

EEA use of ODYSSEE data

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EEA relevant products

- **ENER037:** Progress on energy efficiency in Europe
- **SCP023:** Trends in energy efficiency and number of electrical appliances
- **Environmental Indicator Report 2014**

Key policy question: Is final energy consumption becoming more efficient?

We monitor energy efficiency trends at EU-28 level covering:

- Sectors (ODEX);
- Details about the residential sector: explanatory drivers, household energy consumption by end-use, effect of building codes, trends in energy consumption for heating and cooling



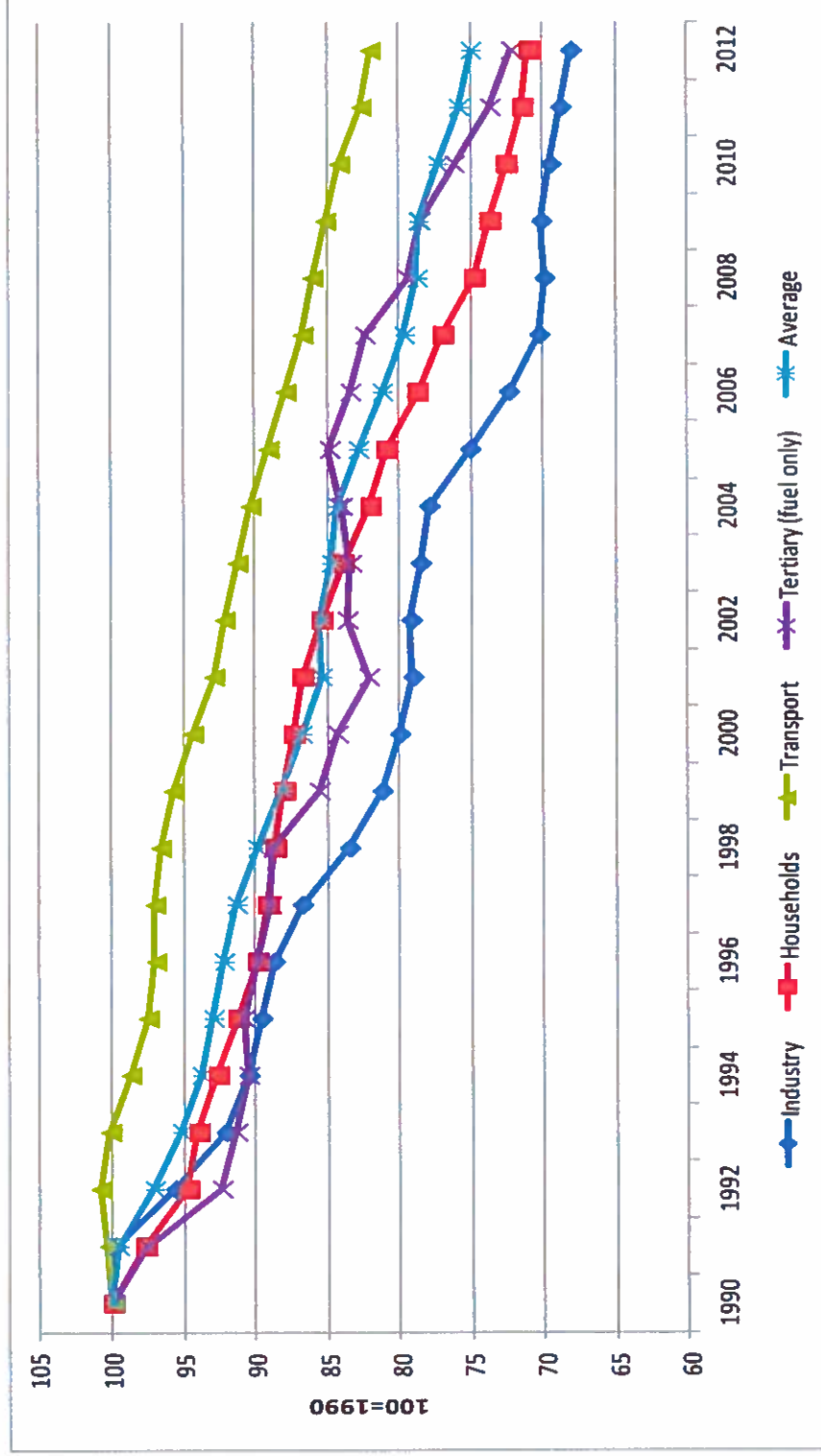
ENER037

ODEX

Source: ODYSSEE 2014

Between 1990 and 2012, energy efficiency for final consumers improved by 25% at an annual average rate of 1.3%/year.

