



# 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.