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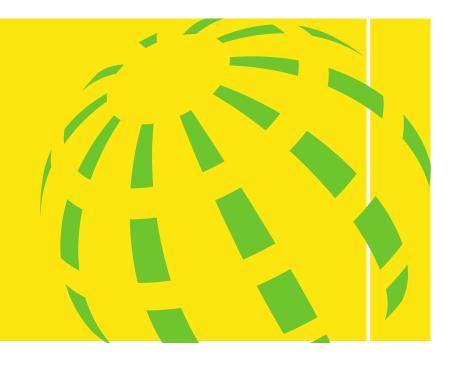
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Energy in 2012 – Adapting to a changing world

Mark Finley
General Manager, Global Energy Markets



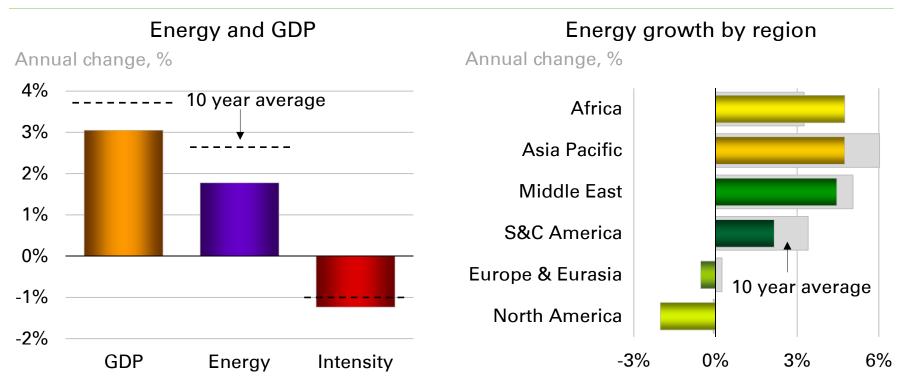
Outline



- Introduction
- 2012 in long-term context
- Fuel by fuel
- Concluding remarks





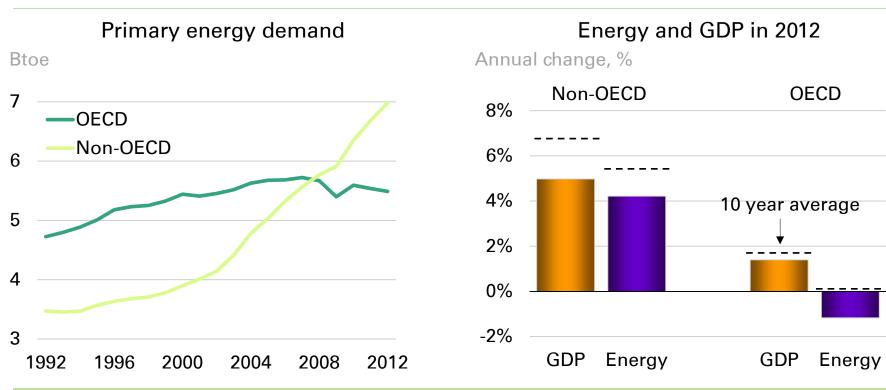


Source: includes data from Oxford Economics

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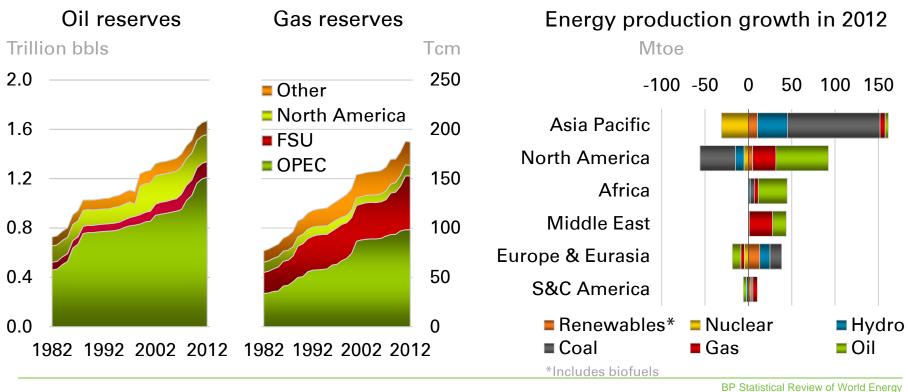




