

The future of gas in the EU energy market Philip Lowe

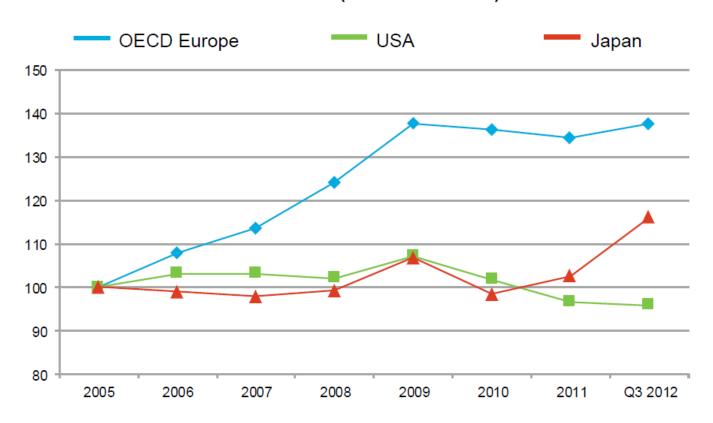
Director General for Energy European Commission





Current debate: energy prices and competitiveness

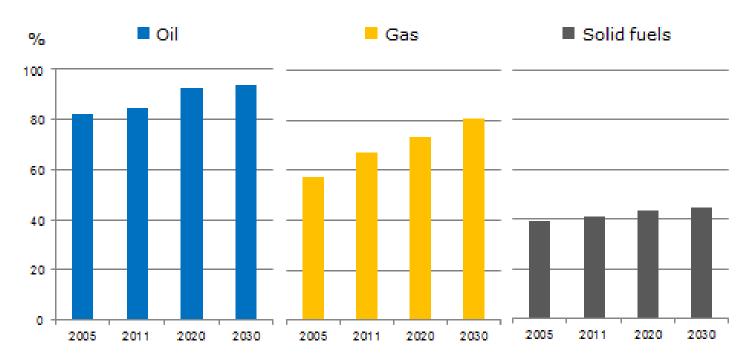
Evolution of end-user electricity prices for industry, taxes excluded (2005 = index 100)





Europe imports the equivalent of EUR 406 billion (3.2% of GDP) of oil, gas and coal every year and its dependence is expected to grow

Share of imported fuel in total EU consumption ("business as usual" scenario)

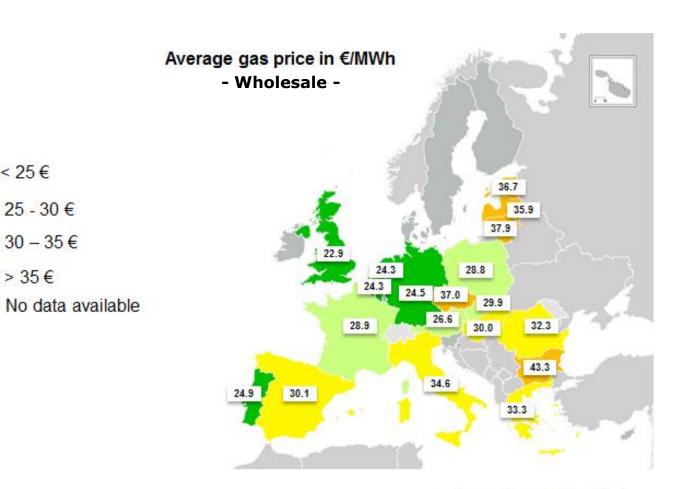




The future of gas depends on competitive prices

< 25€

> 35 €





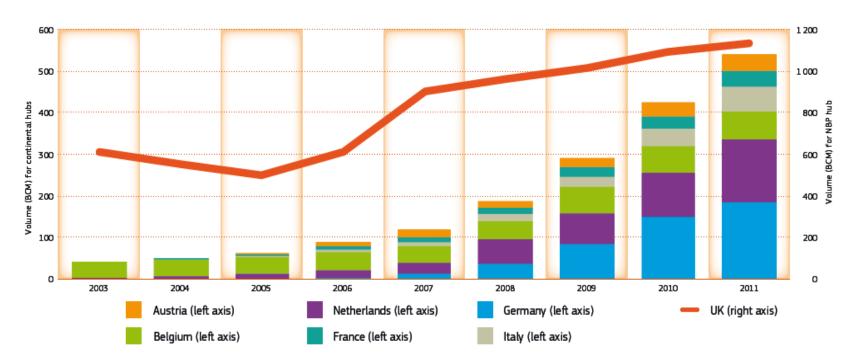
Competitive prices (ctd)





