



Use of Gas for Power Generation






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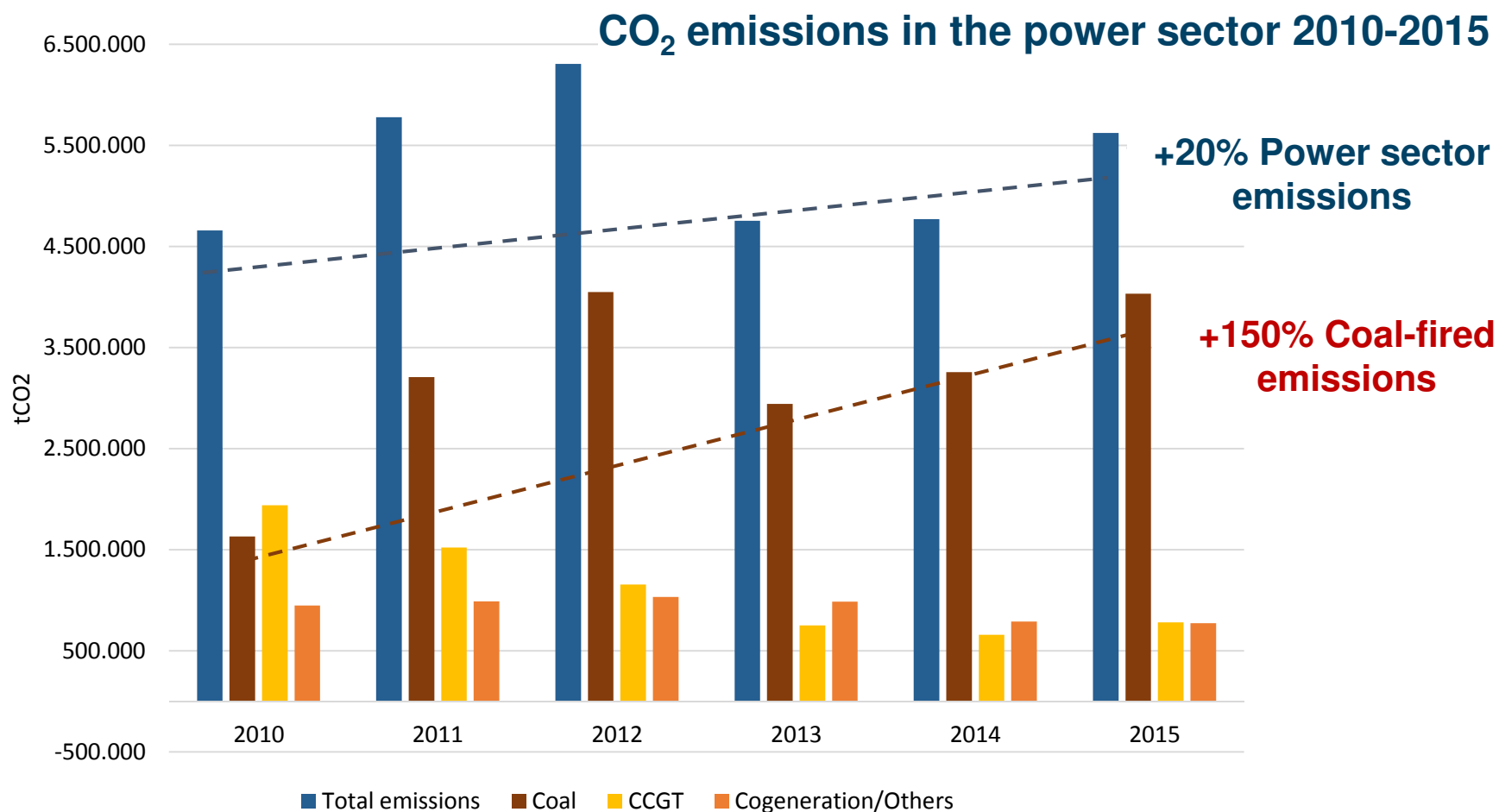
Natural gas for power generation

EU Energy & Climate Targets

Goal	Objective	2030 Target	Scope
 Global emissions	Global Emission Reduction vs. 1990	40%	European: binding target (National subtarget for non-ETS sectors)
 non-ETS sector emissions	Reduction of non-ETS sector emissions vs. 2005	30%	
 ETS emissions	Reduction of ETS sectors Emissions vs. 2005	43%	
 Energy Efficiency	Primary Energy Reduction vs. consumption path estimated in 2007	27% (30%?)	Europe: indicative target
 Renewables	Final Energy demand from RES	27%	Europe: binding target

We should expect a significant role of natural gas in the power sector due to its low emissions and technical performance

