Implementing the Efficiency First principle in the UK

Eceee Summer Study, Belambra Presqu'île de Giens

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Progress and potential
Household energy use down

Gas use

Electricity use

Source: ECUK (2017)
Energy efficiency key driver


Source: ODYSSEE (2018)
Potential to more than halve UK home energy use

Source: Rosenow et al. (2018)
Benefits of Efficiency First
Value of MWh electricity savings for power system

Germany

Source: Neme et al. (2014)

Vermont

Multiple Benefits of EEOs Accrued to Vermont Energy Provision Chain in 2010, Expressed as Levelised USD/MWh

Source: Lees and Bayer (2016)
Synergies between renewable energy and energy efficiency
3 Implementation options
Brussels freezes UK back-up power subsidy scheme

European court judgment imposes standstill period on capacity market
Reform the levy control framework

Price changes before 2008 resulted from wholesale energy costs and networks, not climate policy.

Without energy efficiency, price changes since 2008 would have pushed bills up to £1,460.

Reduced consumption since 2008 cut bills by £290 to £1,160.

Source: CCC (2017)
About RAP

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