

EU BUILDINGS CLIMATE TRACKER

A CALL FOR FASTER AND BOLDER ACTION

12/12/2023

Oliver Rapf

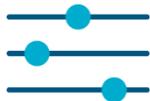
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online





WHAT IS THE EU BUILDINGS CLIMATE TRACKER?



The **EU BUILDINGS CLIMATE TRACKER** IS AN INDEX COMPOSED OF A SET OF 5 **INDICATORS**. It is a response to the challenges of collecting and using data to monitor progress in the EU building stock.



It **BUILDS ON THE GLOBAL TRACKER FOR CLIMATE CHANGE ACTION BPIE** developed in 2020 for the buildings and construction sector for the Global Status Report of the Global Alliance for Buildings and Construction.



GOAL:
Evaluate whether the sector is on track to full decarbonisation by 2050, in line with the Paris Agreement.





THE TRACKER AIMS TO ANSWER 3 KEY QUESTIONS

?

**HOW HAS
DECARBONISATION**
of the building
stock in the EU
EVOLVED
since 2015?

?

**IS THE
BUILDING STOCK
IMPROVING
ENOUGH**
to achieve climate
neutrality in 2050?

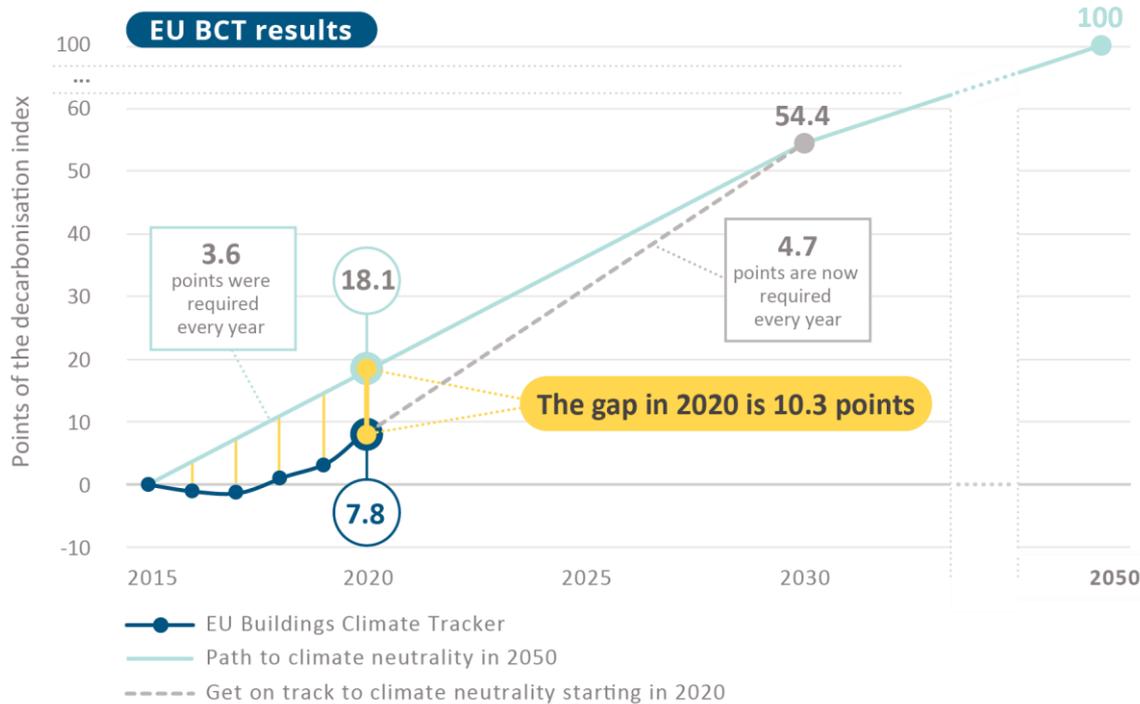
?

