

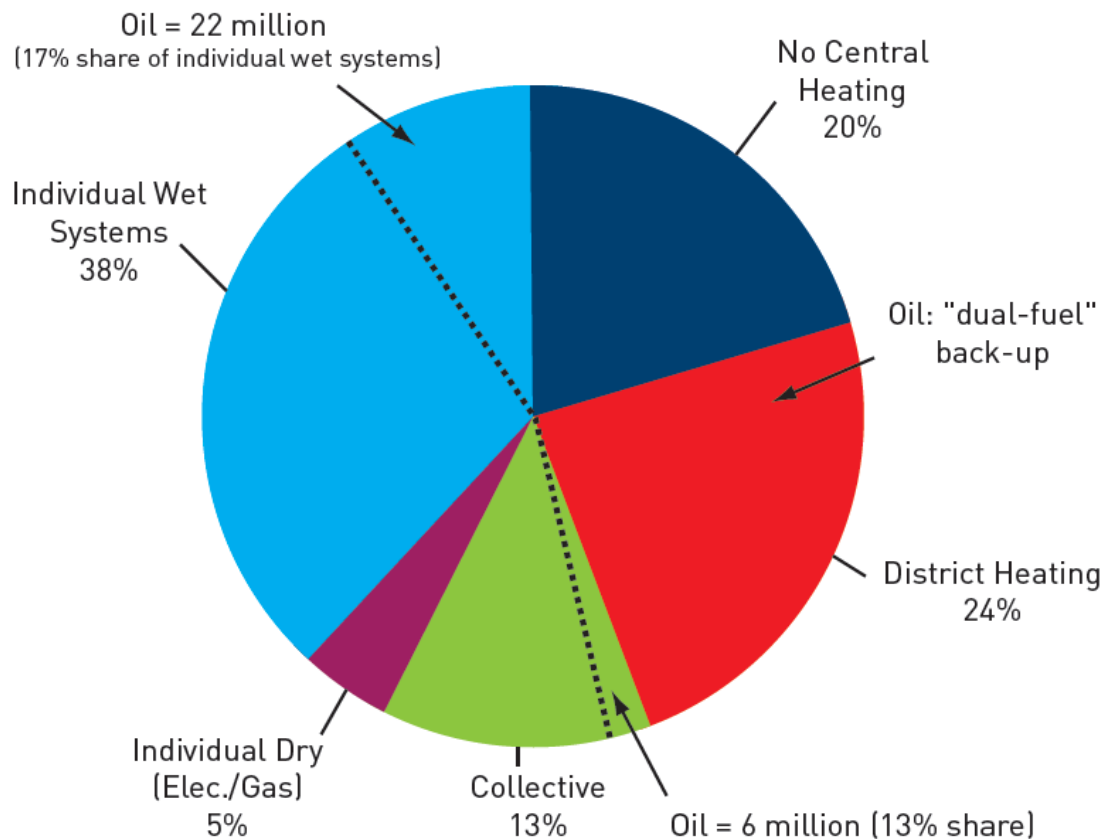


**Reducing Energy
Consumption:
A Priority for Europe**

A Vision for Heating in Europe – 2020 and Beyond

**Prof Dr-Ing Christian Küchen, Eurofuel President,
European Parliament - Brussels, 12th October 2010**

REALITY CHECK: How Does Europe Heat Itself?



