



Das LIFE Clean Energy Transition Teilprogramm

Martin Eibl

Programme Coordination Manager

CINEA – LIFE Climate & Energy Unit

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CINEA

European Climate, Infrastructure and Environment Executive Agency



**CONNECTING
EUROPE
FACILITY 2
Transport and
Energy**

**INNOVATION
FUND**

**HORIZON
EUROPE
Climate, Energy
and Mobility**

**RENEWABLE
ENERGY
FINANCING
MECHANISM**

**JUST
TRANSITION
MECHANISM**
*Public Sector
Loan
Facility pillar*

**LIFE
PROGRAMME**

**EUROPEAN
MARITIME
FISHERIES
AND
AQUACULTURE
FUND**



Delivering on the European Green Deal and Fit for 55

LIFE CET im Kontext von EU Energie- und Klimazielvorgaben

European Commission – DG ENER
Energy Efficiency unit
Margot Pinault

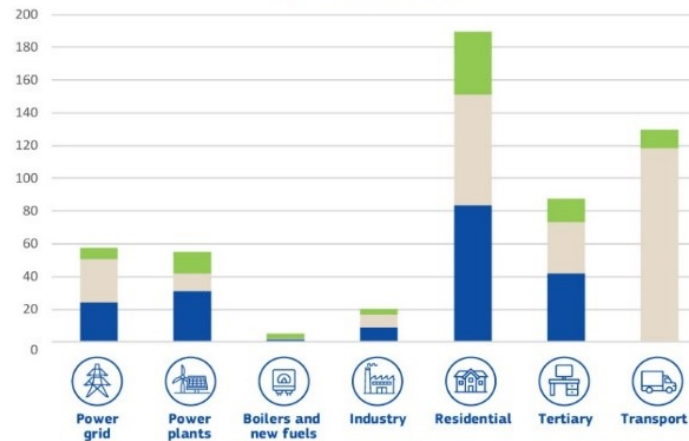
Political context - EGD

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)