Source: includes data from Oxford Economics

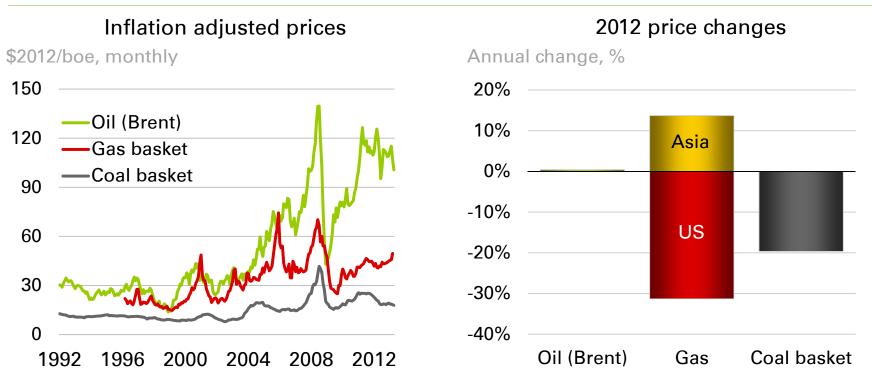
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Reserves and production





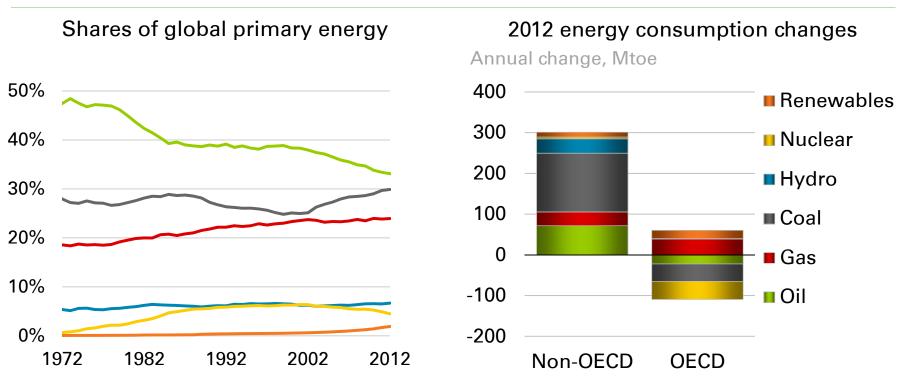
Energy prices



Source: includes data from ICIS Heren Energy and Energy Intelligence Group, McCloskey and Platts

