



BP Statistical Review of World Energy June 2011

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2010 – Energy Rebounds

Mark Finley, GM Global Energy Markets & US Economics

Outline



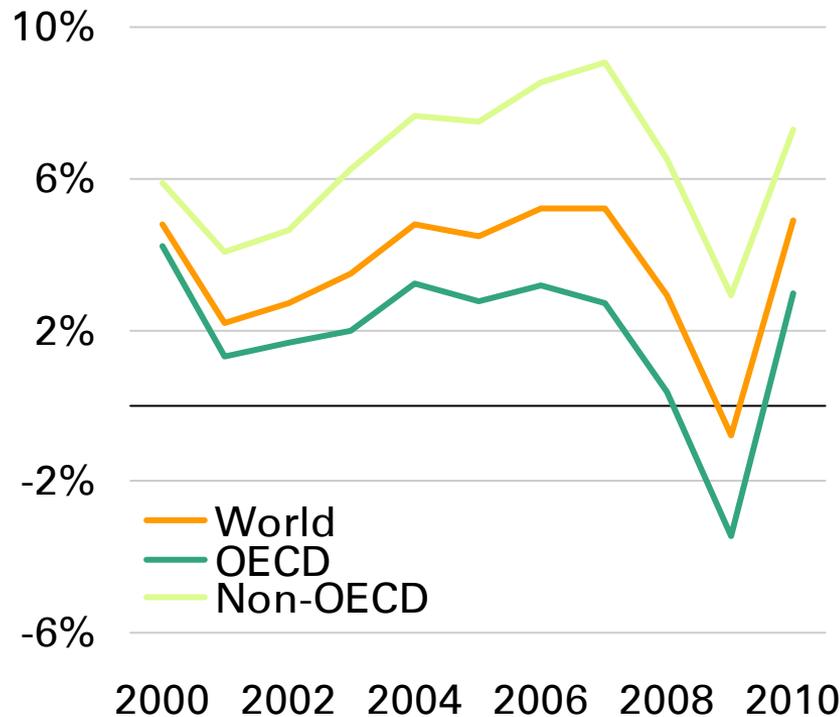
- Introduction
- Energy and the economy
- Fuel by fuel
- Conclusion



The economy and energy demand

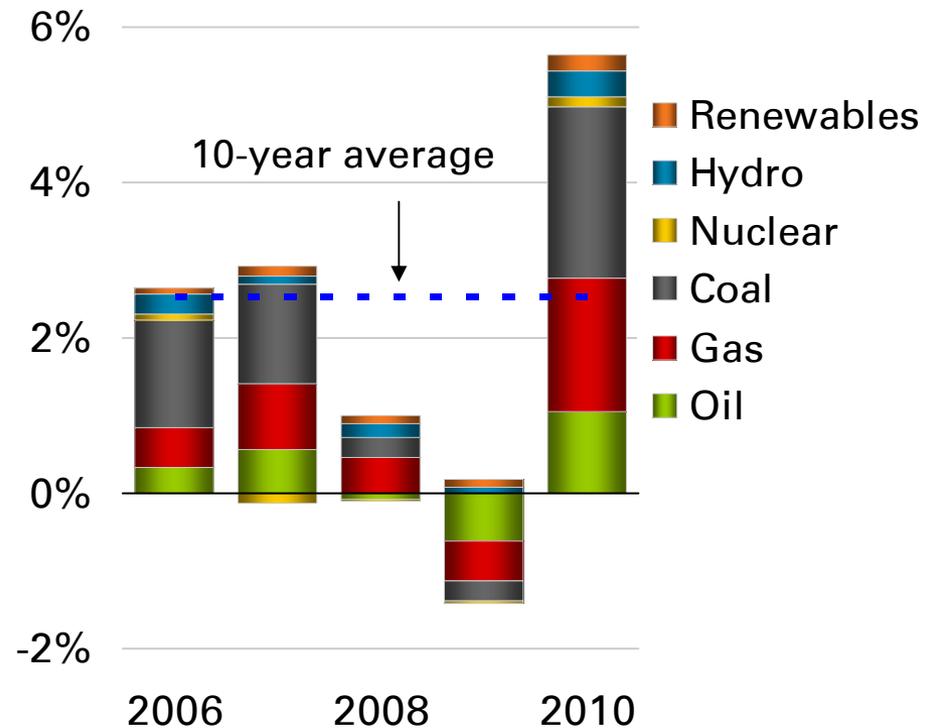
GDP

Annual change, %

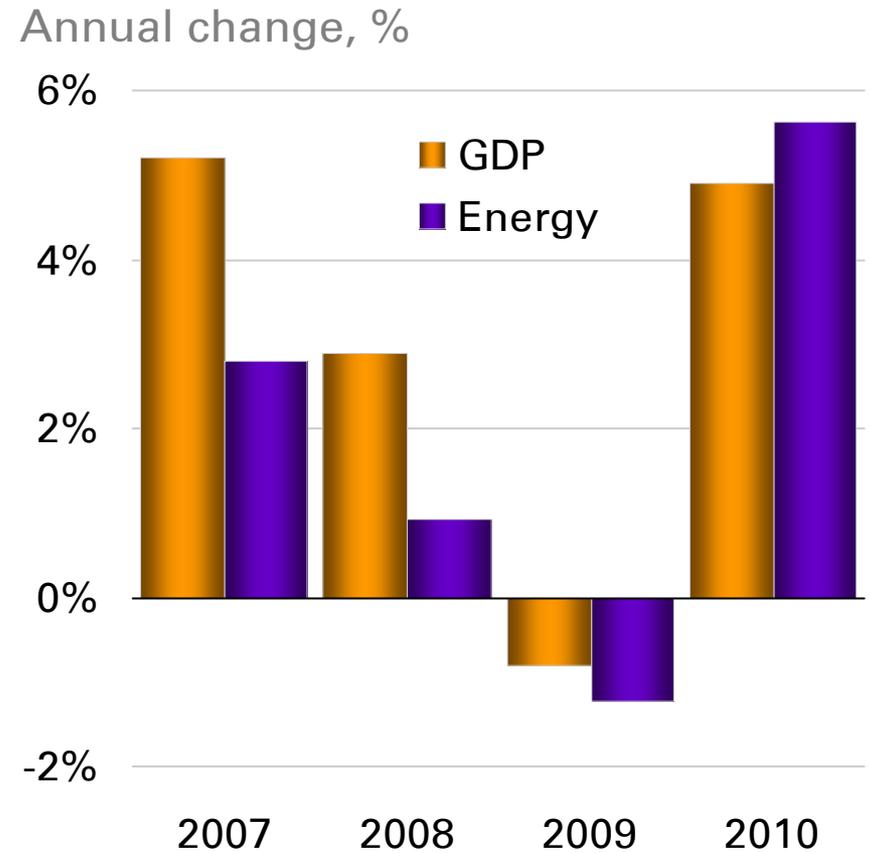
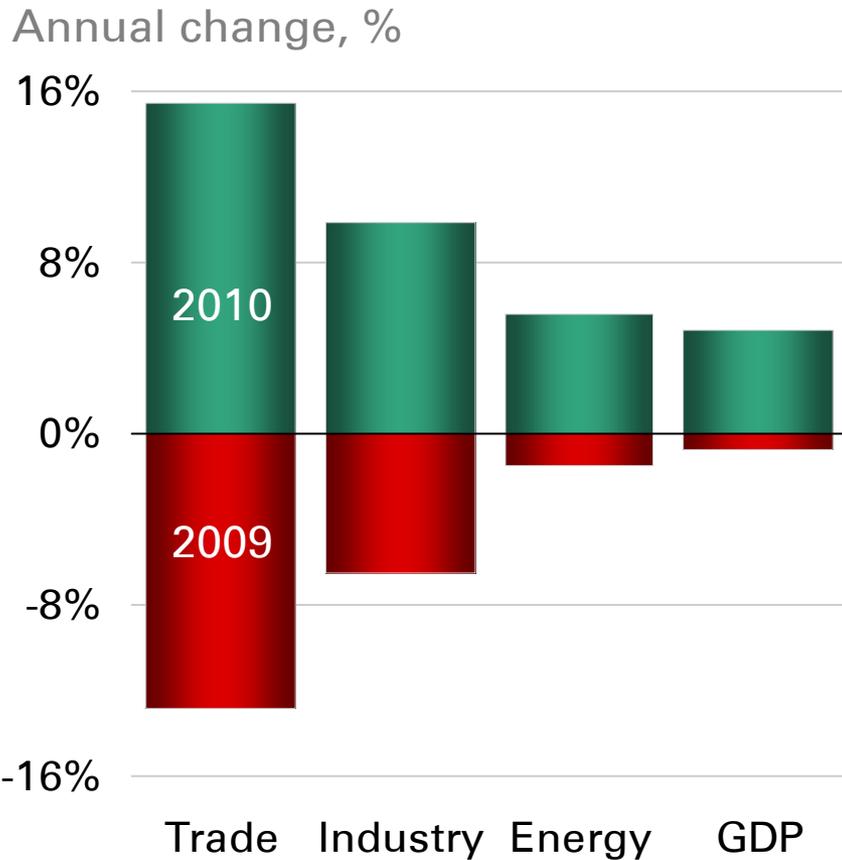