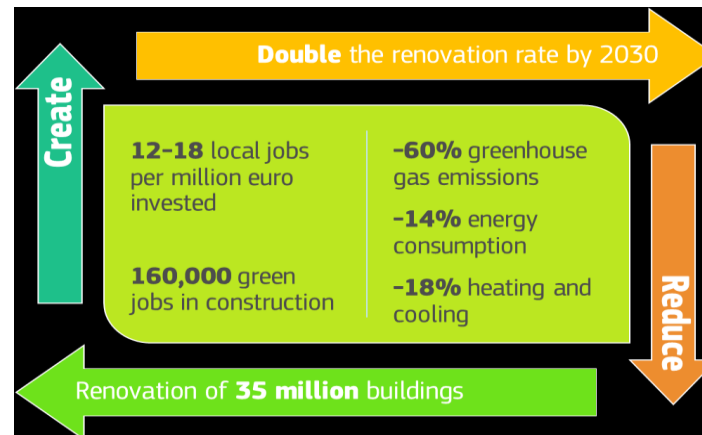
Fit for 55

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



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



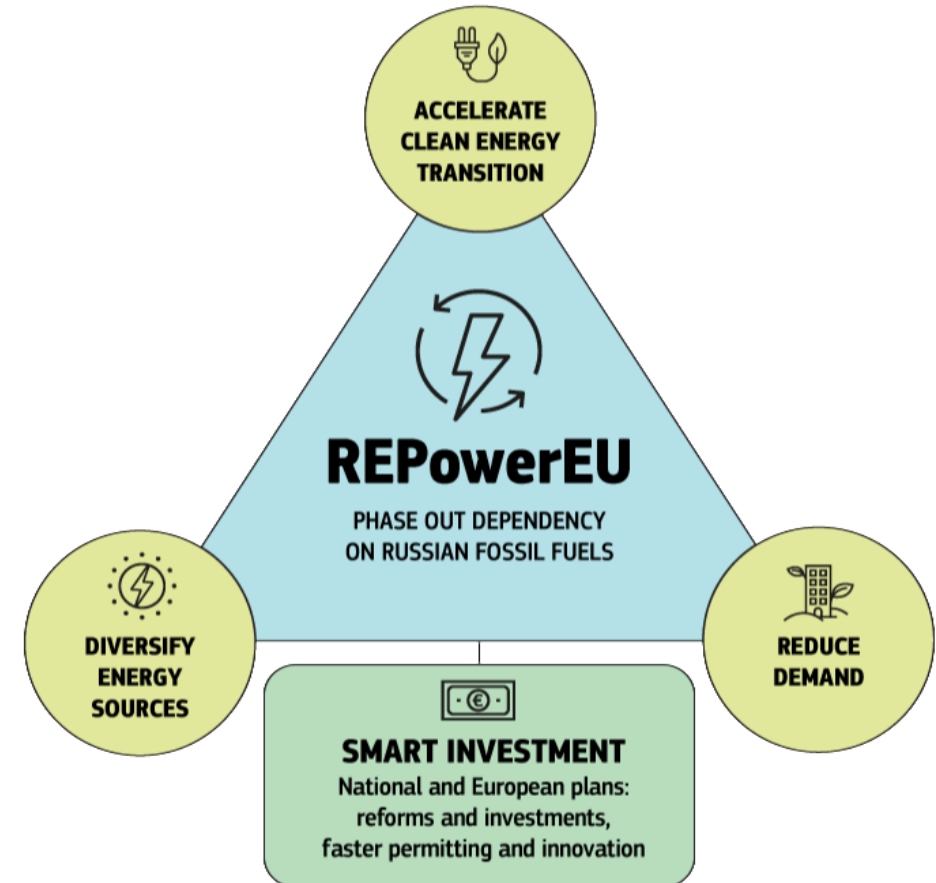
REPowerEU: from goals to actions

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](#)

Energy Efficiency Directive (EU) 2023/1791

- Updated **EU energy efficiency targets to 11.7% reduction** in primary and final energy consumption: indicative **PEC target of 992.5 Mtoe**, binding **FEC target of 763 Mtoe**
- Strengthen annual **national energy saving obligations to 1,49% in average with step-wise approach** and exclusion of savings from direct fossil fuels combustion. Including a **Just transition sub-target**
- 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 m².
- Reinforces **provisions on financing** to leverage further private capitals
- Introducing measures to alleviate **energy poverty and boost consumer empowerment**



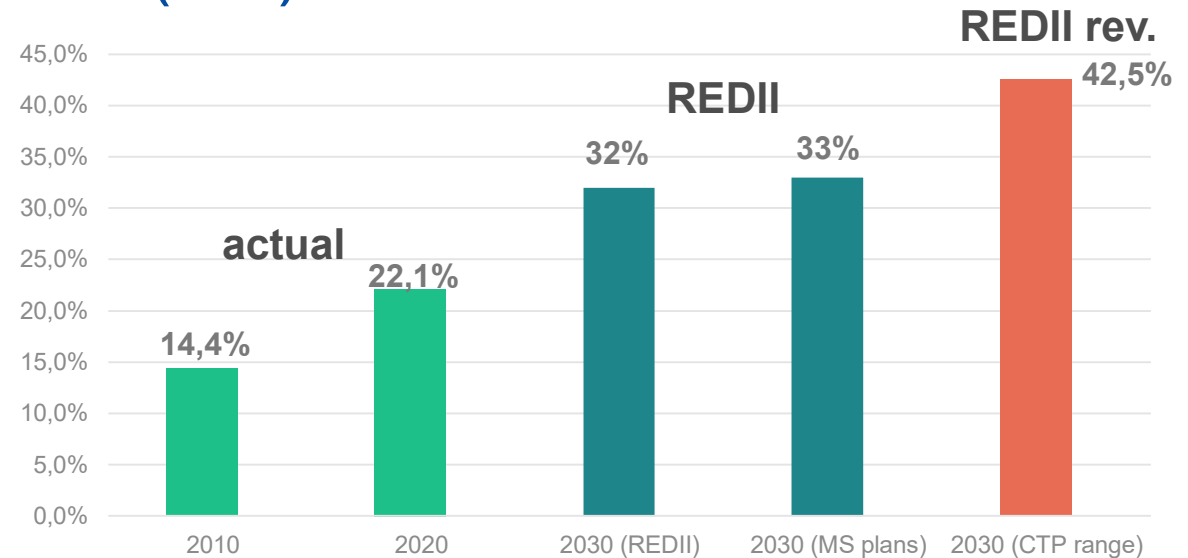
11.7%
Decrease
in energy
consumption

Stepwise increase
in annual
cumulative energy
savings
obligation in end
use:

