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RENOVATE EUROPE DAY 2016  
Setting the EU vision: NZEB Building Stock  
by 2050  
The answer to boost EU jobs, growth and  
SMEs

## **Energy Efficiency** "The new directive, architecture and key novelties"

Brussels, 13 October 2016

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

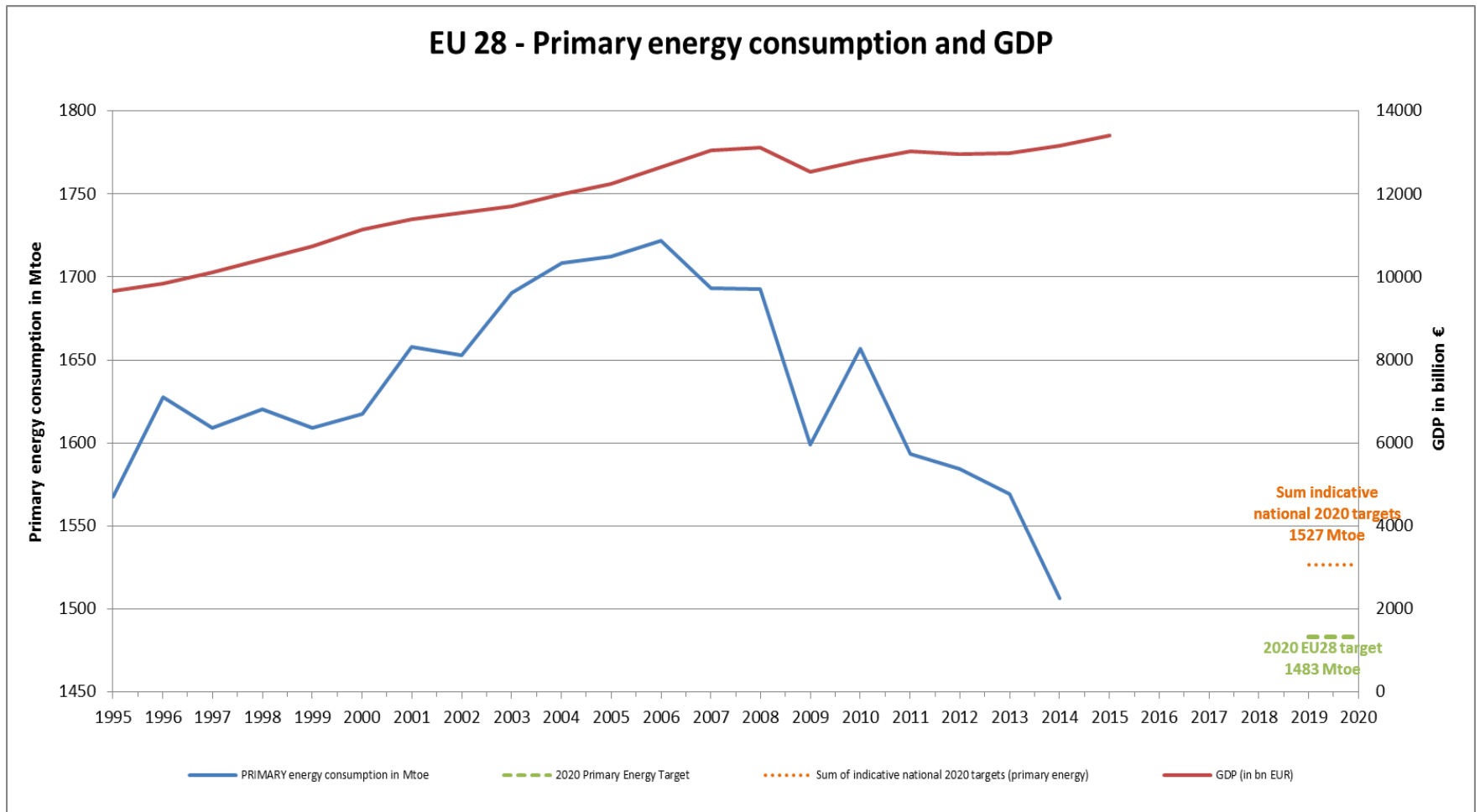
# Energy efficiency myths

- It's only a dream
- It's only the economy
- It's only a question of investment



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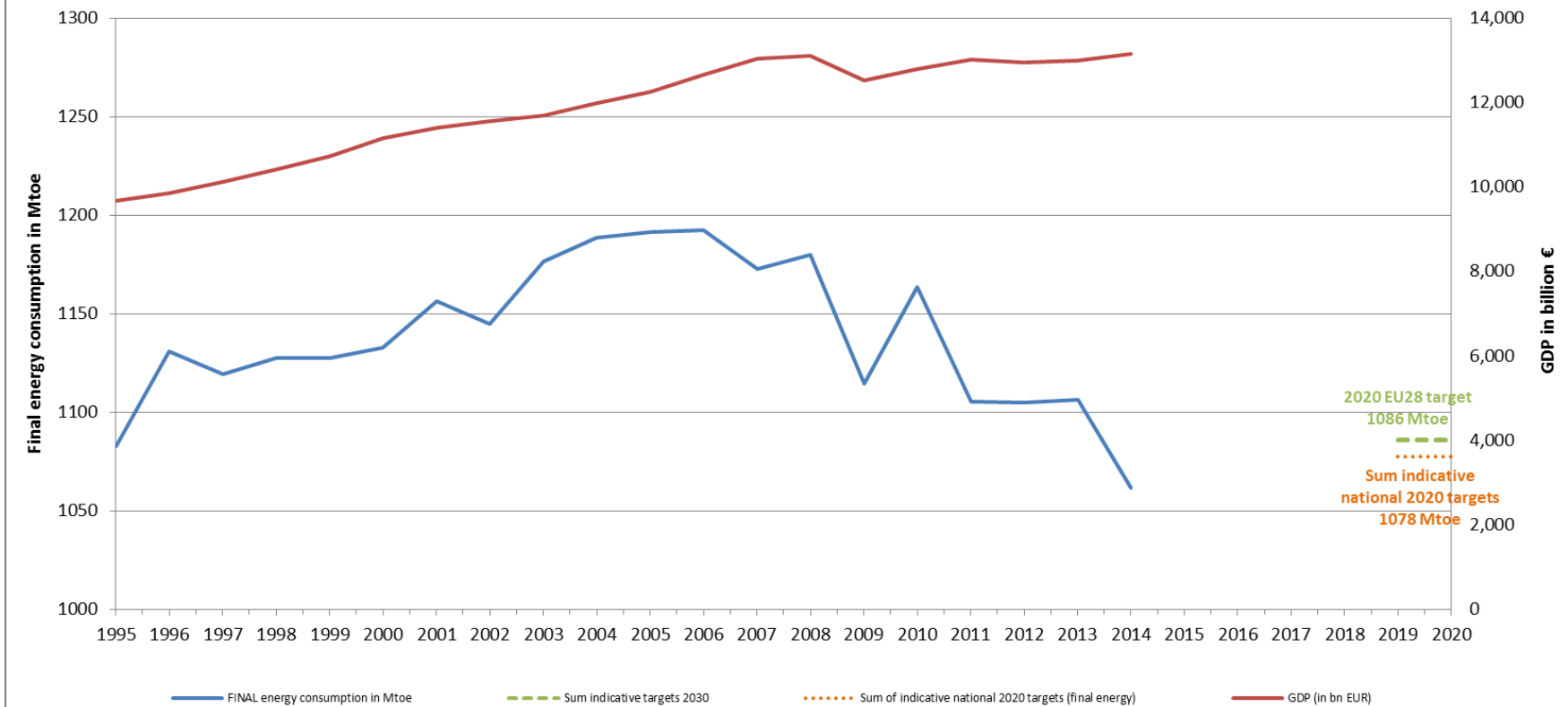
# It's not a dream...



