

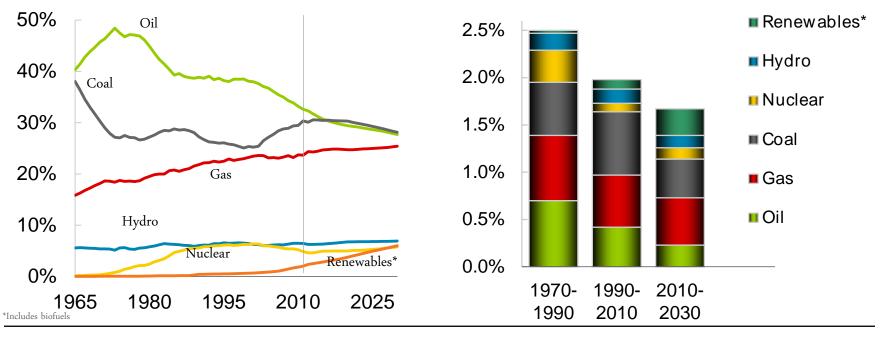
Outlook of Energy Mix Diversification International Oil & Gas Executive Forum, Beijing, Dec 18, 2013

Dr. Chi Zhang, Head of Asia Economics, BP



Shares of world primary energy

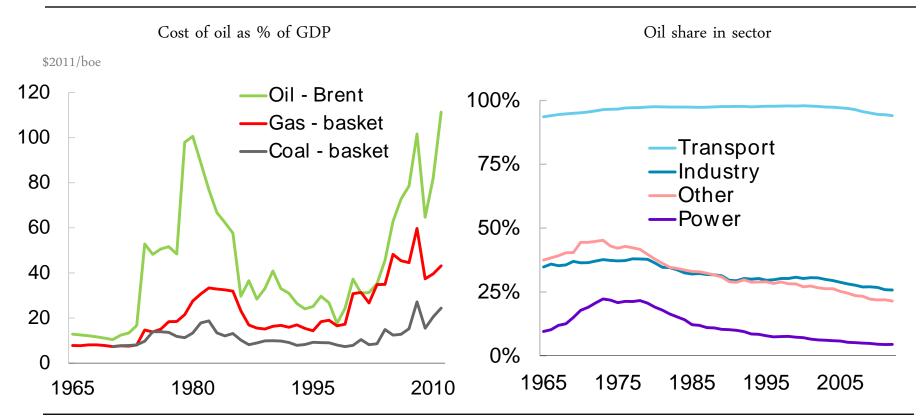
Contributions to growth



Source: BP Energy Outlook 2030

Oil loses share in sectors where it faces competition because it's expensive

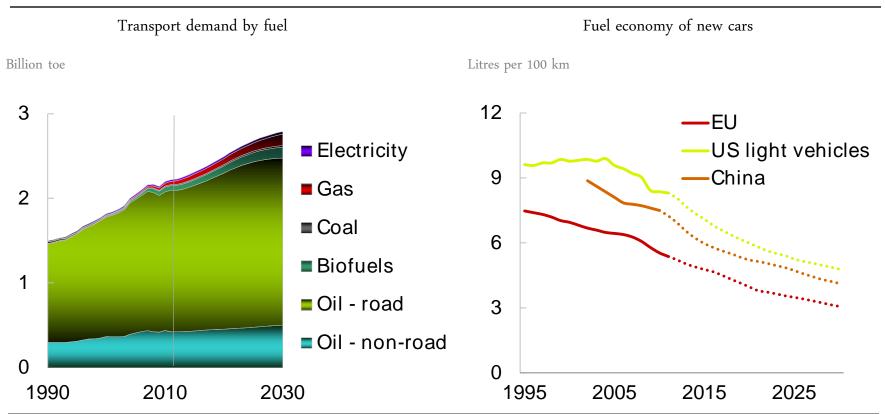




Source: Includes data from the BP Statistical Review of World Energy and International Energy Agency © OECD/IEA 2012

