

BP Statistical Review of World Energy

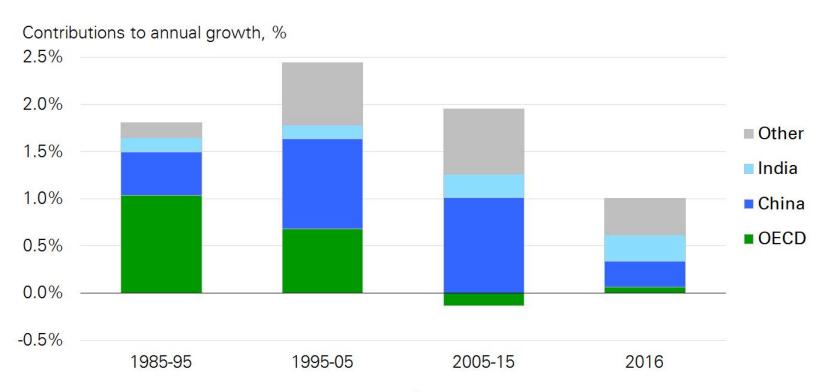
June 2017

Energy in 2016: short-run adjustments and long-run transition

Damian Bilbao VP, Commercial Ventures – BP Alaska

Energy consumption growth

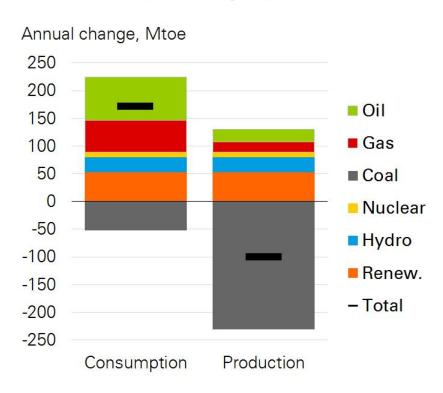




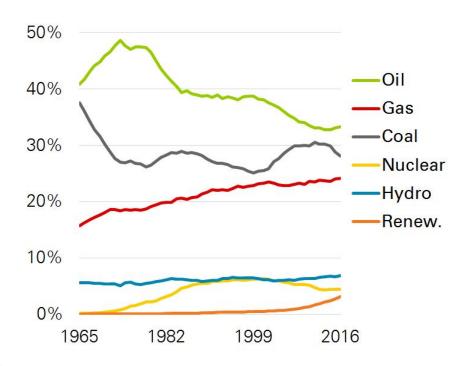
Fuel mix: growth and shares in primary energy



