



# LIFE info days 2023

## Energy policy update

Fit-for-55 and REPowerEU

EED – RED – EPBD

REPowerEU

Market Reform

Net-Zero Industry

Digitalisation

26 April 2023

Pierluca Merola, Policy Officer, Energy Efficiency Unit - ENER.B2

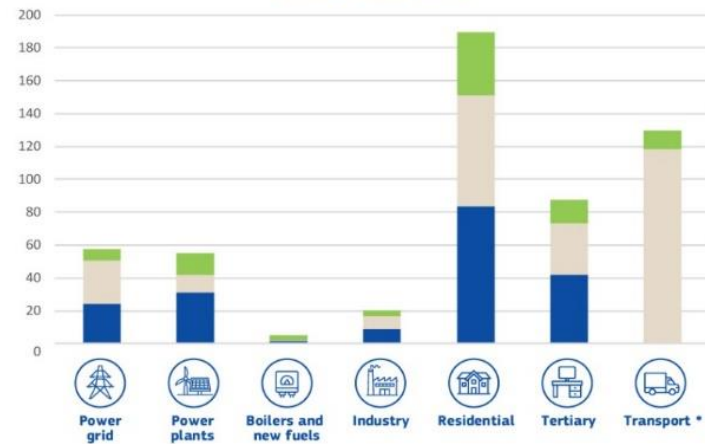
# Political context - EGD

## Climate Target Plan

- Published in September 2020
- Underpinning **European Climate Law** and its **binding objective** of reducing **55% GHG emission** by 2030

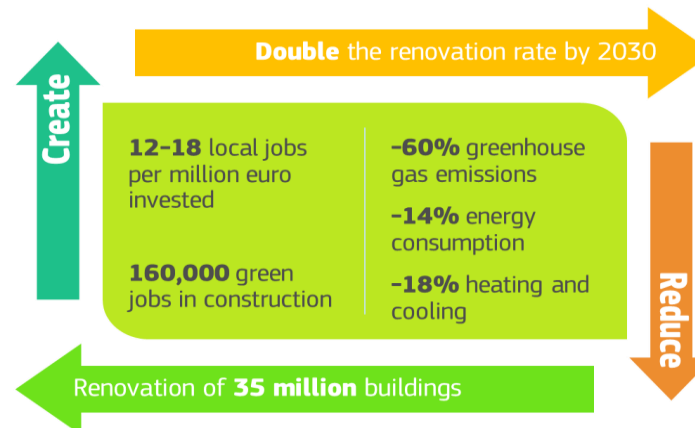
● Additional to achieve -55% greenhouse gas reductions, 2021-2030  
● Additional under current 2030 policies in 2021-2030 compared to 2011-2020  
● Historic annual investments in the energy system 2011-2020

Average annual investment 2011-2020 and additional investment 2021-30 under existing policies and to achieve -55% greenhouse gas emission reductions (in billion EUR 2015)



## Renovation Wave

- Published in September 2021
- Objective: (1) **double building renovation rates** in next 10 years, (2) **increase energy and resource efficiency** of building renovations



## Fit for 55

Legislative revision package implementing the European Green Deal, proposed by the Commission on 2021



