

Energy efficient Mortgages Action Plan (EeMAP)

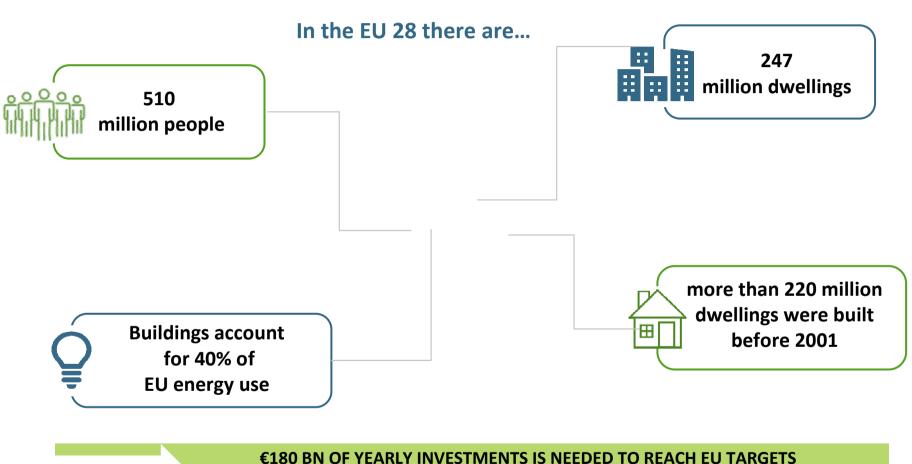
&

Energy efficiency Data Protocol and Portal (EeDaPP)





Bring Energy Efficiency to the EU buildings stock: Banks can Play a Game Changing Role



A significant share of it must come from the private sector



Underlying Business Case: Key Drivers for Banks



BETTER RISK PROFILE

- leads to a reduction in the impact of energy costs to income = reducing borrowers' probability of default (PD)
- Lower PD and LGD entails lower RWA and reduced capital charges



ENHANCED PROPERTY VALUE

- impacts positively on property value ensuring wealth conservation & loss mitigation against energy transition risks
- Better value leads to lower LGD and better Loan to Value (LTV) ratio



Efficiency and sustainability:

key features to **incentivise** energy efficiency **investments** AND **financing**



POSITIVE MARKET RESPONSE

CONSUMERS

- Responding to the increasing demand for green investments
- Increase customer retention and enhanced borrower relationship

SITTUE WARKET KEST CITSE

INVESTORS

- New business opportunities and diversified financing options
- Broader Investor base
- Lower funding costs



Underlying Business Case: Key Drivers for Customers



HOME IMPROVEMENT

Getting extended advice and turnkey solutions for home improvements



A wide variety of different **aspects drive appeal** (and consumers agree the benefits would be realised)



FINANCE

- Getting a lower mortgage interest rate
- Saving money in the long term



ENERGY

- Bringing down the cost of bill energy
- Make your home warmer and more comfortable



PROPERTY

- Increasing value of property
- Make it easier to sell the property



- Reducing your carbon footprint
- Signalling "I am green"



The Energy Efficient Mortgages Initiative

The Energy Efficient Mortgages (EEM) Initiative is a pan-European private bank financing mechanism that aims to stimulate and finance investment in energy efficient buildings, energy saving renovations in order to secure a greener and more sustainable future for all.



➤It is the concrete and tangible market response to the Action Plan on Sustainable Finance adopted by the European Commission.

Its ultimate objective is delivering a **standardised European framework** and **data collection** architecture for energy efficient mortgages.