Growth by fuel



Shares of primary energy consumption

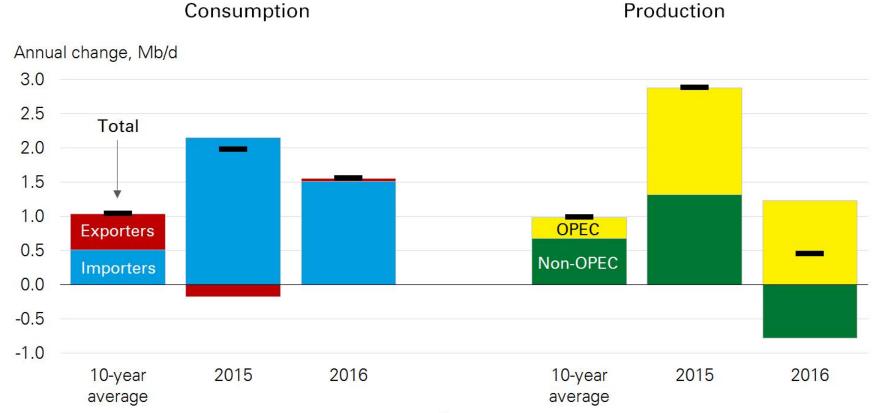




Oil

Oil market in 2015 and 2016

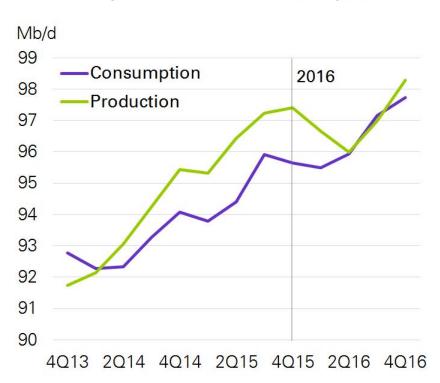




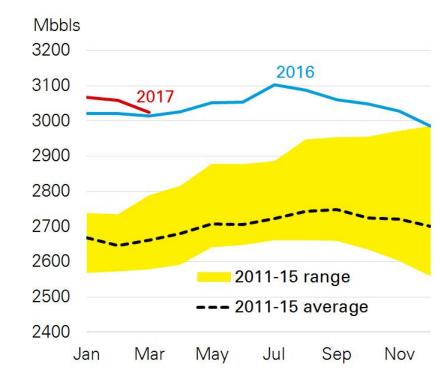
Oil market: balance and inventories



Oil production and consumption



OECD commercial inventories





US Tight Oil

US tight oil rigs



Change in US tight oil rig count





OPEC



"OPEC remains an important catalyst to the stability and sustainability of the market... but history has also demonstrated that intervention in response to structural shifts is largely ineffective... that's why Saudi Arabia does not support OPEC intervening to alleviate the impacts of long-term structural imbalances, as opposed to addressing short-term aberrations...."

HE Khalid Al-Falih
Minister of Energy, Industry and Mineral Resources, Saudi Arabia
CERAWeek, March 2017

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Oil prices





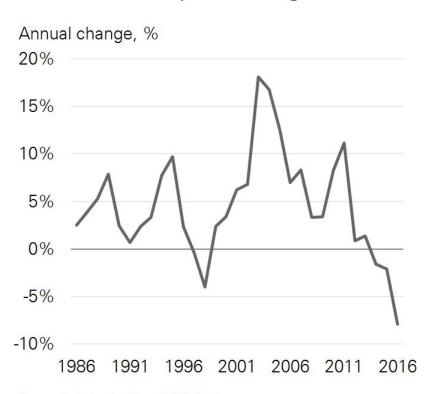


Coal

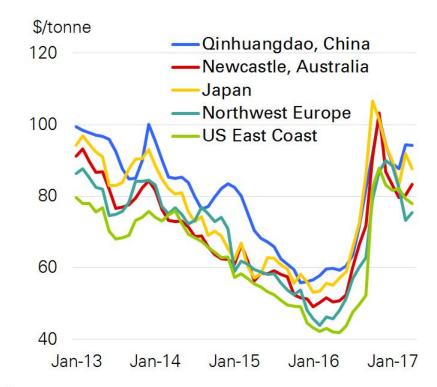
Chinese coal production and global prices