1.3% as of 2024
1.5% as of 2026
1.9% as of 2028

Renewable Energy Directive (EU) 2023/2413

- Increase **RES target by 2030 to 42.5%**
- Increased **renewables ambition in key sectors: heating and cooling** (mandatory annual increase of 1.1% RES share), **transport** (reduction of GHG intensity), **industry** (1.6% annual increase), **buildings** (49% indicative share)
- 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 small 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 heat and waste heat in centralised district heating and cooling systems** via waste heat uptake, including indicative target for RES share in DHC networks.



Energy Performance of Buildings Directive Recast adopted 12/04/2024

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
- National trajectories for the progressive renovation of the residential building stock
- National Building Renovation Plans

Enabling framework

- Strengthened Energy Performance Certificates
- Renovation passports
- Sustainable finance & energy poverty
- One-stop-shops
- Deep renovation standard
- National energy performance databases

Decarbonisation

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

Modernisation & system integration

- Infrastructure for sustainable mobility
- Smart Readiness Indicator
- Indoor air quality: ventilation and other technical building systems
- Digitisation, data access and exchange

The Energy Efficiency Financing Challenge

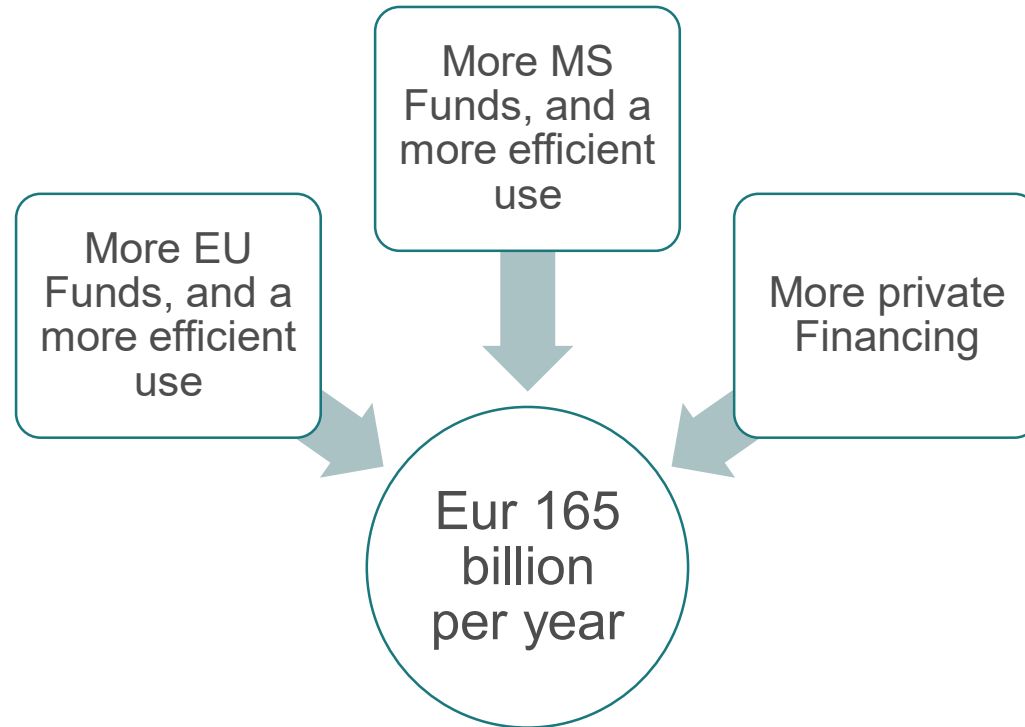
Energy efficiency and climate targets

- Energy Efficiency objectives – EED Recast
- Buildings objectives- EPBD Recast
- REPowerEU Objectives - heating decarbonisation



| Energy Efficiency Investments Needs | |
|-------------------------------------|---|
| Total investments (2021-2030) | Eur 3.000 billion <small>(Source: Primes REPowerEU Plan)</small> |
| Investment Gap (2021-2030) | Eur 1.650 billion <small>(Source: IA EED, IA CTP)</small> |