The EEM Initiative consists of two EU funded projects under the H2020 Programme:

- ■The Energy Efficient Mortgages Action Plan (EeMAP) Initiative
- ■The Energy Efficiency Data Portal & Protocol (EeDaPP) Initiative







Energy Efficient Mortgages Pilot Scheme

Milestone

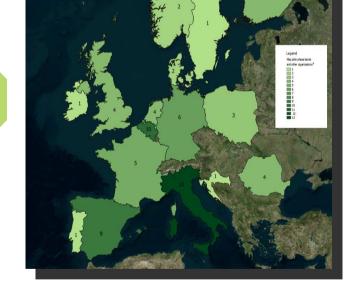
In June 2018, after engaging in a market consultation period, including a series of national roundtable events with banks, building energy performance experts, property valuers and utilities, the EEM Initiative launched the:

Energy Efficient Mortgages Pilot scheme

Composed of:

- Lending Institutions: committed to testing the implementation of the final energy efficient mortgages framework into their existing product lines and processes
- Supporting organisations: committed to provide technical support and energy efficiency expertise
- Advisory Council: committed to facilitate dialogue between policymakers and stakeholders from the financing and banking communities property and construction sectors at local, European and global levels

Mandate



Structured in

- □ National Market Hubs: to achieve coordination at national level and ensure market consensus and implementation.
- ☐ Workstreams:
 - 1. Product
 - 2. Data
 - 3. Partnerships

Source: Energy Efficient Mortgages Initiative



Energy Efficient Mortgages Pilot Scheme: Achievements

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PRODUCT

DATA

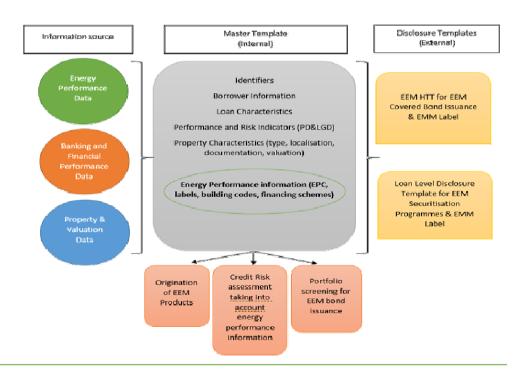
EEM Definition

☐ In December 2018, a common **definition of energy efficient mortgage** was announced:

EEMs are intended to finance the purchase/construction and/or renovation of both residential (single family & multifamily) and commercial buildings where there is evidence of: (1) energy performance which meets or exceeds relevant market best practice standards in line with current EU legislative requirements and/or (2) an improvement in energy performance of at least 30%.

https://eemap.energyefficientmortgages.eu/eem-definition/

EeDaPP Master Template





Energy Efficient Mortgages Pilot Scheme: Achievements

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PARTNERSHIP

- Advisory Council solutions and institutional support
- EIB / EeMAP Financing Scheme

2019

Expand MBIL eligibility to private individuals & household associations

Funded and Delinked MBILs/Guarantees to support FI originate EE loans as new asset class Provide Technical
Assistance to FI and
promoters to develop
standardised processes
to ensure Energy
Performance Certificates
(EPC) per unit refurbished

2020-2021

Once green mortgage portfolios are built, EIB Group may purchase or guarantee related Green Covered Bonds/RMBS

Source: EIB



EEM for all! Policy and Market Recommendations

Stage	Lending Institutions	Government	Industry
Asset screening	Match loan portfolio to EE (e.g. by using EPC data)	Make EPC database accessible to banks Improve data quality in EPCs	Work with lenders to ensure high quality EPCs Certifications can be mapped to loans
Origination of EEMs for new build	Offer green mortgages to new builds that meet EEM criteria	Enforcements and guidelines on NZEB standards	Partner with lenders to develop new builds which meet EEM criteria
Origination of EEMs for renovation	Advise clients on options, benefits and different sources of finance	Develop quality assurance schemes; building renovation roadmaps; incentives to drive demand	Partner with lenders to streamline delivery for consumers
Energy Efficiency Bonds	Issue energy efficiency bonds against EEMs	Green Bond standards Disclosure rules	Performance/compliance monitoring
EEMs for all	Fully account for EE in affordability checks	Energy efficiency/sustainability in prudential requirements	Offer training to banks/brokers



