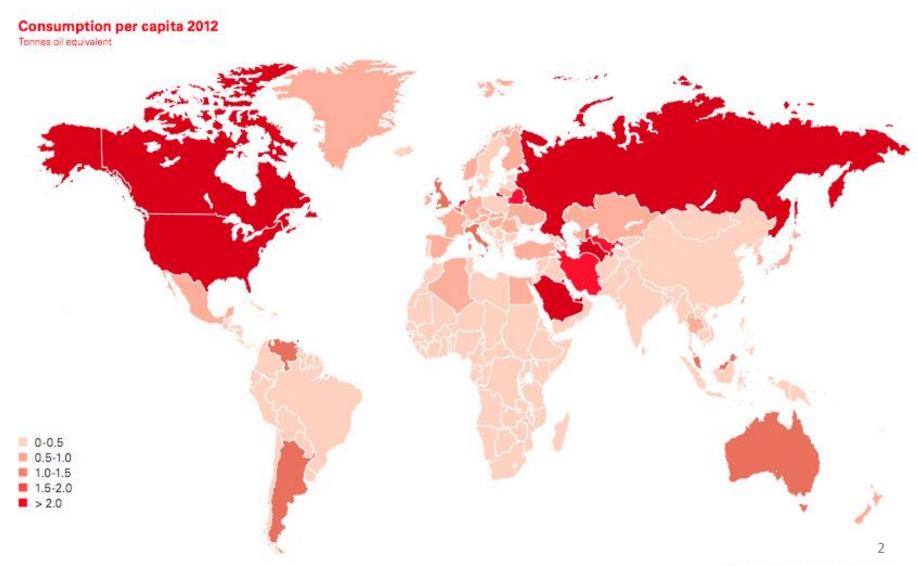
# **Danish Annual Gas Conference 2013**

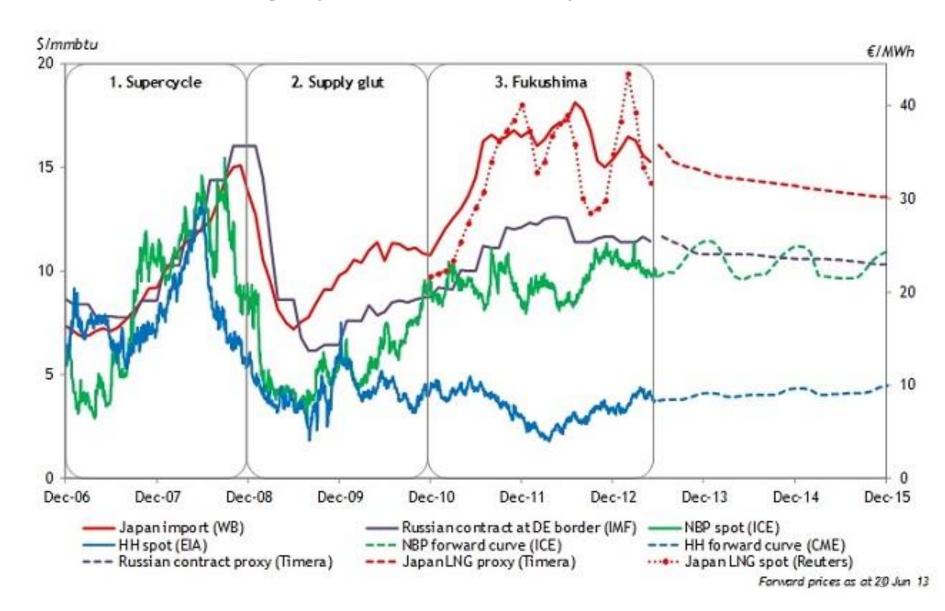
The Global Gas Strategy: the IGU way
Jérôme Ferrier
Président IGU