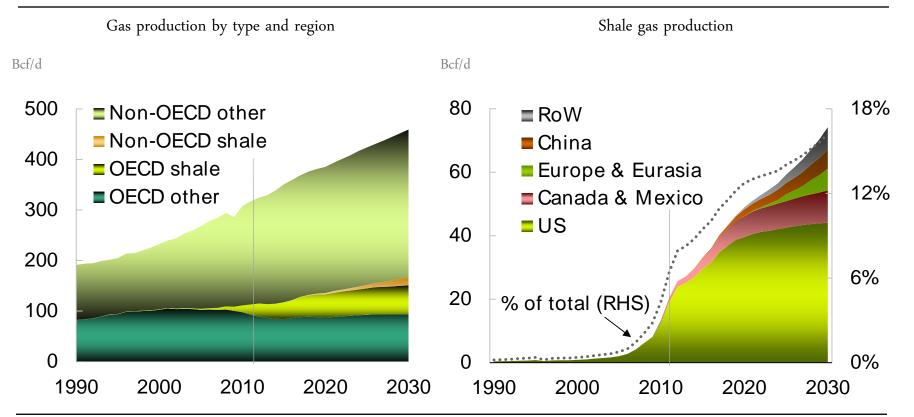
Demand is weak even in transport





Unconventional gas booms thanks to technology



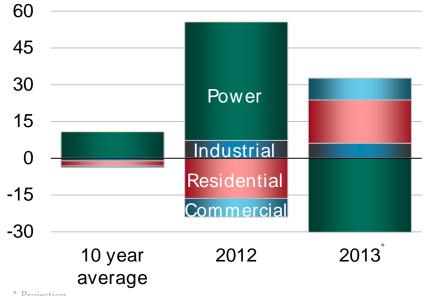


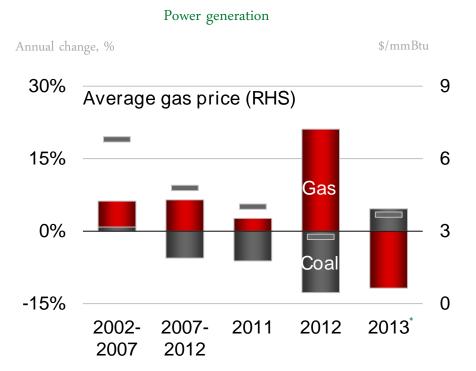
Source: BP Energy Outlook 2030



Natural gas consumption growth

Annual change, Bcm





* Projection

Source: includes data from the BP Statistical Review of World Energy and Energy Information Administration and Platts

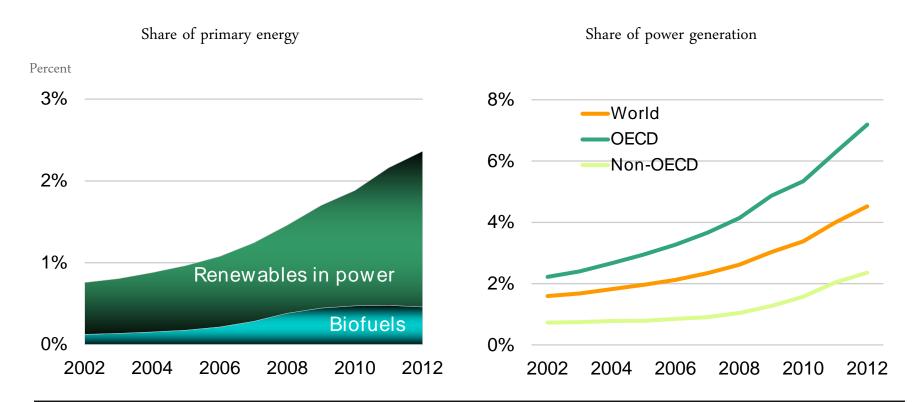




Source: includes data from the BP Statistical Review of World Energy, Platts, IHS McCloskey and Intercontinental Exchange

Renewables rise, supported by policy





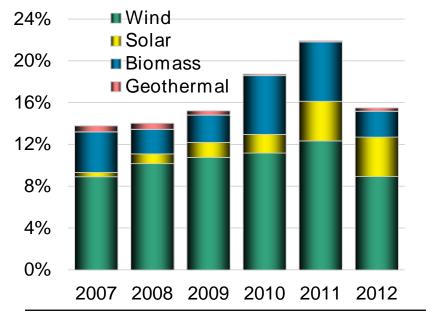
Source: BP Statistical Review of World Energy 2013

Renewables in power generation



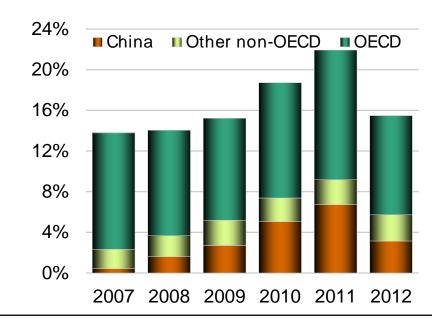
Contributions to growth by type

Annual change, %



Contribution to growth by region

Annual change, %



Source: BP Statistical Review of World Energy 2013



- Economics, technology, climate change and local environmental protection policies drive long-term energy diversification
- The rise of renewables is rapid, but it just takes time for them to grow shares in the mix
- As a "bridge fuel", natural gas will growth the fastest among fossil fuels to help lower emissions of carbon and local pollutants