and deploy investments in buildings within Operational Programmes (OPs)
- Provides a list of good practice approaches and case studies
- Informs MAs about the European requirements on buildings and energy efficiency
- Explores the different financing mechanisms that MAs can use to support projects with the aim of:
 - Launching large scale investments in the energy renovation of buildings
 - Attracting greater levels of private-sector investment



TECHNICAL GUIDANCE

Financing the energy renovation of buildings
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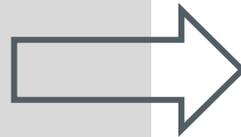
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- **R&D** (*prefabricated modules, historic buildings, new buildings beyond near zero energy, demand response, ICT measures, socio-economic research, etc.*)
- **Market uptake measures** (*capacity building, organizational innovation, consumer engagement, with more*)

- **Energy efficiency financing (incl. ELENA)**



Horizon 2020– Energy Efficiency - Financing

Key objectives



- Engage with the financial sector
- Increase flow of private funds into sustainable energy projects
- Build a pipeline of projects
 - Lighthouse projects which can be understood by financiers
 - Market-enablers (triggering replication)
- Build capacity for sustainable energy finance solutions in all sectors
- Roll out Energy Performance Contracting and other innovative financing schemes

€25 + €15 million available in 2014

ELENA Facility continues under the H2020!

Information on this slide is indicative - Only the Horizon 2020 call for proposals has a legal value

Horizon 2020– Energy Efficiency – Financing - Topics

- EE 19: Improving the finance-ability and attractiveness of sustainable energy investments
 1. Development of frameworks for the standardisation and benchmarking of investments
 2. Targeting public institutional investors (e.g. public or semi-public pension schemes)
 3. EU and national sustainable energy financing platforms (1 MS is eligible)

 - EE 20: Project development assistance (PDA)
 1. Public and private entities to develop lighthouse projects (1 legal entity per proposal is eligible)
 2. Focus on public & private buildings, retail energy market infrastructure, commercial & logistic properties and sites
 3. EUR 1 from the EU must lead to EUR 15 in investments

 - EE 21: innovative energy services and financial schemes for sustainable energy
 1. Roll-out of innovative energy efficiency services (e.g. EPC)
 2. Replication of successful innovative financing solutions and energy services
 3. Large-scale capacity building for public authorities and SMEs on innovative financing
- Call Deadline **5 June 2014**, €25 million available!
- No deadline for ELENA!

Support with EE implementation

**EPBD and EED
implementation
support**

- Committees
- Concerted Actions
- EED guidance

- CEN EPBD standards

BUILD UP
energy solutions
for better buildings



**Financial &
fiscal
instruments**

- Cohesion policy funds
- ELENA/PDA
- EEE-F

Possibilities for

- State Aid
- VAT reduced rates

- IEE programme
- Horizon 2020

**Networks
Expert fora**

EEFIG

**Smart Cities
and
Communities**

**Covenant
of Mayors**
Committed to local
sustainable energy

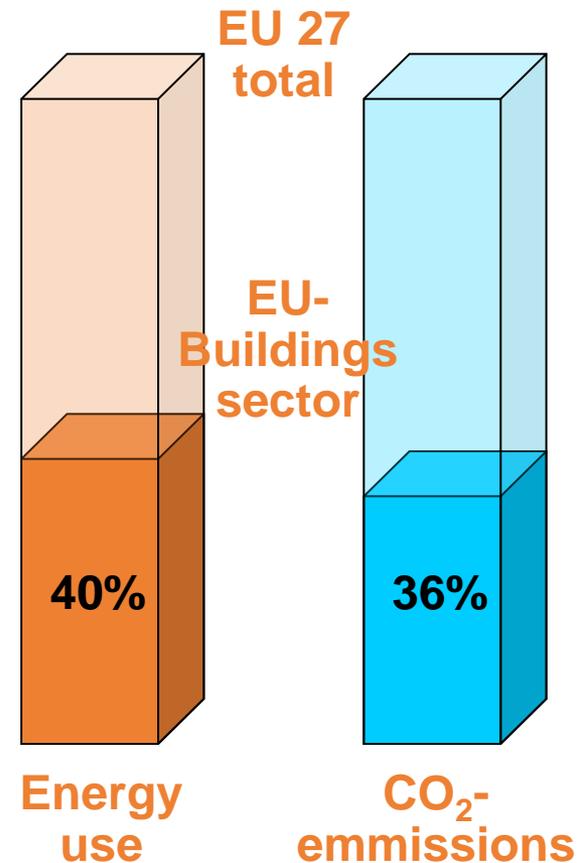
The legal framework of the EU energy efficiency policy