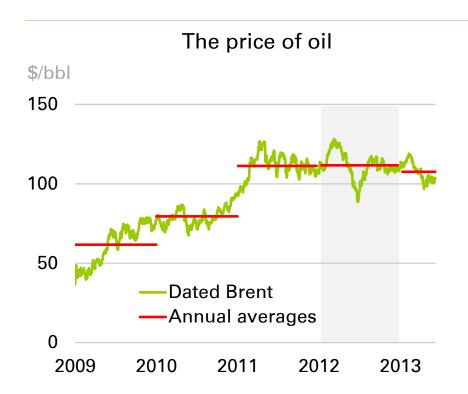


The evolving fuel mix



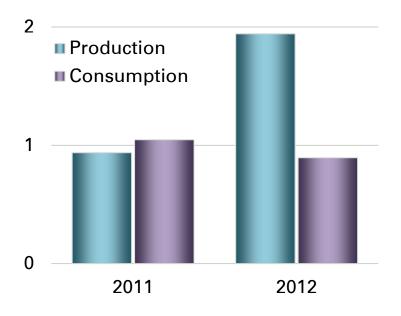
The oil market in 2012





Production and consumption growth

Annual change, Mb/d

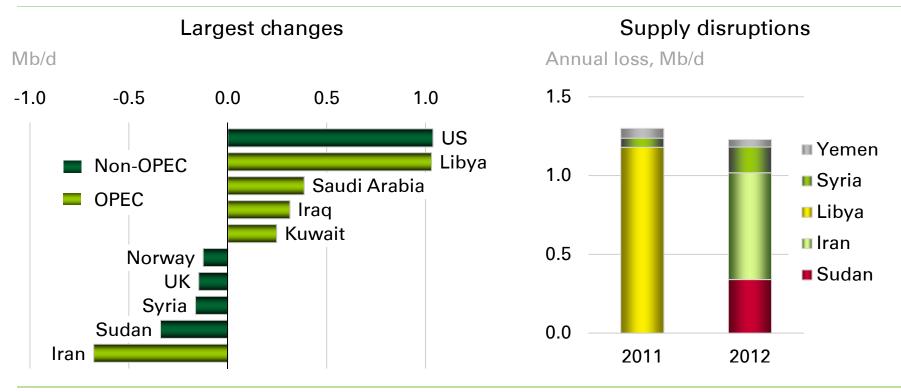


Source: includes data from Platts

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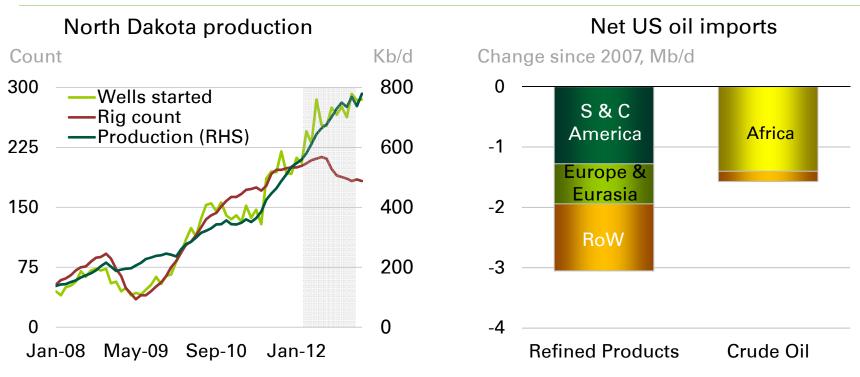


Oil production in 2012





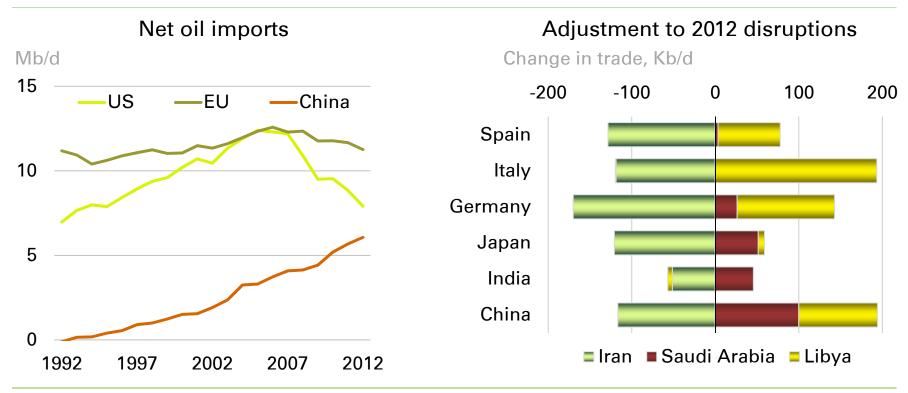
US oil supply: cause and effect



Source: includes data from North Dakota Department of Mineral Resources and Energy Information Administration