The future of gas depends on trade and integration

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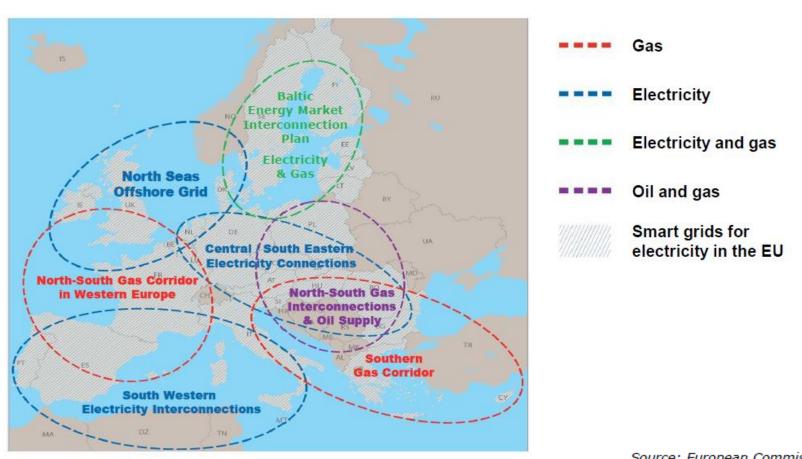
Source: IEA Medium-Term Gas Market Report

Note: The chart covers the following trading hubs: UK: NBP (National Balancing Point); Belgium: Zeebrugge; Netherlands: TTF (Title Transfer Facility); France: PEG (Point d'Echange Gaz); Italy: PSV (Punto di Scambio Virtuale); Germany: GASPOOL and NCG (NetConnect Germany);

Austria: CEGH (Central European Gas Hub).



The future of gas depends on interconnection





The future of gas depends on innovation(and public acceptance of new technologies)

Power-to-gas

CCS Smart gas

Shale/tight gas?

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The future of gas depends on regulatory certainty

EU Green Paper 2030 of 27 March 2013

Public consultation ongoing:

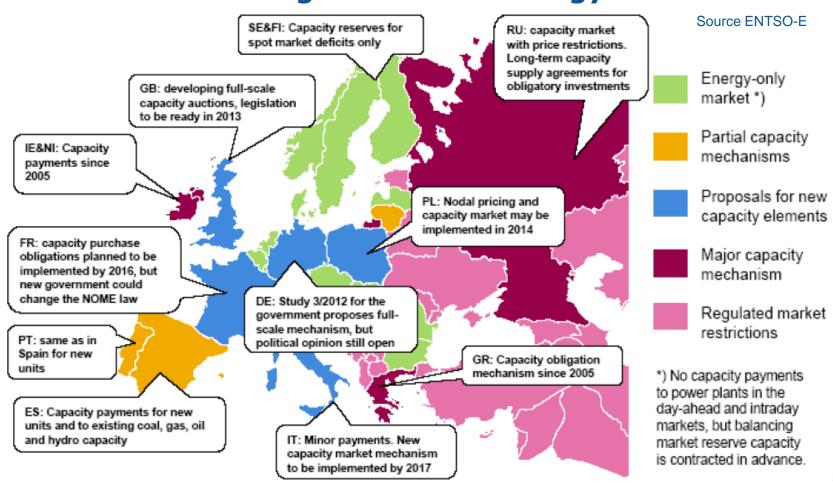
http://ec.europa.eu/energy/consultation s/20130702_green_paper_2030_en.htm