Energy

Annual change, %



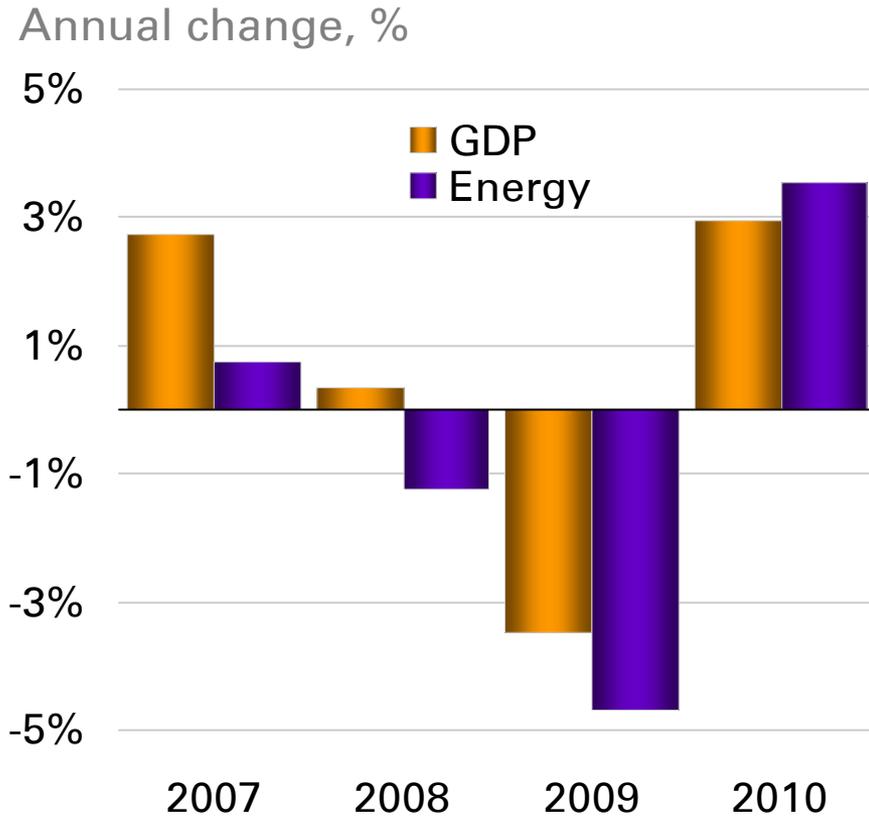
Recession and recovery



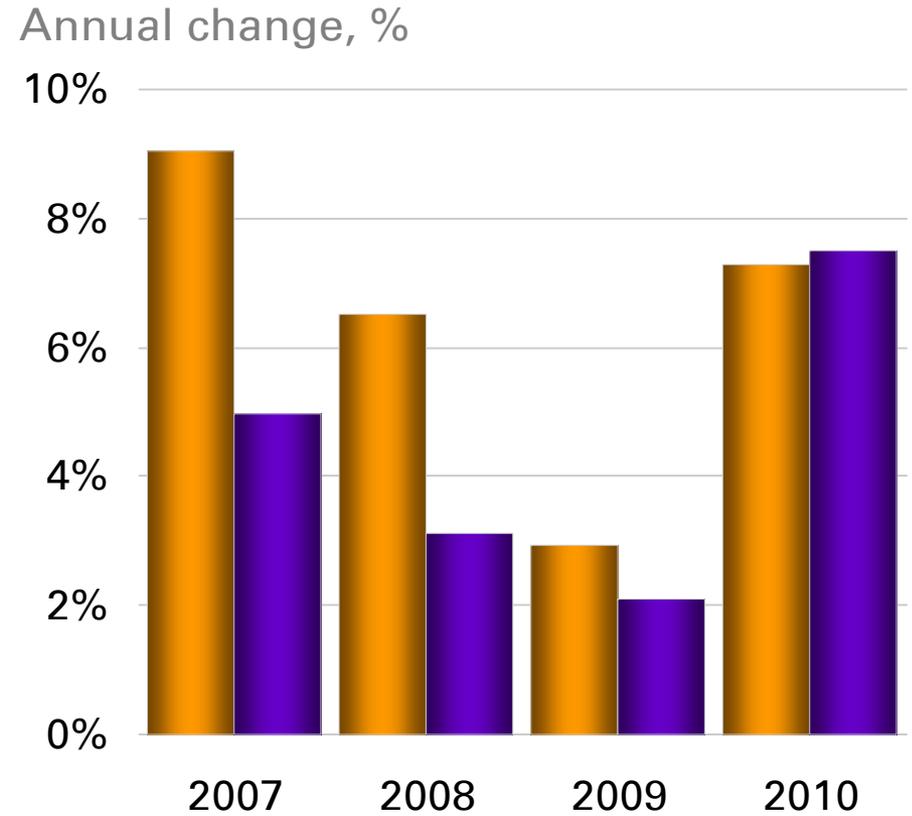
GDP and energy growth



OECD



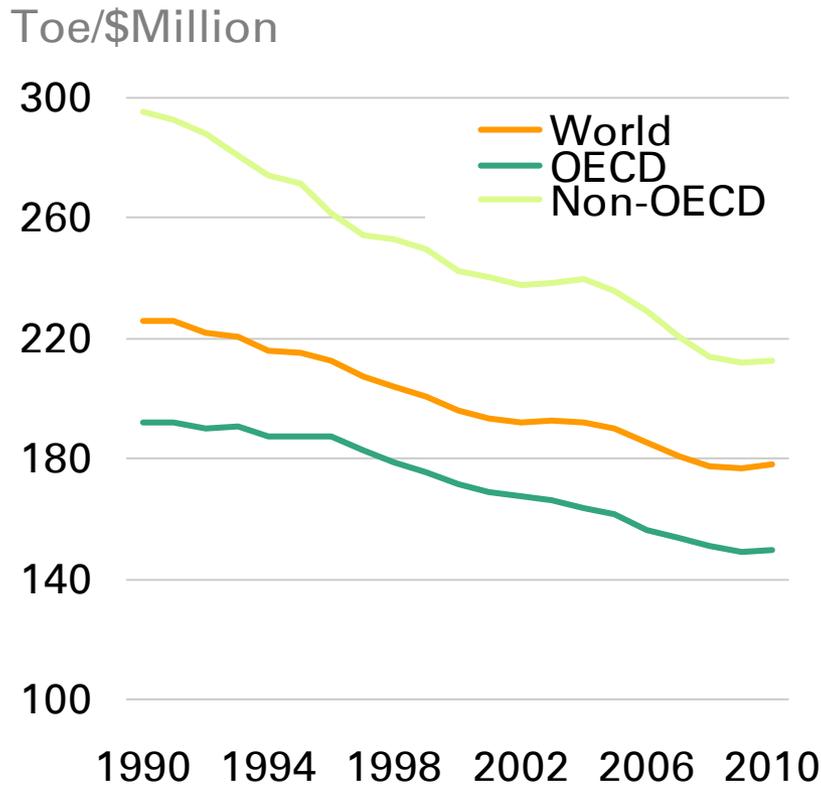
Non-OECD



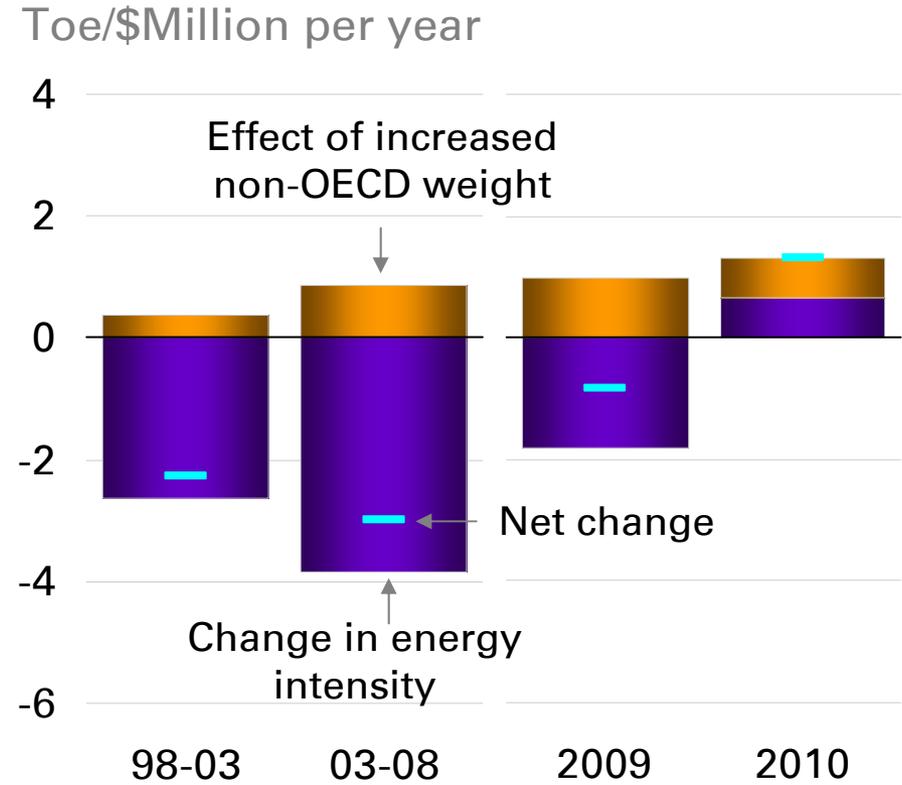
Energy intensity



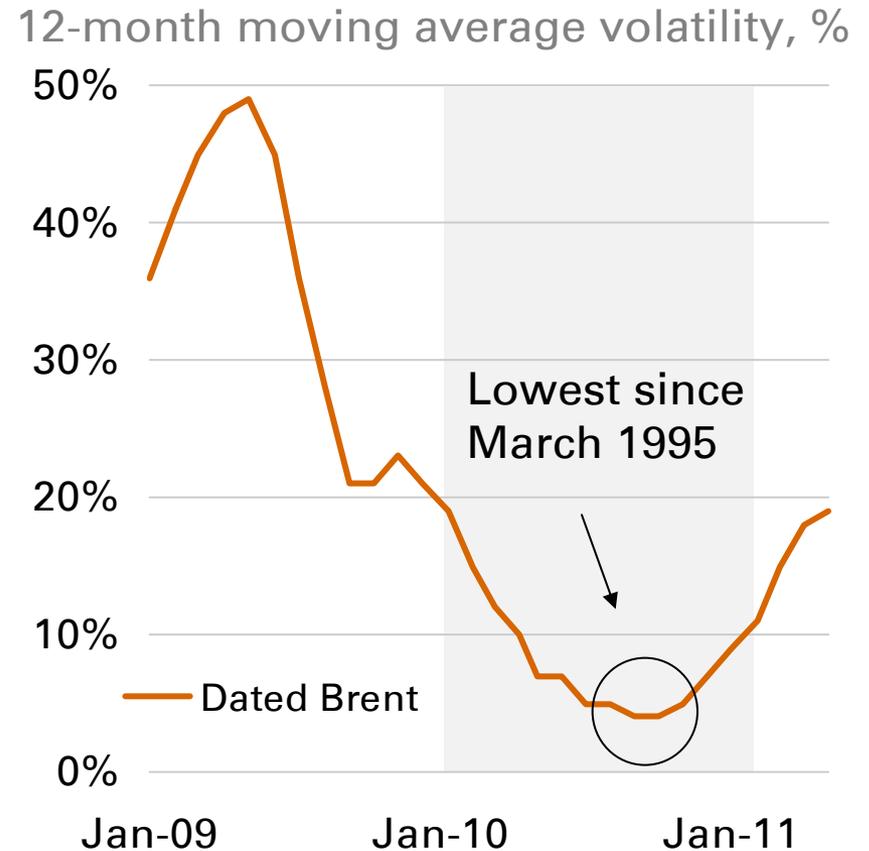
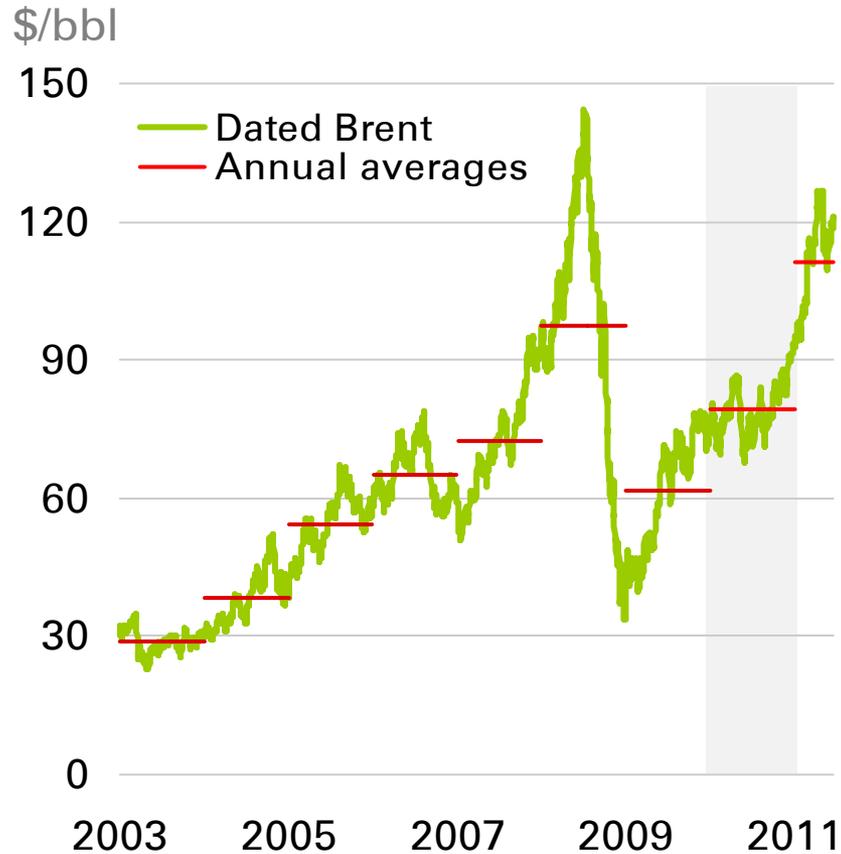
Energy intensity level