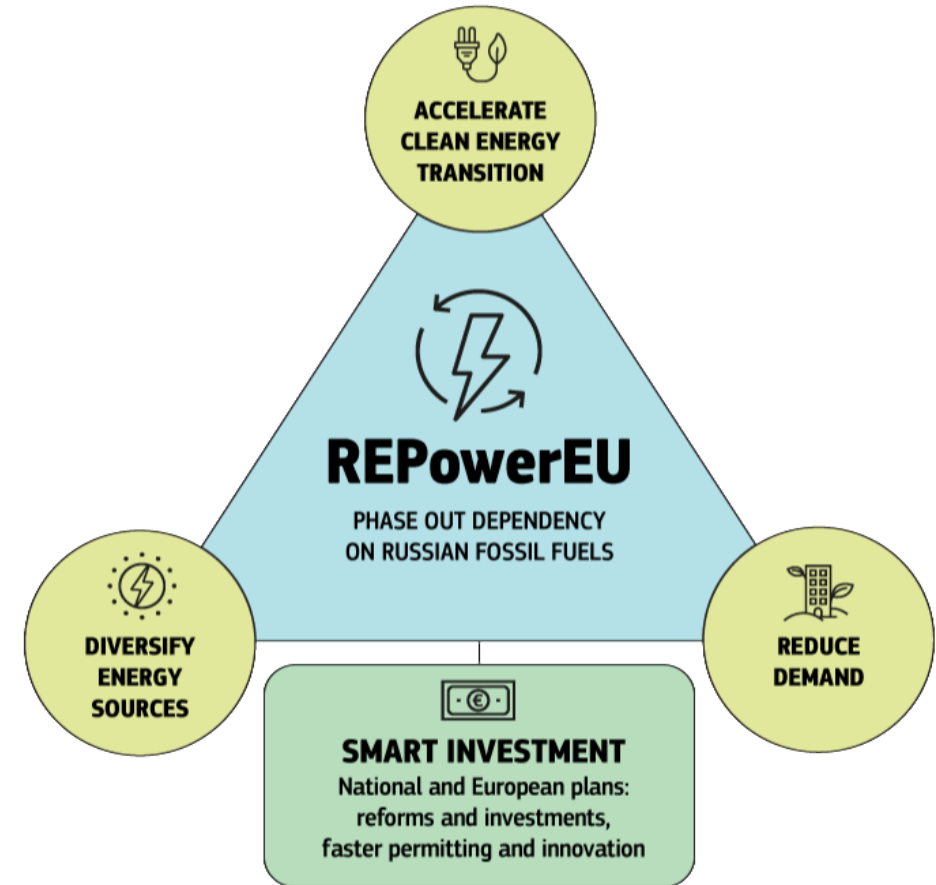
# REPowerEU: from goals to actions

## Independence from Russian fossil fuels by 2027

- Increase imports of **liquefied natural gas** (LNG) by 50 bcm
- Increase **pipeline gas** imports by 10 bcm
- Increase **biomethane** production by 3.5 bcm
- EU-wide **energy saving** to cut gas demand by 14 bcm
- **Rooftop solar** to reduce gas demand by 2.5 bcm
- **Heat pumps** to reduce gas demand by 1.5 bcm
- Reduce gas demand in the power sector by 20 bcm by deployment of **wind and solar**

Increase the target of renewable energy from 40% to **45%** by 2030

Increase the target of energy savings from 9% to **13%** by 2030

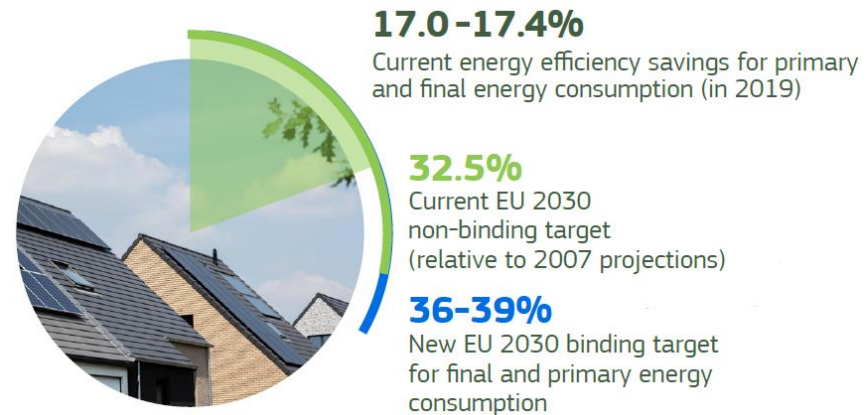


### Complemented by:

- [EU Save Energy Communication](#)
- [EU Solar Energy Strategy](#)