All the sectors contributed to this improvement.

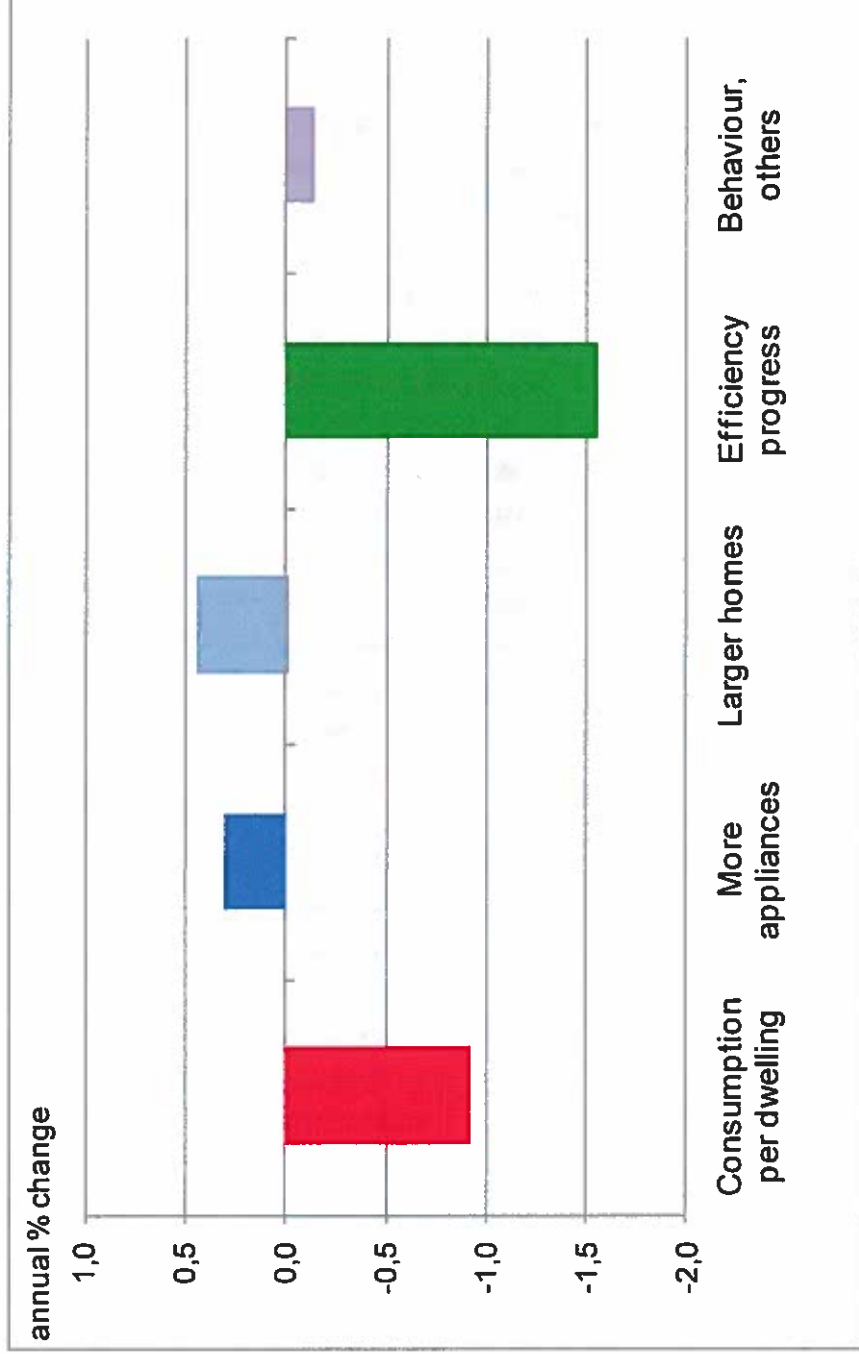


ENER037

Drivers for change in the energy consumption per dwelling in households

EU28, 1990 and 2012

Source: ODYSSEE, 2014



Energy efficiency in the household sector improved by 29% between 1990 and 2012 due to improvements in space heating and the diffusion of more efficient appliances.