Coal production growth



Steam coal prices



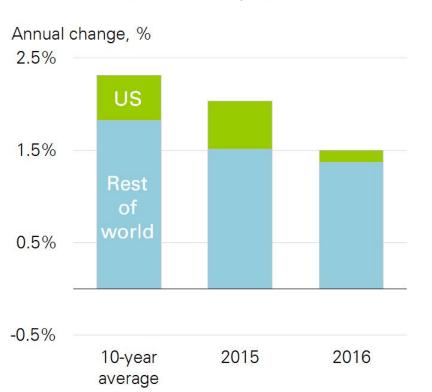


Natural gas

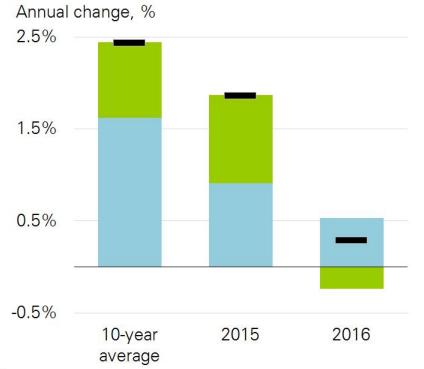
Growth in natural gas demand and supply



Gas consumption



Gas production

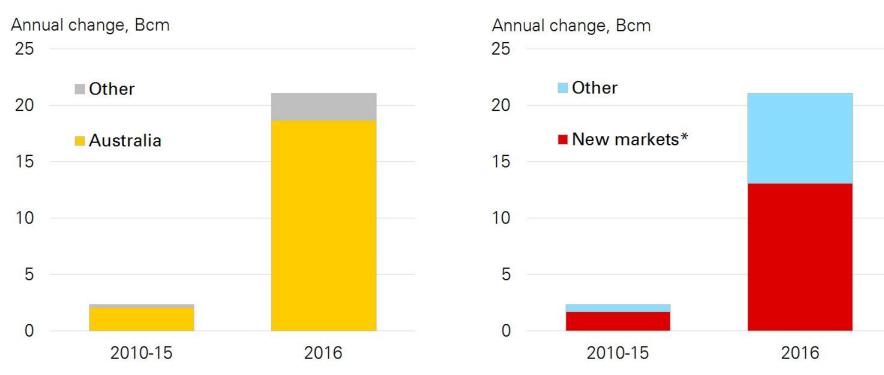


LNG trade





Imports



^{*} Includes Egypt, Pakistan, Poland, Jordan, Jamaica, Colombia and Lithuania 22



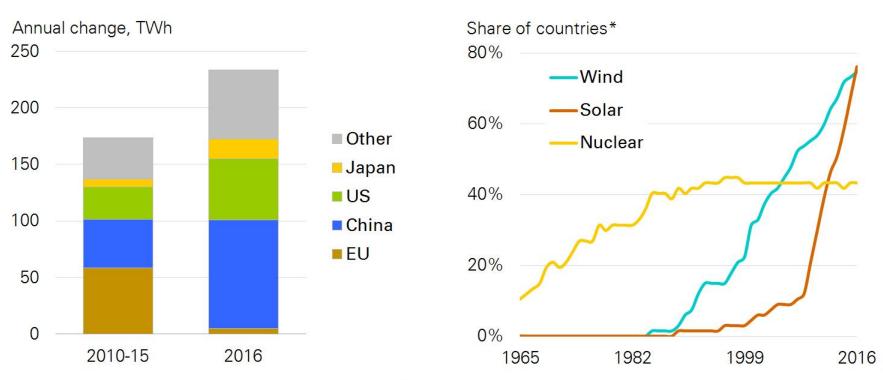
Renewables

Growth and diffusion of renewables









^{*} The proportion of the 67 countries that are individually listed in the Statistical Review with power generation of at least 50 GWh from the specified technology