Change in energy intensity



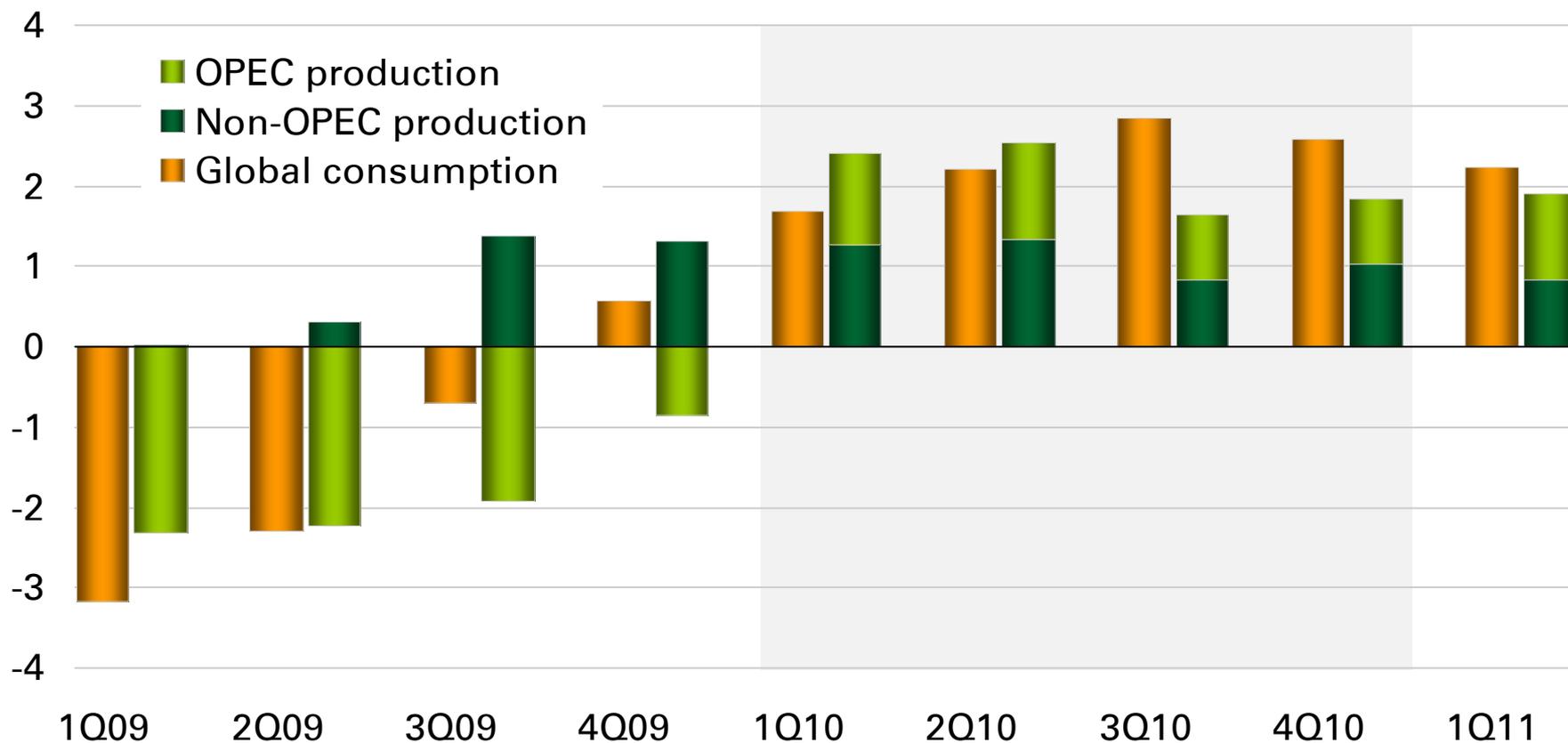
Crude oil prices



Oil consumption and production



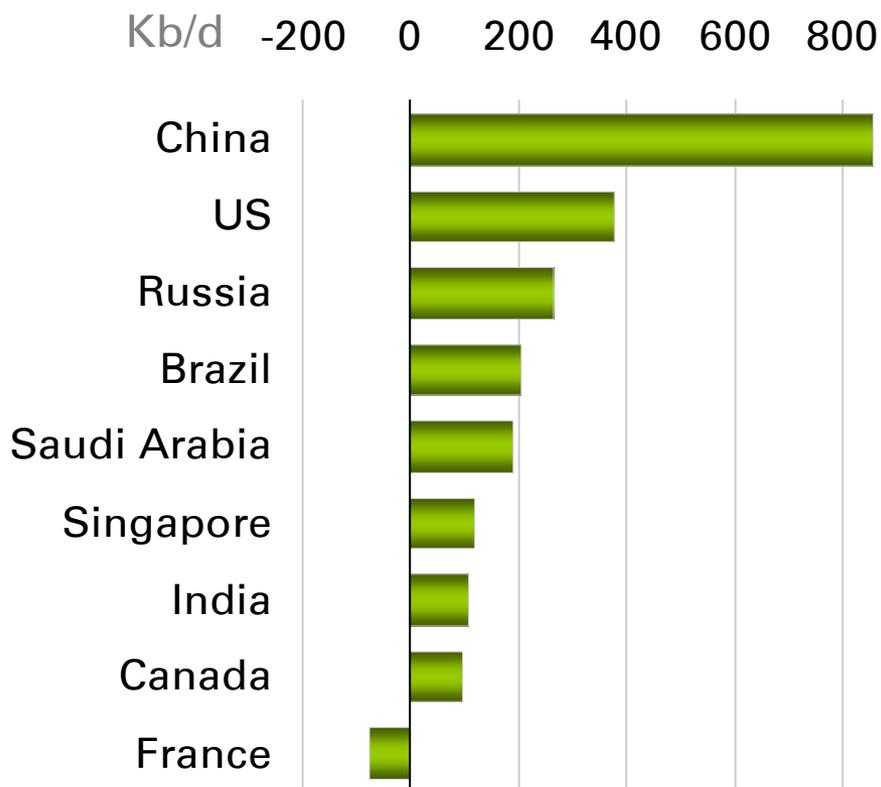
Annual change, Mb/d



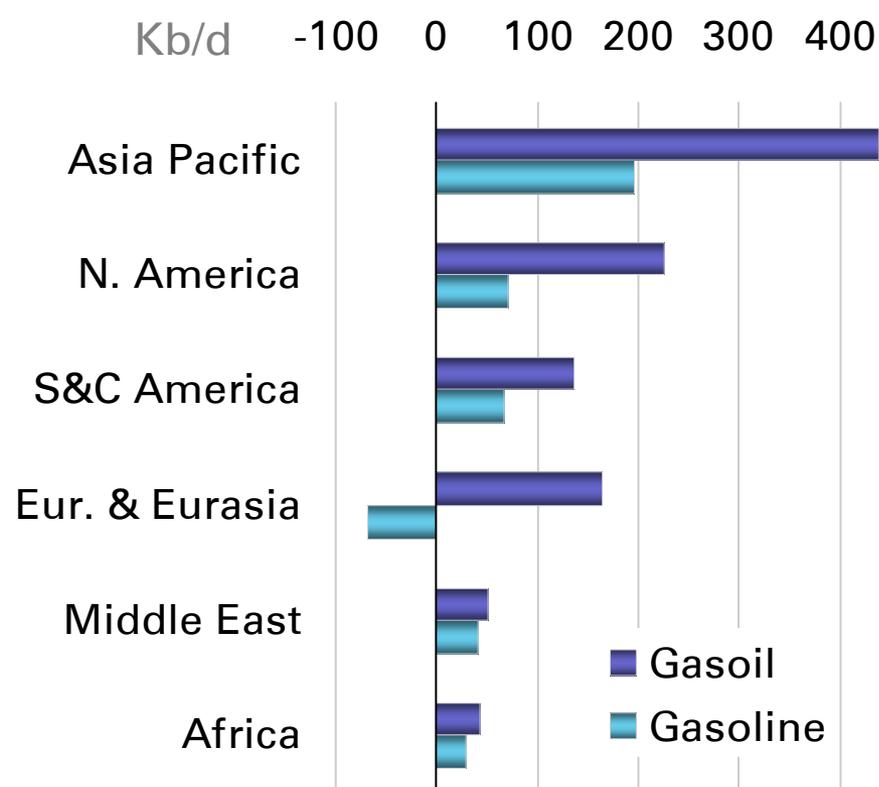
Oil consumption growth in 2010



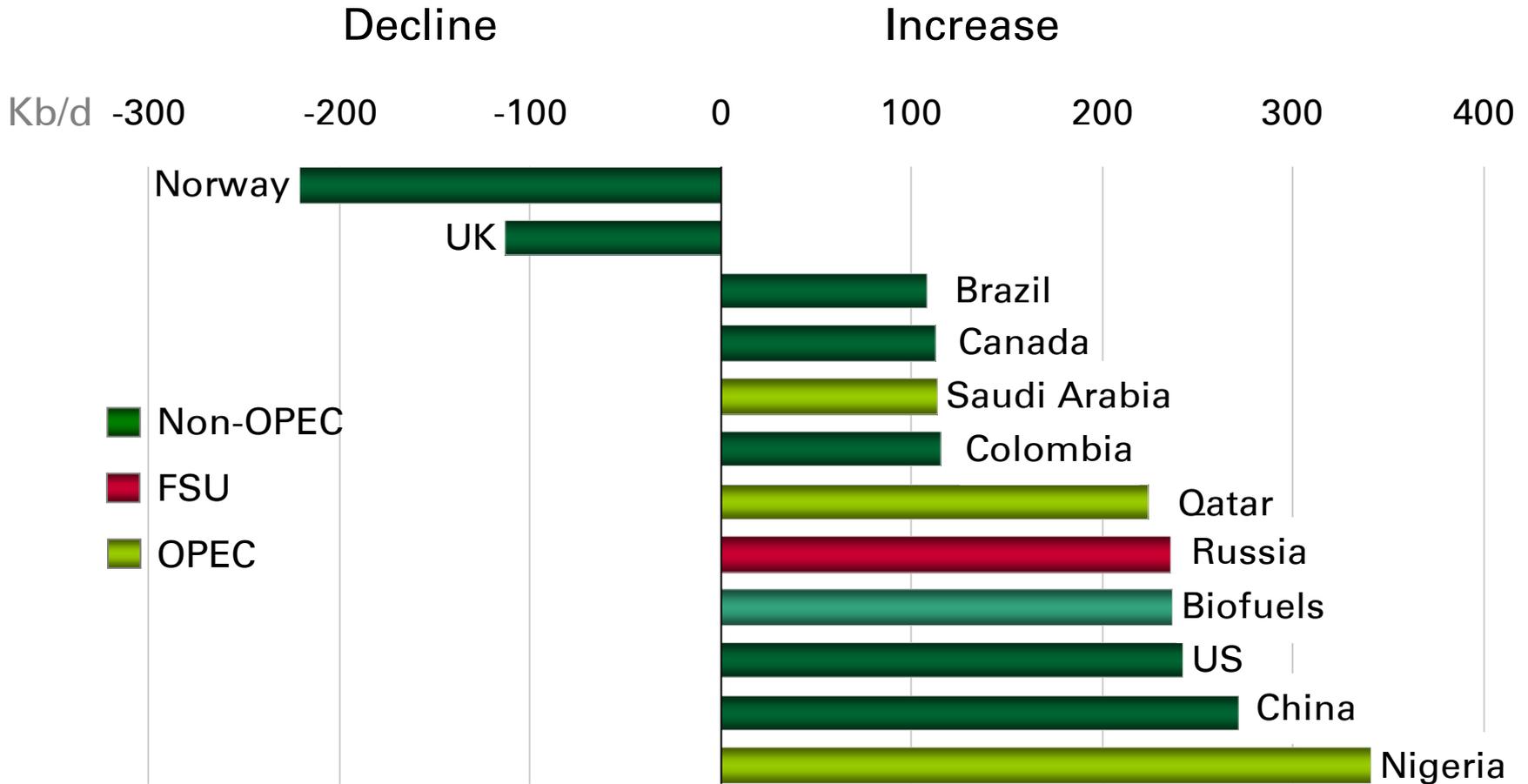
Largest changes



Regional growth by fuel type



Oil production growth in 2010

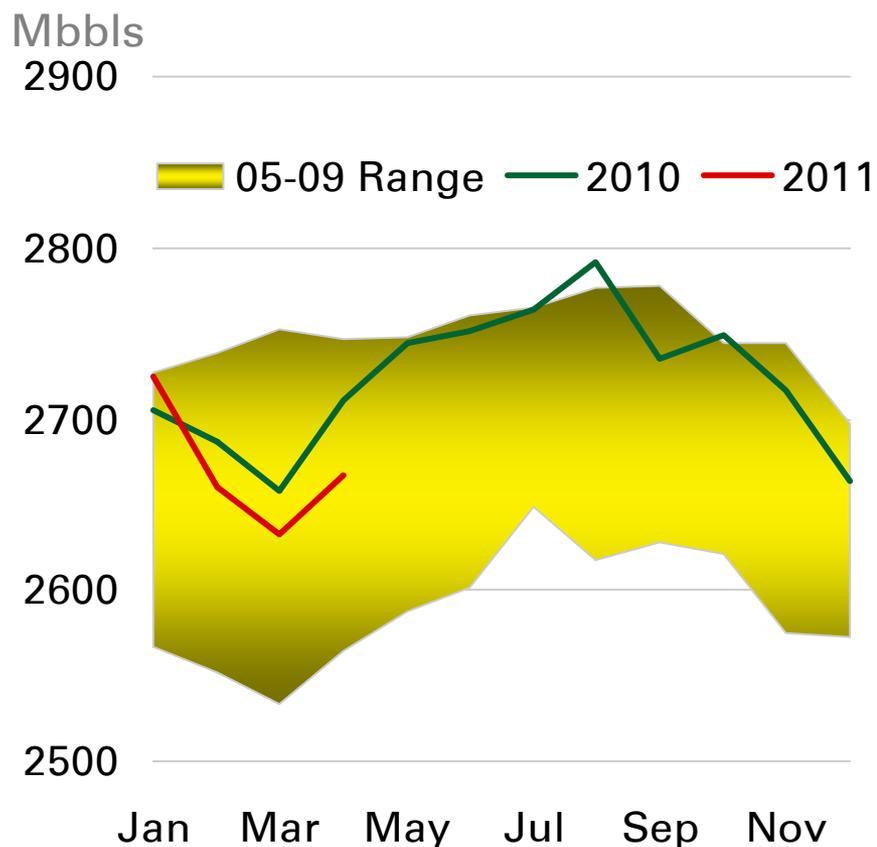


Changes of more than 100 Kb/d.