# Revising the Energy Efficiency Directive

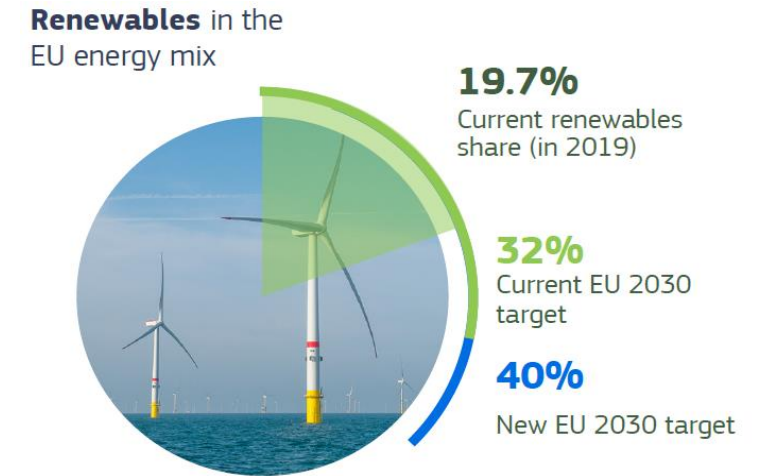
- Updated **EU energy efficiency targets to 11.7% reduction** (9% in FF55 and 13% in REPowerEU proposals) in primary and final energy consumption
- Strengthen annual **national energy saving obligations to 1,49% in average with step-wise approach** and exclusion of savings from direct fossil fuels combustion
- Reinforcement of the **Energy Efficiency First Principle** across sectors
- Update the definition of **energy efficient district heating and cooling**, introducing the **2050 trajectory for efficient district heating and cooling system**, and introduce **local heating and cooling plans** for municipalities (over 50.000).
- Update **thresholds for energy audits (10TJ/year)** and **energy management system requirements (85TJ/year)** for enterprises
- Increase the **exemplary role from the public sector: annual reduction of 1.9% of public sector energy consumptions**, increase the annual renovation rates to 3% of the public buildings over 250 m<sup>2</sup>.
- Reinforces **provisions on financing** to leverage further private capitals
- Introducing measures to alleviate **energy poverty and boost consumer empowerment**





# Revising the Renewable Energy Directive

- Increase **RES target by 2030 to 42.5%** (40% in FF55 and 45% in REPowerEU proposals) with additional indicative 2.5% share and a new indicative target of 5% for innovative technologies.
- Increased **renewables ambition in key sectors**: **heating and cooling** (mandatory annual increase of 1.1% RES share), **transport** (GHG reduction or RES share), **industry** (indicative 1.6% annual targetshare and binding 42% 2030 target of renewable hydrogen), **buildings** (indicative 49% target by 2030).
- Complementing REPowerEU targeted amendment on accelerating **RES permitting, overriding public interest and 'go to areas'**
- Boosting the deployment of and the investment in renewable energy, including **small-scale RES in buildings and local renewable energy communities**.
- **Sustainable bioenergy reinforced criteria** in line with the EU Biodiversity Strategy, **ensuring application to also smaller scale installations** (7.5MW) and that forest biomass is not sourced from relevant biodiversity and carbon stock areas.
- Measures to foster Energy System Integration via electrification and increase uptake of **RES in centralised district heating and cooling systems** via waste heat uptake.