Closing the Investment Gap



Energy Efficiency faces one of the largest investments gaps. This represents an unprecedented challenge.



Das LIFE-Teilprogramm

Clean Energy Transition (LIFE-CET)

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

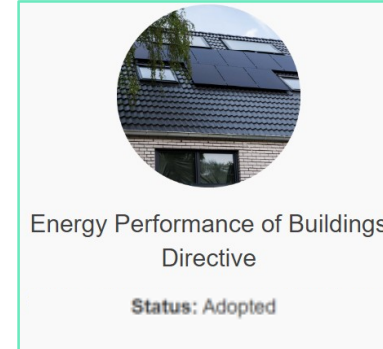
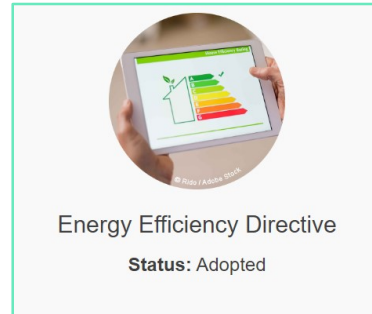
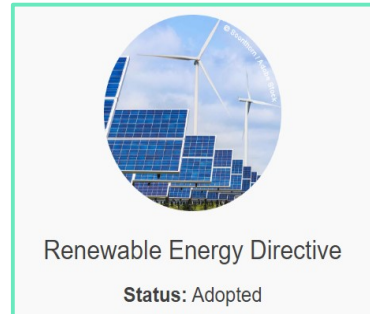
On legislation and policies