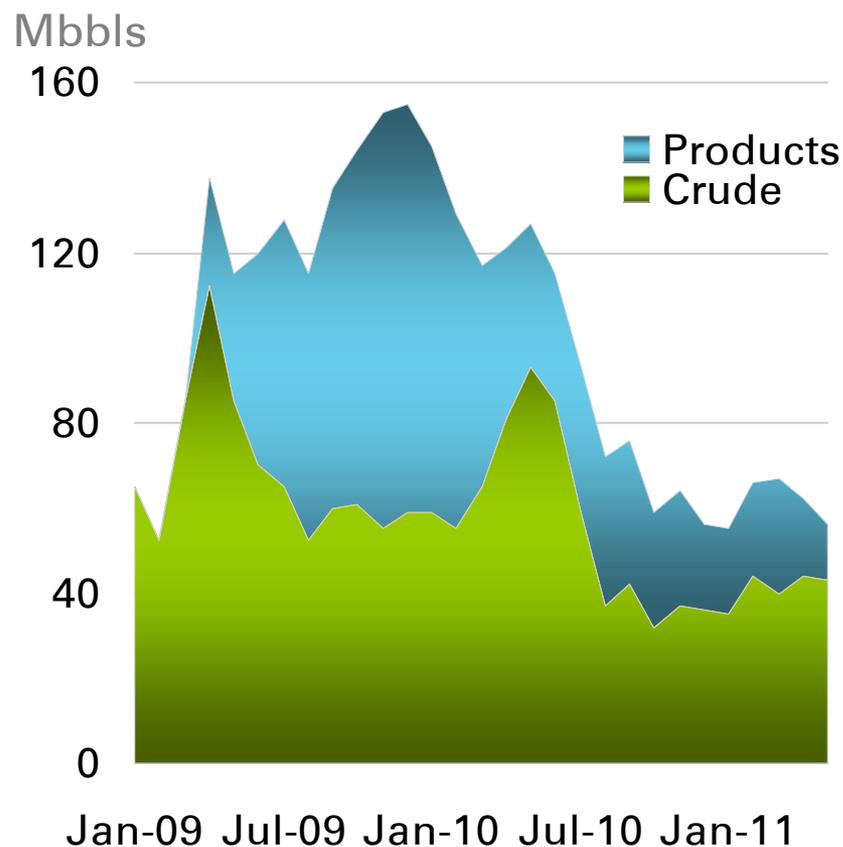
Oil inventories



OECD commercial oil stocks



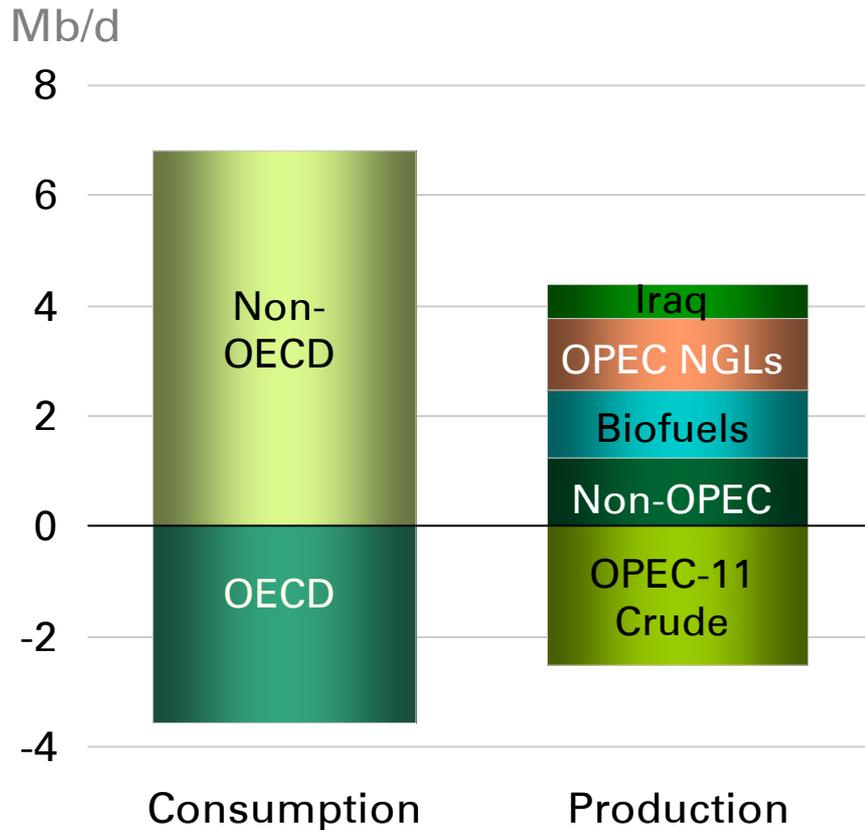
Oil in floating storage



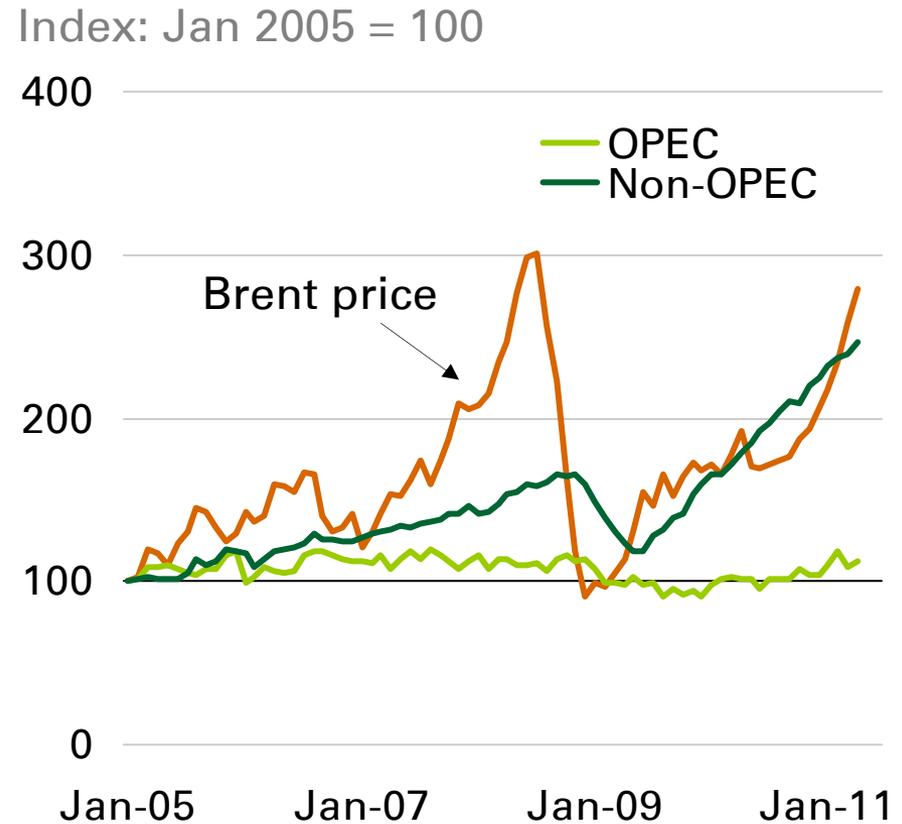
Cumulative demand and production



Changes since 2005



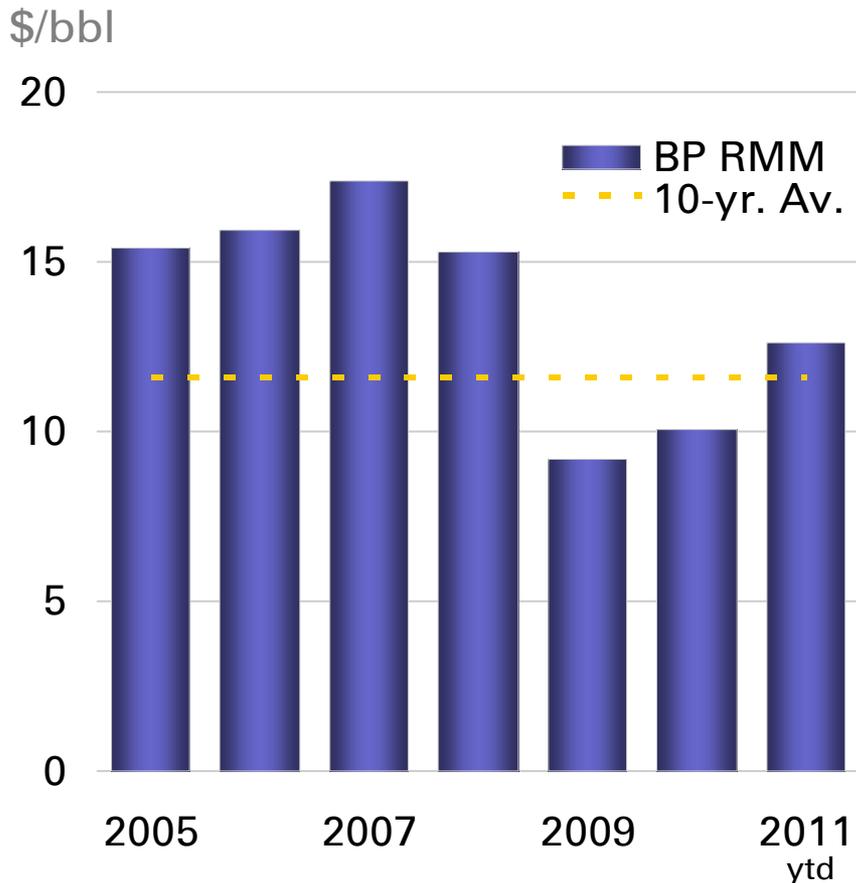
Oil rig count and oil price



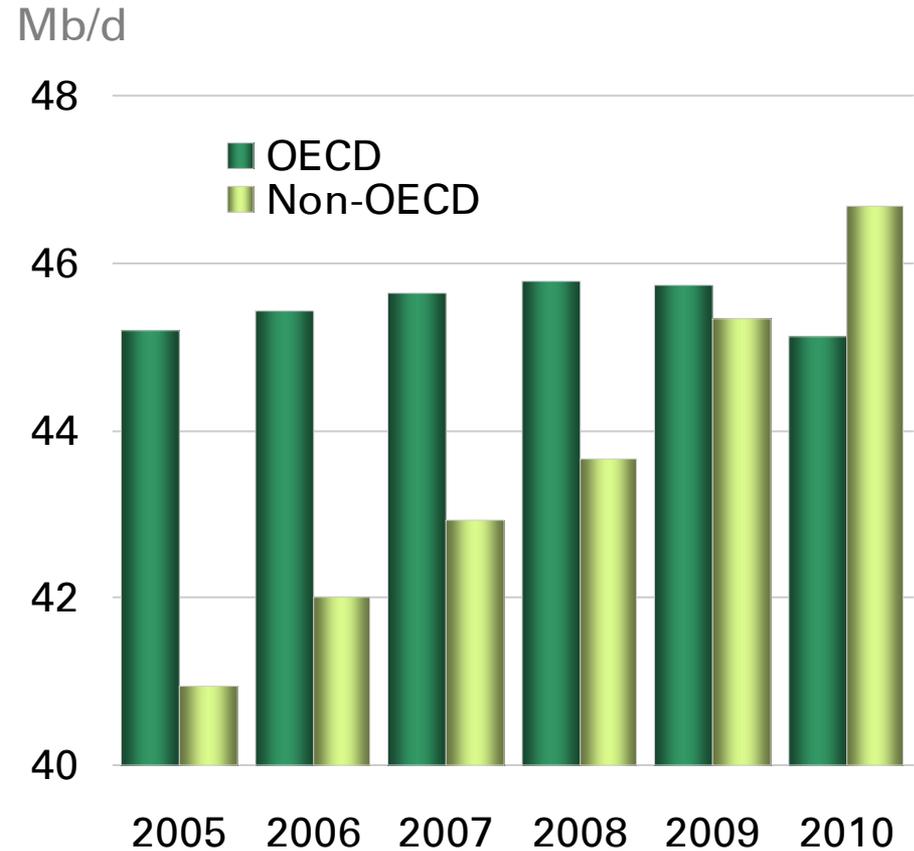
Refining capacity and margins



Refining margins



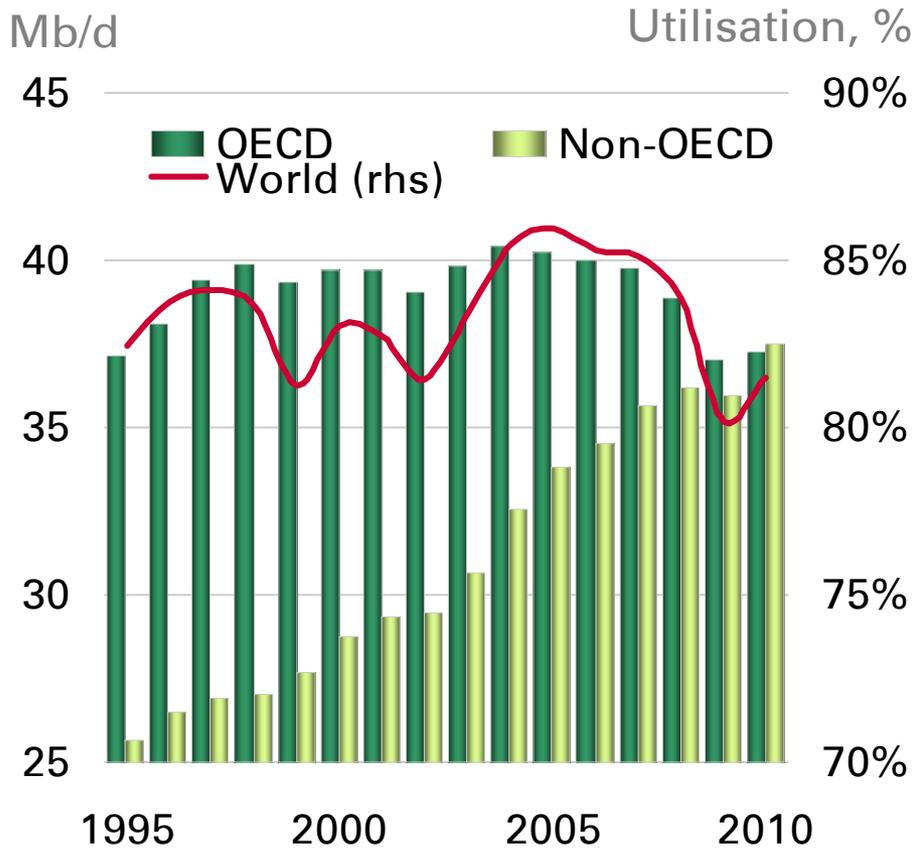
Refining capacity



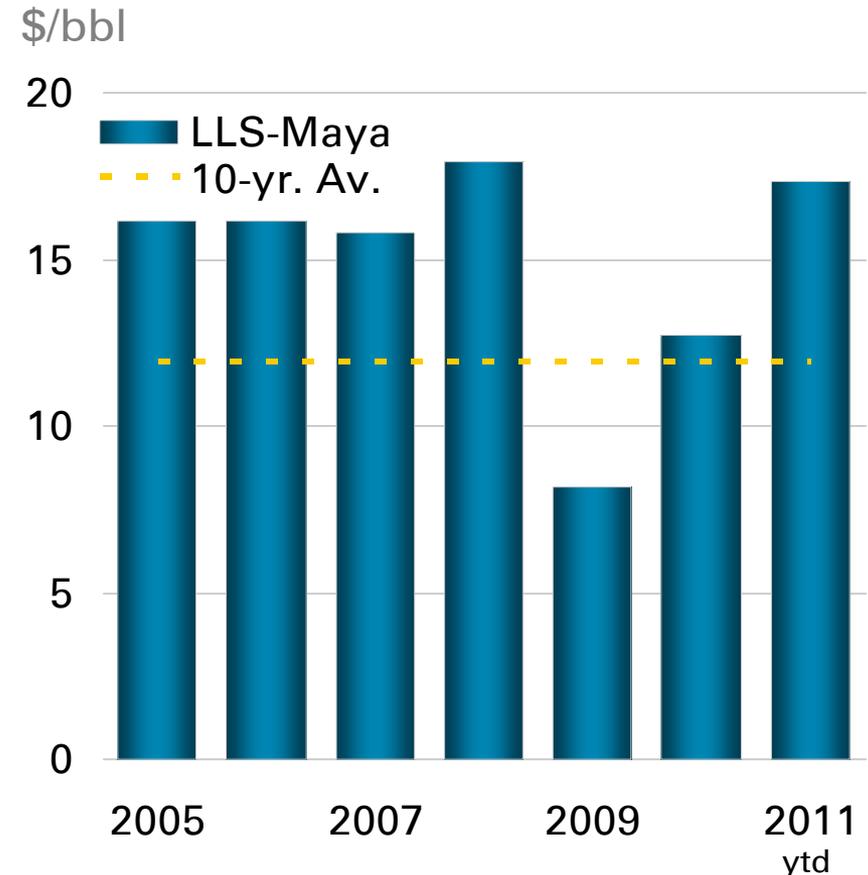
Crude runs and light-heavy spreads



Crude runs and utilisation



