



Policy background

the Energy Performance of Buildings Directive

LIFE CET Info Day, 1st June 2023

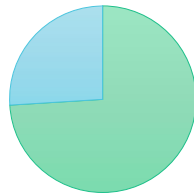


Serena Pontoglio, Team Leader, ENER B3 Buildings and Products

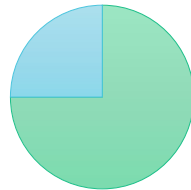
European Climate,
Infrastructure and
Environment
Executive Agency

EU building stock

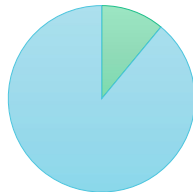
24 billion m2 floor area,
around **28 % non-residential**



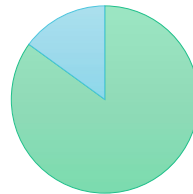
... **75 %** has **poor energy performance** ...



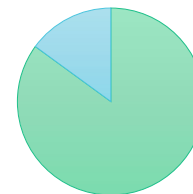
Only **11 %** of existing buildings
undergo some level of **renovation**
each year



85 % of existing EU dwellings were
built before 2000, of which ...



... more than **85 %** will still be in
place in **2050**

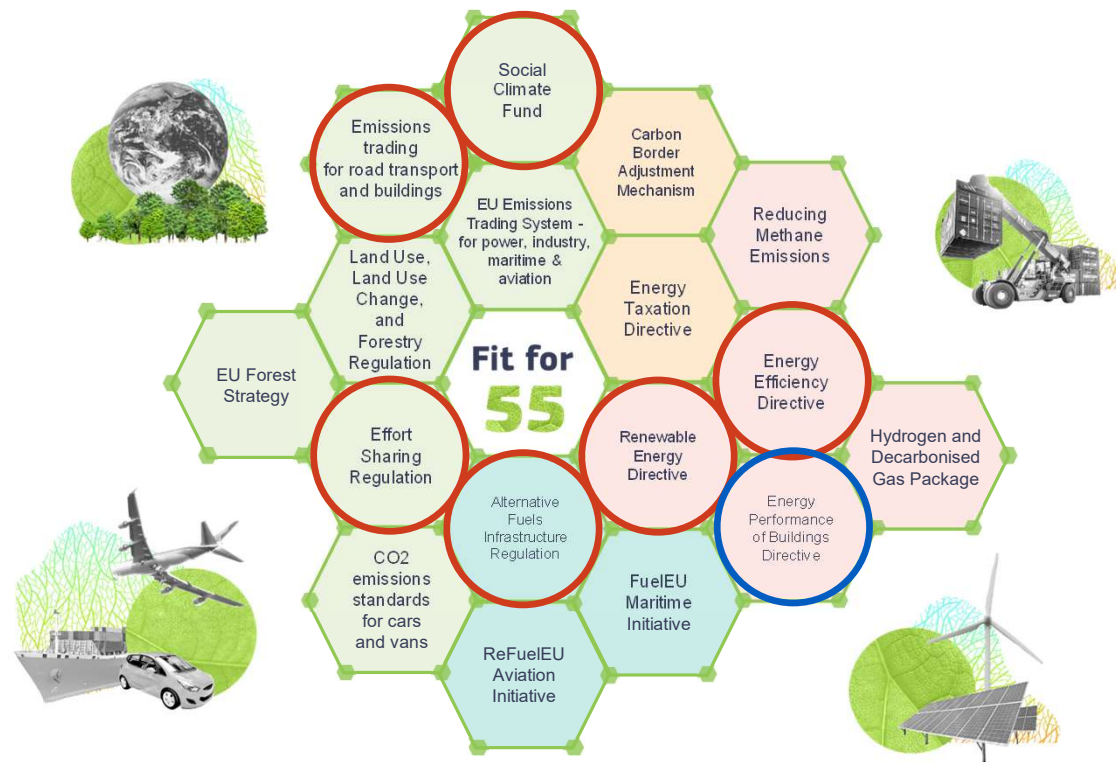
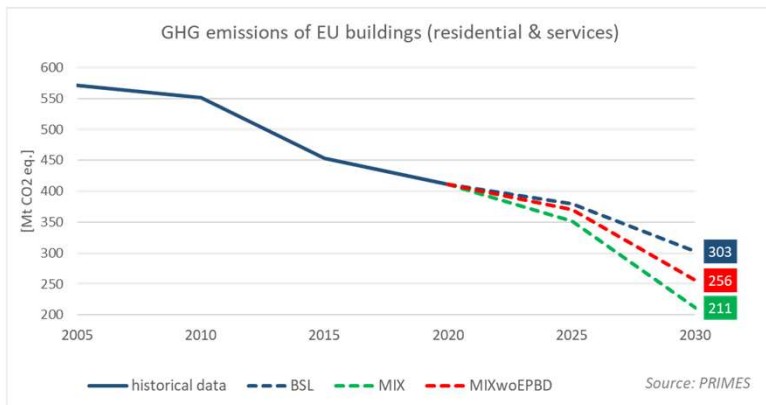


The building sector is one of the **largest energy consumers** in Europe,
responsible for more than one third of the EU's energy-related
emissions

“Fit for 55”: buildings’ key role

MAKING OUR HOMES AND BUILDINGS FIT FOR A GREENER FUTURE

- decrease emissions
- save energy
- tackle energy poverty
- improve quality of life
- generate jobs and growth



https://ec.europa.eu/commission/presscorner/detail/en/IP_21_3541



Objectives of the EPBD revision as part of the Fit for 55 package

- **Climate Target Plan:** by 2030 the EU should reduce buildings' GHG emissions by 60%, their final energy consumption by 14% and energy consumption for heating and cooling by 18%.
- **Renovation Wave** aims at doubling renovations by 2030 and **foster deep renovations**



Twofold objective:

→ Contribute to **reducing buildings' GHG emissions and final energy consumption by 2030**

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



A zero emission building stock by 2050

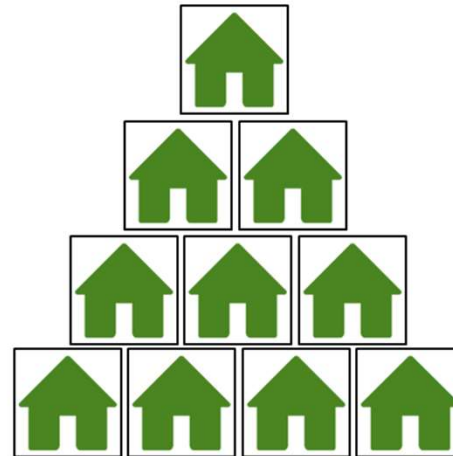
EU avg 2019:
22% of renewables H&C
34% renewable electricity*



G class building



Powered by renewables
zero direct CO2 emissions



ZEB building



*according to Eurostat SHARES

Focus areas

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
- 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



Thank you



© European Union 2022

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slides: various; Source: Shutterstock