**WHAT DEGREE OF
IMPROVEMENT IS
NEEDED**
between the most
recent observations and
2050 in order **TO
ACHIEVE CLIMATE
NEUTRALITY?**



MAIN FINDING

Off track to climate neutrality



The tracker finds that the EU building stock **remains off track to achieve climate neutrality by 2050.**

Compared to the previous results, the decarbonisation gap is slightly reducing, but not to the degree necessary to bring the sector on track towards climate neutrality.



KEY MESSAGES

Progress must increase drastically!



Decarbonisation not happening nearly fast enough.

EU IS FAR OFF TRACK
to reach 2050 climate neutrality in the building stock.



The EU must
**IMMEDIATELY, RAPIDLY,
AND STRONGLY
ACCELERATE**
the rate of building decarbonisation.



**EPBD
IMPLEMENTATION
PROVIDES A CRUCIAL
OPPORTUNITY**
with many provisions available to accelerate progress.



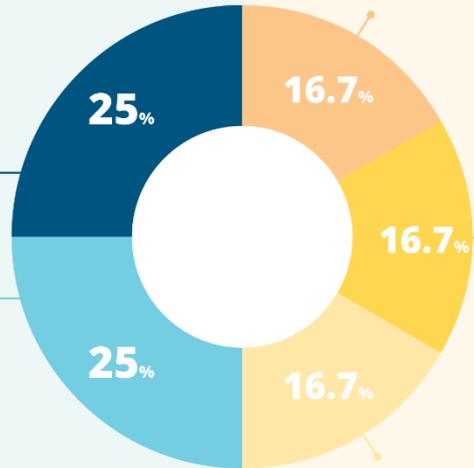
METHODOLOGY

Weighting indicators within the Tracker

50%
EMISSIONS
ENERGY

CO₂ emissions from buildings, direct and indirect; households & services (MtCO₂)

Final energy consumption in households & services (TWh)



50%
SUPPLEMENTAL
INDICATORS

Renewable energy share

Cumulated investment in renovation (EUR2015)

Annual domestic energy expenditure per household (EUR2010/hh)

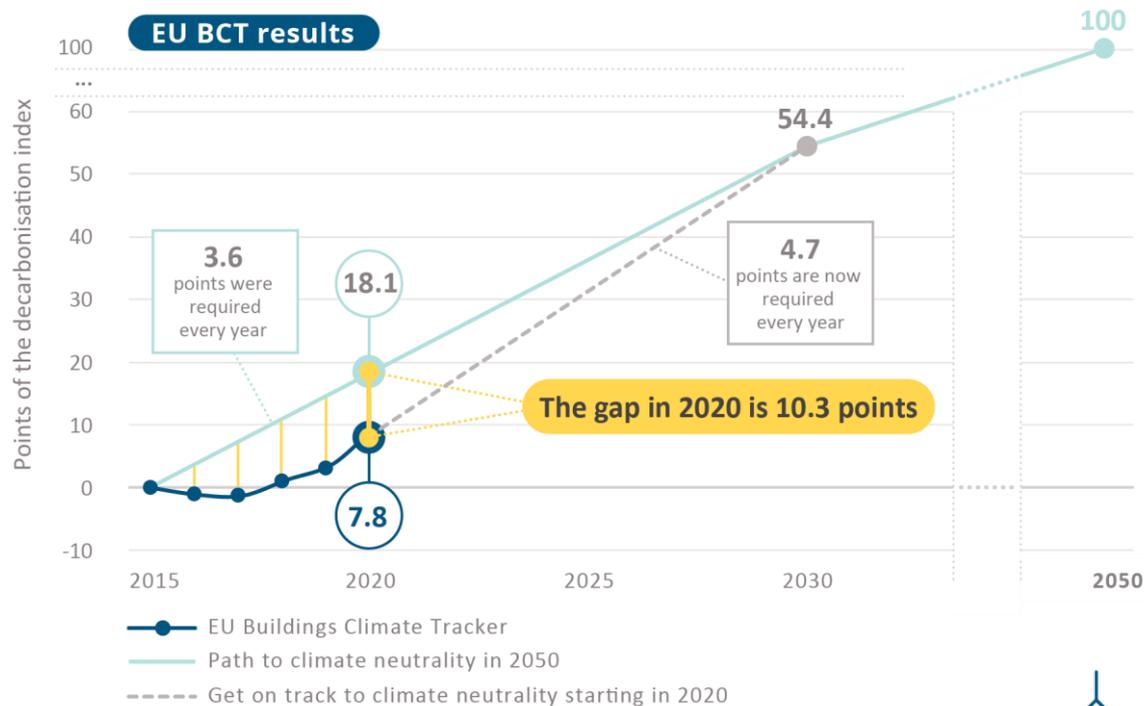
The Tracker consists of an aggregation of the five indicators.