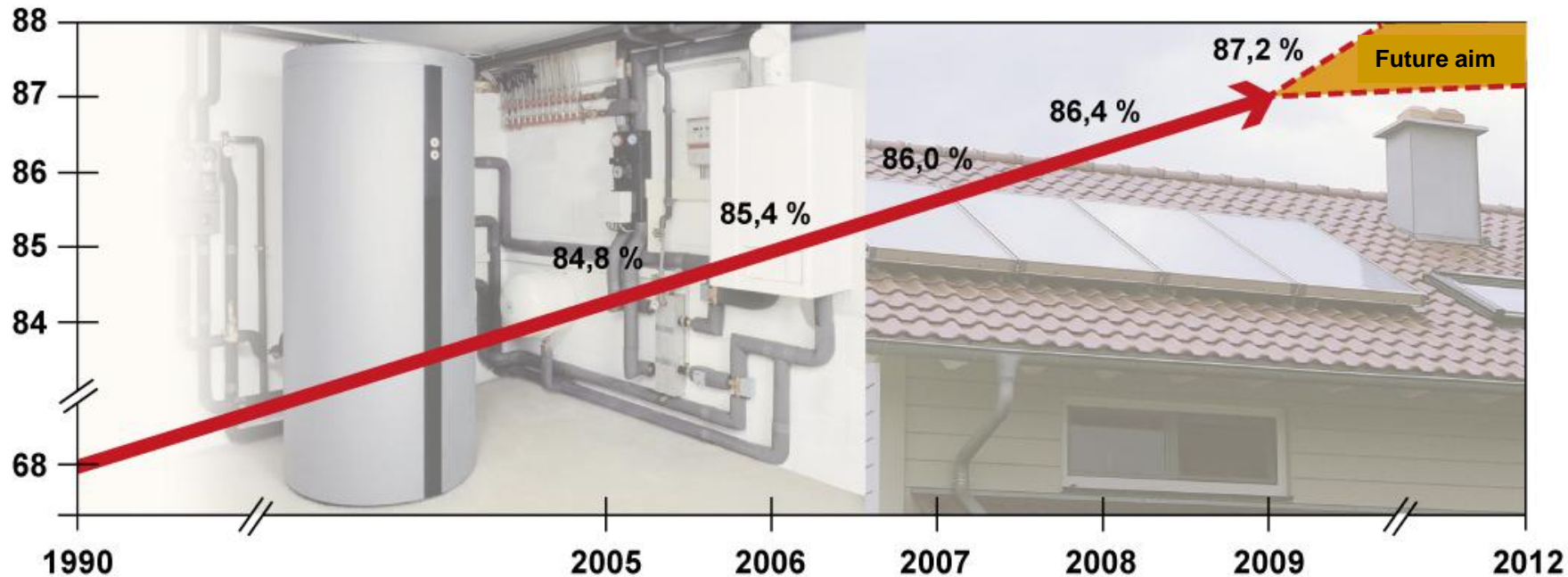
**346 million dwellings,
30 countries:**

- 275 million with central heating
- 131 million with individual wet (radiator) systems