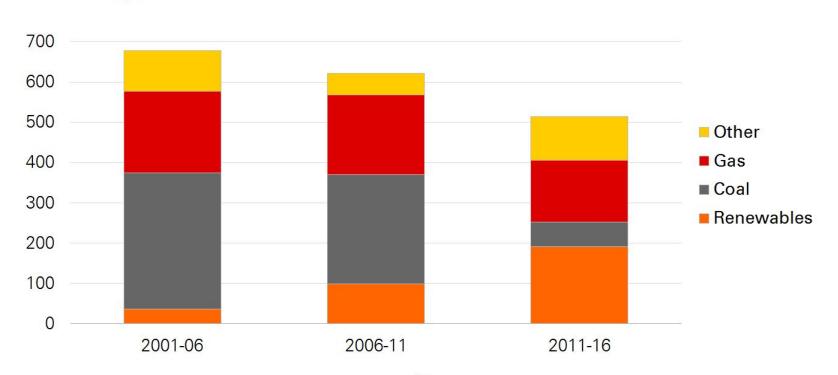


Power

Growth of power generation by fuel



Annual change, TWh



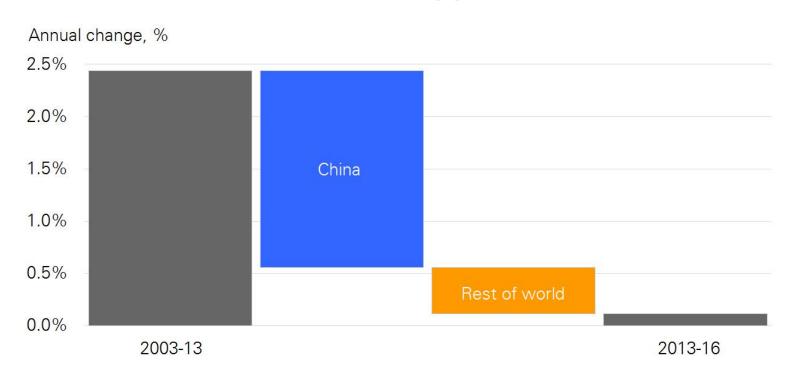


Carbon emissions

Changes in growth in carbon emissions



Factors slowing growth in CO₂



Conclusions



Energy in 2016: short-run adjustments and long-run transition

- weak growth in energy demand and carbon emissions driven by both factors
- strong growth in oil demand as market adjusted to excess supplies
- rapid growth in renewables and further falls in coal driven by energy transition



Pioneering the Past, Fueling Alaska's Future



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Energy in 2016: short-run adjustments and long-run transition