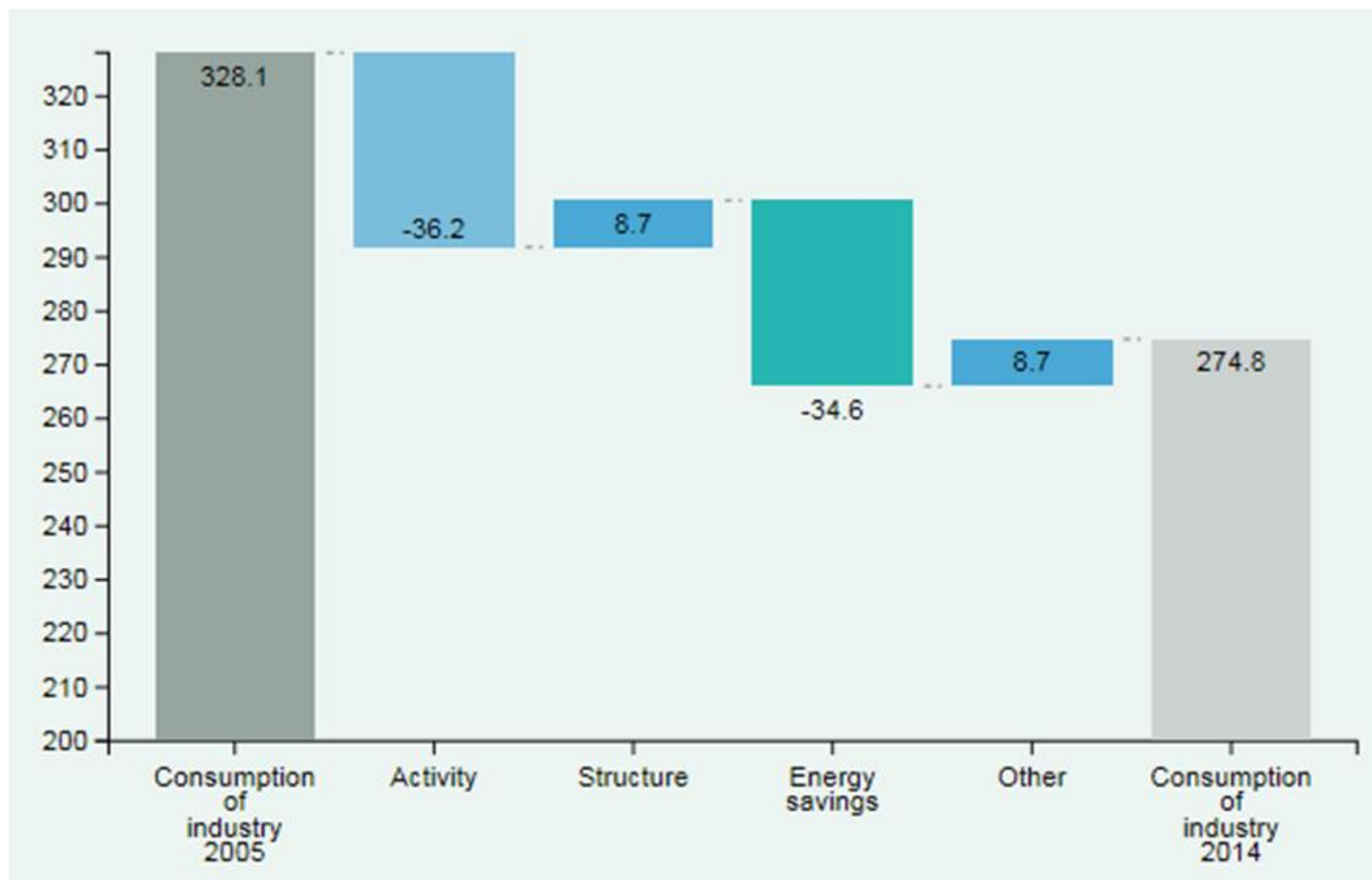


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## EU 28 - Final energy consumption and GDP