# Revision of the Energy Performance of Buildings Directive - Focus areas

**Twofold objective:** → Contribute to **reducing buildings' GHG emissions and final energy consumptions by 2030**

→ Provide a long-term vision for buildings and ensure an adequate contribution to achieving **climate neutrality in 2050**

## ***Renovation***

- Minimum Energy Performance Standards
- Energy Performance Certificates
- National Building Renovation Plans and renovation passports for individual buildings

## ***Decarbonisation***

- Introduction of zero-emission buildings as new standard for new buildings
- Consideration of whole life cycle carbon
- Phasing out incentives for fossil fuels and new legal basis for national bans

## ***Financing***

- Sustainable finance and energy poverty alleviation
- Energy Performance Certificates database
- Deep renovation standard
- Renovation passports for individual buildings

## ***Modernisation & system integration***

- Infrastructure for sustainable mobility
- Smart Readiness Indicator
- Indoor air quality: ventilation and other technical building systems

# Other key-initiative

## Revision Electricity Market Design

- Accelerate/accommodate further renewables and phase-out fossil fuels
- Better protect consumer from price volatility and enhance their participation

[Link](#)

## Digitalising the energy system

- Support digital tools and services to help consumers and enterprises monitor their energy consumption and further energy system integration
- Monitor energy consumption and increase energy system integration of ICT sector;

[Link](#)

## Net-Zero Industry Act and Green Deal Industrial Plan

- Scale up manufacturing of clean energy technologies in the EU
- Facilitate access to market and enhance skills for clean energy transition

[Link](#)

## Sustainable Finance and unlocking private financing

- Enable the framework to develop innovative financing solutions and financial products for investment in sustainable energy
- Mainstream sustainable energy investments in the financial sector and support EU Taxonomy alignment

# Thank you

*Pierluca Merola, Policy Officer, Energy Efficiency Unit - ENER.B2*





# LIFE Clean Energy Transition CET

Anette Jahn, Maria Laguna  
CINEA – LIFE Climate & Energy Unit

*EU LIFE info day 26 April 2023*

# The LIFE Programme 2021-2027

## Objectives:

To contribute to the shift to a circular, energy-efficient, renewable energy based- and climate resilient economy

To protect and improve the quality of the environment

To halt and reverse biodiversity loss



**Nature and Biodiversity**



**Circular Economy and Quality of Life**



**Climate Change Mitigation and Adaptation**



**Clean Energy Transition**

## Supported activities:

- Promote best practices and behavioral changes
- Catalyse the large scale deployment of successful solutions

### On legislation and policies

- Support their development, monitoring and enforcement
- Help Member States to improve their implementation

### Enabling actions for energy efficiency and renewable energy policy

removing market barriers, mobilising investments, improving skills, raising awareness, educating, empowering

# The sub-programme Clean Energy Transition



- Key programme for EU clean energy policy implementation and fill the **gaps** between energy efficiency and renewables policy development and implementation
- Predecessor programmes: Intelligent Energy Europe and Horizon 2020 Energy Efficiency
- 2021-2027 budget of almost €1 bn, **about 100m EUR/annually for grants** through LIFE CET Call for Proposals

# H2020 Energy Efficiency... LIFE Clean Energy Transition

- Break market barriers, change market and regulatory fundamentals
- Improve governance and capacities/skills at all levels
- Mobilise investment and improve access to finance
- Innovative approaches to support directly the uptake and implementation of EU legislation, targets and initiatives, with real impact on the ground

Fit for 55

The European Green Deal

(...)