However, it does not assume the same weight for each of them.



MAIN FINDING

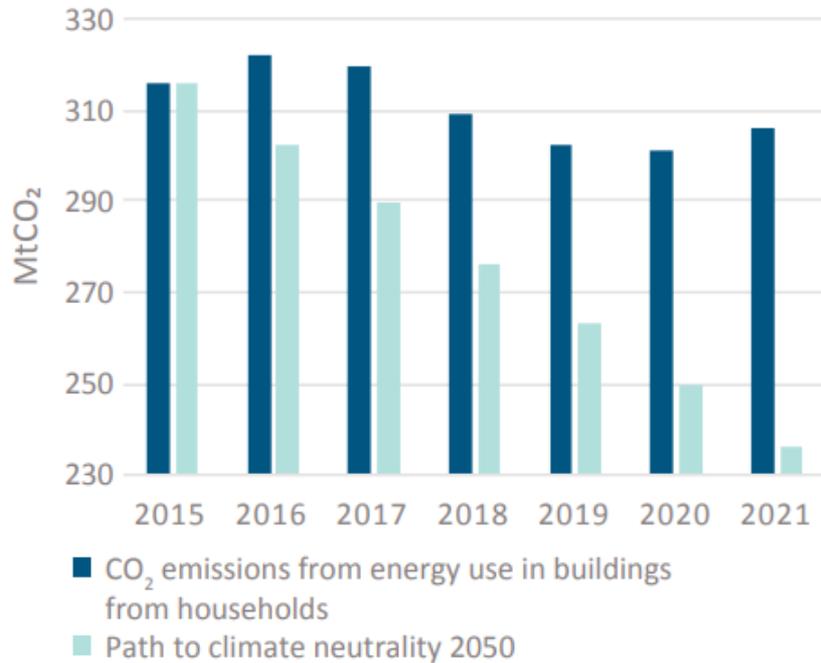
Off track to climate neutrality



CO₂ EMISSIONS - HOUSEHOLDS

Negative progress - not on track

(A) Absolute values, EU



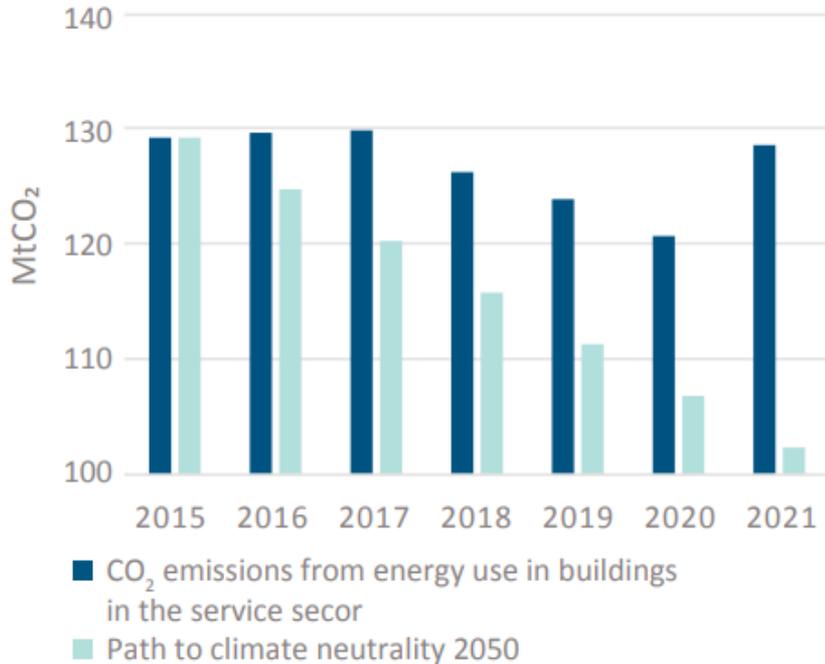
In 2020, Emissions from energy use in households reached 301 Mt CO₂, which was **20.7% higher than the required value.**