The increase in the number of electric appliances and larger homes offset around 50% of the efficiency improvements.

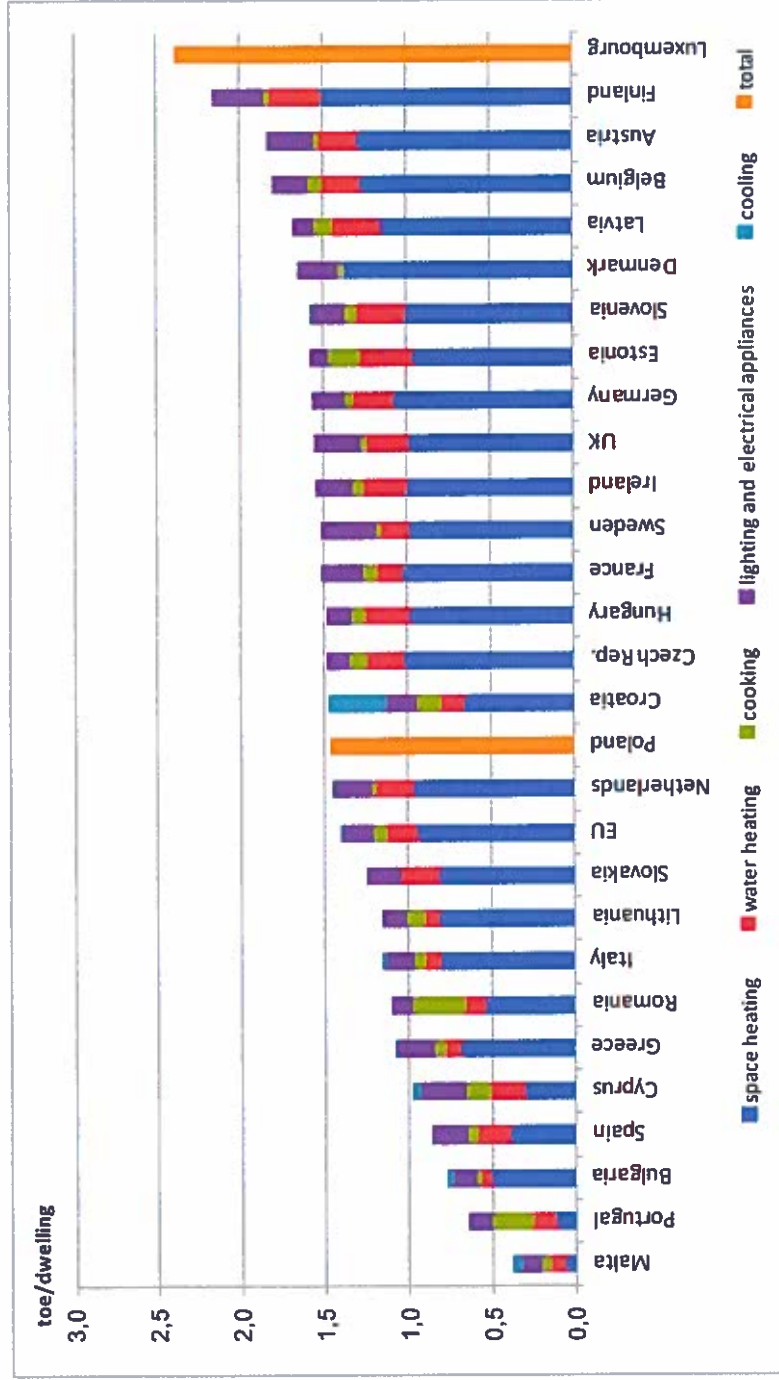