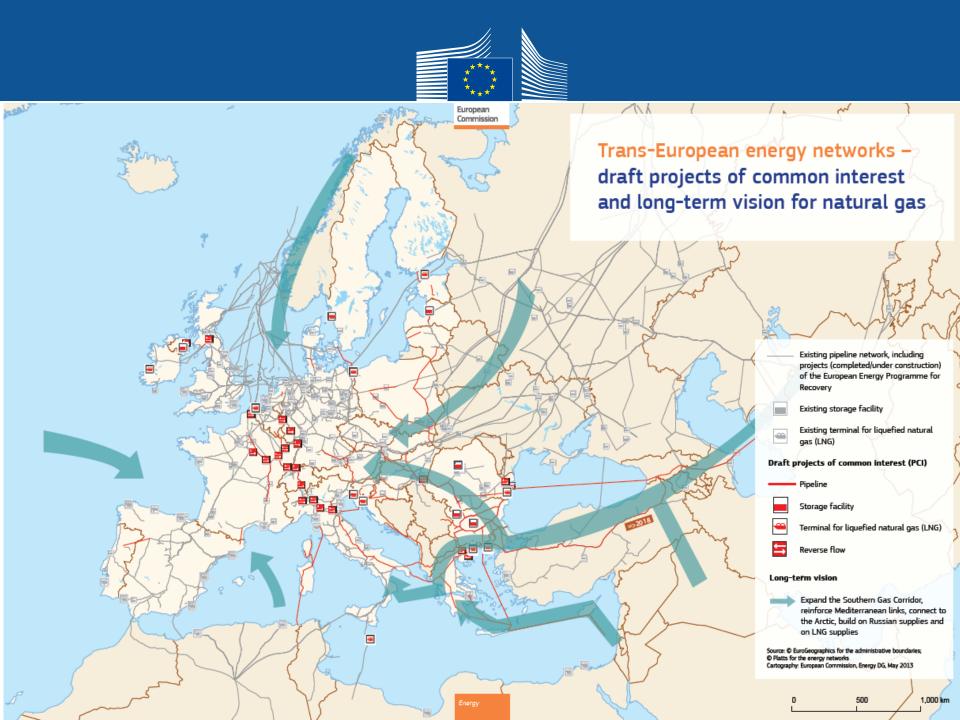
Back up and alternatives



National capacity mechanisms can have an impact on the further integration of EU energy markets