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

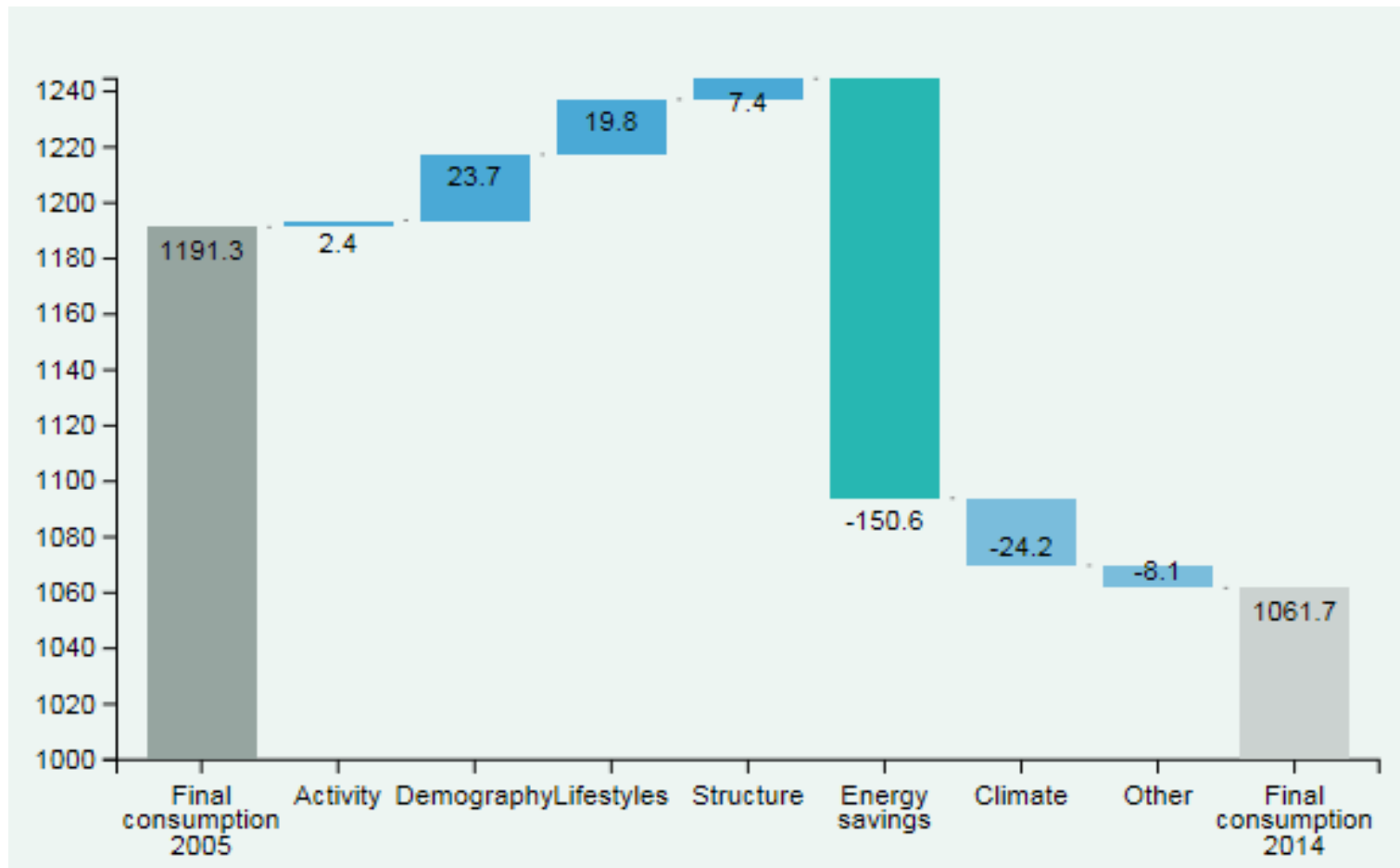




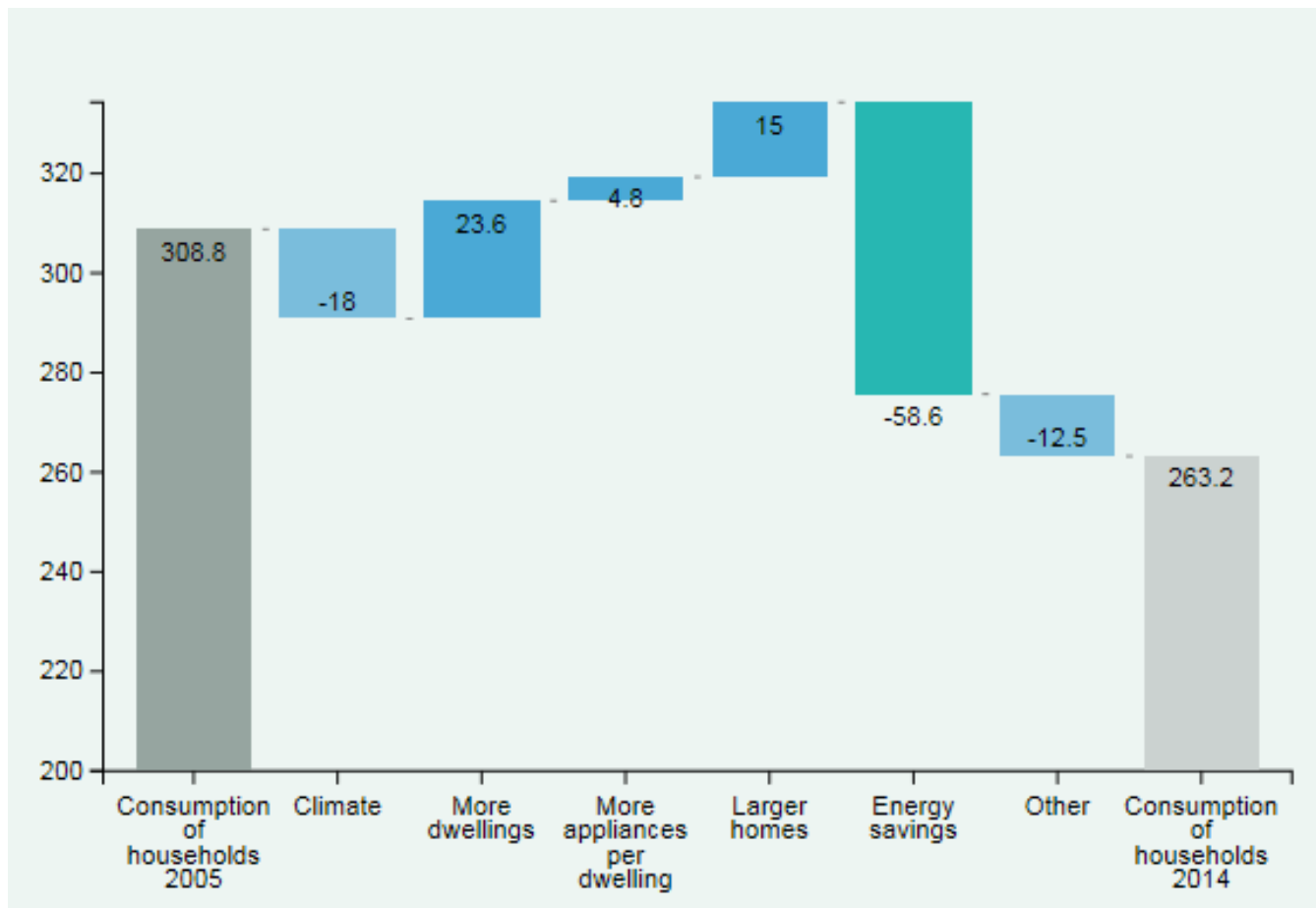
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## It's not only the economy...

