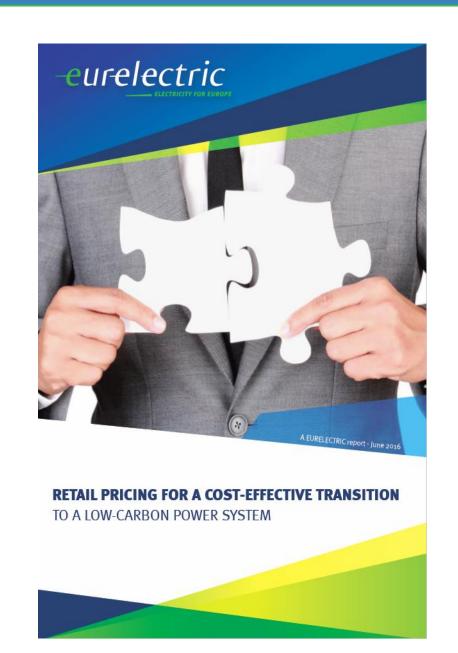
consumer
in the energy
market & the
role of
innovative
retailers

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Hong Kong, 23rd November 2016



EURELECTRIC represents the EU electricity industry – all across the electricity value chain

ENERGY POLICY& GENERATION

ENVIRONMENT & SUSTAINABLE DEVELOPMENT

MARKETS

DISTRIBUTION NETWORKS

RETAIL CUSTOMERS









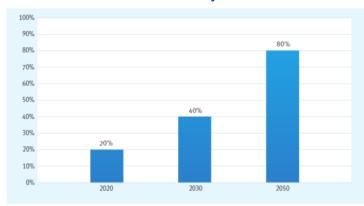




The European decarbonisation agenda brings a new reality to the European power system...

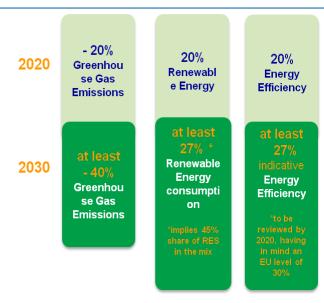
Long term EU 2050 Roadmap

GHG emission reduction objectives of the EU



Source: EURELECTRIC

2030 Energy & Climate Framework



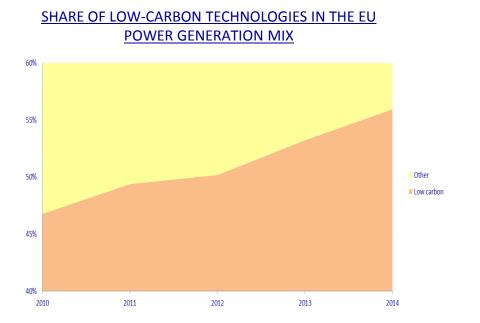
- Impact Assessment mentions "limit global temperature rise to below 2°
- EUCO "will revert to this issue after the Paris Conference"

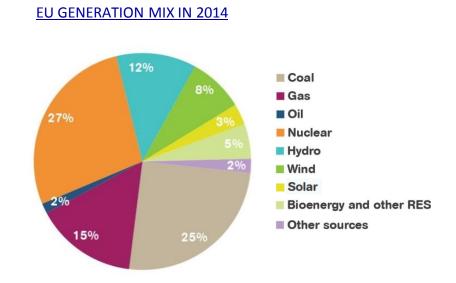
...and the Paris Agreement will probably speed up that process

- Art. 2(1a) speaks of "well below 2°C" and "to pursue efforts to limit [the increase] to 1,5°C"
- The Provisions in the Paris Agreement make it probable that the EU's GHG ambition will be updated before 2030

^{*} RM refers to COP15 where "world leaders agreed that global average temperature should not rise more than 2°C"

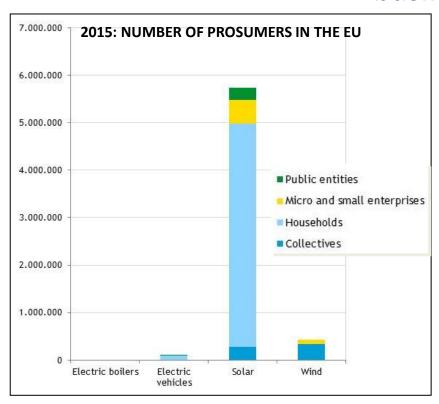
Low-carbon technologies represent 56% of EU electricity generation

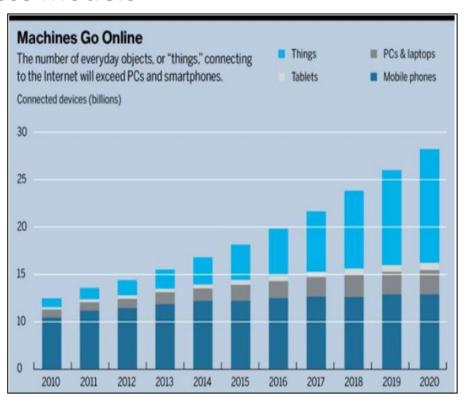




- → Low-carbon technologies contribute to more than 50% of EU power generation since 2012.
- → decreasing share of fossil fuels in the power mix and a decrease in demand are contributing to a decline in the CO₂ emissions in the power sector