CO₂ EMISSIONS - SERVICE SECTOR BUILDINGS

Progress not on track

(A) Absolute values, EU



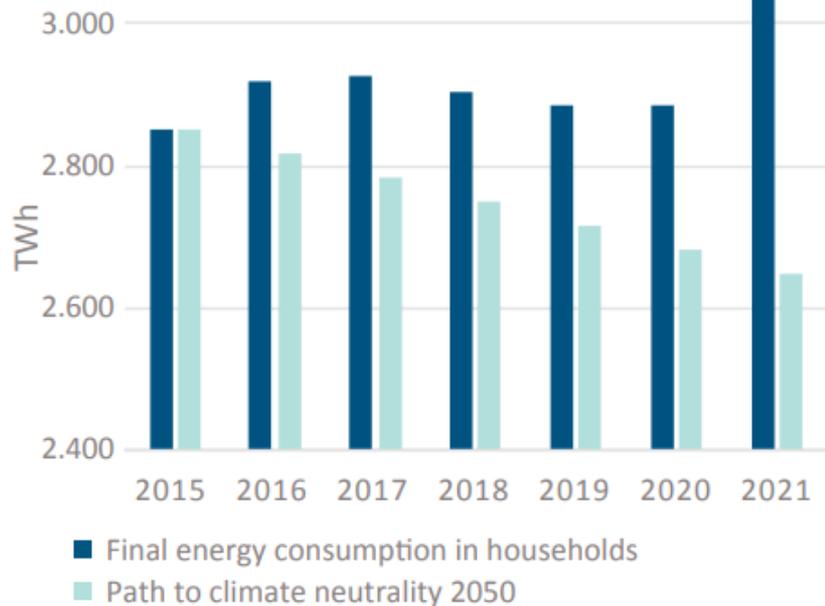
In 2020, Emissions from energy use in service-sector buildings reached **121 Mt CO₂**, **13.2% higher** than the required value.