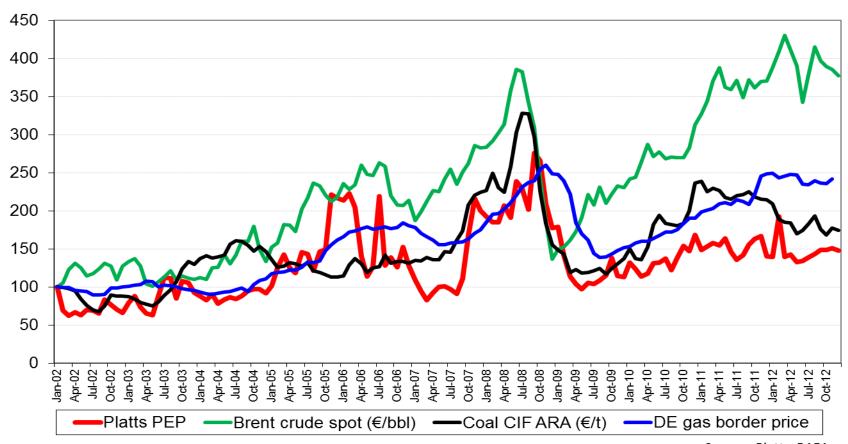


Source: Fortum





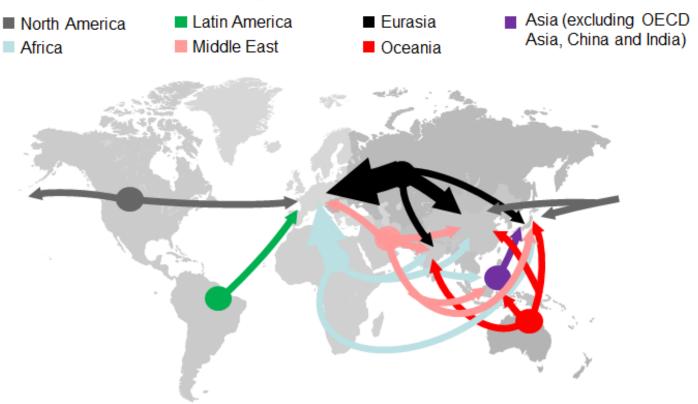
Future role of gas depends on its price





Rising supplies of unconventional gas & LNG help to diversify trade flows

Major global gas trade flows in 2035

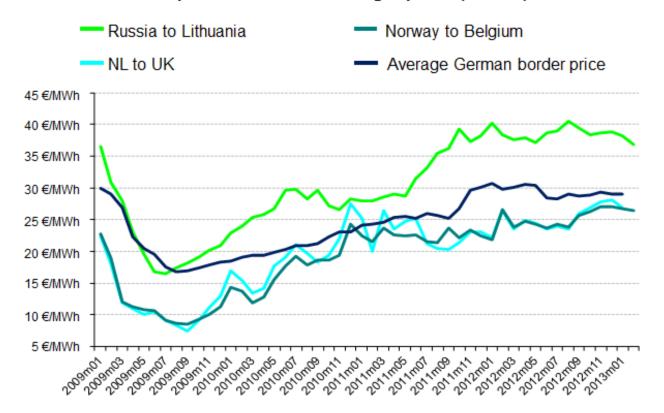


Source: International Energy Agency



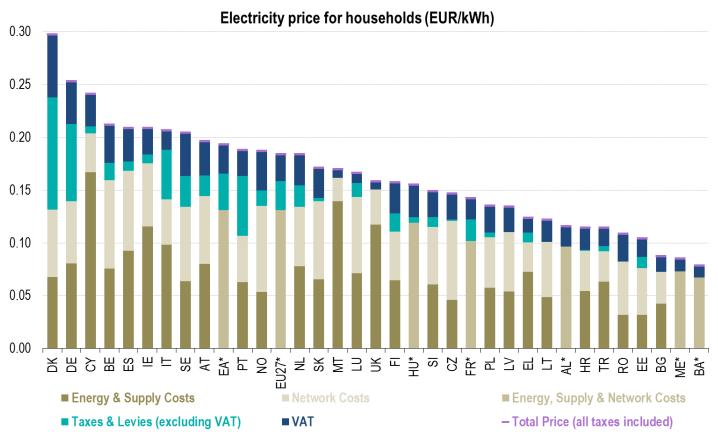
Gas prices become more competitive with more suppliers/sources

Comparison of EU wholesale gas prices (€/ MWh)





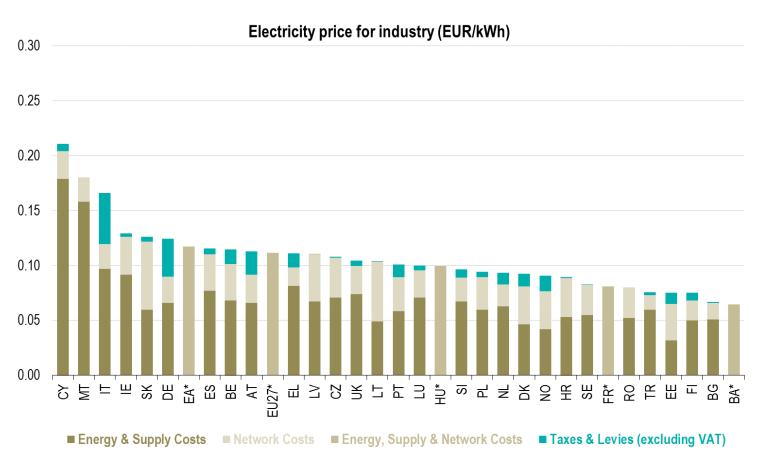
Importance of the non-energy component in household electricity prices



Source: Eurostat, average electricity price for households with annual electricity consumption between 2 500 and 5 000 kWh during 2nd semester 2011 * Disaggregated price data are not available, only total for "Energy, Supply & Network Costs" is shown.



Less differences across EU for industry prices

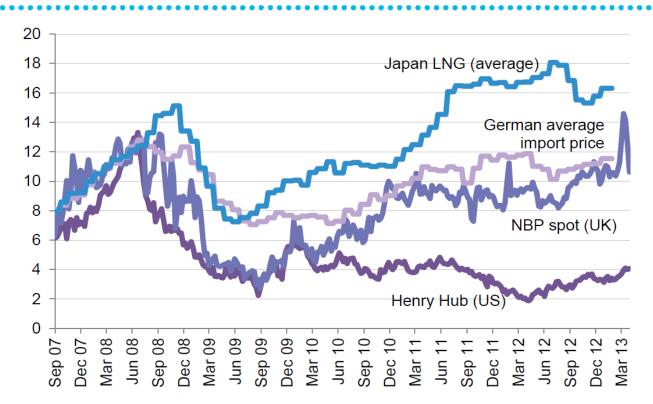


Source: Eurostat, average electricity price for industry with annual electricity consumption between 500 and 2000 MWh during 2nd semester 2011 * Disaggregated price data are not available, only total for "Energy, Supply & Network Costs" is shown.



American Liquefied Natural gas (LNG) can yield higher profits on Asian markets GLOBAL GAS PRICES

(\$/MMBTU)



Source: Bloomberg New Energy Finance, Japan LNG Corp, German Federal Office of Economics and Export Control