The DECARBONISATION challenge comes in combination with further DECENTRALISATION and DIGITALISATION as key drivers for new business models



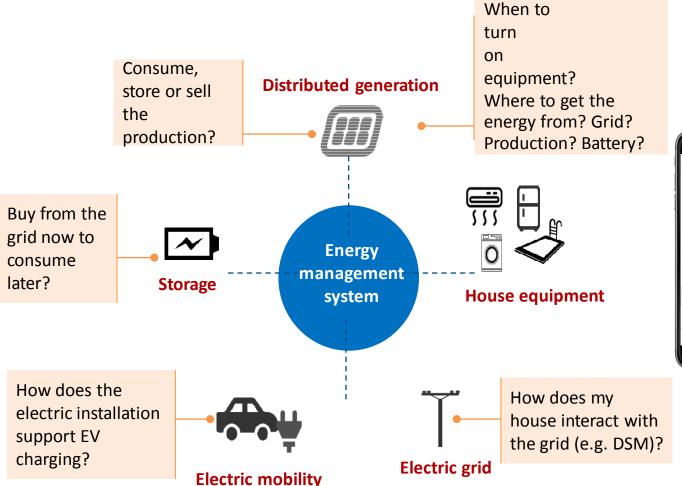


SOURCE: CE Delft Energy Citizens in the European Union Sept 2016

SOURCE: MIT technology review



Self-consumption models will drive innovation





Retailers are bringing to customers the technologies that will be part of the new power system













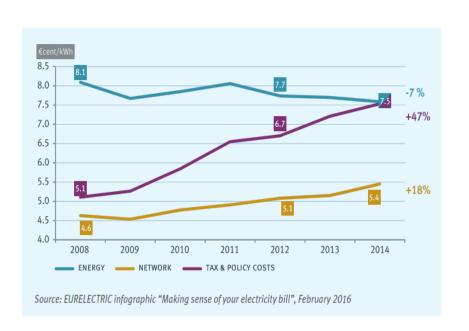






Retail pricing needs to be modernized for a sustainable power system transition

The "WEDGE"



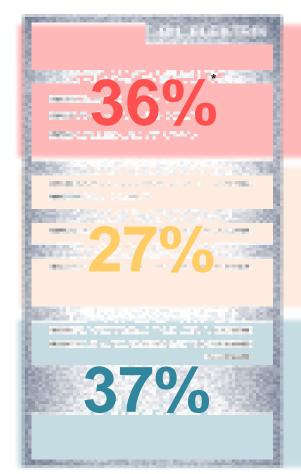
The "MISMATCH" **Volumetric Fixed** € 5.4 cents /KWh