Light-heavy spreads



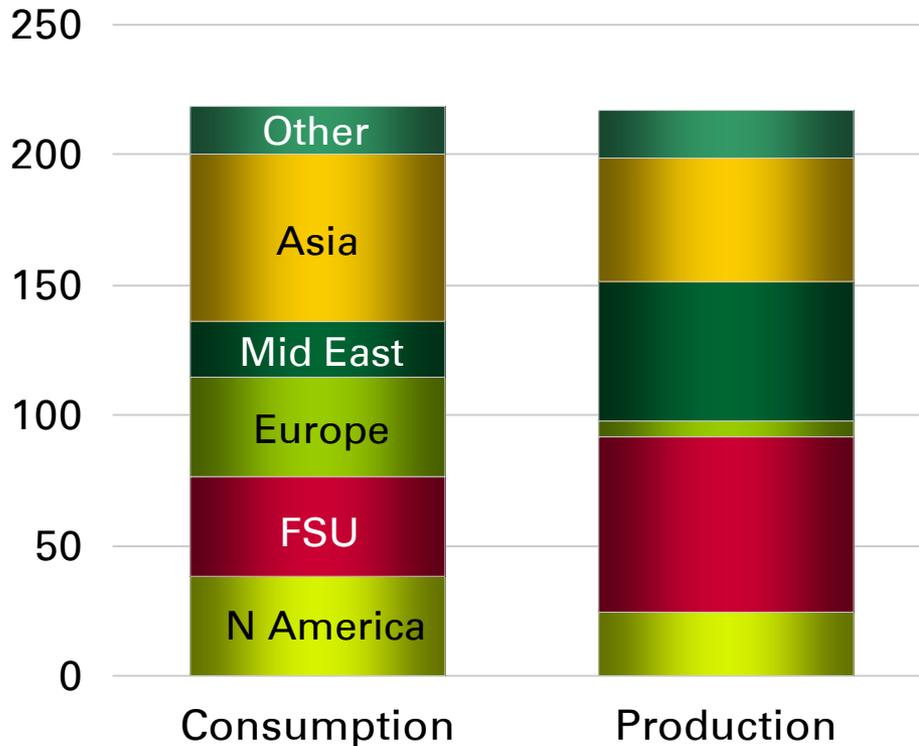
Source: includes data from ESAI, Platts.

Natural gas markets



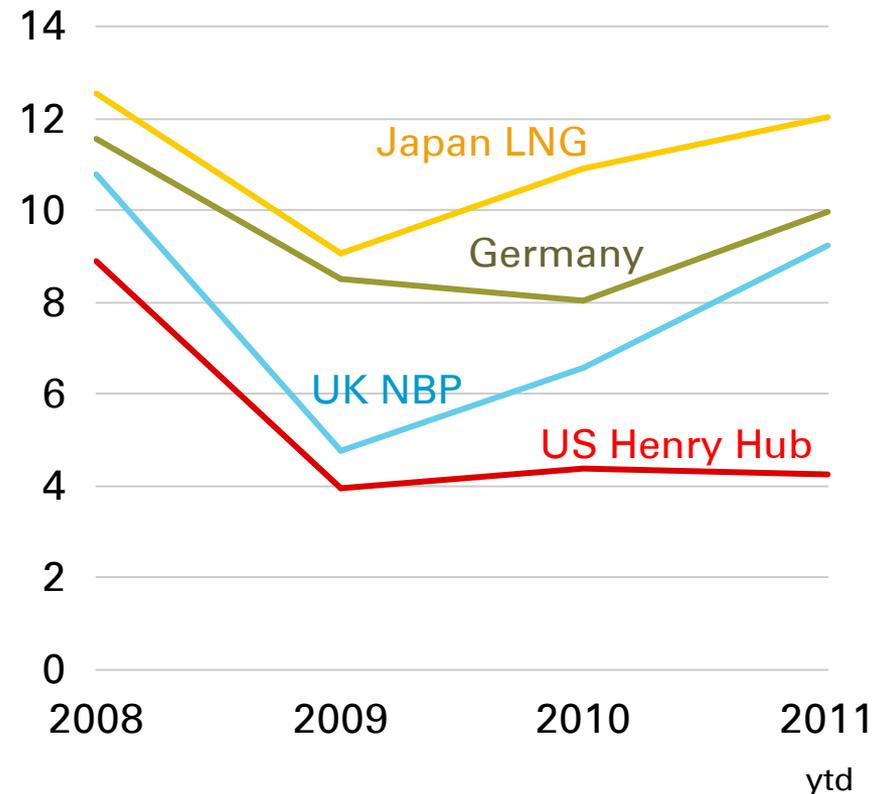
Consumption and production growth

2010 vs 2009, Bcm



Prices

\$/Mmbtu



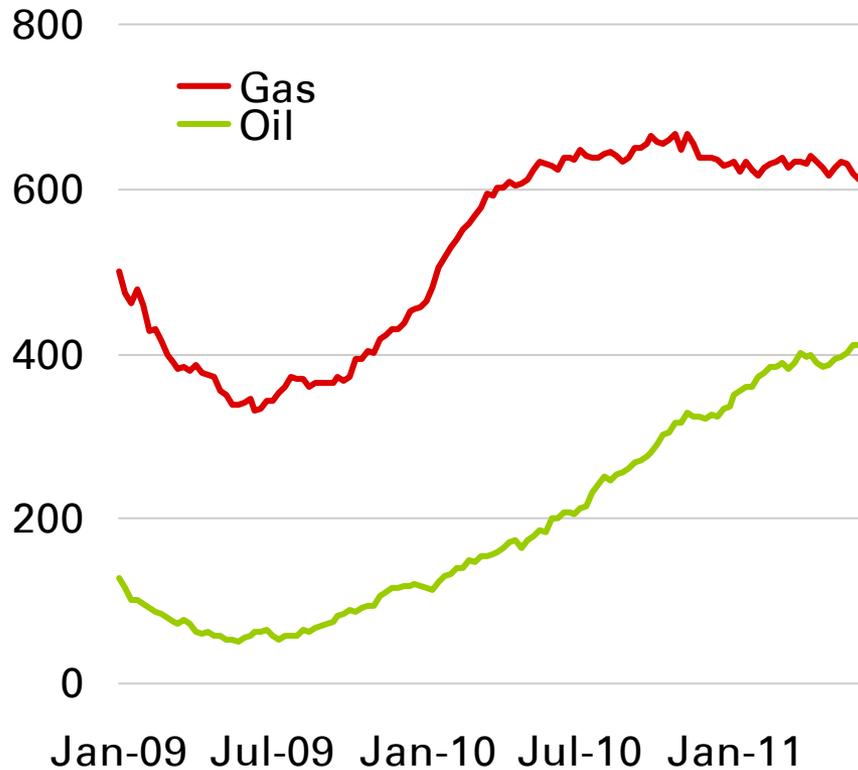
Source: includes data from Platts, BAFA.

US natural gas market



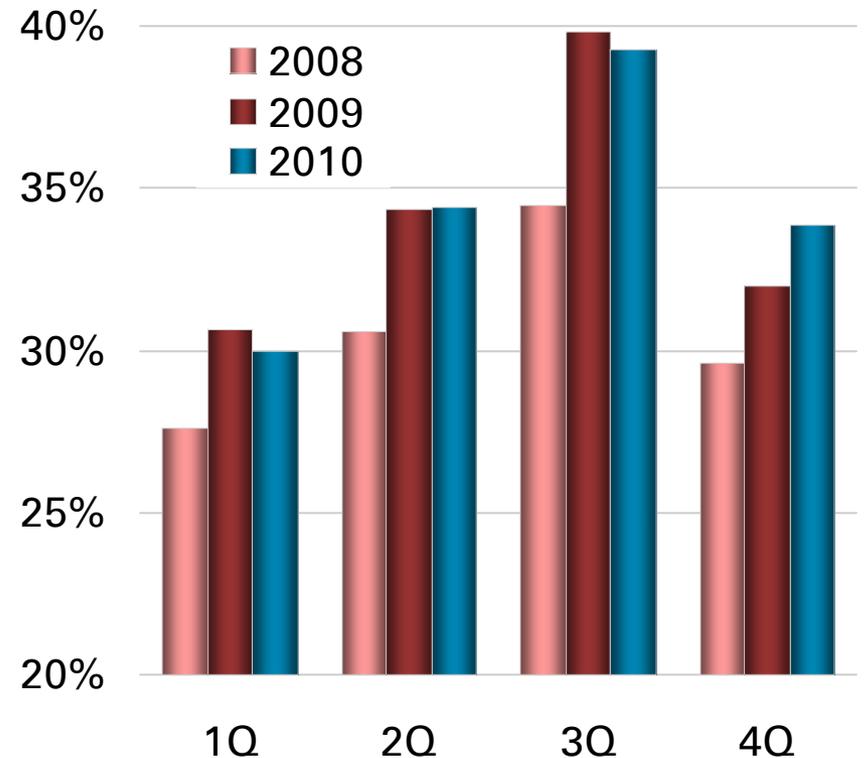
Horizontal gas and oil drilling

Number of horizontal rigs



Gas in power generation

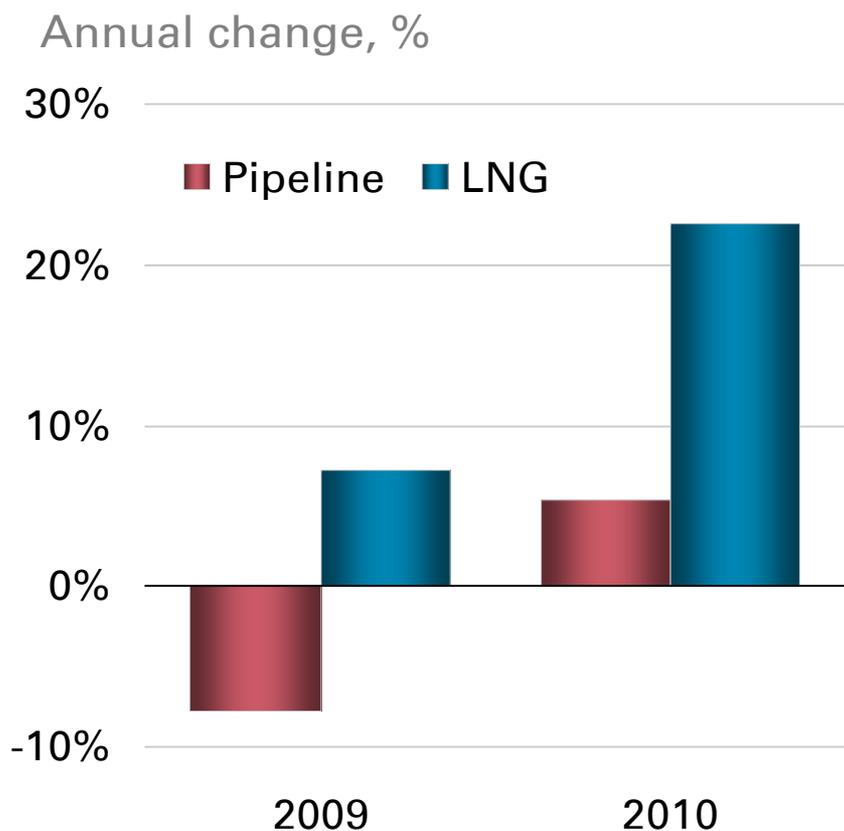
Gas share in generation from coal and gas