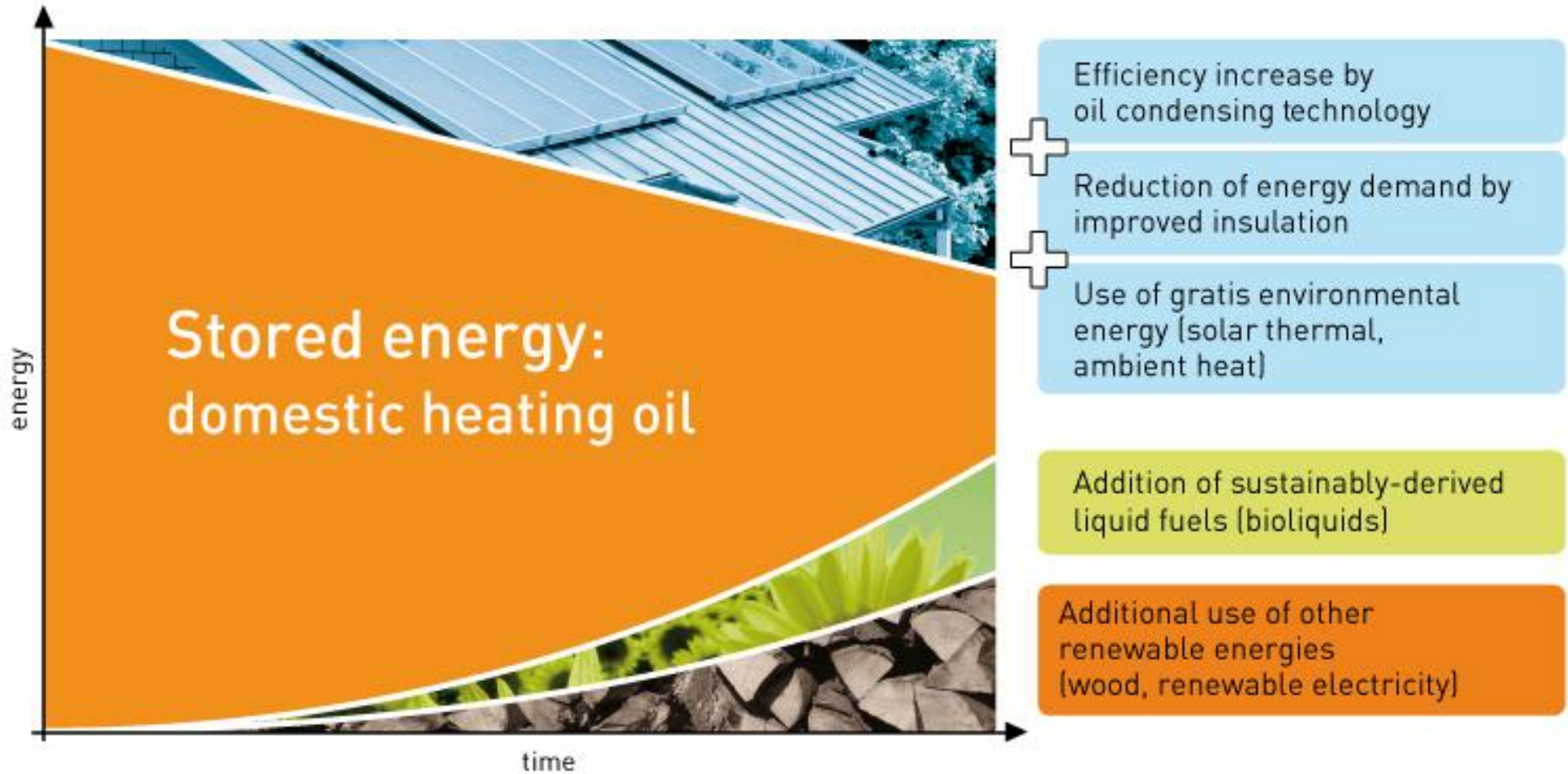
Source: BRG Consult (2010) – Update of EuP Boiler Market Report
Commissioned by Eurofuel