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



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

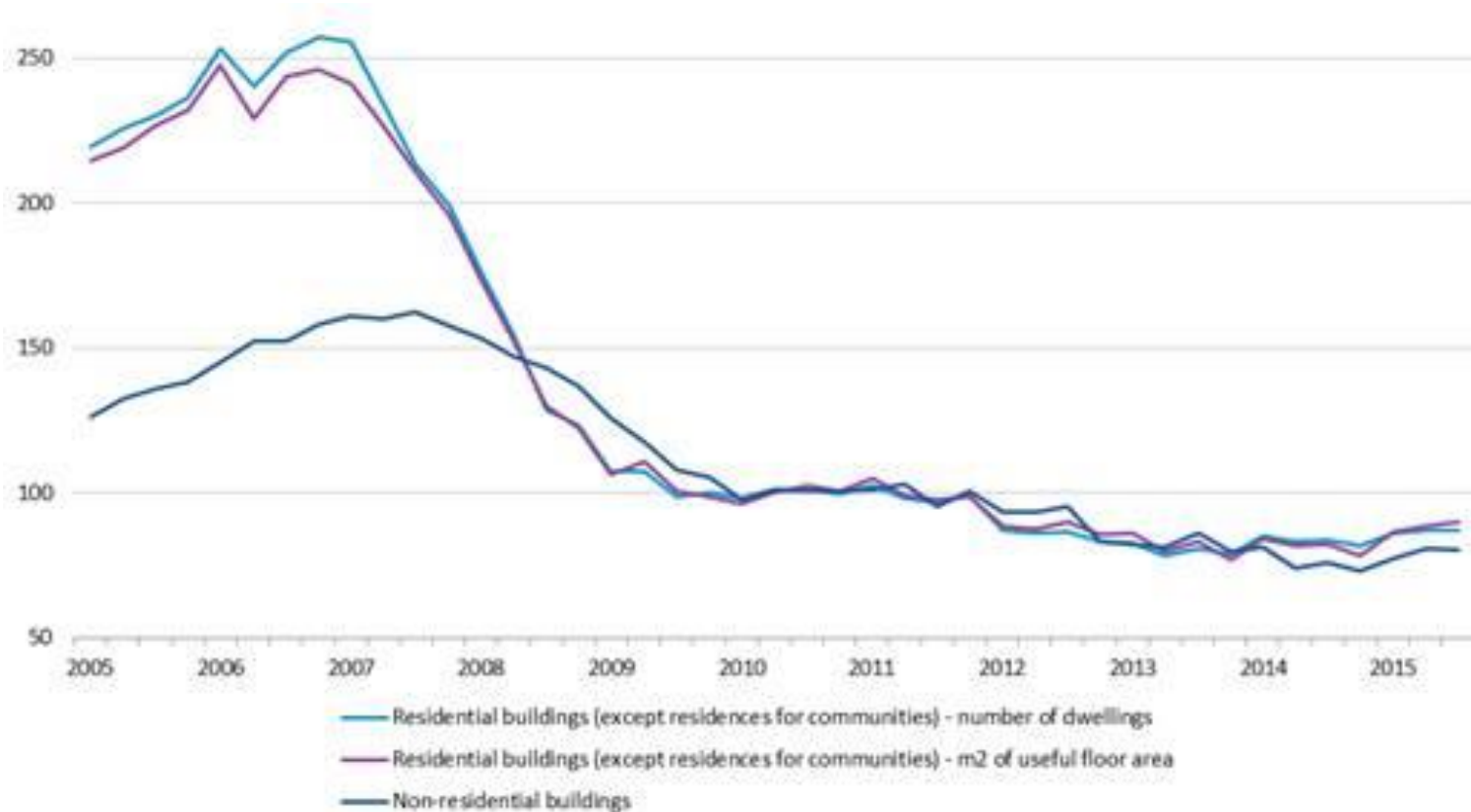




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## It's not all about investment...