FINAL ENERGY CONSUMPTION - HOUSEHOLDS

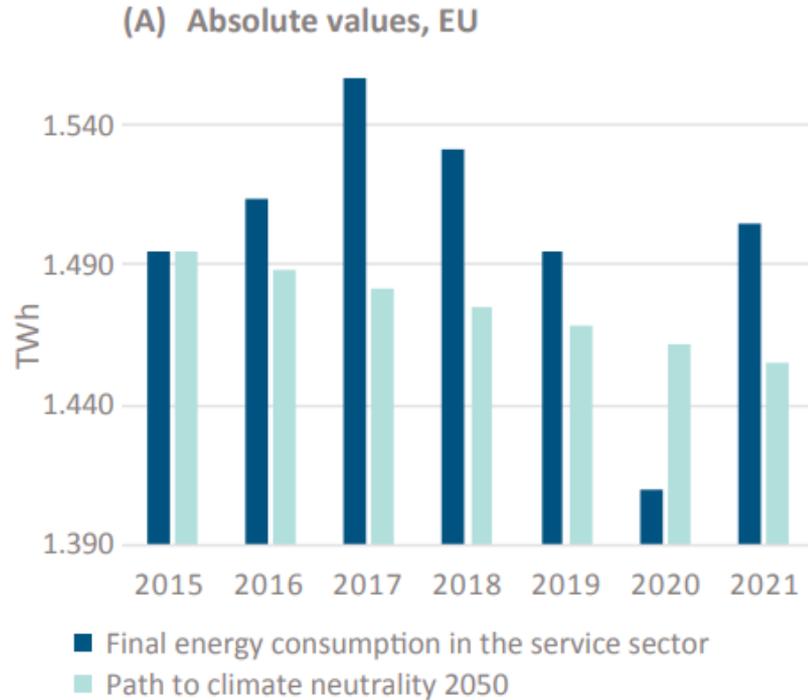
Progress not on track

(A) Absolute values, EU



In 2020, Final energy consumption in households was 2,886 TWh, **7.6% higher than the target.**



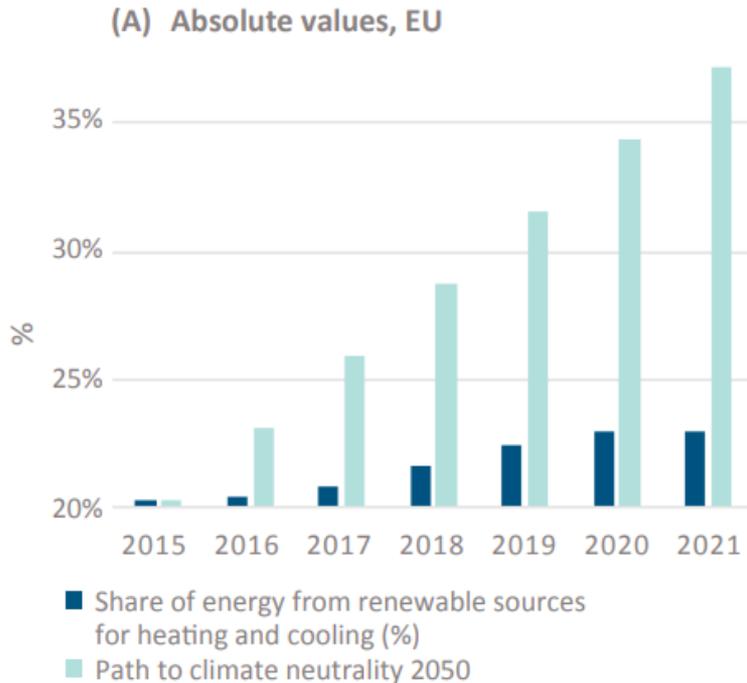


In 2020, Final energy consumption in service-sector buildings was **1,410 TWh**, meeting the target (1,462 TWh).



RENEWABLE ENERGY – HEATING & COOLING

Progress not on track

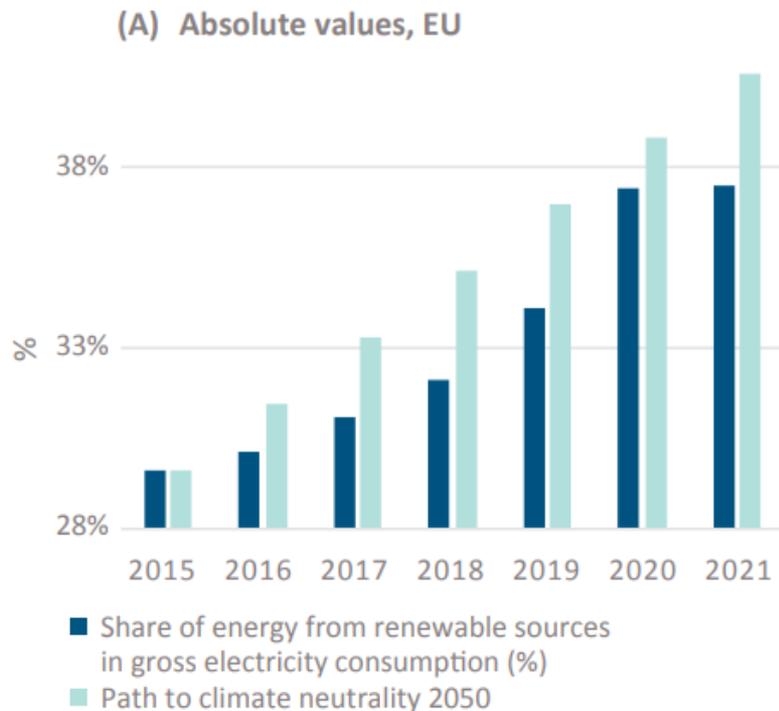


In 2020, The share of energy from renewable sources for **heating and cooling reached only 23%, 11.4 percentage points lower than the target.**