Efficiency Progress in Oil-Fired Boilers, 1990-2010

Average efficiency, year on year, of total population of installed oil-fuelled heating appliances, Germany



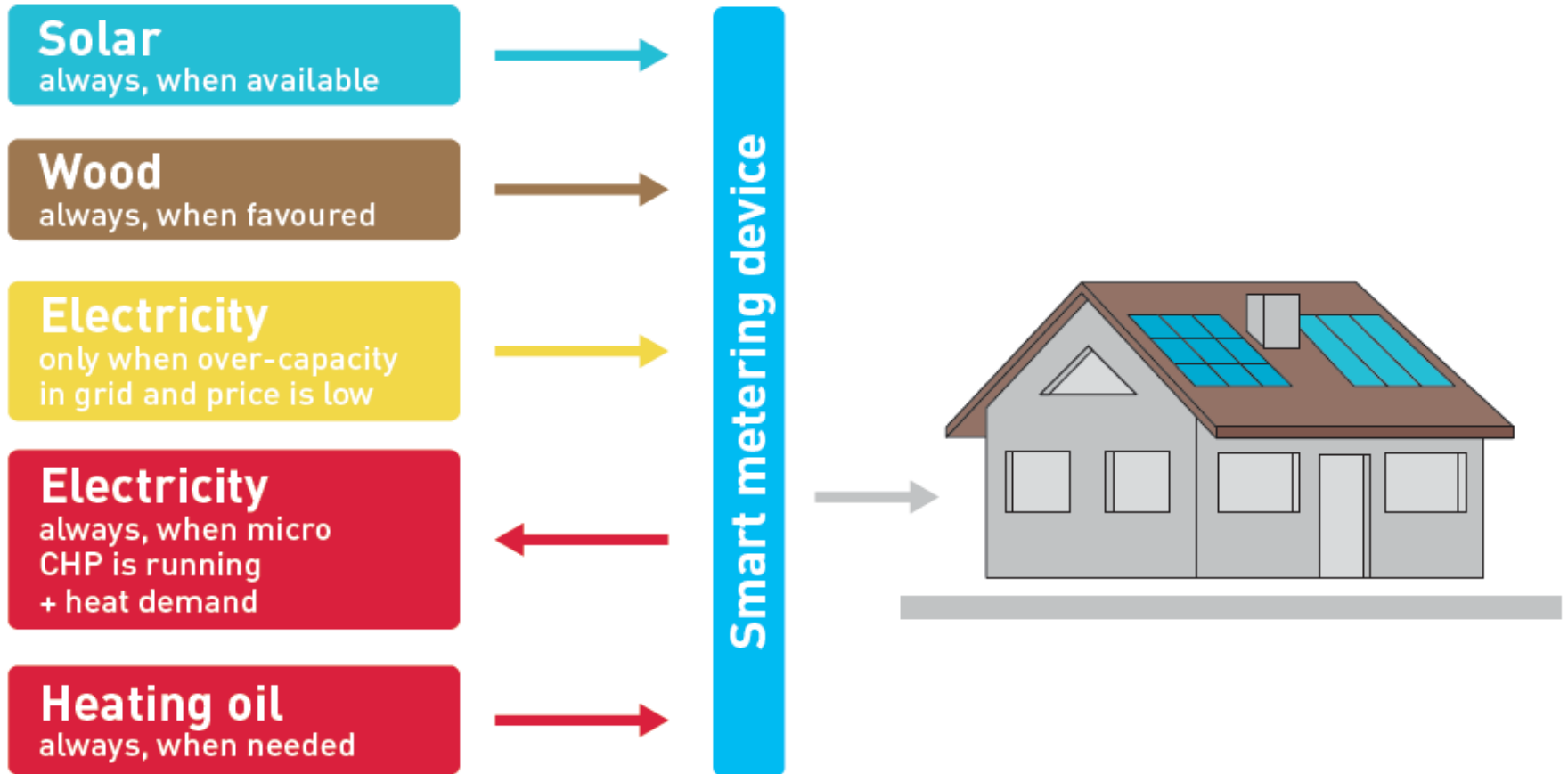
Eurofuel's Multi-Energy Hybrid Vision



Primary Energy reductions, Stored Energy reliability, Renewable Energies integration

Multi-Energy Hybrid based on Heating with Oil using Smart Metering

Energy source



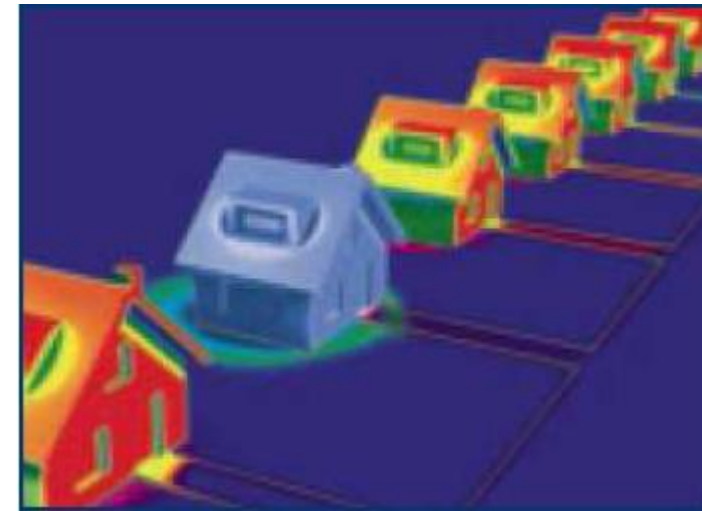
Technologies Development & Policy Recommendations - Eurofuel

- ❖ Energy demand in existing buildings will decrease, as the heating systems and buildings are renovated
- ❖ Seasonal heat demand will become more concentrated in winter months
- ❖ Decentralised, stored, high density, liquid energy – very economical solution re. meeting reduced heat demand
- ❖ Heating systems using liquid fuels are future-proofed, enabling RES integration, μ CHP, & oil-fuelled heat pumps

Eurofuel's Recommendations

- ↘ Ensure a consistently-applied legal framework which promotes technology-neutral Primary Energy reductions (e.g. in line with the Energy Performance of Buildings Directive).
- ↘ Energy taxation for heating use should depend on Primary Energy consumption, or as an approximation, the energy content of the fuel.
- ↘ R&D should focus on technologies for cost-effective reduction of Primary Energy consumption.

Thank you for your kind attention!



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