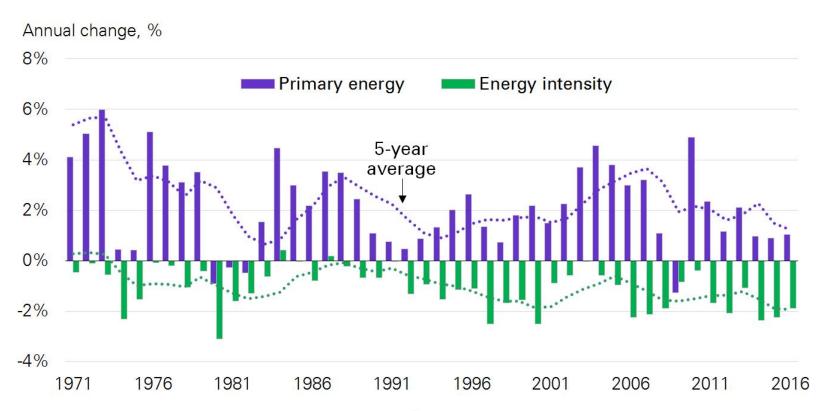
Mark Finley



Backups

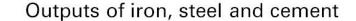
Primary energy and energy intensity



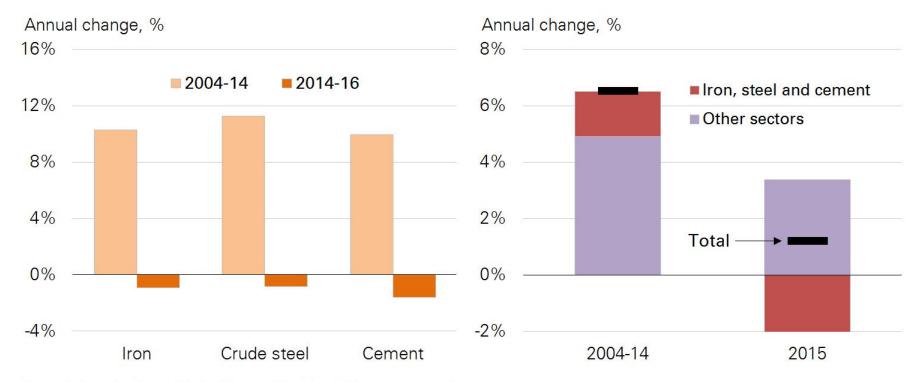


China industrial output and energy demand





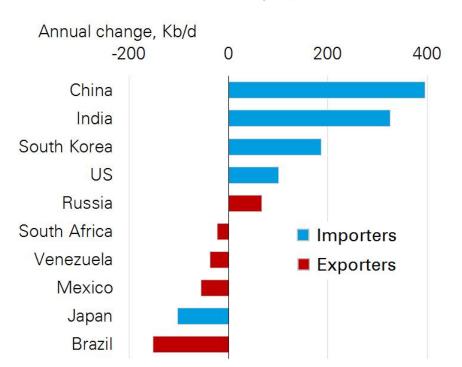
Contributions to energy demand growth



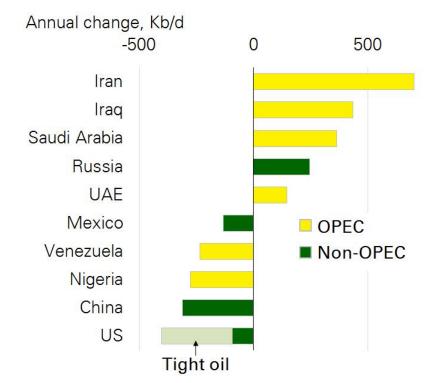
Largest changes to oil demand and supply