- 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

LIFE CET – support to implementing the energy transition

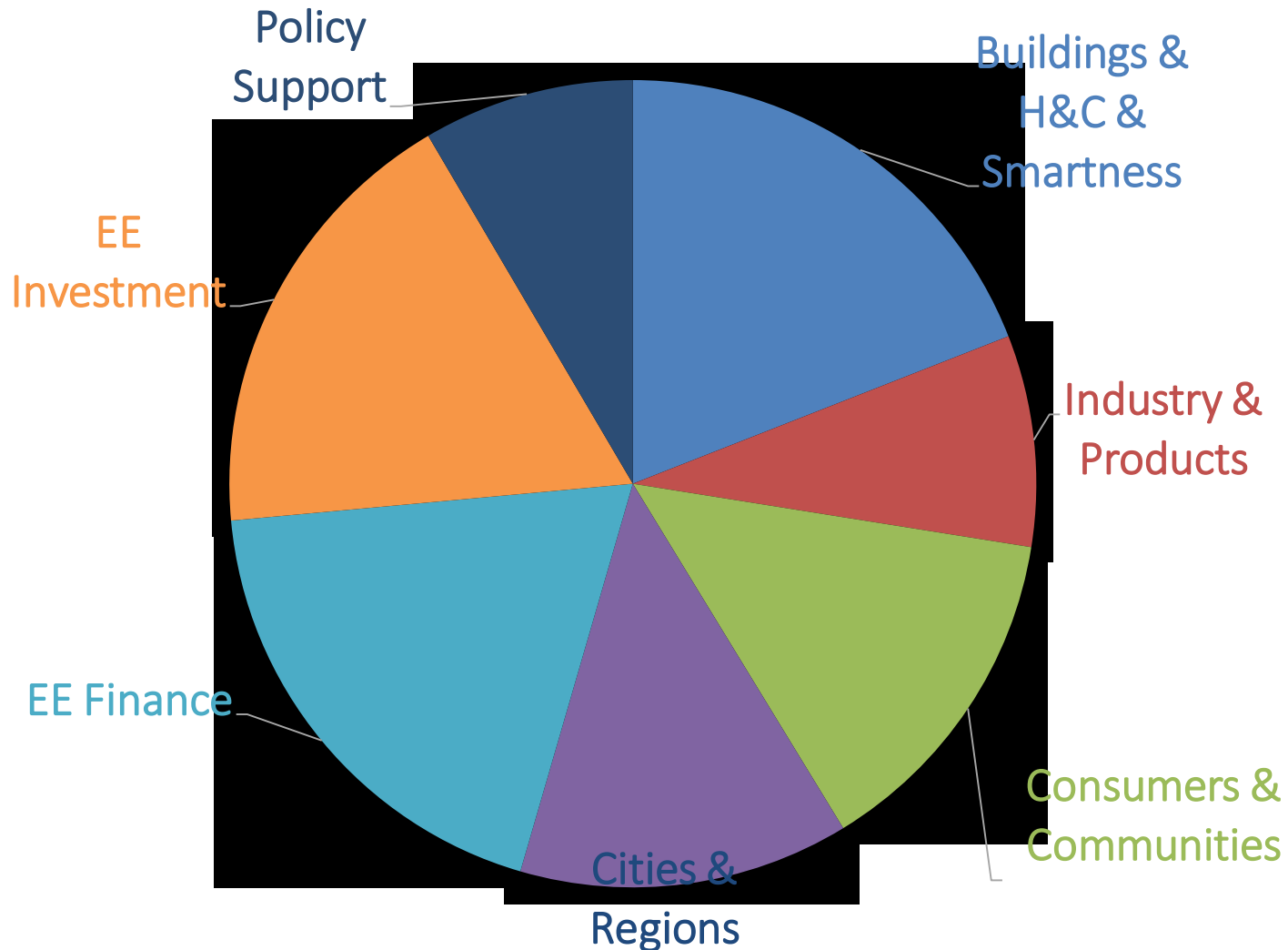


Life Clean Energy Transition Programme

- Break market barriers, change market and regulatory fundamentals
- Improve governance and capacities/skills at all levels
- Mobilise investment and improve access to finance
- Citizens at the centre of the energy transition

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

(250+ ongoing projects, status April 2024)

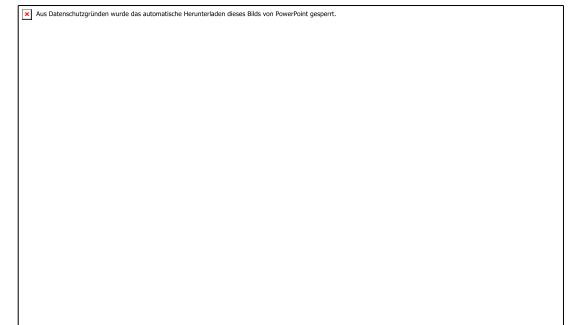
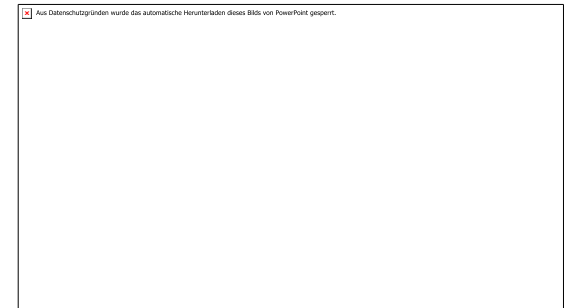


Implement projects with impacts such as

- **Decarbonisation of building stock:** e.g. number of deep renovations with reduced costs or number of buildings equipped with a renovation passport
- **One-stop-shops:** Design and operate innovative one-stop-shops for home renovation and public sector
- **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 – Call 2024 Funding topics (I)

Citizens in the clean energy transition

- Alleviating household energy poverty in Europe
- Developing support mechanisms for Energy Communities

