



Regional Conference on Financing Energy Efficiency in the Baltic States

EU Energy Efficiency Policy and support to EE investments

Riga, 11November 2016

Paul Hodson Head of Unit – Energy Efficiency Unit DG ENER, European Commission

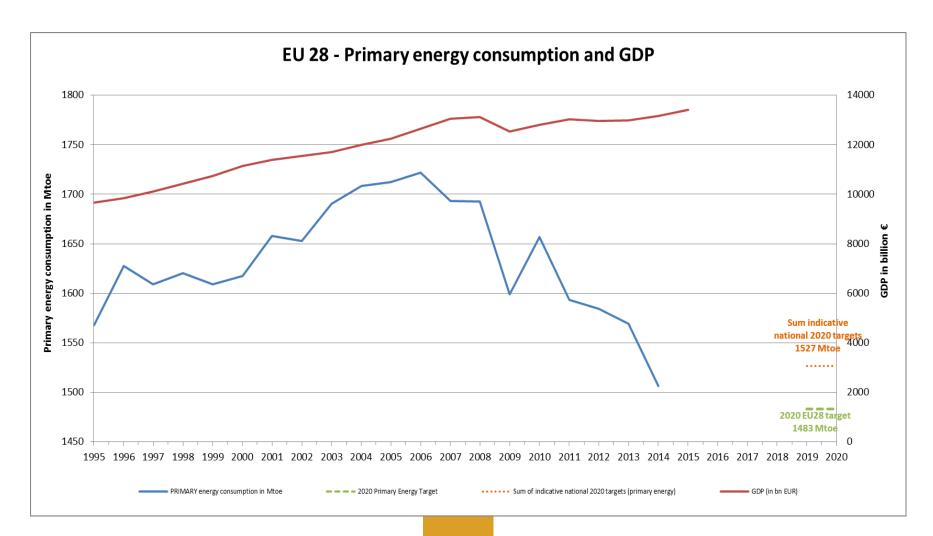


Energy efficiency myths

- It's only a dream
- It's only the economy

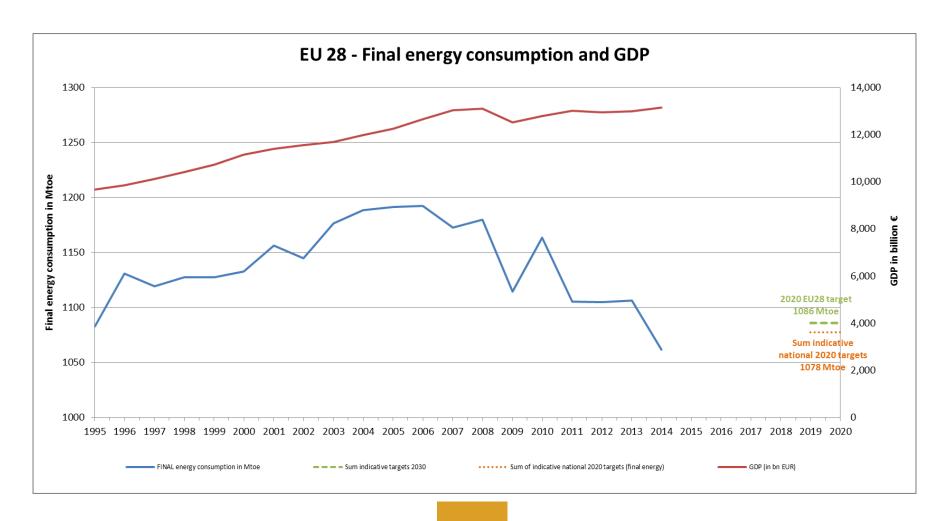


It's not a dream...



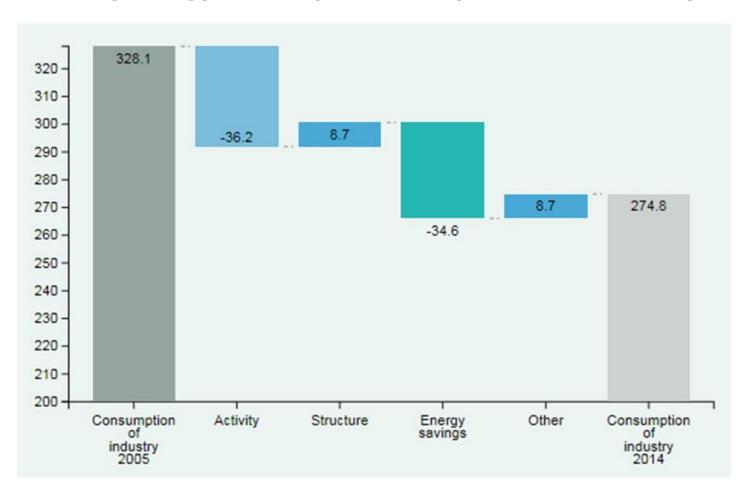


Energy efficiency happens





Variation industry energy consumption - European Union - Mtoe (2005-2014)