RENEWABLE ENERGY – GROSS ELECTRICITY CONSUMPTION

Progress almost on track

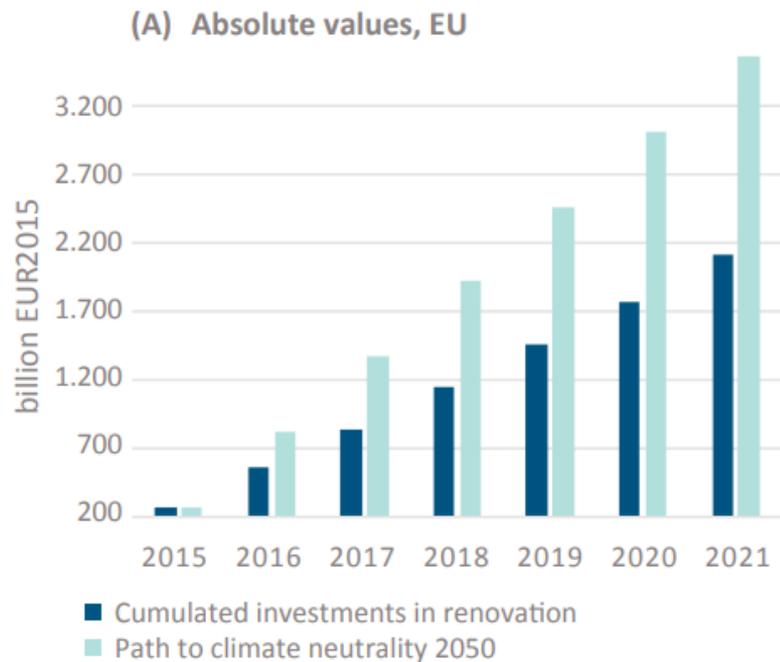


In 2020, The share of energy from renewable sources in gross electricity consumption **reached 37.4%, 1.6 percentage points below the target.**



INVESTMENT IN RENOVATION

Progress not on track



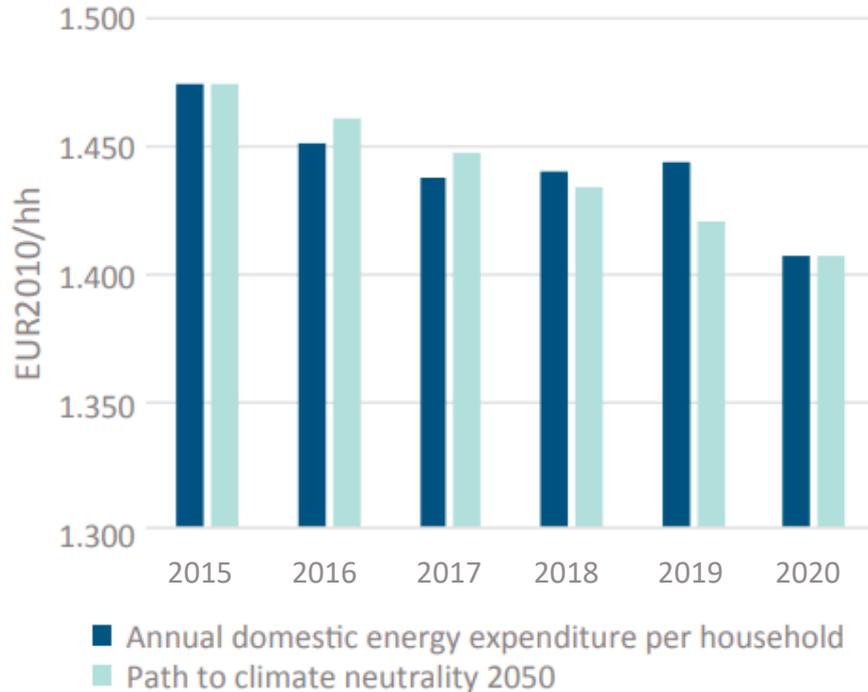
In 2020, Investments in renovation accumulated to €1,771 billion, **41.2% lower than the target.**



