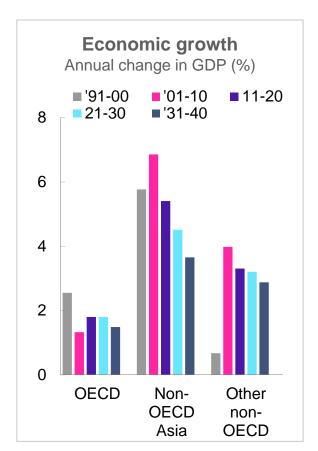
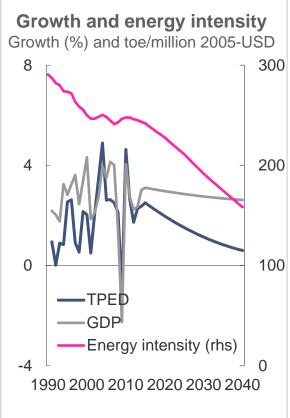


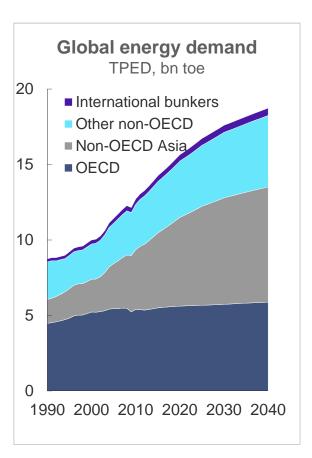


Growth, efficiency and energy demand

Non-OECD driving growth, energy efficiency to improve by almost 40%





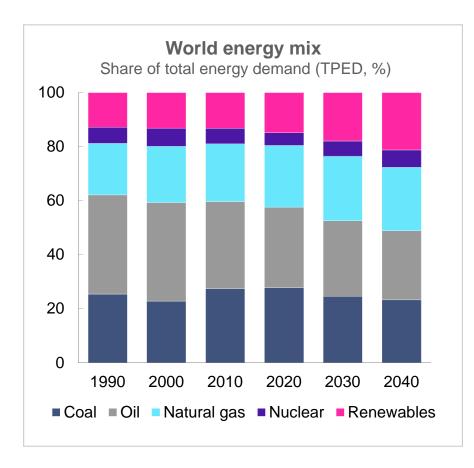


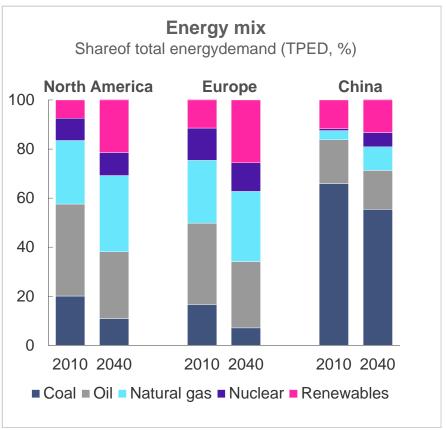
Source: IHS Global Insight and IEA, Statoil



Gradual greening of energy mix

... but fossil fuels constitute 72% of total energy demand in 2040



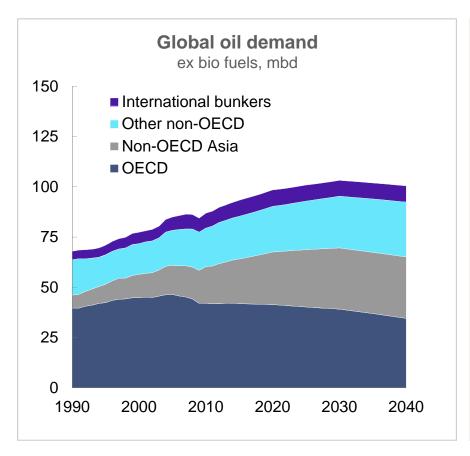


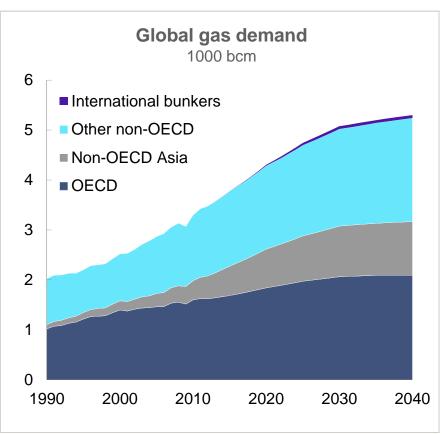
Source: IEA, Statoil



Fossil fuels are here to stay

Emerging economies drive demand growth - oil demand peaks ~ 2030



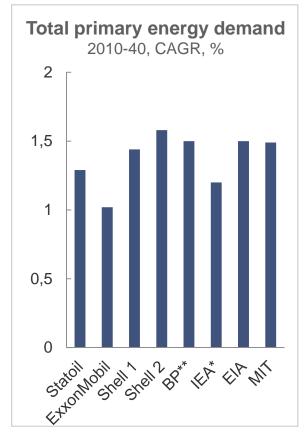


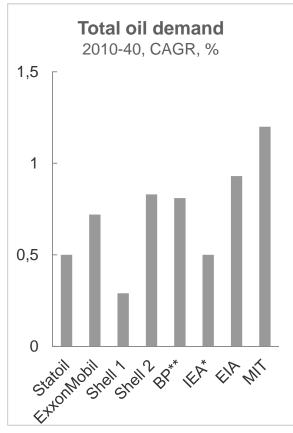
Source: IEA, Statoil

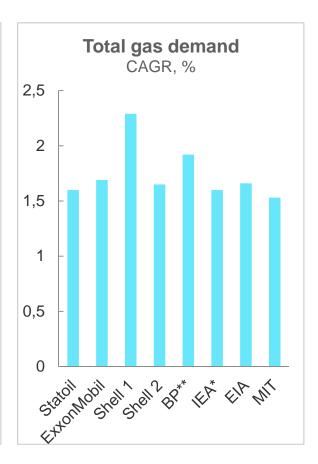


Different forecasts are relatively similar...

Could there be something that all of us are missing?





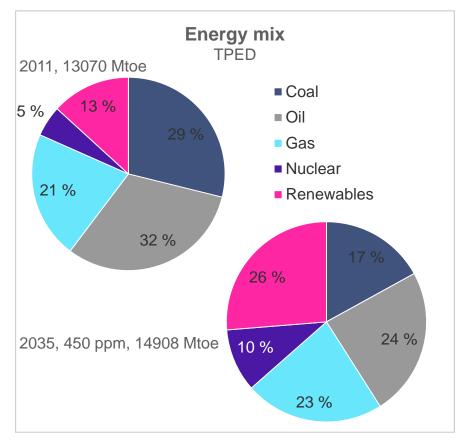


* 2011-35, ** 2012-35



A key challenge of relevance to all

The world needs fossil fuels, but must address CO₂ emissions



- 64% of TPED in 2035 in IEA's 450 scenario
 - 20% more gas than today, only 13% less oil, but 33% less coal – HOW?
- Gas as a bridging fuel, but losing out to coal in key regions?
 - Carbon price/tax, pricing/regulation of local pollution
 - What is the potential for unconventional gas outside North America?
- Who/what will drive development of CCS?
 - Both producers and consumers?
 - Carbon price/tax?
 - Subsidies for technological development

Source: IEA



There's never been a better time for good ideas