Energy Efficiency First

Renovation Wave

Revision of targets

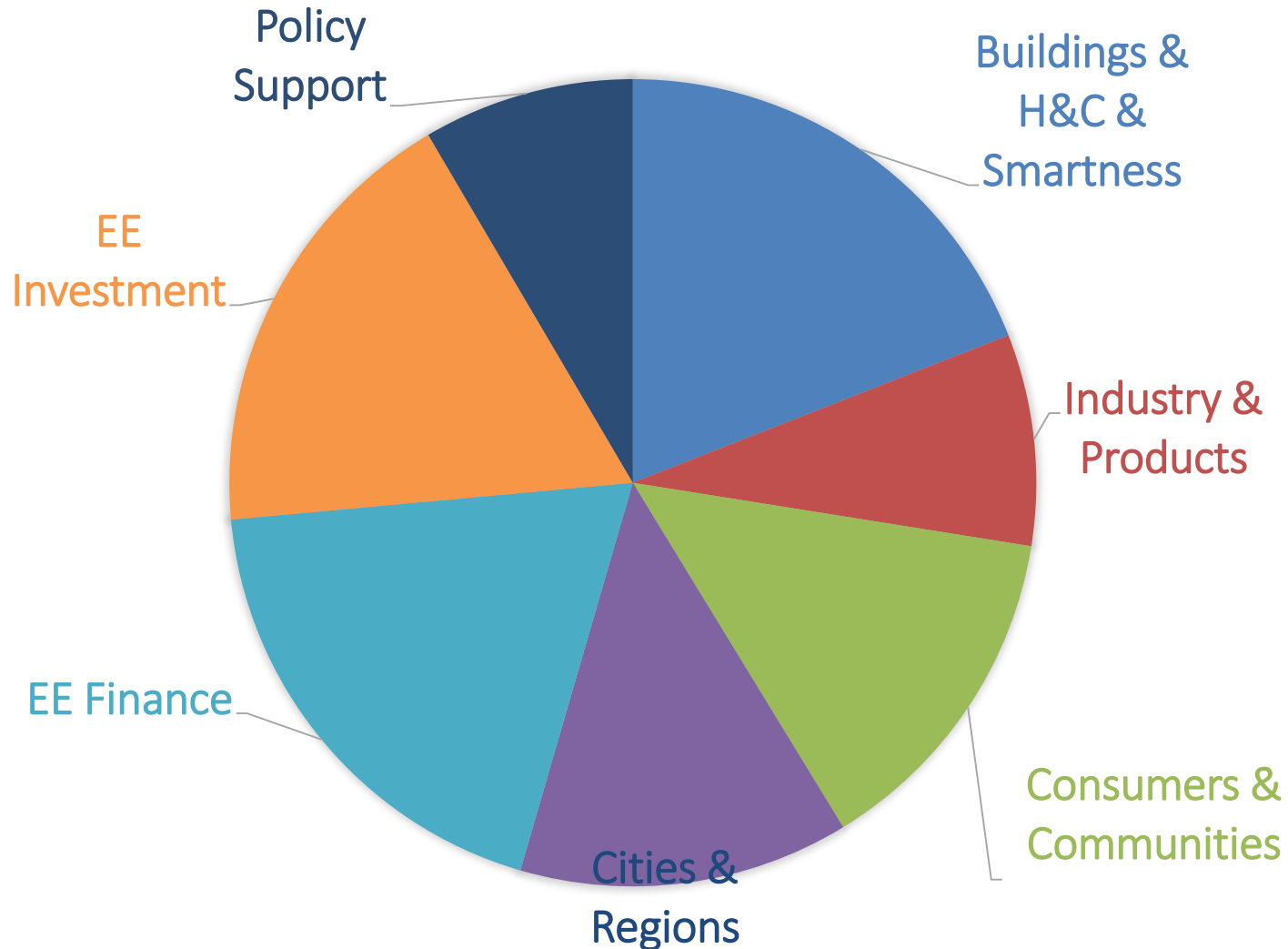
Finance the transition

Recovery Plans

RepowerEU

# H2020 and LIFE Clean Energy Transition projects – implement projects with impacts

(280+ ongoing projects, status March 2023)