DOMESTIC ENERGY EXPENDITURE

Almost on track

(A) Absolute values, EU



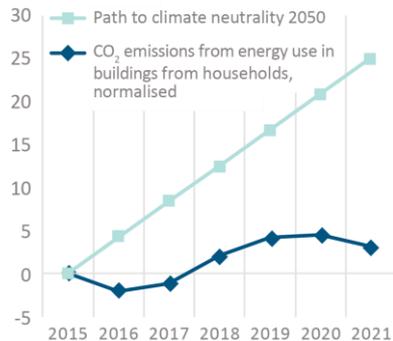
In 2020, Domestic energy expenditure (almost on track) reached **€1,406 per household** (EUR 2010)



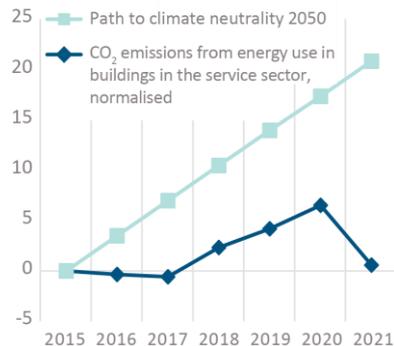
NORMALISED VALUES

CO₂ emissions & final energy consumption in households and the service sector

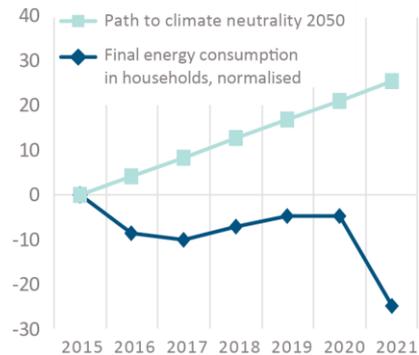
(B) Normalised values, EU



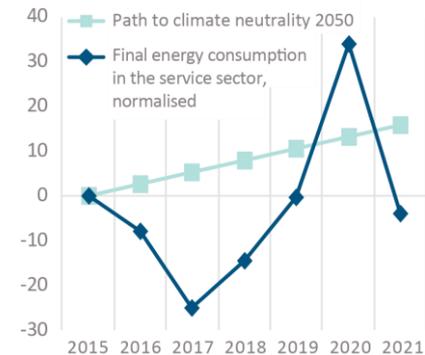
(B) Normalised values, EU



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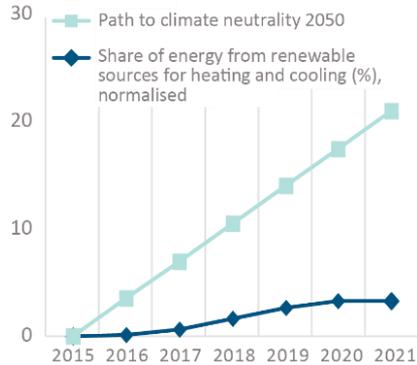
(B) Normalised values, EU



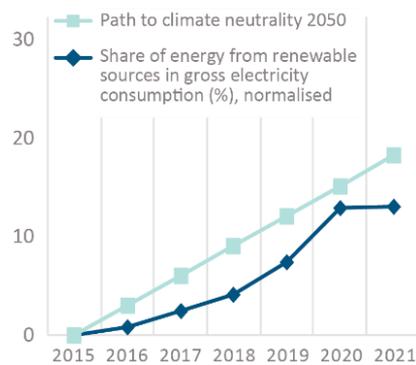
NORMALISED VALUES

Renewables for heating & cooling, gross electricity consumption, investment & domestic energy expenditure