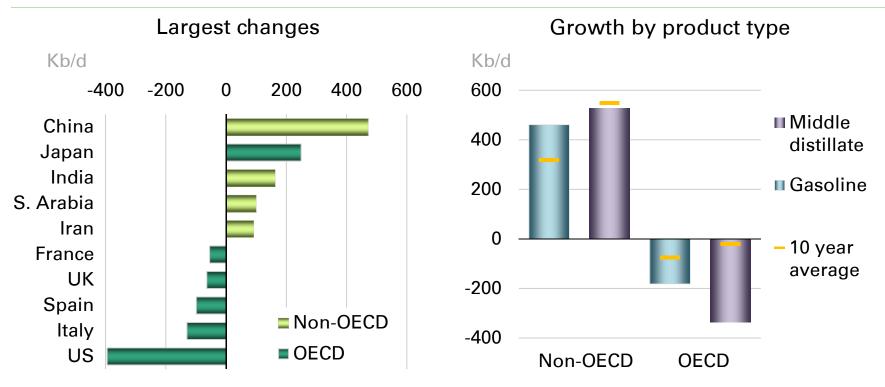
Emerging oil trade patterns





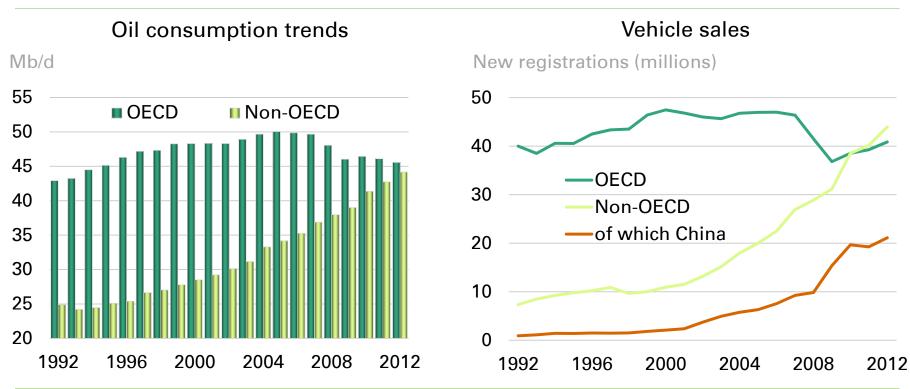
Oil consumption in 2012







Oil consumption and mobility

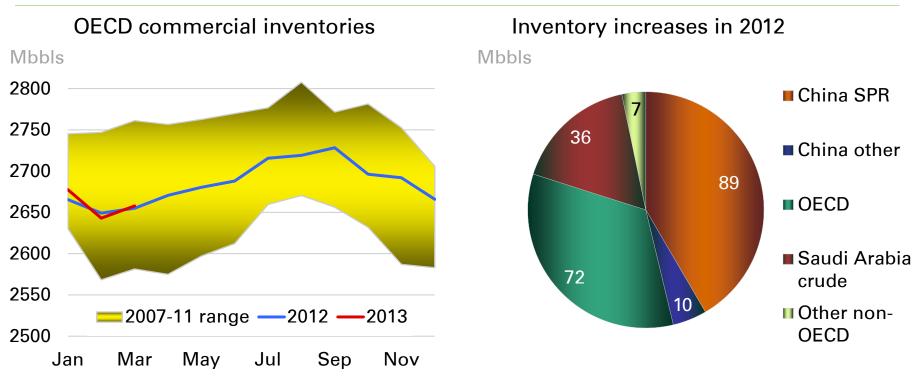


Source: includes data from R. L. Polk & Co.