Building permits index (2010=100)

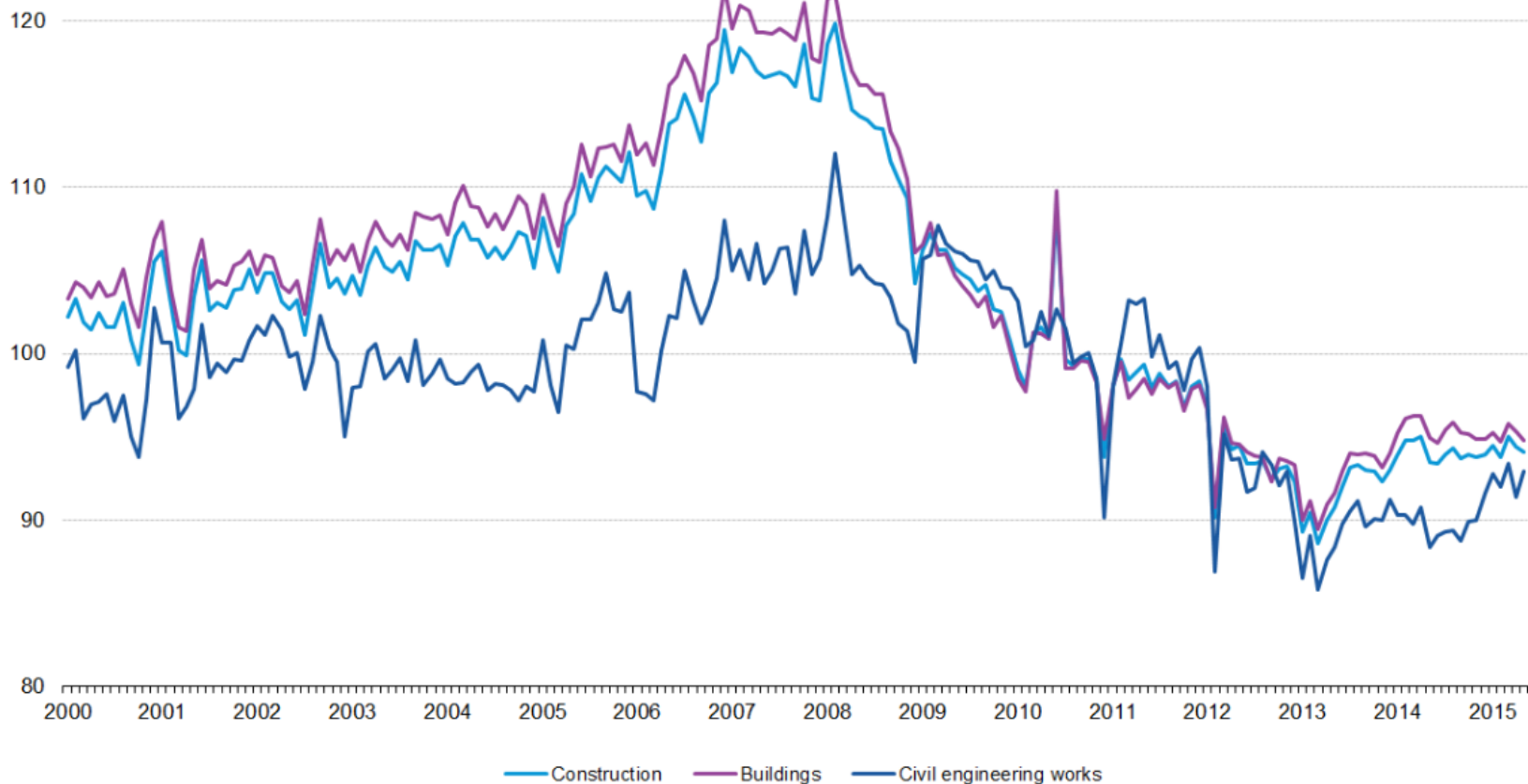






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## Total construction, buildings and civil engineering activity index (2010=100)



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?