Decarbonisation of buildings and H&C

- Energy Performance of Buildings
- Supporting district heating and cooling
- Supporting the roll-out of high-quality heat pump installations

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 2024 Funding topics (II)

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

- Clean energy transition plans and strategies in municipalities and regions
- Towards an effective implementation of key legislation in the field of sustainable energy
- Real world energy consumption of energy-related products

Developing innovative integrated service offers and delivering public sector investments

- One-Stop-Shops - Integrated services for buildings and businesses
- Facilitation structures for the renovation of public buildings
- Project Development Assistance for sustainable energy investments

Attracting private finance for sustainable energy

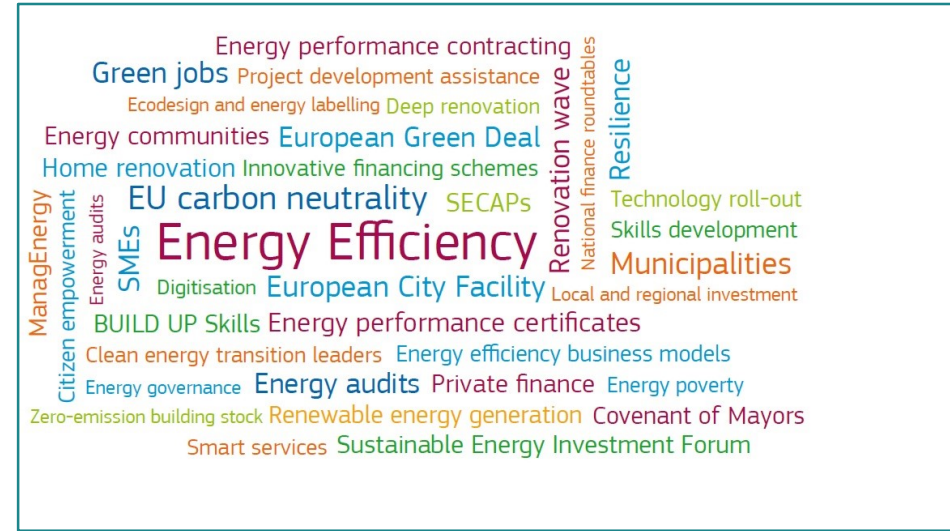
- Crowding in private finance

+ LIFE CET SAPs (1st test)

- Targeting key energy transition enabling structures and actors

LIFE CET Call 2024

- Publication: **18th April 2024**
- Deadline: **19th September 2024**
- **81,25 mEUR** available for +/- 40-45 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** (except CET-SAP topic with 60% co-funding)
- Apply electronically via the EC's [Funding & Tender opportunities portal](#)



Project example –PEDIA

- Renovation of 25 schools to nZEB standard in Cyprus
- Urban, rural and mountainous school buildings all across Cyprus
- EUR 20m dedicated fund from EU Cohesion fund
- Bundling of projects and central procurement by Cyprus Energy Agency
- Collaboration with Ministry of Education with potential to reach out to all 700 schools
- <https://www.cea.org.cy/en/pedia/>



Project Example - RENOVERTY

- Design **scalable renovation roadmaps** in 17 rural and peri-urban areas in ES, IT, PT, HU, HR, EE, SI
- Test & evaluate selected measures in each region
- **Capacity-building for local actors** in renovation value chain
- Lead to renovation of 1.200+ houses
- **CO:** Institute for European Energy and Climate Policy (NL)
- <https://ieecp.org/projects/renoverty/>



Keep in touch with LIFE CET



30 years of bringing green ideas to LIFE



https://cinea.ec.europa.eu/life_en

→ **Advice in your country:** [LIFE National Contact Points](#): https://cinea.ec.europa.eu/programmes/life/history-life/life-contacts/european-national-contact-points_en

→ **Advice at CINEA:** CINEA-LIFE-CET@ec.europa.eu

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CLEAN ENERGY TRANSITION



More information here:

<https://europa.eu/l4QpNXm>



Register on the Funding & Tender portal:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/work-as-an-expert>

- list your areas of expertise
- keywords
- work experiences

Thank you



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