Global natural gas trade

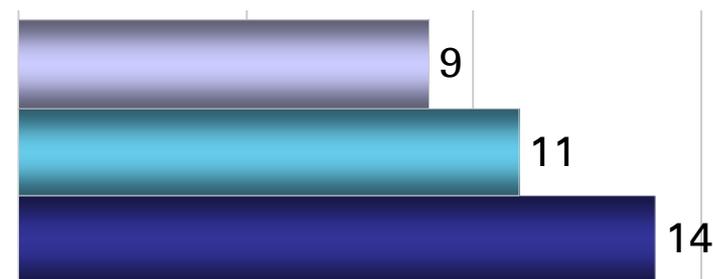


Global gas trade growth

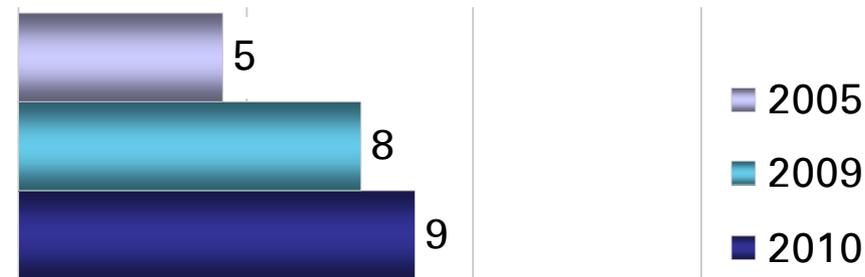


LNG trade links

Four main importers, av. number of sources



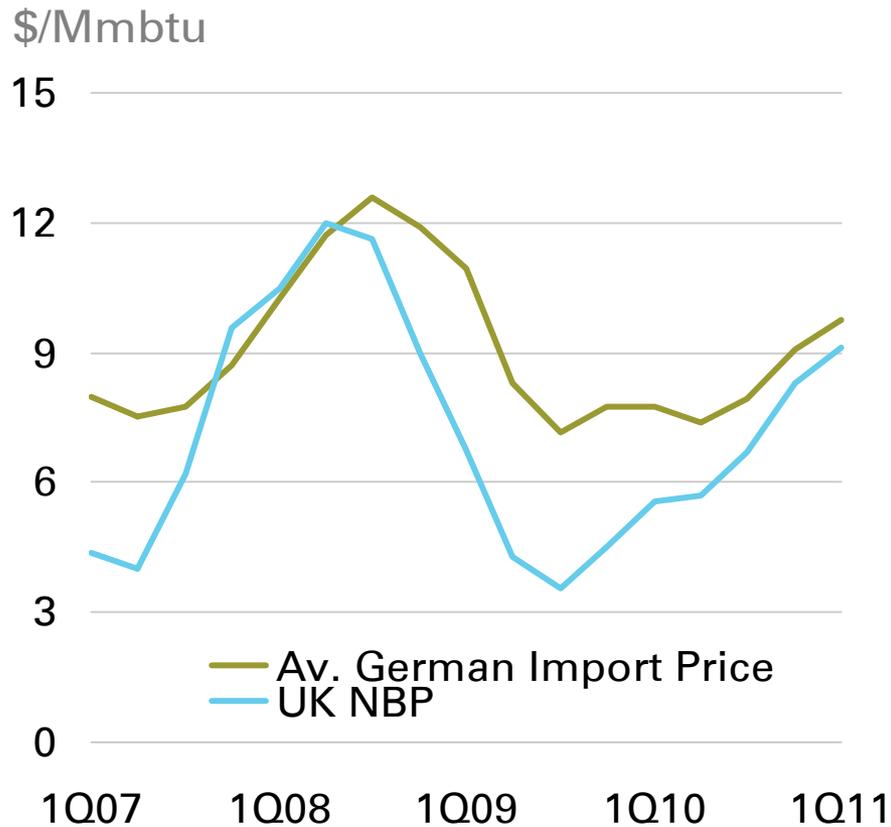
All exporters, av. number of markets



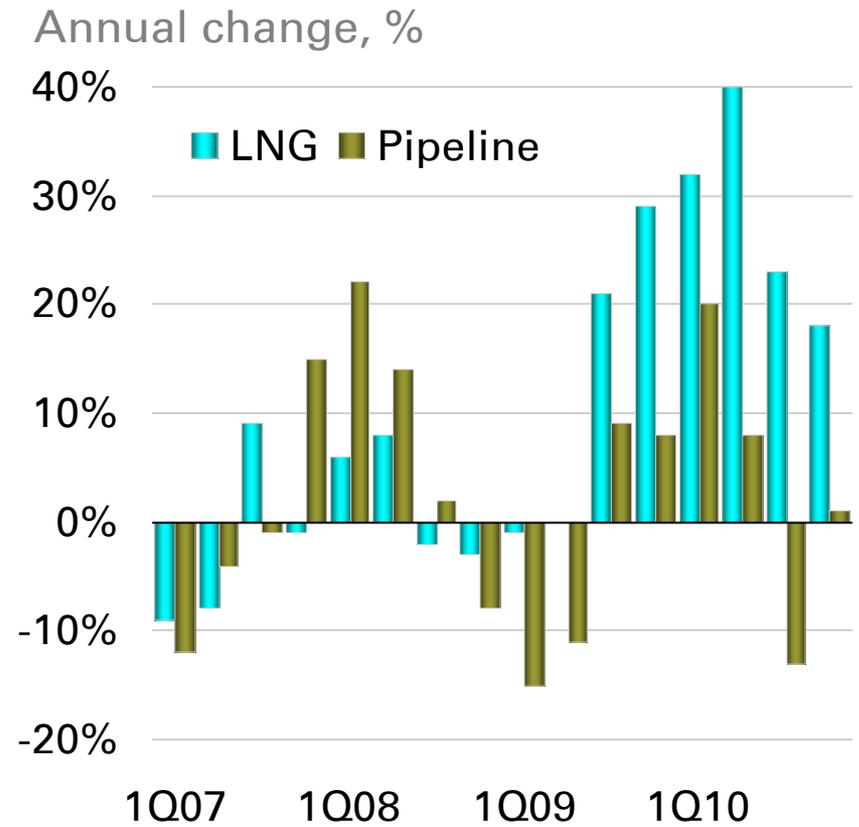
OECD Europe natural gas market



Prices



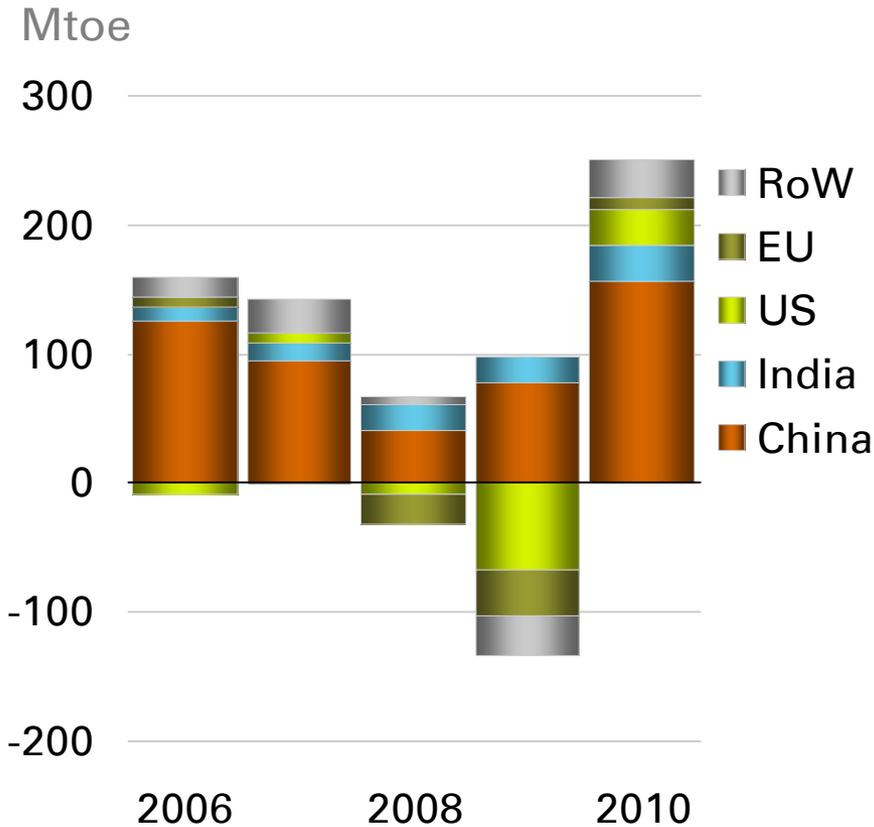
Import growth



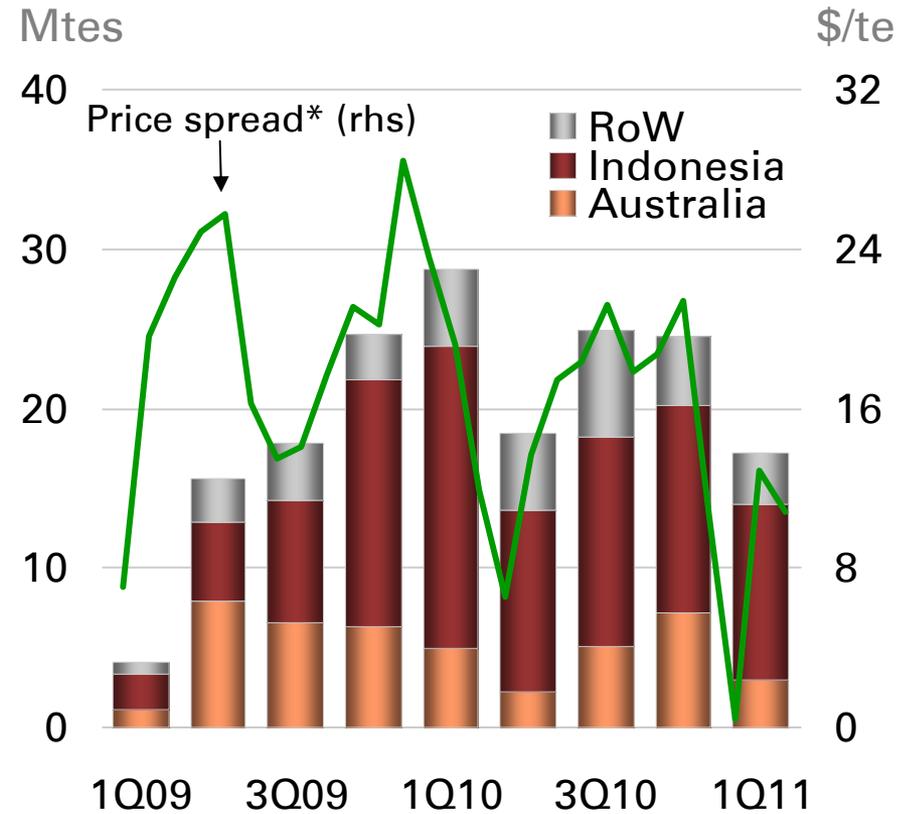
Coal consumption and imports



Consumption changes



China's imports

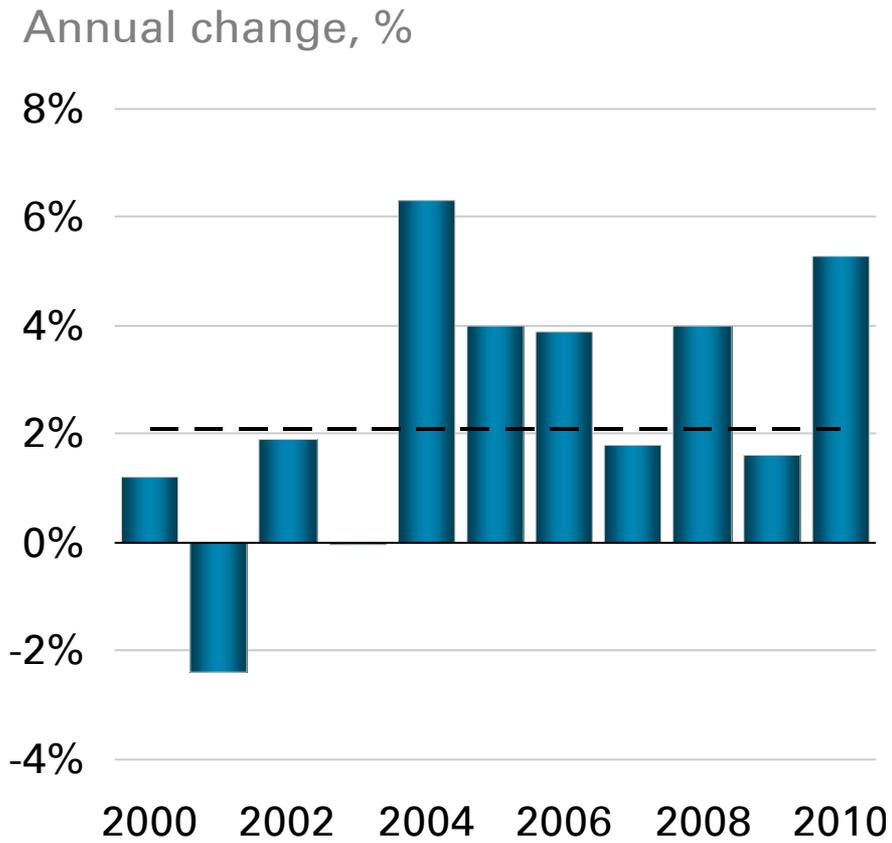


Source: includes data from IHS CERA, IHS McCloskey.
 *Spread between China's Qinhuangdao and Australia's Newcastle coal prices.