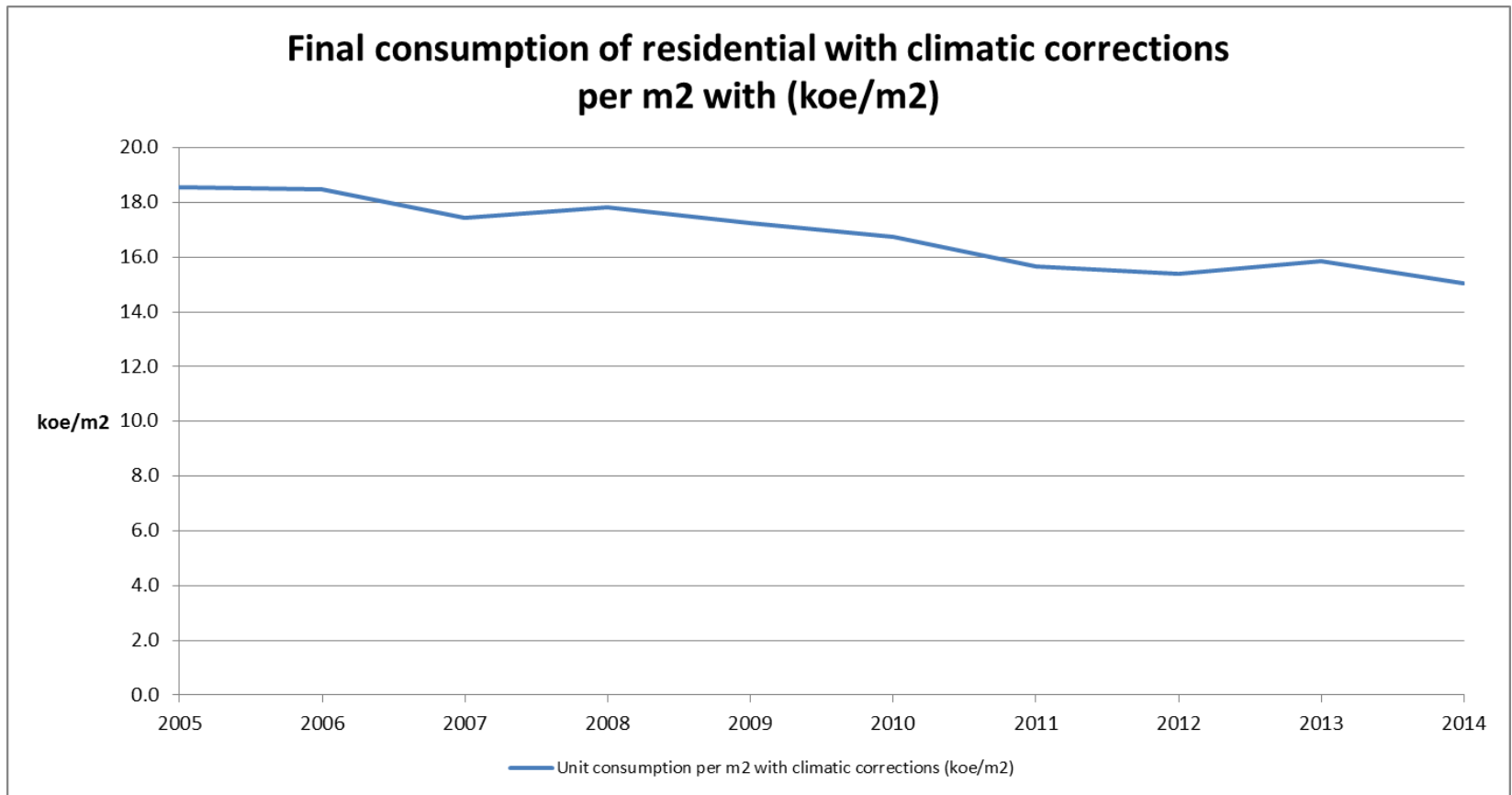
The share of refrigerators meeting the highest energy efficiency labelling classes (A+ and above) increased from less than 5% in 1995 to 98% in 2014.