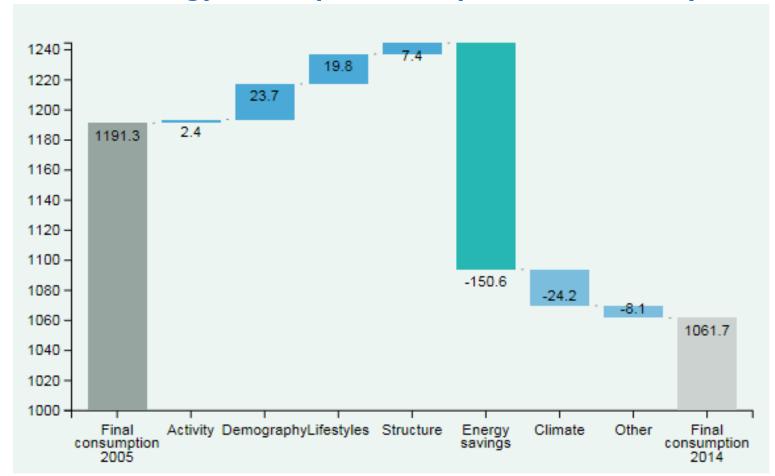


Source: Odyssee-Mure 5



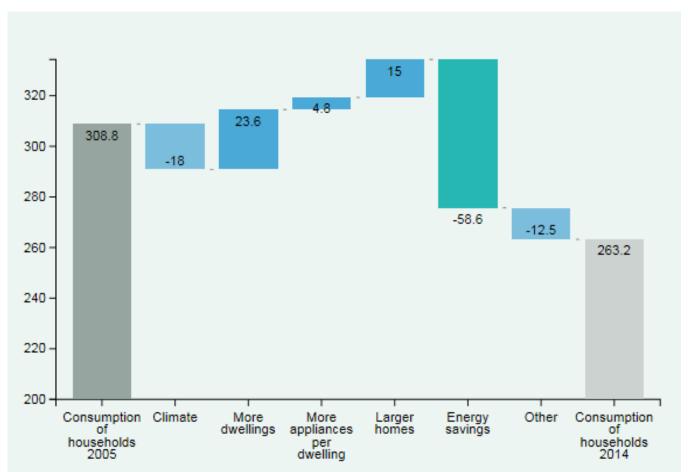
It's not only the economy...

Variation final energy consumption - European Union - Mtoe (2005-2014)





Variation residential energy consumption - European Union - Mtoe (2005-2014)



7



What is it about?

What is the cause of the progress that Europe is making in energy efficiency?

- Behavioural change?
- Voluntary upgrades?
- "Natural" turnover of capital assets?





The share of refrigerators meeting the highest energy efficiency labelling classes (A+ and above) increased from less than 5% in 1995 to 98% in 2014.



European industry is less energy intensive than American industry



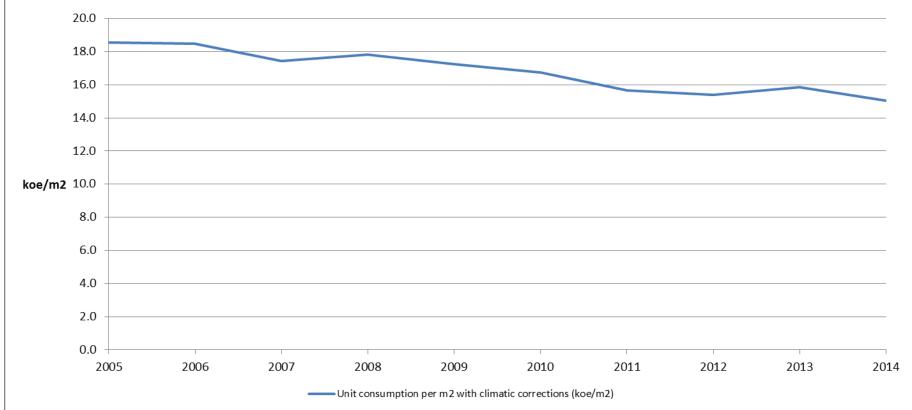
Between 1995 and 2014 the average consumption of new cars in the EU decreased by 34%.