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Oil inventories

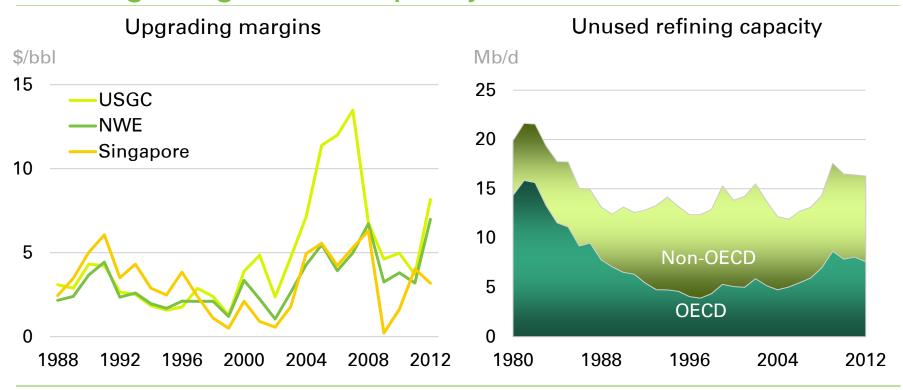


Source: Includes data from the International Energy Agency © OECD/IEA 2013

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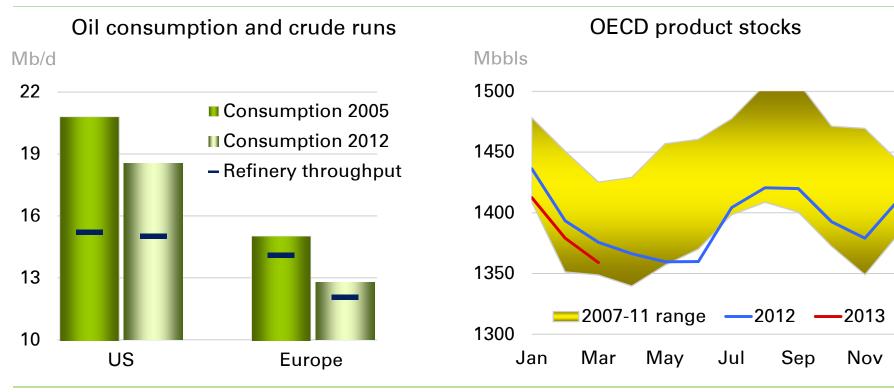
Refining margins and capacity



Source: Includes data from Platts



Crude run rebalancing and product stocks

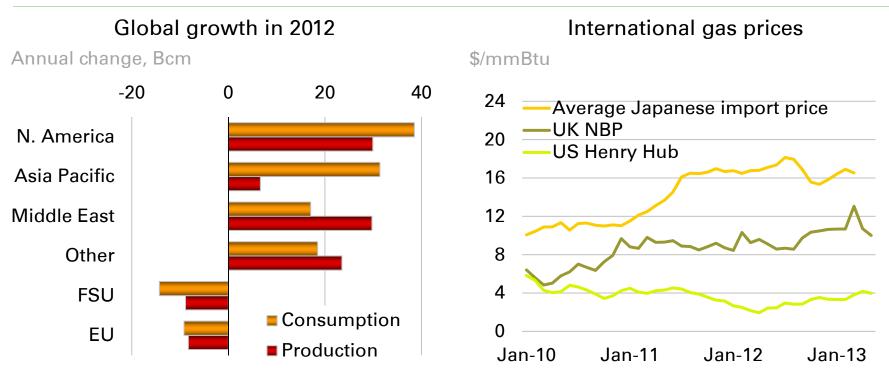


Source: Includes data from the International Energy Agency © OECD/IEA 2013

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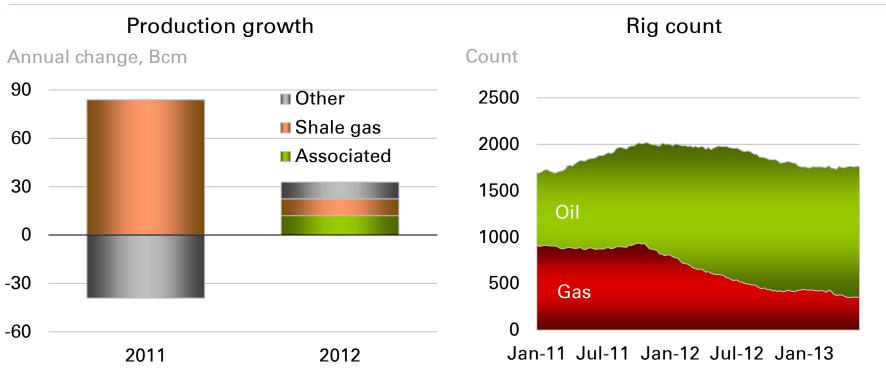
Global natural gas balance