EEM for all! Market Development Roadmap

- National best practices and thresholds
- Mapping and risk weighting of existing assets

Asset
Screening

Origination of EEMs
for new build

EEMs
for all

Energy Efficiency Bonds

- Mobilising investor base
- Build EE asset pools

- Learning curve and delivery partnerships performance
- Performance Monitoring
- Integrating EE in valuation

Origination of EEMs

for renovation







Energy Efficient Mortgages Market Implementation Plan

☐ Market Implementation:



 $oldsymbol{\square}$ Building on the success of the ECBC Covered Bond Label



EEM Label







■ Market Best Practices - Technical Reports

Since its launch, the EEMI has produced many publications and technical reports containing valuable and insightful information on a various range of topics related to energy efficiency, such as:

- -Technical report on existing green reporting criteria
- -Technical report on market needs and gaps

For additional information > www.energyefficientmortgages.eu

☐ Events, media and newsletter

Throughout the years, the EEMI has organised several events to raise awareness:

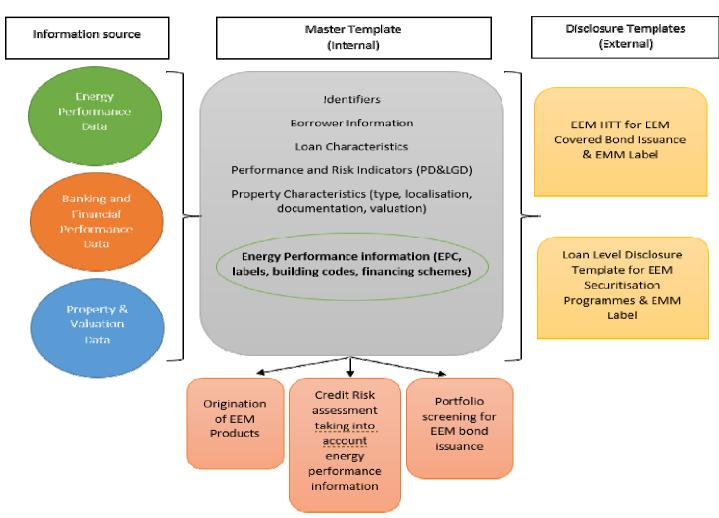
- ☐ Early Pilot Banks Meeting in Venice
- ☐Green/EEM day at ECBC Plenary meeting
- □ National Hubs Meetings
- ☐ Institutional meetings



APPENDIX

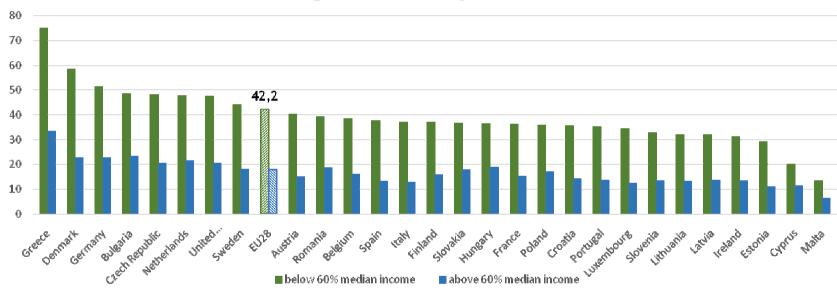


EEMI – EeDaPP Master Template and EEM Label





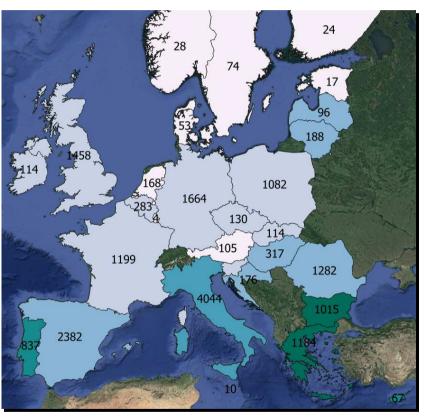
Housing cost as % of disposable income



Source: Eurostat – 2017 EU-SILC survey

☐ Around 42% of disposable income of poorer households (below 60% of median income) is spent on housing costs