Energy Performance of Buildings

Recast Directive 2010/31/EU same principles as Directive 2002/91/EC:

- **Minimum energy performance requirements**
- **Energy Performance Certificates**
- **Inspection of heating and cooling systems**
- **Independency of experts**
- **Exemplary role of public sector**



EPBD - new in the recast

- Introduction of “nearly zero-energy buildings” by 2021/2019
- “Cost-optimal methodology”
- Extension of minimum requirements to ALL buildings but no obligation to renovate
- Strengthening of Energy Performance Certificates and Inspections
- Requirements for technical building systems at system level
- Voluntary EU certification scheme


Energiepass

Ausweis über die Gesamtenergieeffizienz eines Wohngebäudes 1/5

Passnummer P.20080102.1234.123.1.2	N. Aussteller XY/737315	Erstellt am 02/01/2008	Gültig bis 01/01/2018
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Energieeffizienzklasse
geringer Energiebedarf



C ENERGIE EFFIZIENZ KLASSE

hoher Energiebedarf

Wärmeschutzklasse

C

Energiesparhaus

Energieeffizienzklasse
Die Einstufung in die **Energieeffizienzklasse** erfolgt nach dem sogenannten **Primärenergiebedarf**. Dieser berücksichtigt neben dem **Wärmeschutz** des Gebäudes auch die verwendete **Anlagentechnik**, sowie die **Umweltverträglichkeit** der eingesetzten Energieträger in einer Gesamtbetrachtung.

Wärmeschutzklasse
Die Einstufung in die **Wärmeschutzklasse** erfolgt nach dem sogenannten **Heizwärmebedarf**. Dieser berücksichtigt die Qualität der verwendeten **Wärmedämmung** in Wänden, Dach, Boden und Fenstern, die **Bauweise** und **Bauausführung** (Dichtigkeit) und die **Orientierung**.

Klassen
Die Klasseneinteilung erfolgt von A (beste Klasse) bis I (schlechteste Klasse)
Passivhaus - alle Klassen ≤ A
Niedrigenergiehaus - alle Klassen ≤ B
Energiesparhaus - alle Klassen ≤ C

Angaben zum Gebäude	
Nutzungsart/Gebäudetyp	Wohnen EFH
Anzahl der Wohneinheiten	1
Nachweisart	Hülle (Bestand), Anlagen (Bestand)
Adresse (Strasse)	Rue du Soleil, 123
Adresse (PLZ-Ort/Stadt)	1234, Luxembourg
Baujahr Gebäude	2004
Baujahr Heizungsanlage	1996
Energiebezugsfläche	280,4 m ²
Aussteller	Eigentümer
Energie	Joséphine Eaux
Joséphine Eaux	321, rue de l'Énergie
123, rue de l'Économie	L-4321 Luxembourg
L-1234 Luxembourg	Tel. 87654321
Tel. 12345678	
Unterschrift Aussteller	Ort, Datum

Energy Efficiency Directive (EED) Directive 2012/27/EU - buildings

→ Building renovation

→ by 04/2014: MS to make **long-term strategies** for mobilizing investments

→ Exemplary role of the public sector

→ MS must **renovate 3% (by floor area)** of their **central government buildings** per year or adopt measures to achieve equivalent energy savings in these buildings, voluntary for lower administrative levels

→ Central government – **public procurement** limited to products, services and buildings with high energy efficiency performance

→ Energy efficiency obligation schemes

→ Energy audits

→ Accurate and frequent individual metering / billing

→ Energy Performance contracting