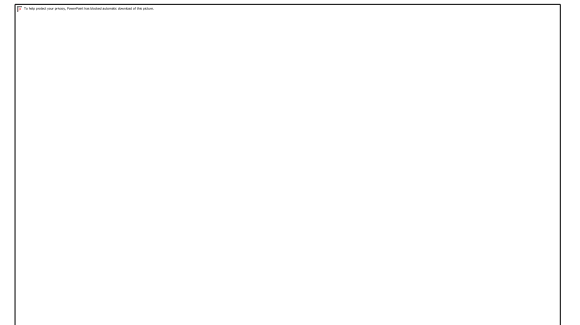
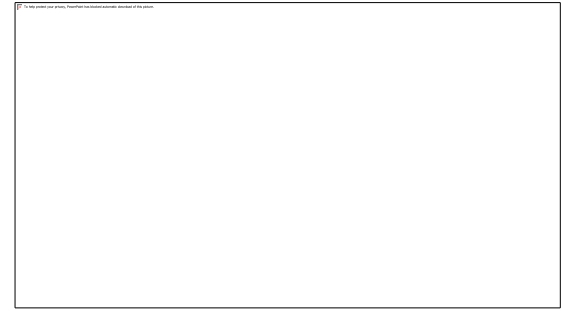


Implement projects with impacts such as

- **Decarbonisation of building stock:** e.g. number of deep renovations with reduced costs or number of buildings equipped with a renovation passport
- **Home renovation:** Design and operate innovative one-stop-shops for home renovation
- **Consumers:** Set up of innovative support schemes for energy communities
- **Finance:** Launch new green finance products for home-owners

# LIFE CET - support for key legislation & initiatives

- **Member States Concerted Actions** for Renewable Directive, Energy Efficiency Directive, Building Directive, Product Legislation, Defence Forum
- **Strategic tenders and initiatives** e.g. European Sustainable Energy Week (EUSEW), Building Stock Observatory, Sustainable Energy Investment Forum, ManagEnergy, Build up Portal, European City Facility
- **Policy support actions** e.g. Multiple benefits, Energy efficiency First principle, ODYSEE MURE, the comprehensive monitoring of efficiency trends and policy evaluation in EU countries





# LIFE-CET Intervention areas

(LIFE Multi-annual work programme)

1. Building a national, regional and local policy framework
2. Accelerating technology roll-out, digitalisation, new services and business models and enhancement of the related professional skills
3. Attracting private financing for sustainable energy
4. Supporting the mobilization of investment for local and regional projects
5. Involving and empowering citizens in the clean energy transition
6. Translate into:
  - **funding topics for grants**, e.g. 2023 Call: 13 funding topics, 99 mio EUR, 60+ projects expected under this Call
  - and **Strategic tenders** in key policy areas

# LIFE CET – Call 2023 Funding topics (I)

## Citizens in the clean energy transition

- Supporting European households to alleviate energy poverty and vulnerability
- European Energy Communities Facility

## Decarbonisation of buildings and H&C

- Energy Performance of Buildings
- District heating and cooling: investment plans and skills
- Boosting heat pump deployment: alternative models and skilled installers

## Building skills and capacity of industry and the service sector

- BUILD UP Skills – Upskilling and reskilling
- Supporting the clean energy transition of European businesses

# LIFE CET – Call 2023 Funding topics (II)

## Building a national, regional and local policy framework supporting the clean energy transition

- Cites and regions: Technical support to clean energy transition plans and strategies in municipalities and regions
- Effective implementation of key legislation in the field of sustainable energy
- Maximising use of and valorising EPREL data

## Facilitating investment projects at local and regional level

- One-Stop-Shops - Integrated services for buildings and businesses
- Project Development Assistance

## Attracting private finance for sustainable energy

- Crowding in private finance: Mainstreaming and Innovative financing schemes

# LIFE CET to build capacity: #Decarbonising Urban Heating and Cooling

- DecarbCityPipes2050: 7 cities target **phasing out of natural gas in buildings** by 2035-2050
- Structural change: **planning must start now** with engagement of all local actors
- **Highly evidenced Heating and Cooling plans** developed based on proper **guidance for cities**
- **Full transition roadmaps** including measures, policies, timelines, finance, responsibilities & real **success-narratives from city to city**