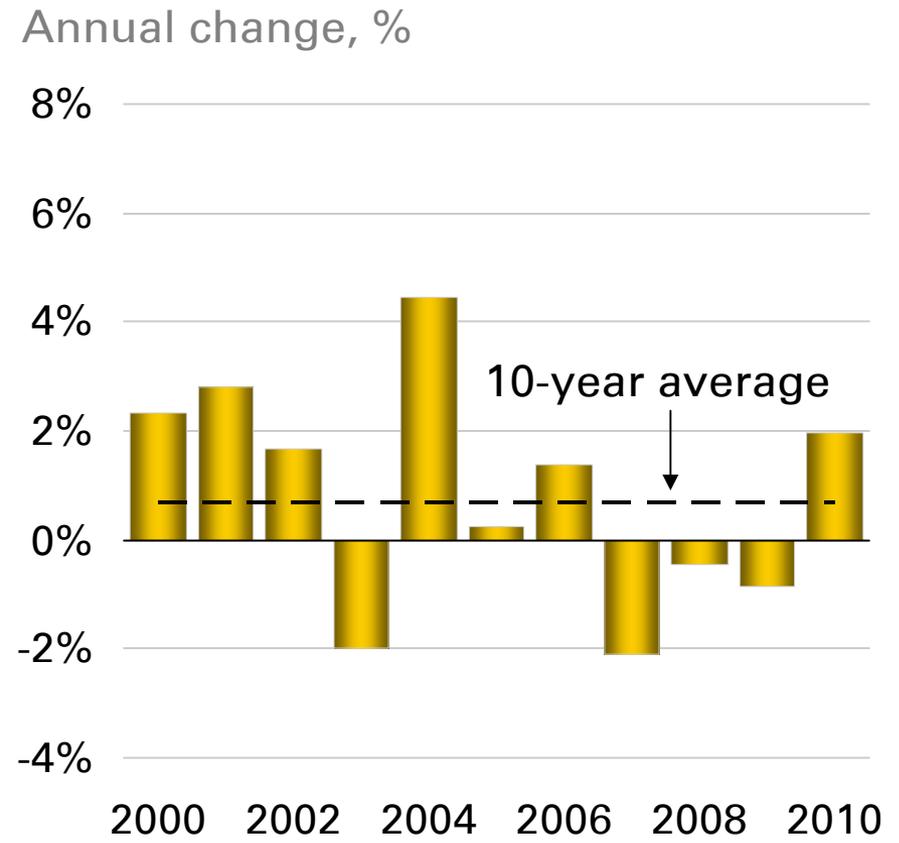
Hydro and nuclear power consumption



Hydro



Nuclear

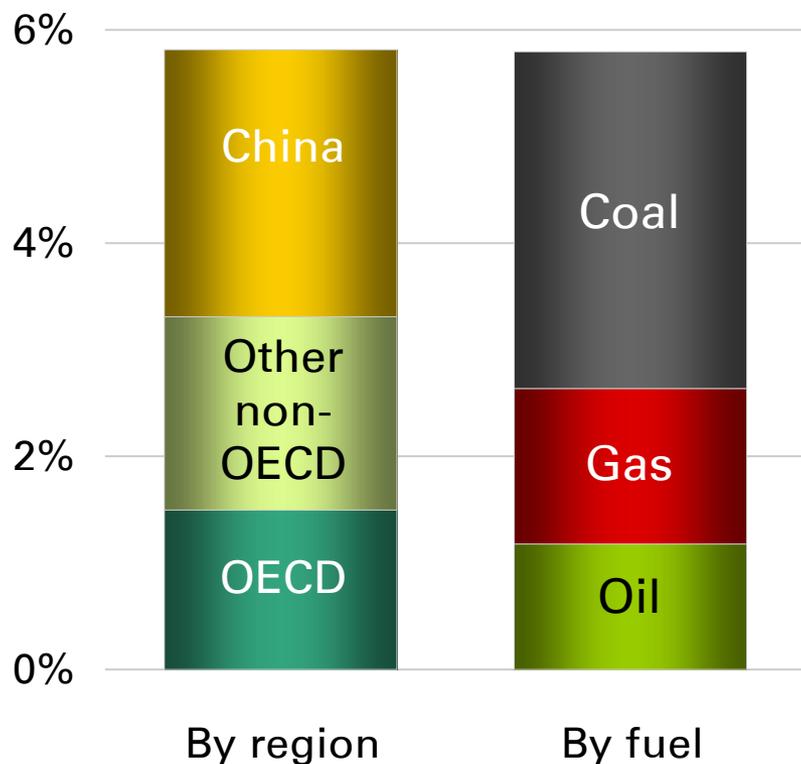


CO₂ emissions



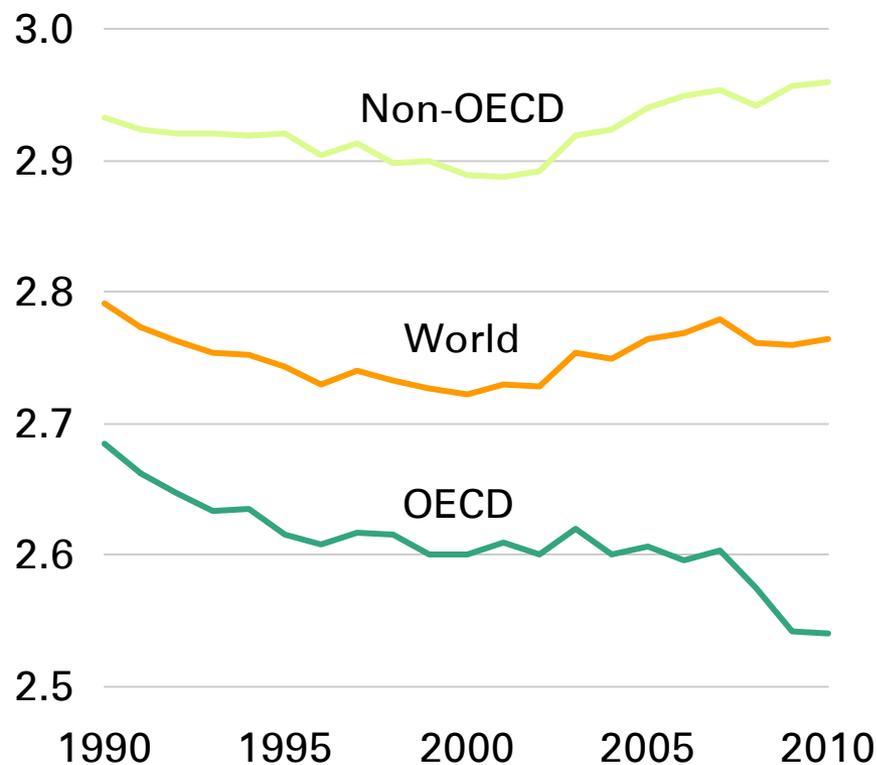
CO₂ emissions growth 2010

Contributions to growth



CO₂ intensity of energy

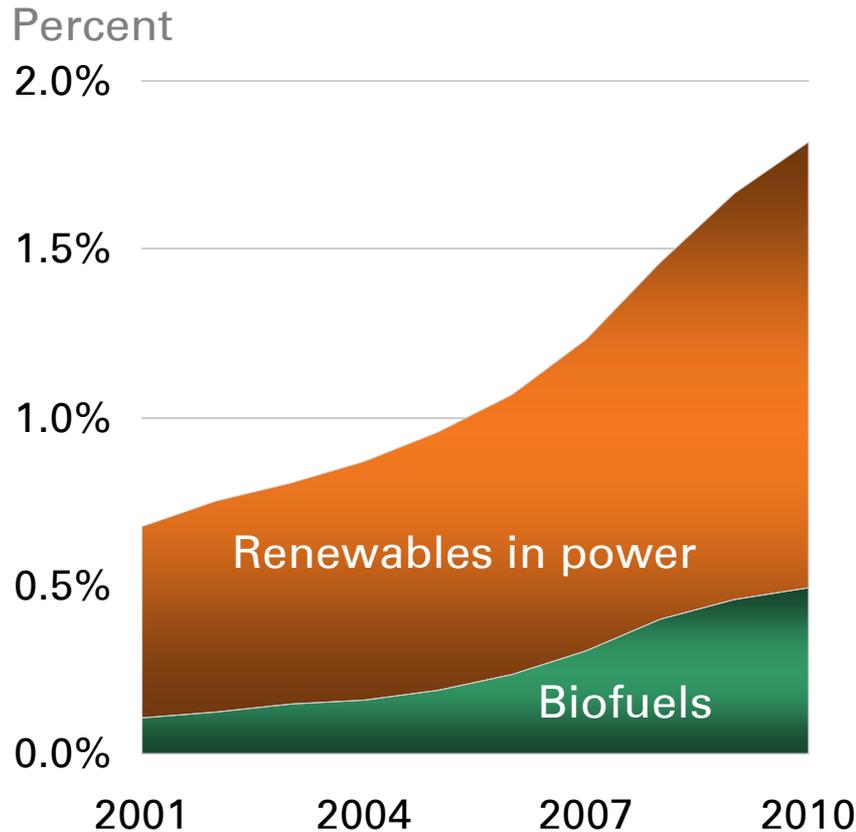
Tonnes of CO₂ per toe



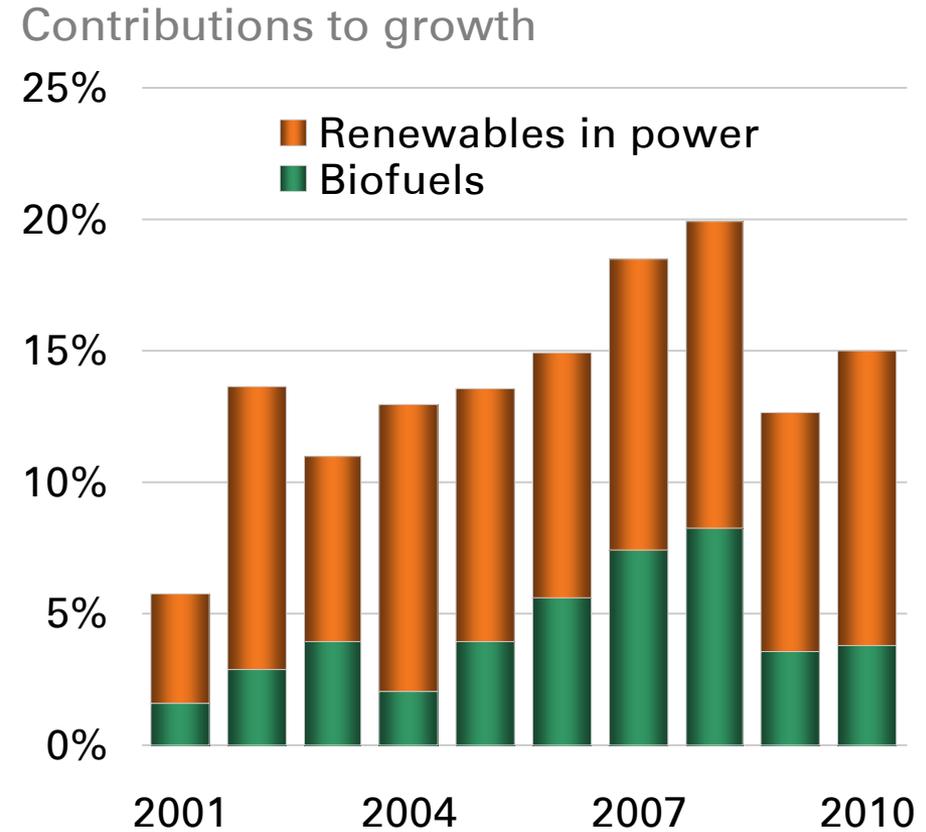
Renewable energy



Share of primary energy



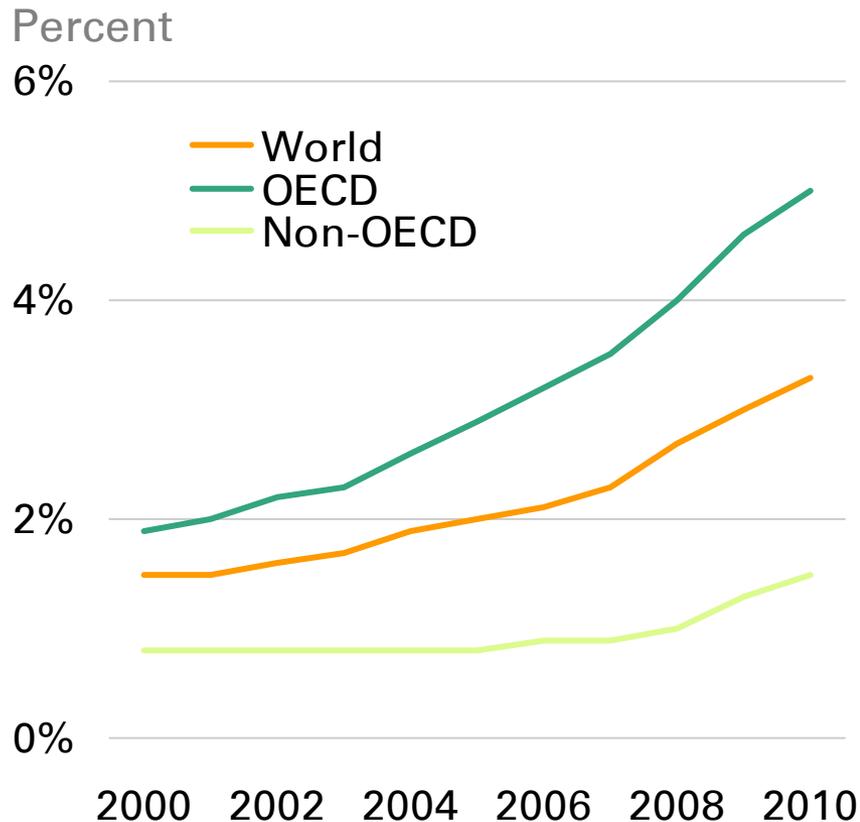
Renewables growth



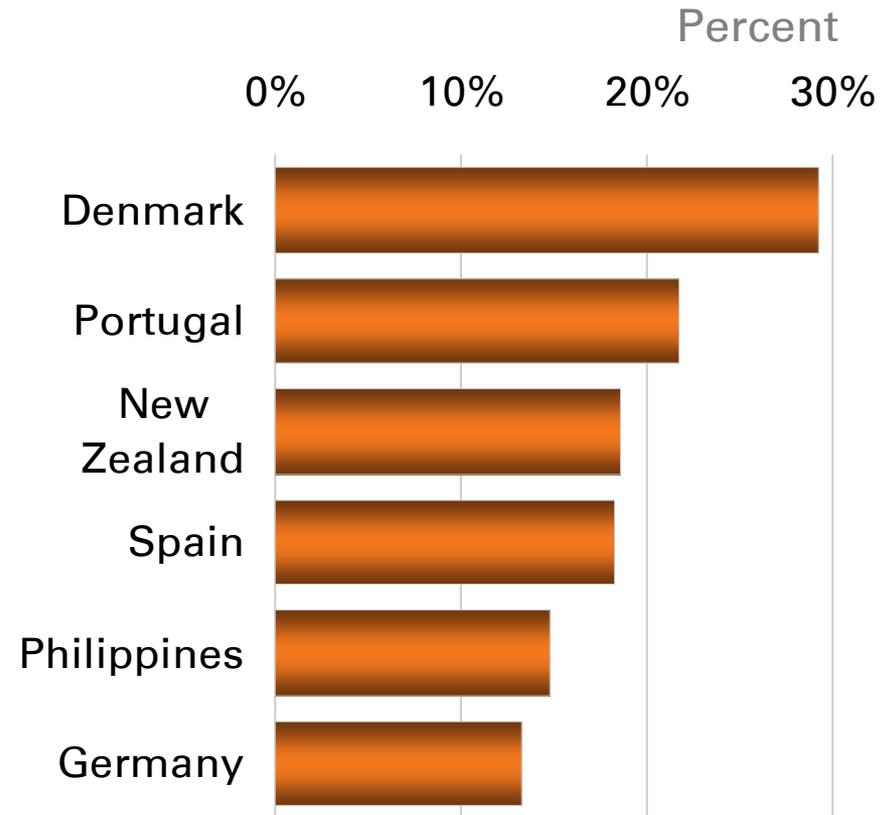
Renewables in power



Share of power generation



Share of power generation in 2010