New dwellings built today consume on average 40% less than dwellings built 20 years ago.



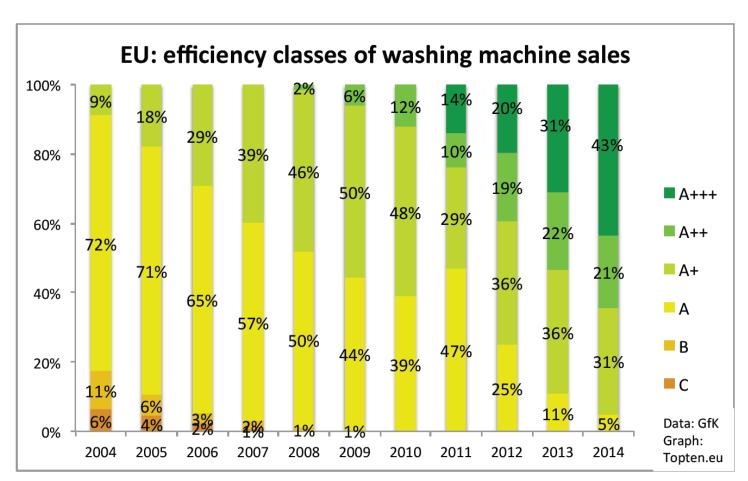
Final consumption of residential with climatic corrections per m2 with (koe/m2)



Source: Odyssee-Mure



Market transformation



Source: Top Ten EU



Where lies the potential after 2020?

- low hanging fruits are already picked (large efficiency gains in energy intensive products and industrial processes)
- buildings renovation rates stay low due to high upfront capital investment and long payback periods and other barriers (split incentives)

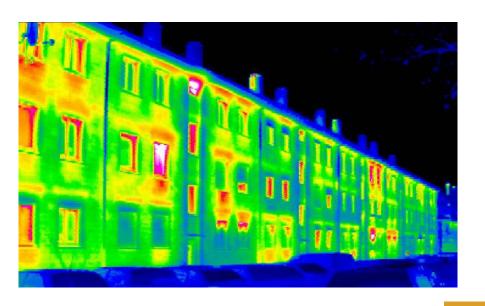


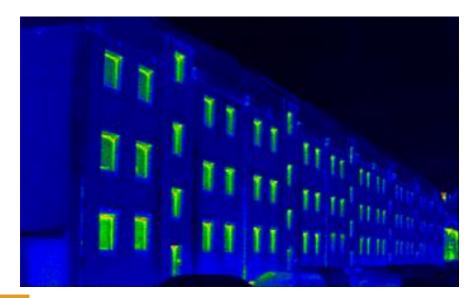




Buildings renovation, a key sector

Buildings are responsible for 40% of the EU energy consumption 40% of our building stock was built before the 1970s, when no energy performance standards were used low demolition rates (0.1% p.a.), low refurbishment rates (1% p.a.)







Barriers to Energy Efficiency financing

- High upfront investments and sometimes long payback periods
- Lack of evidence on performance data
- Fragmentation/ transaction costs/ lack of standardisation
- Complexity of financing and preparing projects
- The market is not "readable" for financiers, not "visible" for investors
- Financing products do not reflect the EE fundamentals



FINAL REPORT

covering Buildings, Industry and SMEs

February 2015

http://www.eefig.eu/index.ph
p/the-eefig-report



EEFIG recommendations, the most imminent challenges to overcome:

Driving Demand Managing Uncertainty Distribution and Aggregation Blending Grants and Loans **Accounting Treatment**



Smart Finance for Smart Buildings: 3 Pillars

More effective use of public funds

Assistance and aggregation

De-risking

Deploying Financial Instruments and innovative business models to attract private finance



Supporting the project pipeline at EU and local level Understanding the risks and benefits for financiers and investors





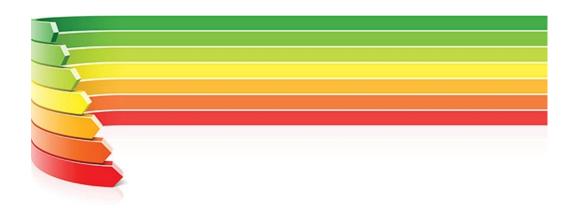


Sustainable Energy Investment Forums

A series of regional and national events to:

- 1. Create momentum on sustainable energy finance
- Building capacity on developing and sustainable energy investments
- 3. Create an EU networking on sustainable energy investments and financing





Paul Hodson

Paul.Hodson@ec.europa.eu DG ENER, Unit C3, European Commission

Website: http://ec.europa.eu/energy/efficiency/index_en.htm