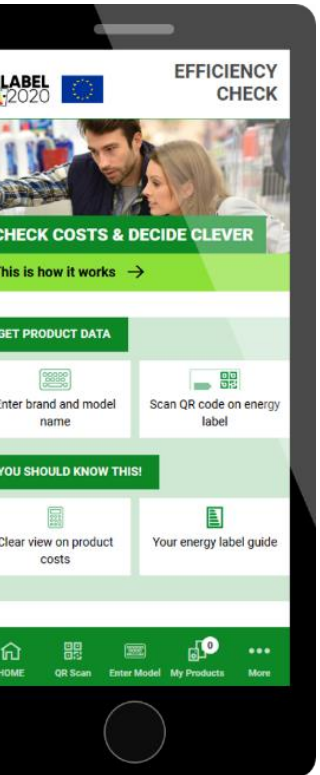


# LIFE CET to accelerate investments: #one-stop-shops for residential building renovation

- SHEERenov: Development and piloting of a **one-stop-shop assistance model** for energy renovation of multi-family buildings in Sofia, Bulgaria
- **Transition** from an entirely publicly financed and managed process **to a market-based financing model**
- Mobilization of 8 districts of Sofia and preparation of a **pilot pipeline of multi-family buildings** ready for energy renovation
- Inclusion of the SHEERenov model in the National Recovery and Resilience Plan

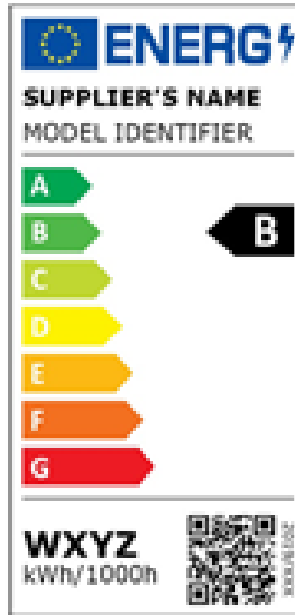
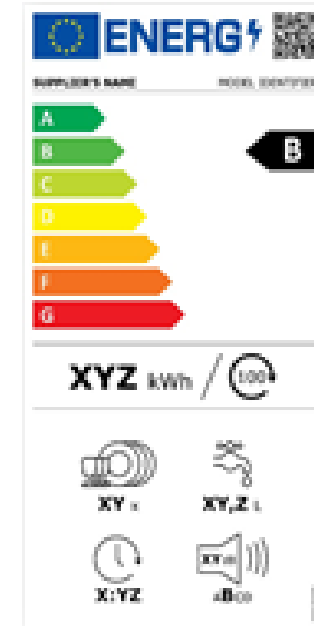


# LIFE CET to help implement EU policy: #EU Product Policy and Ecodesign



## LABEL2020 & BELT

- Supporting the transition of the **new EU energy label** in 19 countries
- **Reference knowledge hub:** Extensive communication and training campaigns for market actors
- **24,5 million consumers influenced in their decision, >15.000 retail employees trained**, 830 GWh/year savings
- Directly supporting the Energy Labelling Regulation





# STEP

## Solutions to Tackle Energy Poverty

- Bring together **consumer and frontline organisations to set up referral networks** of advisors - support energy poor consumers in 9 countries
- **Train frontline workers and deliver on- and offline advice to consumers** (e.g. online training modules, local Energy Support Offices, home energy audits)
- **Identify best practices and policy choices** to alleviate energy poverty and promote their replication across EU
- Institutionalise energy efficiency advice in sustainable consumer networks

[STEP project - Solutions to Tackle Energy Poverty \(stepenergy.eu\)](http://stepenergy.eu)