# Natural gas: a global market under construction

Source: BP Statistical Review 2013



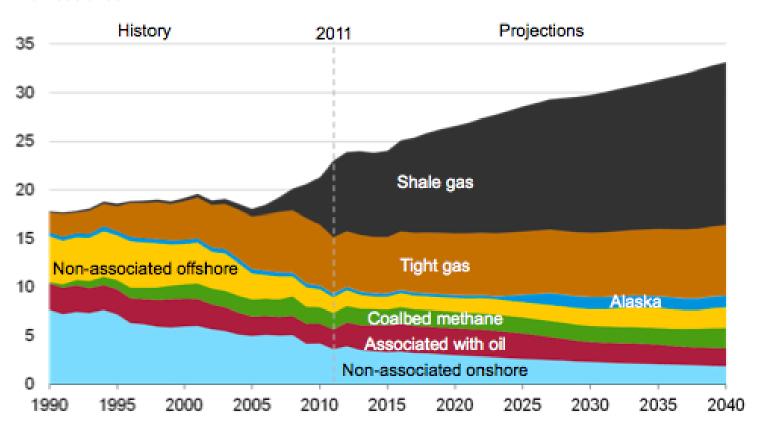
## Natural gas prices in Asia, Europe and the USA



# Shale gas leads growth of production in the USA

Source: EIA

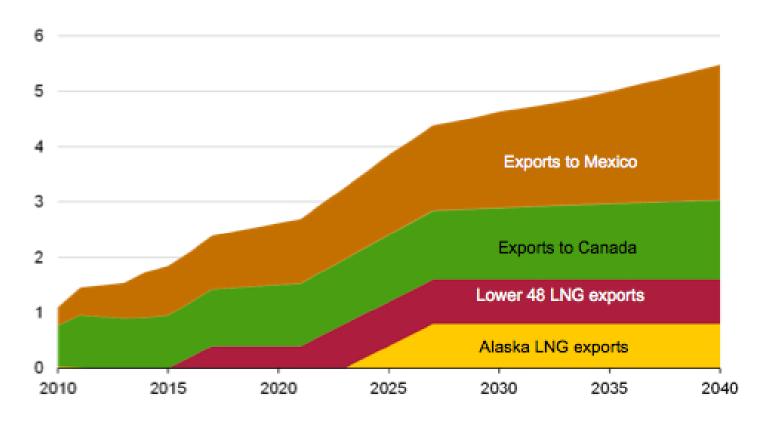
U.S. dry natural gas production trillion cubic feet



# Natural gas and LNG exports from the USA

Source: EIA

U.S. natural gas exports trillion cubic feet

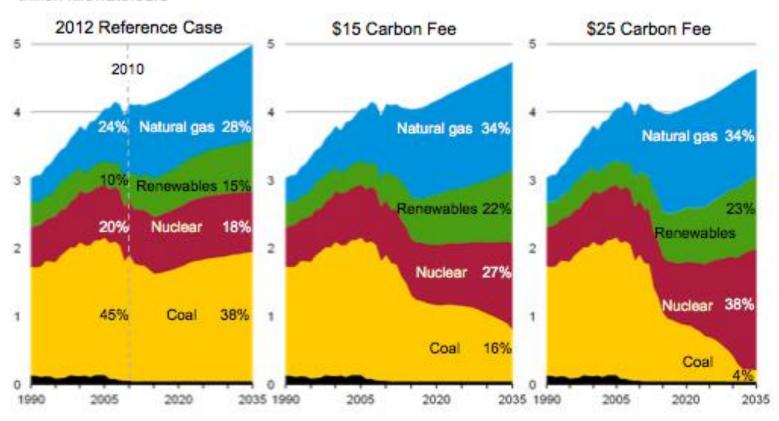


Source: EIA, Annual Energy Outlook 2013 Early Release

## Changing the electricity generation mix in the USA

Source: EIA

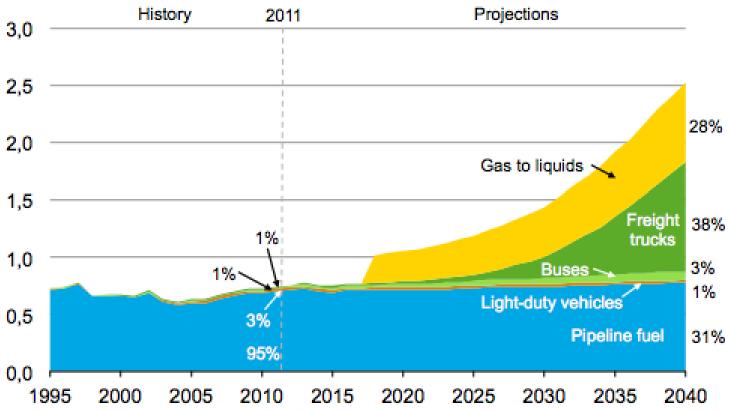
U.S. electricity net generation trillion kilowatthours