Source: includes data from ICIS Heren Energy and Energy Intelligence Group



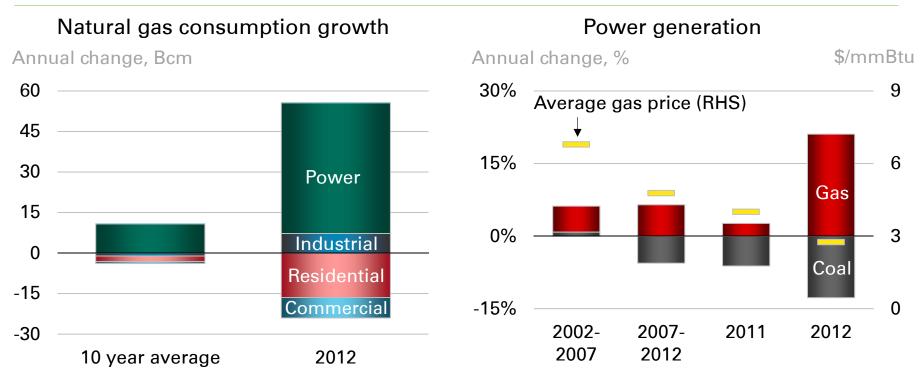
US natural gas production



Source: includes data from Energy Information Administration and Baker Hughes



US coal to gas switching

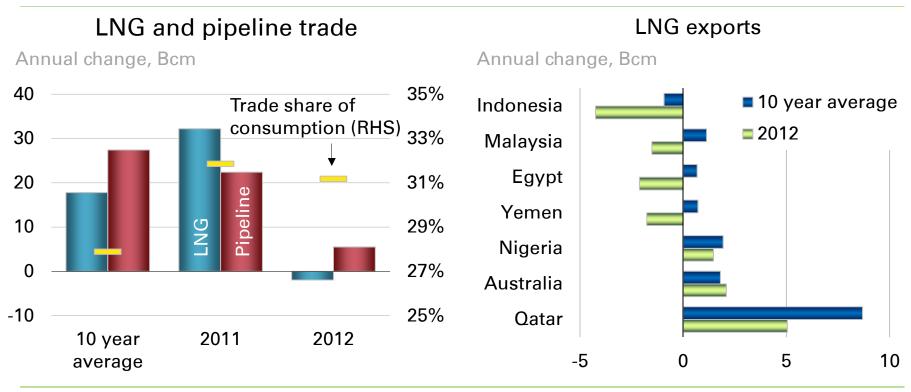


Source: includes data from Energy Information Administration and Platts

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Natural gas trade





European gas-coal competition

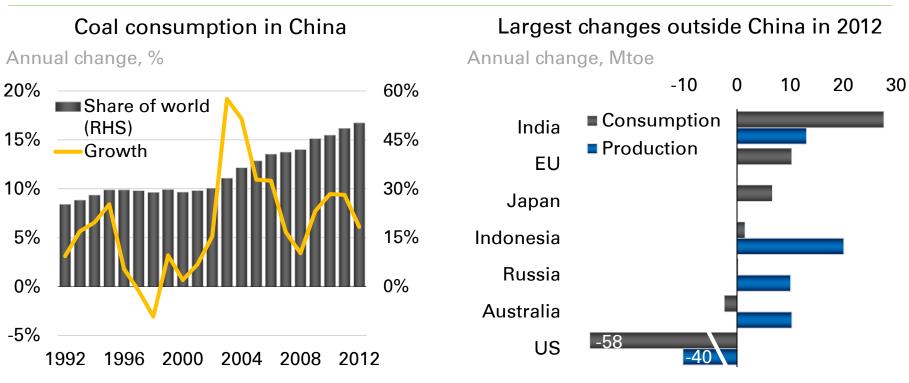


Source: includes data from Platts, IHS McCloskey and IntercontinentalExchange

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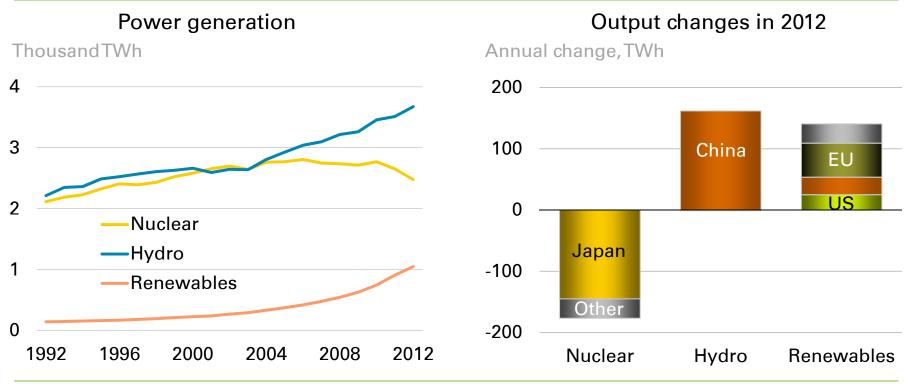
The coal market in 2012







