



6/ Energy-efficient homes

Our proposal

Renovate old housing

Towards energy efficiency and optimal insulation for almost the entire residential building stock constructed prior to 1990, and carbon-free heating (heat pumps, wood, thermal solar power), with a view to halving residential heating emissions.



The stakes for the climate

The systematic renovation of the housing stock should lead to a reduction in annual greenhouse gas emissions from residential buildings of up to **500 million tonnes of CO2 equivalent** by 2050, i.e. almost **17% of the total emission reductions required to meet our "carbon budget"* responsibilities.**

Other reasons to adopt this solution

Job creation

Major renovation work involving a high number of buildings will have a **very significant** impact on unemployment in Europe, thanks to the **creation of numerous new jobs** in labour-intensive sectors (construction, energy efficiency management and associated activities).

Economic activity

Home renovation will galvanize the entire building sector, as well as the construction materials and energy equipment production sectors.

Environment, health & well-being

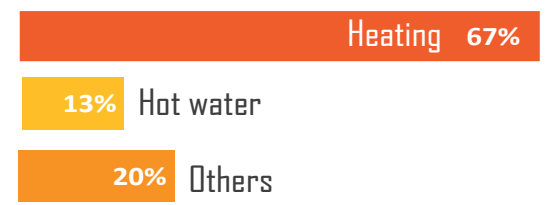
Home renovation will lead to a **significant fall in energy bills** and a reduction in fuel poverty. It will improve air quality and comfort inside homes and **increase the value of people's property.**

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Why ?

Buildings are responsible for at least **36% of CO2 emissions** across the European Union.

Total final energy consumption in buildings EU-28, 2012



European households are responsible for **67% of total energy consumption** in buildings, of which **80% for heating and hot water.**

Source : ODYSSEE - « Energy Efficiency Trends and Policies in the Household and Tertiary Sectors »

How ?

- Draw up a **renovation road map** in order to have a stable long-term vision.
- Provide each country with **statistical and survey tools** to gain a better understanding of the building stock
- Introduce a compulsory **"energy-efficiency passport"** for every home
- Implement **specific funding mechanisms**
- Encourage the **development of the renovation sector**
- Reinforce **educational** and **awareness-raising** initiatives aimed at households

How much does it cost?

The total investment required is likely to be between **€5,000** and **€8,500** billion. The resulting energy savings will lead to lower bills.

Who pays?

Renovations will be funded by households, with the possibility of obtaining local authority grants for projects of proven ecological benefit.

* Our "carbon budget": target greenhouse gas emission ceiling for 2050, corresponding to a four-fold reduction in European Union Member State emissions compared to 1990 levels.