European Environment Agency

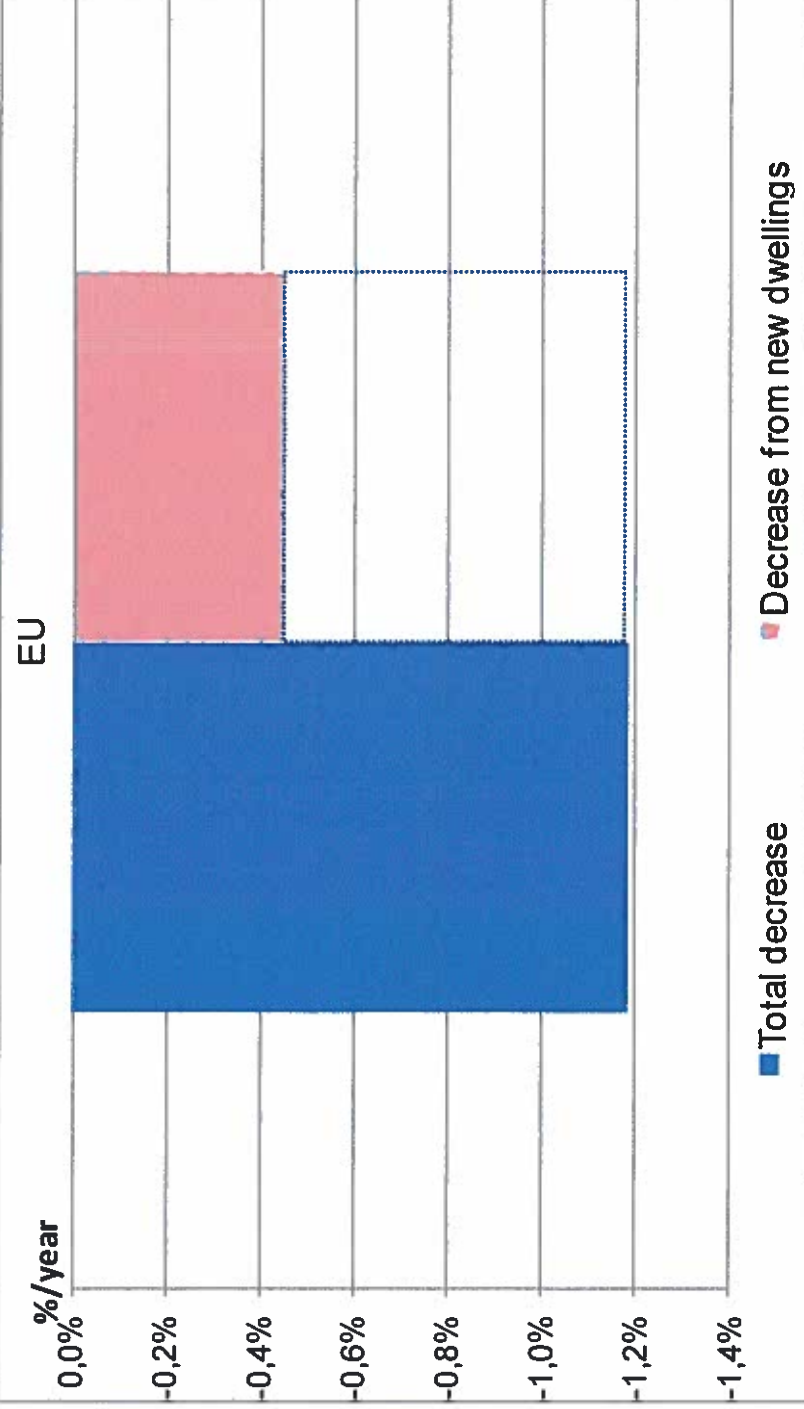
Household energy consumption per dwelling by end-use