Hydro, other renewables and nuclear

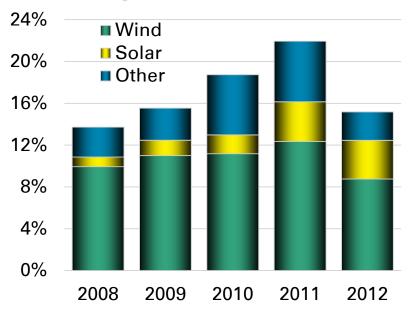




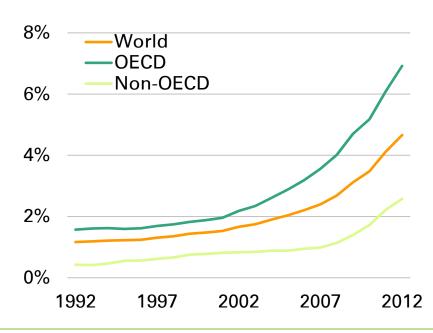
Renewables in power generation



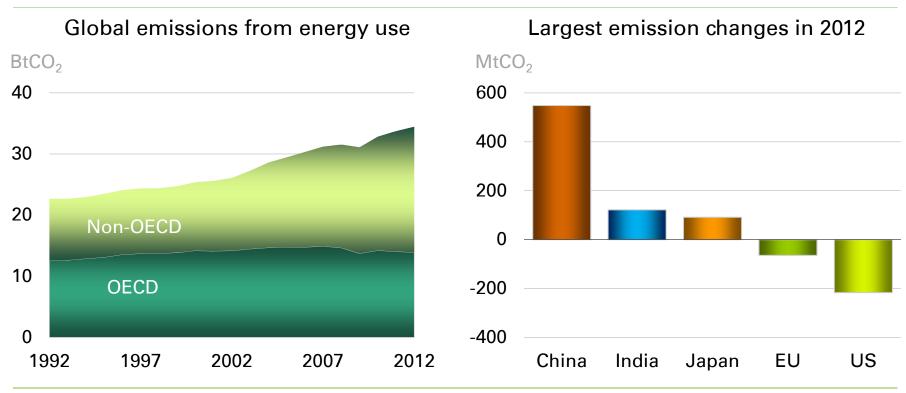
Annual change, %



Renewables share of power

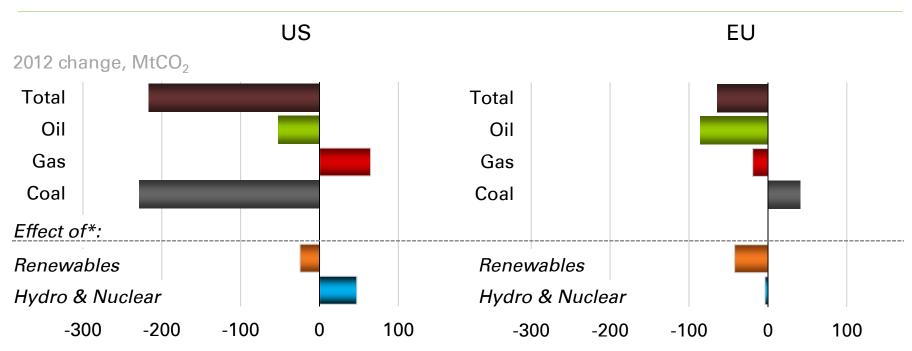


Carbon emissions



Carbon emissions by fuel: US and EU





^{*} The net effect of changes in non-fossil fuels in power on emissions, based on 2011 shares of fossil fuels in power generation

Conclusion



Energy in 2012

- Fundamental adjustment
 - And short-term aberrations
- Market and price driven
 - Sometimes with surprises
- Policy matters

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