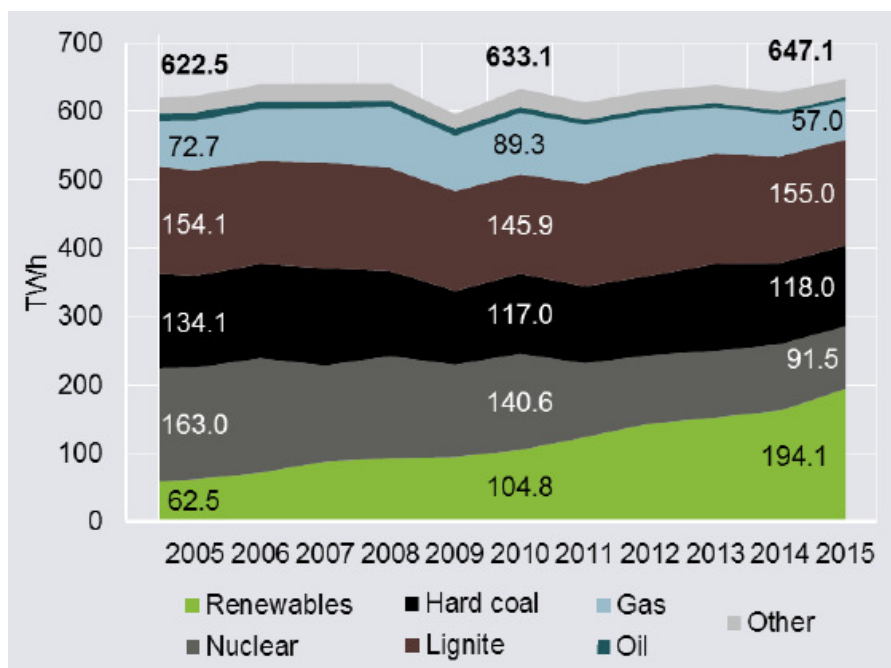
Example 1: SPAIN



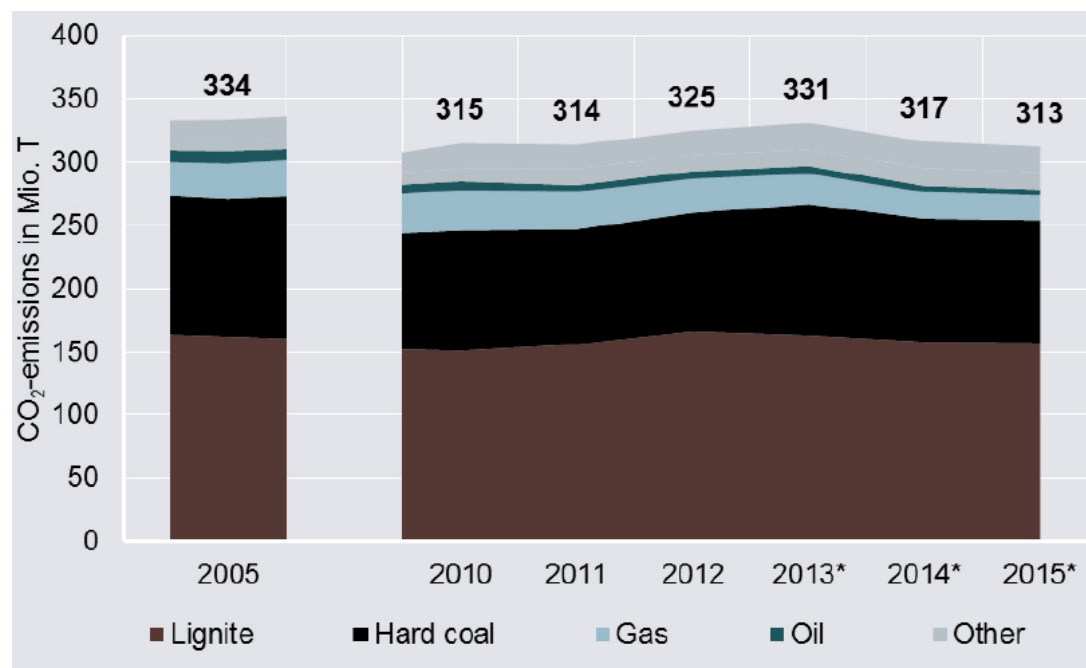
- **Despite the costly deployment of renewable energy sources, power sector emissions have increased**
- **The increased use of coal and the decreased use of natural gas for power generation offset the carbon emissions reduction!!**

Example 2: GERMANY

Power Production Development 2005-2015



CO₂ emissions in the power sector 2005; 2010-2015



In the last ten years, emissions from power sector remain almost stable

- **Coal based power production has reduced by 5%.**
- **Polluting lignite production has even grown slightly**
- **Conversely, natural gas has been reduced more than 20%**

Muchas gracias

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