EU-28, 2012

Source: ODYSSEE, 2014



ENER037

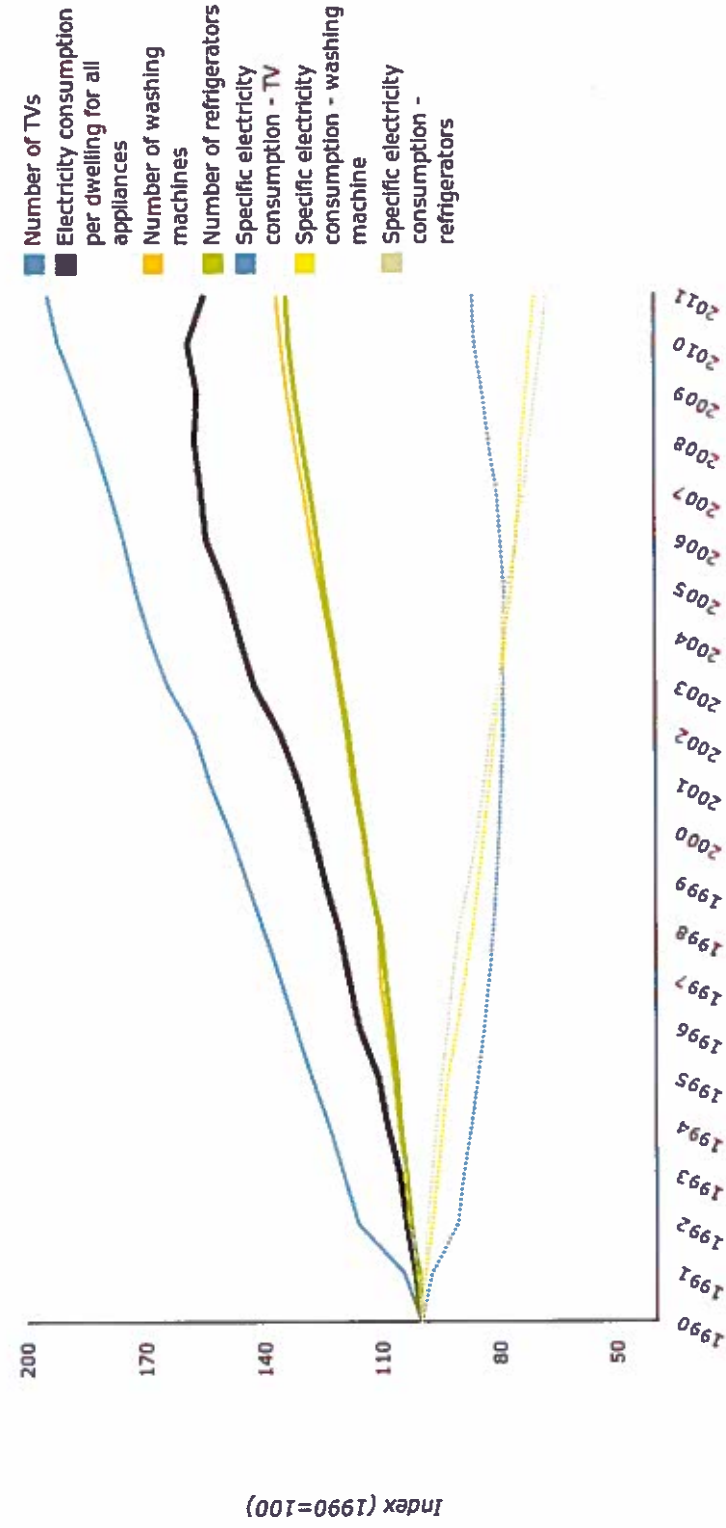


Energy efficiency gain from building standards of new dwellings

EU28, 1990-2012

Source: ODYSSEE, 2014

Standards for new buildings contributed to a little more than one third of the total savings from household space heating.



Trend in energy efficiency and number of electrical appliances in households

EU-28, 1990-2011

Source: ODYSSEE

The increasing number of electrical appliances outpace improvements in their specific energy consumption.

Index (1990=100)

Future developments involving ODYSSEE data

- Merge indicators ENER037 and SCP023
- Elaboration of European energy efficiency index where some of the ODYSSEE data may be used