Source: FIA Annual Framy Outlook 2012

## The growth of LNG and GTL uses for transportation in the USA

U.S. natural gas consumption quadrillion Btu



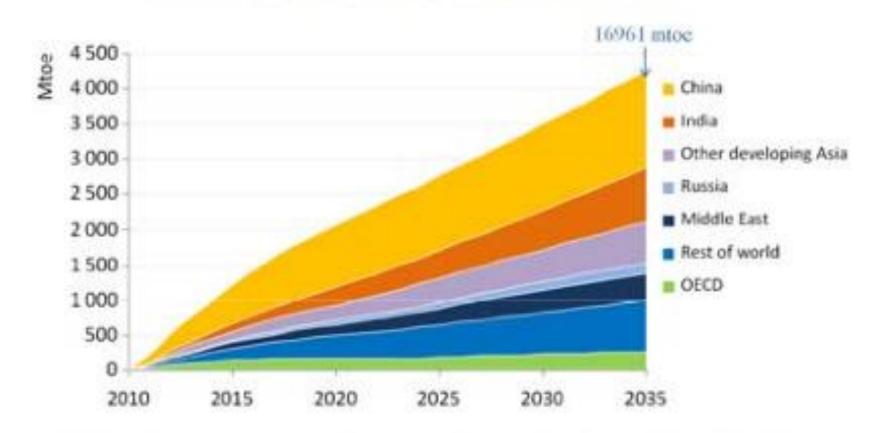
Note: Gas to liquids includes heat, power, and losses.

Source: EIA, Annual Energy Outlook 2013 Early Release

# Emerging economies, aminly Asia, drive the energy demand

Source: IEA

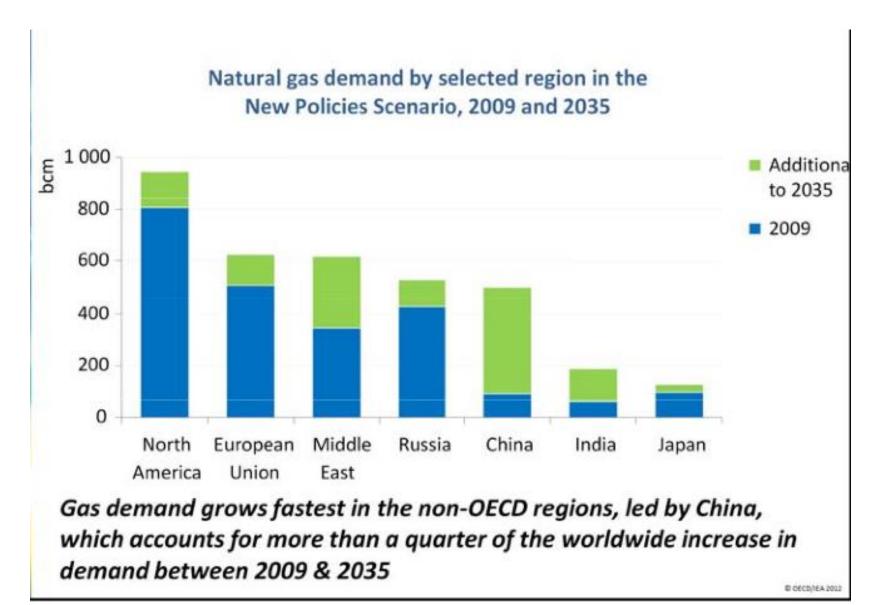
#### Growth in primary energy demand - by region



Global energy demand increases by one-third from 2010 to 2035,
 with China & India accounting for 50% of the growth

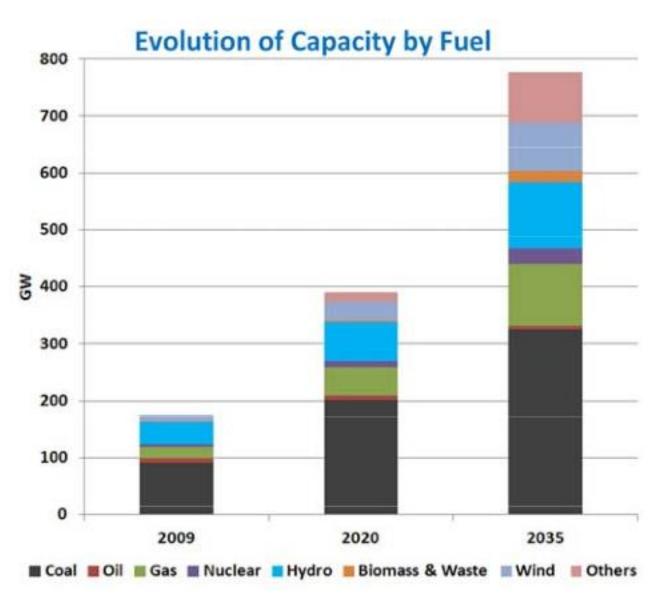
### Natural gas demand growth comes mainly from Asia