Source: Eurostat EU-SILC survey 2017 *according to the Survey definition

- □ 21% of EU population that earns 60% or less than median income in their respective countries, over **18 million people**, live in a household which they cannot adequately heat
- ☐ This issue has different degrees of relevance according to country

Legend

percentage of population below 60% median income

unable to a dequately heat their dwelling*

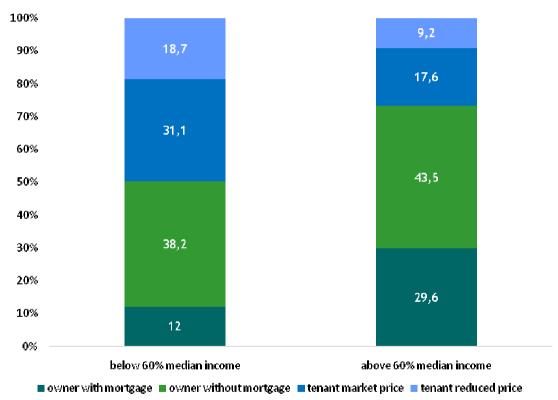
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- 10 21
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- 31 41
- 41 52
- 52 62

The label shows the number of citizens(in thousands) affected









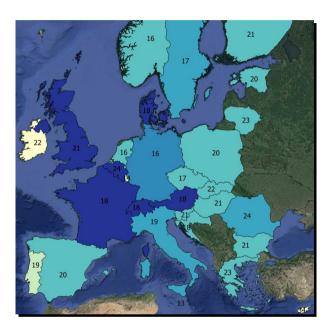
reflected by their income group

☐ In EU breakdown of how citizens live is

- □ Poorer part of population in Europe (around 86 million people earn less than 60% of their respective Member States' median income) typically live as tenants
- ☐ These individuals are also more than two times less likely to have a mortgage than the rest of the population

Source: Eurostat – 2016 figures





Legend

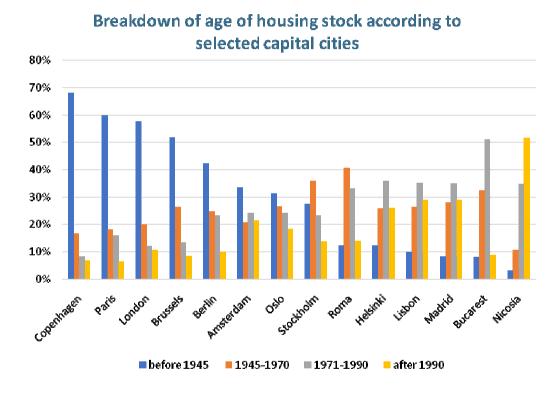
House age - most represented decade of construction



after 2000

before 1919

Label shows the percentage of dwellings built in the given period





EPC Label	Energy Consumption (kWh/m²/y)	Energy Costs* (€/year)	Energy Savings from class G (€/year)	Additional Market Value from Class G (€)
А	55	600€	3.050 €	64.000€
В	81	850€	2.800 €	58.000€
С	117	1.250€	2.400 €	50.000€
D	167	1.800€	1.850€	38.000€
E	217	2.400 €	1.250 €	27.000€
F	274	3.000€	650€	14.000€
G	335	3.650€	- €	- €

- Source Copenhagen Economics (2016)
- average energy price of 0,10€ per kWh and considering a 100m² house



























For additional information on the Energy Efficient Mortgages Initiative

- Visit: http://www.energyefficientmortgages.eu/
- Contact: **Luca Bertalot** - Secretary General of the EMF-ECBC lbertalot@hypo.org