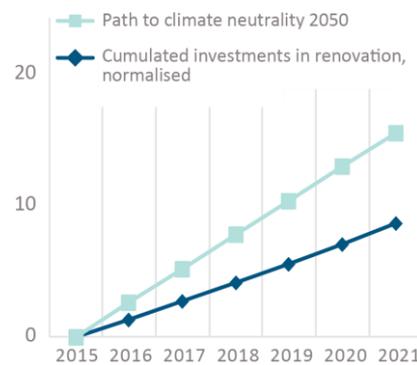
(B) Normalised values, EU



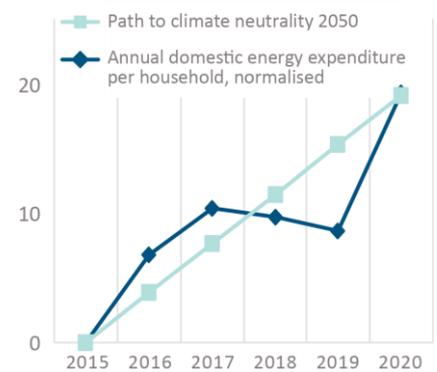
(B) Normalised values, EU



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(B) Normalised values, EU



OVERALL RESULTS - EU

Four out of the five indicators are off track

	INDICATOR	OBSERVATION	COLOUR CODE
1	CO ₂ emissions from energy use in buildings for households and services	OFF track	●
	● Households	OFF track	●
	● Services	OFF track	●
2	Final energy consumption for households and services	OFF track	●
	● Households	FAR OFF track	●
	● Services	ON track	●
3	Renewable energy share	OFF track	●
	● Share of energy from renewable sources for heating and cooling	FAR OFF track	●
	● Share of energy from renewable sources in gross electricity consumption	ALMOST ON track	●
4	Cumulated investment in renovation in real terms	OFF track	●
5	Annual domestic energy expenditure per household in real terms	ALMOST ON track	●





A REVISED POLICY FRAMEWORK: EPBD 2023

Can the EPBD provisions get us back on track?

- Political deal reached on 7th December 2023
- Co-legislators (Council and Parliament) have to formally approve it
- Expected publication in EU Official Journal by summer 2024 (tbc)
- Transposition period of 2 years (mid-2026, tbc)
- Review by end of 2028

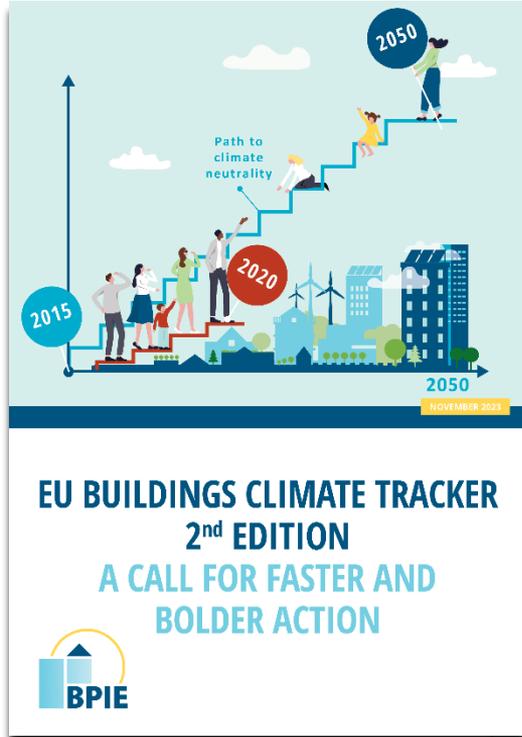
Disclaimer: all information still to be confirmed!





READ THE REPORTS ON OUR WEBSITE

www.bpie.eu



Check out the **methodology report** and

policy recommendations for more details

<http://www.bpie.eu>



Thank you!



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