Source: IEA

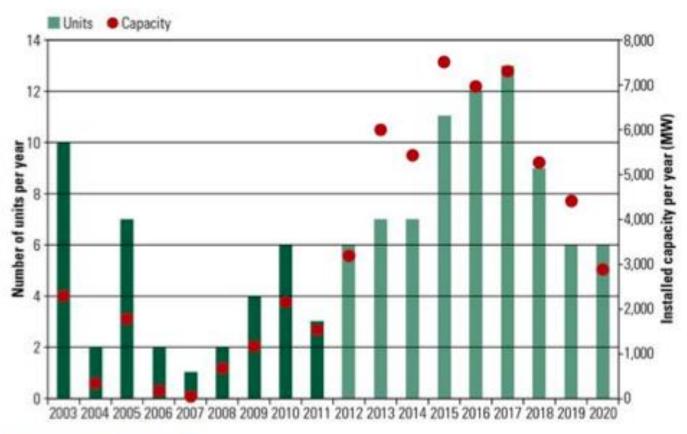


## Power capacity projections in India (GW)

Source: IEA



# New coal-fired power capacities in Europe

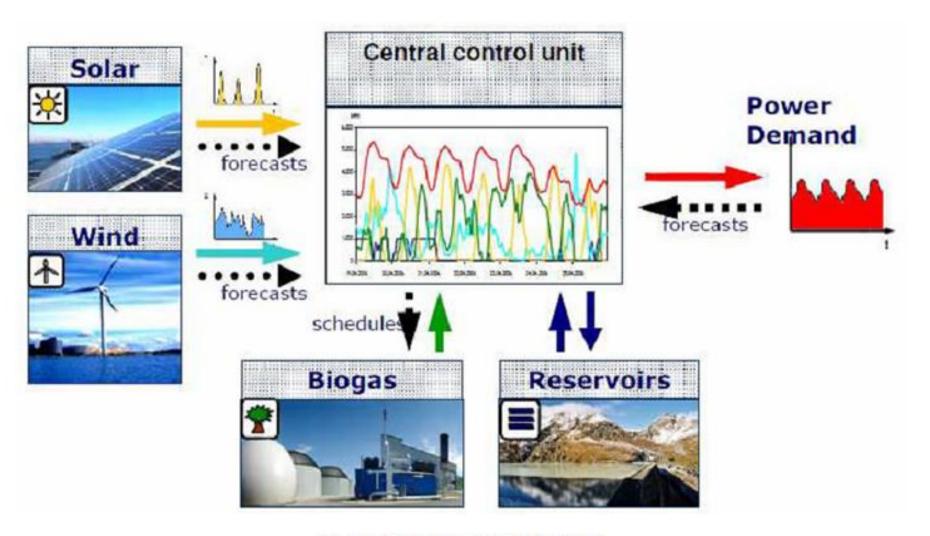


Source: Ecoprog GmbH.22

# The UK Emissions Performance Standards (EPS) Energy Bill 2012 - 2013

- EPS requires that any new coal fired power plant demonstrate CCS on at least 300 MW of the proposed generating capacity
- Sets a CO2 emission limit at 450 g/kWh until 2045
- Guarantees stability od emission regulation until 2045 (grandfathering)
- EPS complements the economic signals provided by the Carbon Floor Price and, when applicable, the feed-in electricity purchase tariff with Contract for Difference (CFD)
- EPS gives incentives to « Good Quality » CHPs, by discounting the volumes of CO2 saved in the heat production by displacing other fossil fuels

# Synergy between smart gas and electricity grids



Source : Agentur fur Erneuerbare Energien

# **Energy poverty is widespread**

**SOURCE: IEA** 