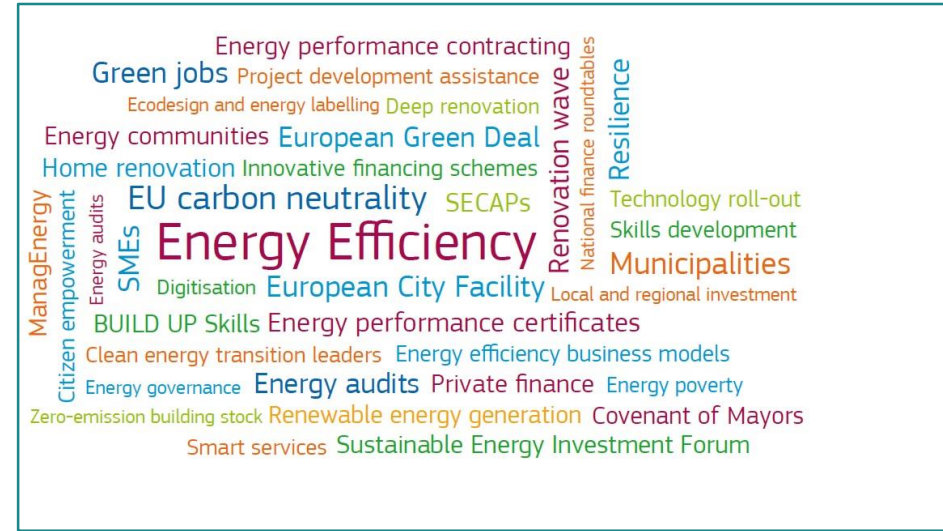
Covers some of the countries with the highest rates of energy poverty in Europe (BG, CY, CZ, LV, LT, PL, PT, SK and UK)

15.000 energy poor consumer involved

9 longer term support schemes established

# LIFE CET Call 2023

- Publication: **11<sup>th</sup> May 2023**
- Deadline: **16<sup>th</sup> November 2023**
- **+/- 100 mEUR** available for +/- 60 grants
- policy-driven funding topics with **detailed guidance**
- Most funding topics: **minimum of 3 (eligible) entities from 3 different eligible countries** (average number of partners is higher)
- **95% co-funding rate**
- Apply electronically via the EC's [Funding & Tender opportunities portal](#)



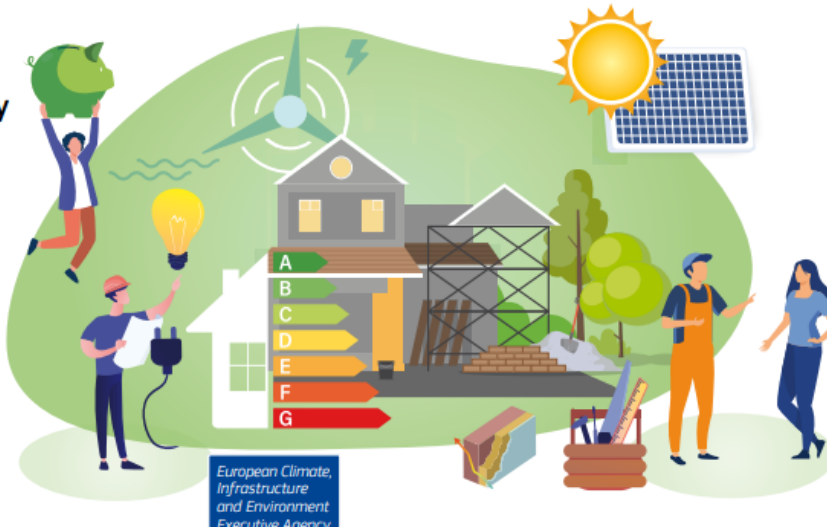
# EU LIFE CET Info Day



European  
Commission

## *Life* clean energy transition sub-programme

Supporting the delivery  
of the European Green  
Deal and sustainable  
energy policies



See you on 1 June!  
Further information [here](https://cinea.ec.europa.eu/life_en)  
[https://cinea.ec.europa.eu/life\\_en](https://cinea.ec.europa.eu/life_en)



30 years of bringing green ideas to LIFE

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# Thank you



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