POLICY SUPPORT COSTS WEIGHT ON THE BILL

MISMATCH BETWEEN THE NATURE OF REGULATED COSTS & THE WAY THEY ARE CHARGED

(MOSTLY) PAID IN

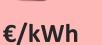
ACTUAL COSTS IN























kW

ENERGY



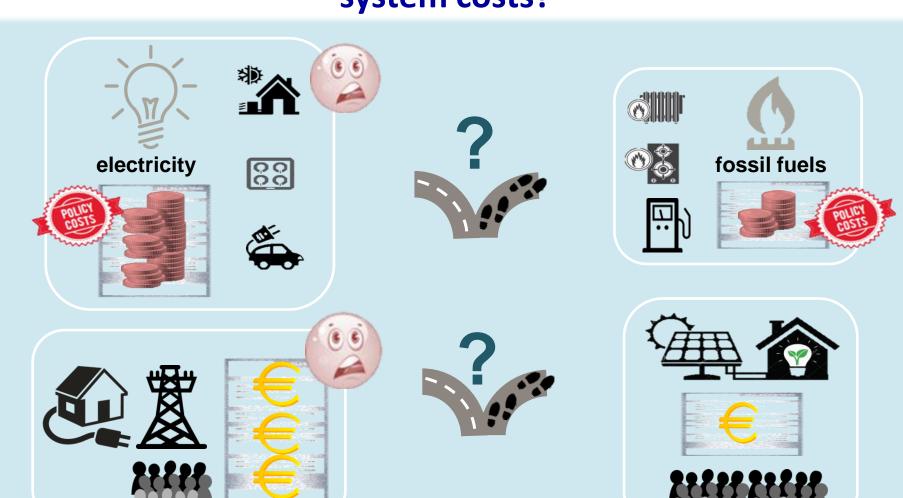


€/kWh

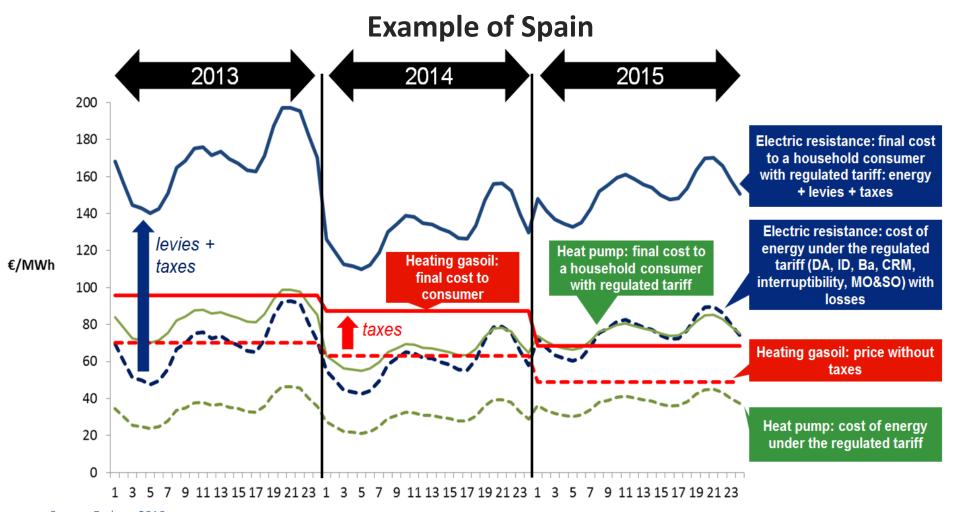


*2014 data, source: EURELECTRIC

What is the impact on consumer choices and overall system costs?



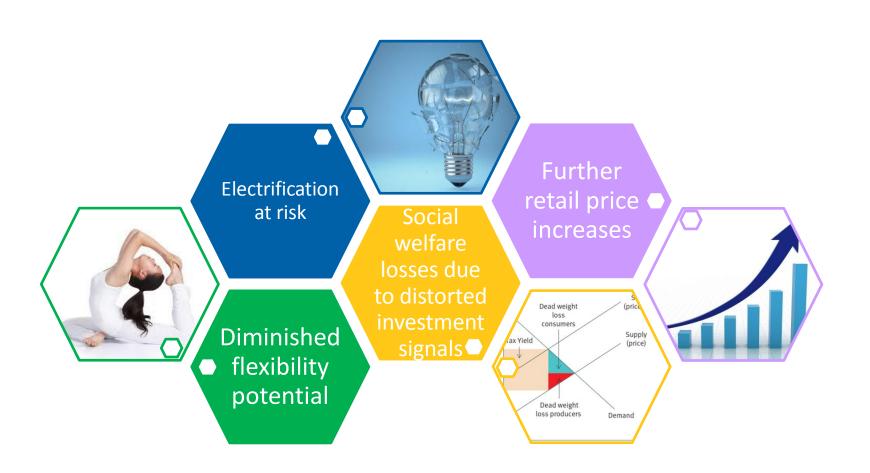
The WEDGE: Reduce taxes & levies in consumers' bills to increase the competitiveness of electricity vs fossil fuels



Source: Endesa, 2016



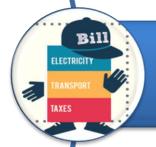
The mispricing created by 'WEDGE' and the 'MISMATCH' is generating system inefficiencies



So how do we get there?



Clean up the bill: Bring down policy support costs in the electricity bill and finance decarbonisation in a less distortive way



Improve retail price structures: Ensure that 'regulated charges' better reflect the underlying costs



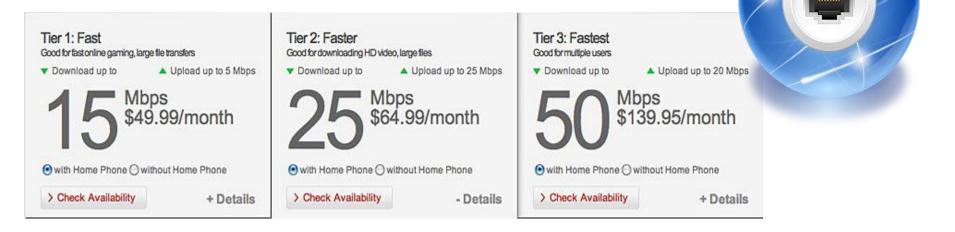
Value electricity injected to the grid by prosumers at its real value on a level playing field

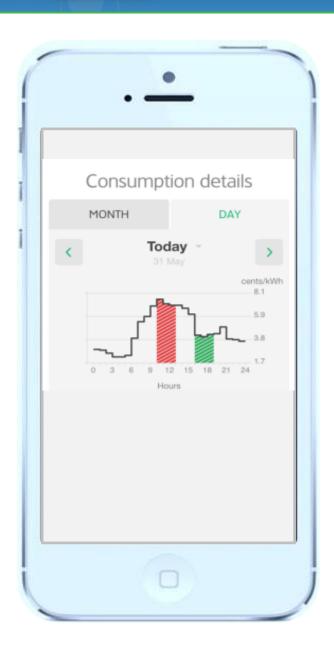


Telco trend in the energy sector?

On the longer term, will electricity follow the telco/ICT trend in price structures?

Illustrative example:





Thank you for your attention!