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



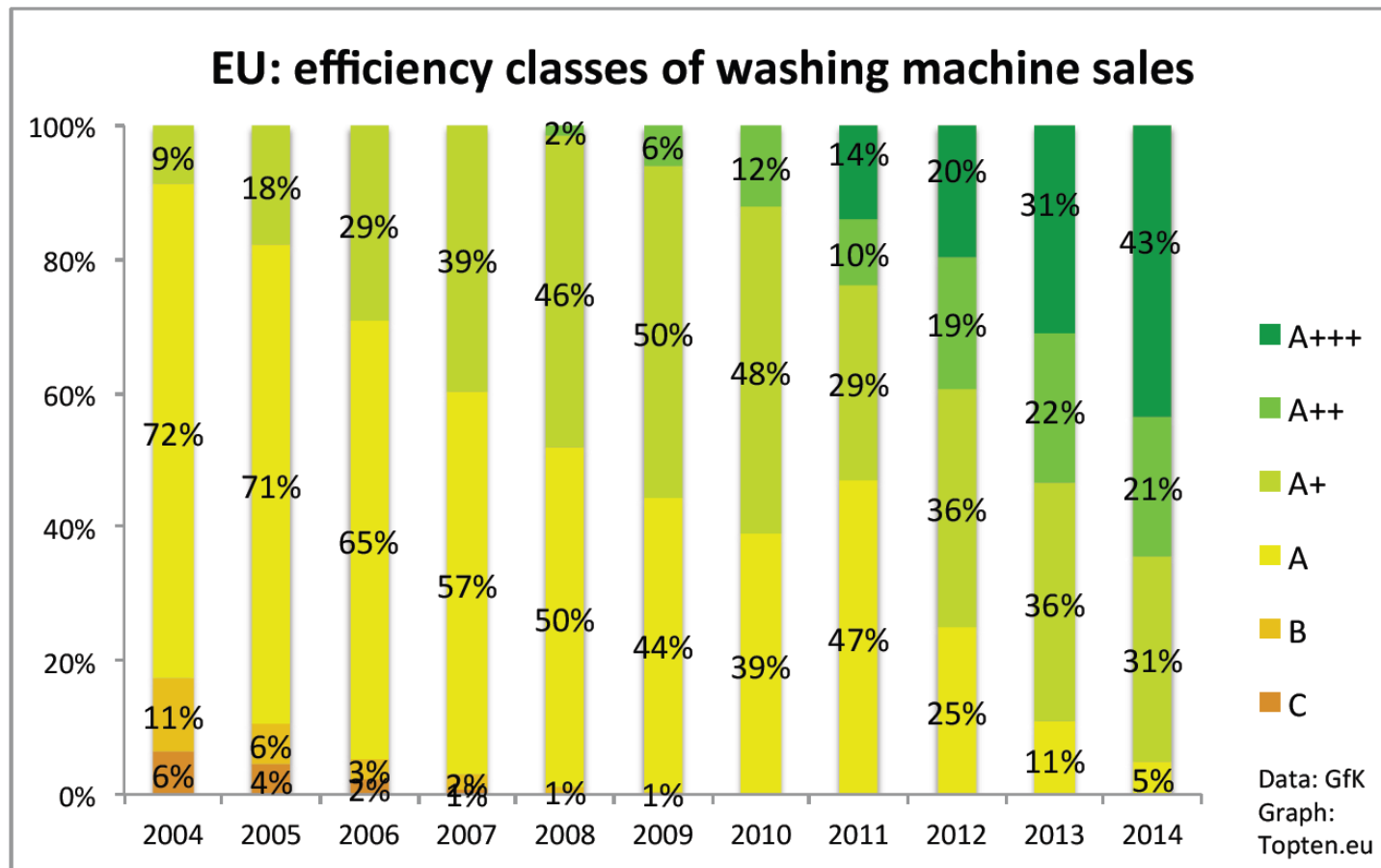
New dwellings built today consume on average 40% less than dwellings built 20 years ago.

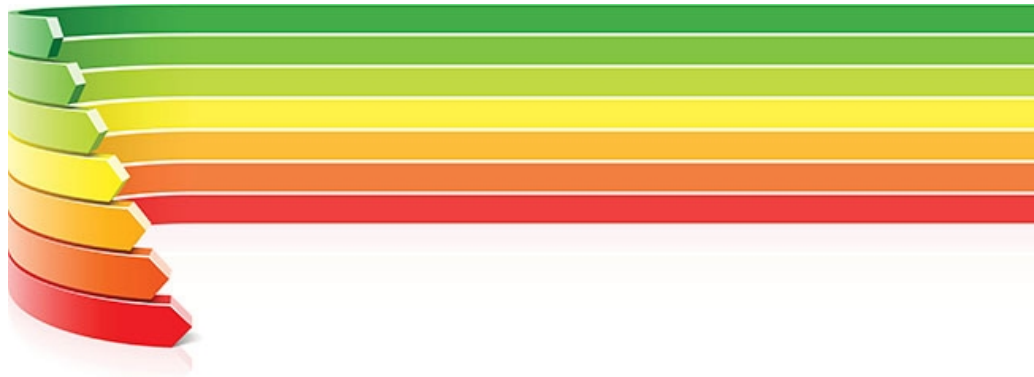




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# Market transformation





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