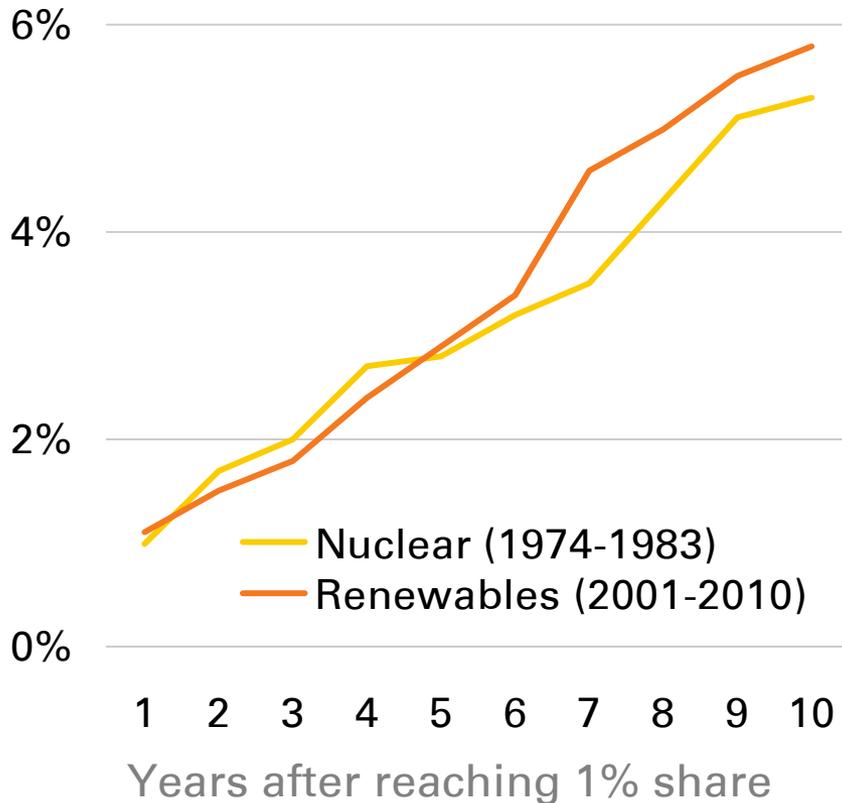




Renewables in Germany and Spain

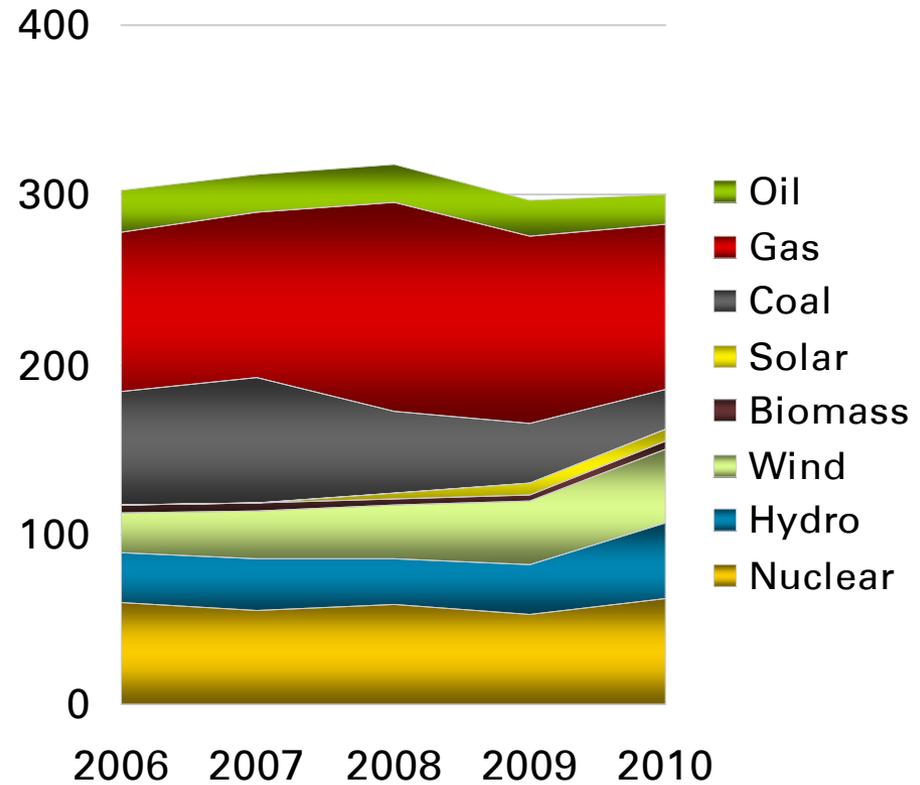
Germany

Share of primary energy, %



Spain

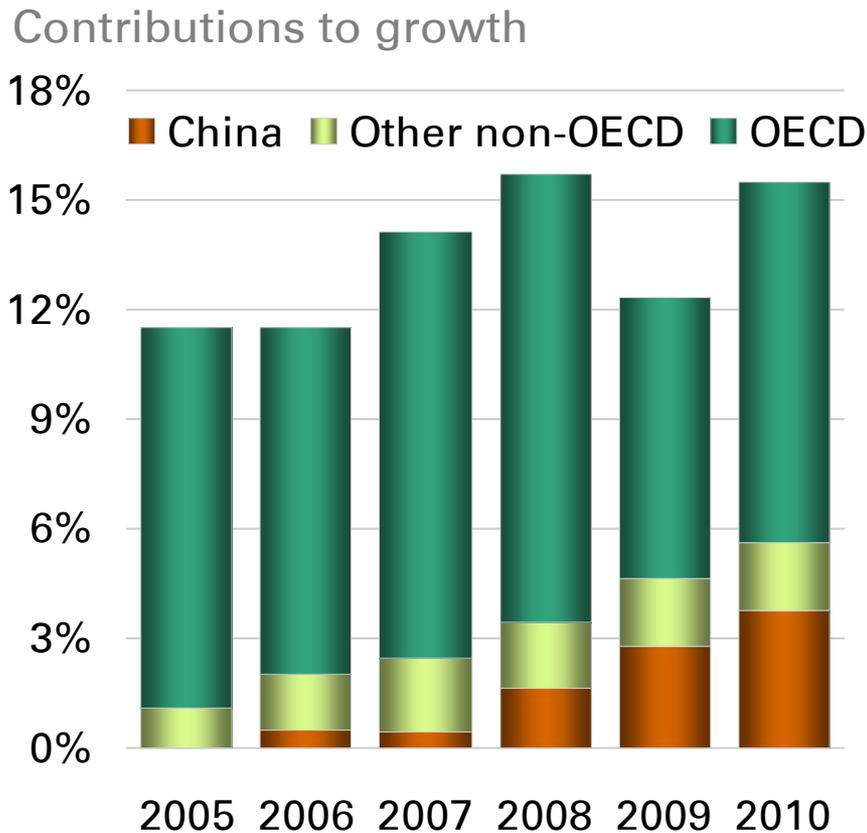
Power generation, TWh



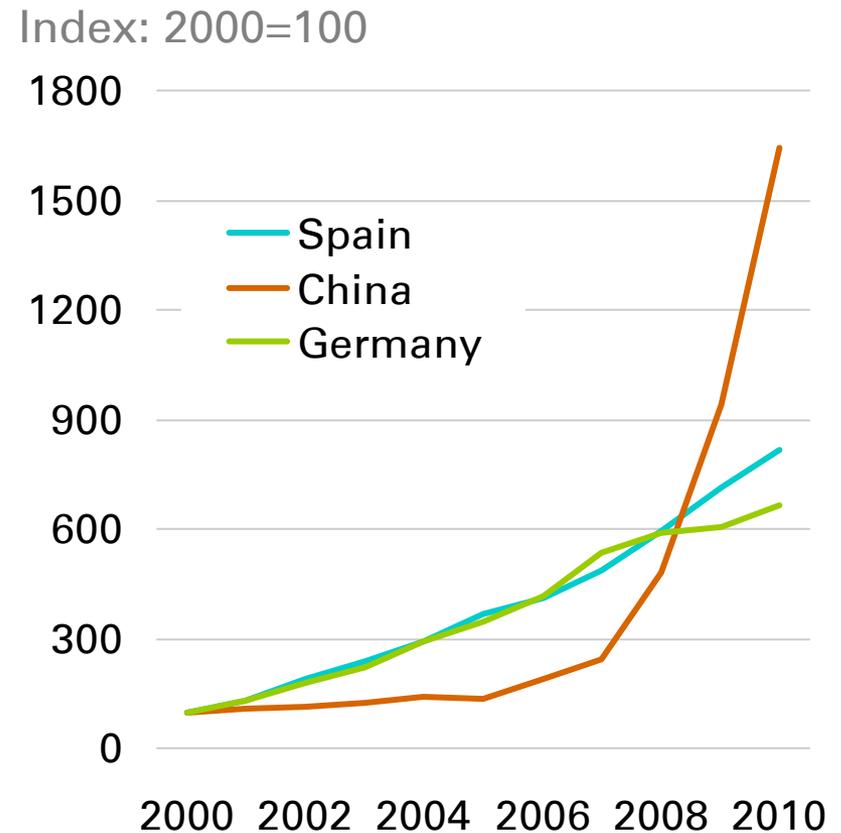
Renewable power growth



Growth by region



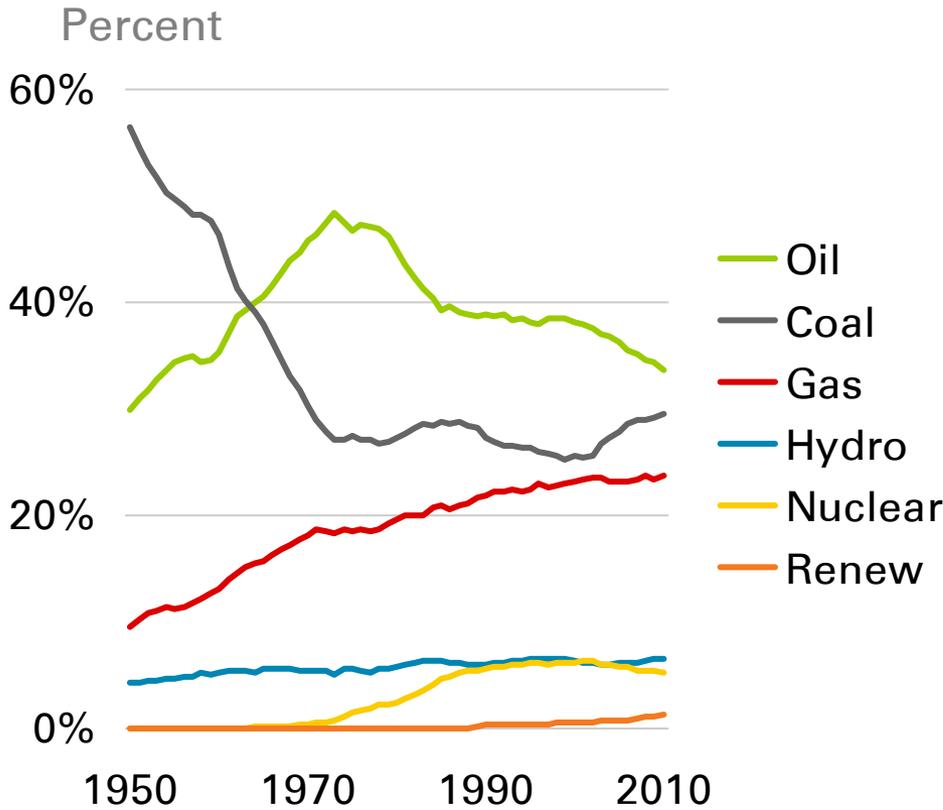
Renewables consumption



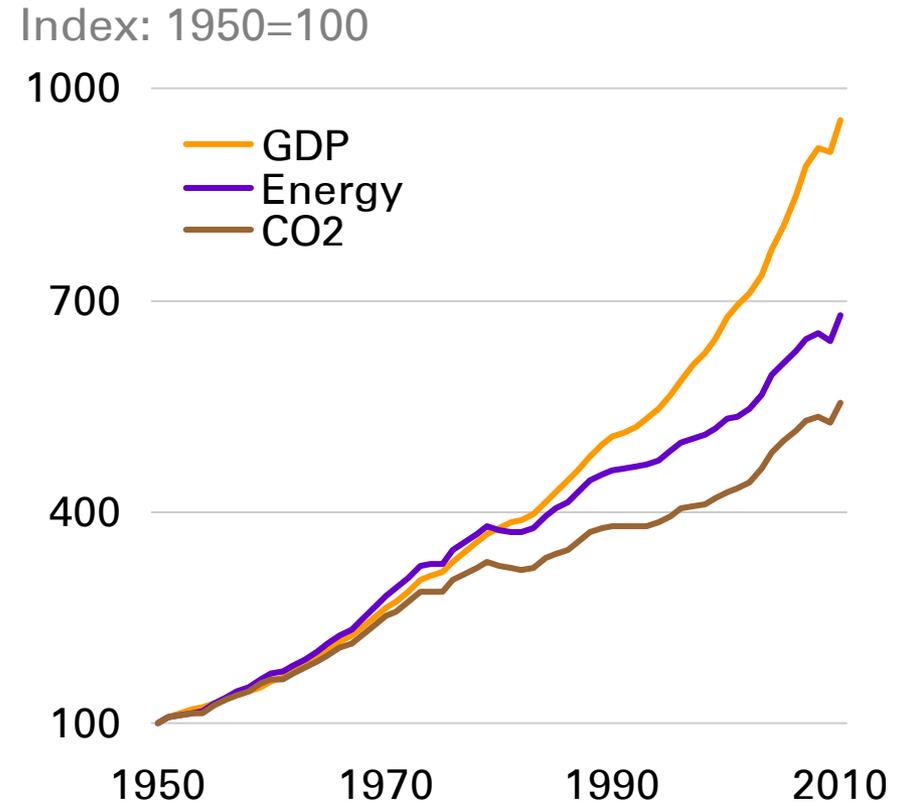
60 years of energy



World fuel shares



World GDP, energy and emissions





60 years

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2010 – Energy Rebounds

Q & A

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Thank you