Oil consumption



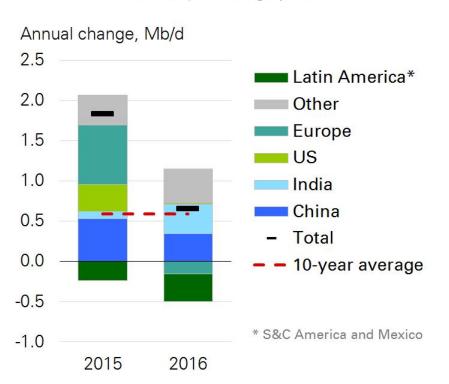
Oil production



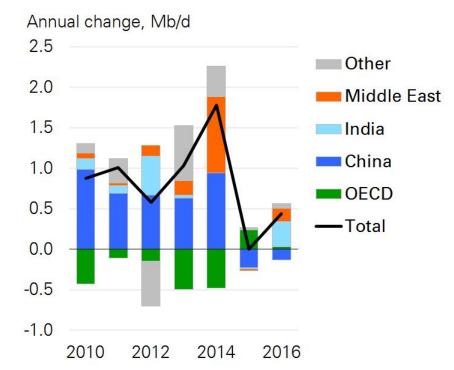
Refinery throughput and capacity



Refinery throughput

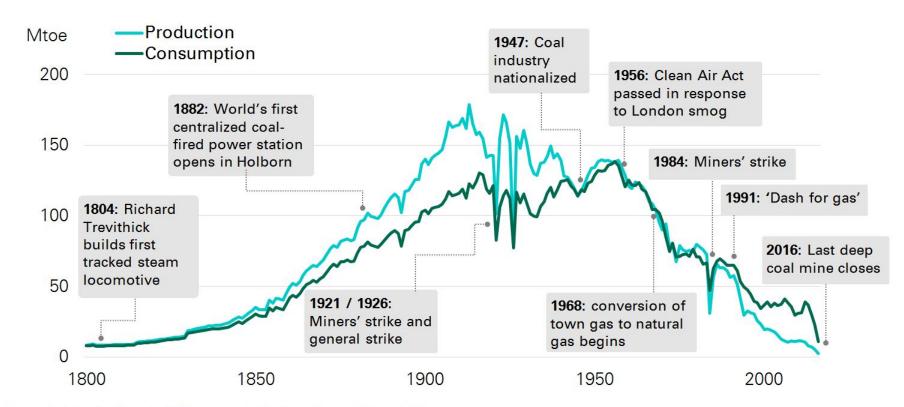


Refining capacity



UK coal





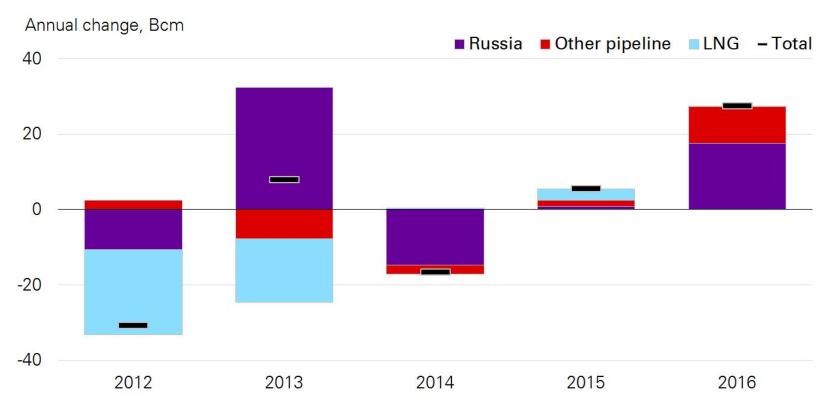
LNG market characteristics





European gas imports

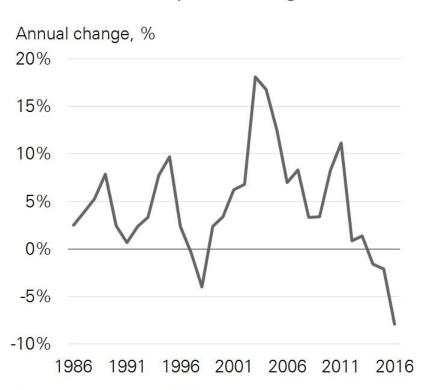




Chinese coal production and prices



Coal production growth

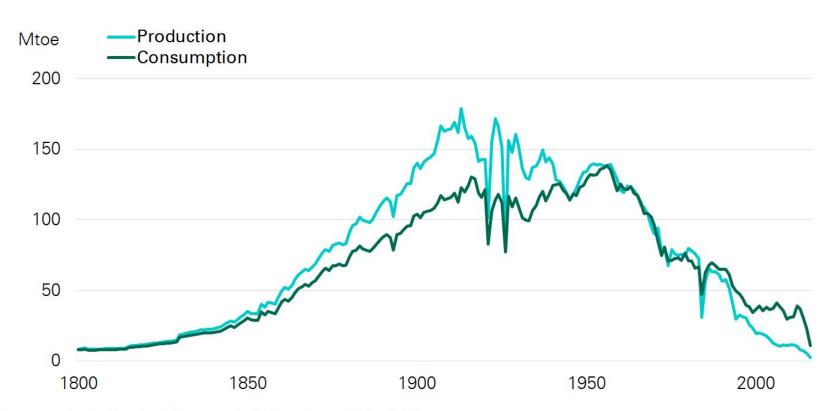


Steam coal prices



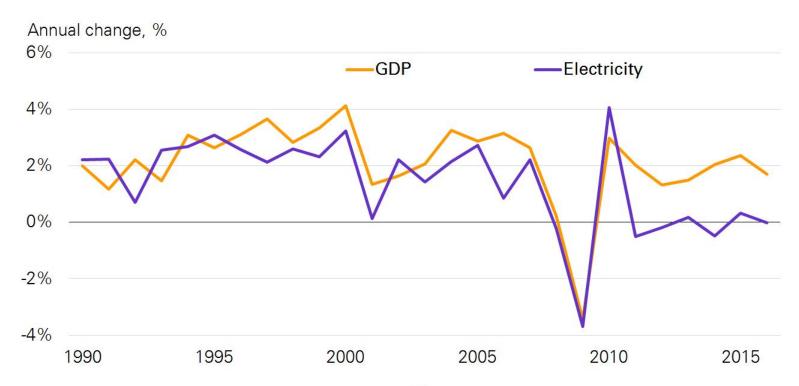
UK coal





OECD GDP and electricity consumption





Growth in carbon emissions



Growth in GDP and carbon emissions

