

Natural Gas and Coal Supply Chains Moving Towards Sustainability

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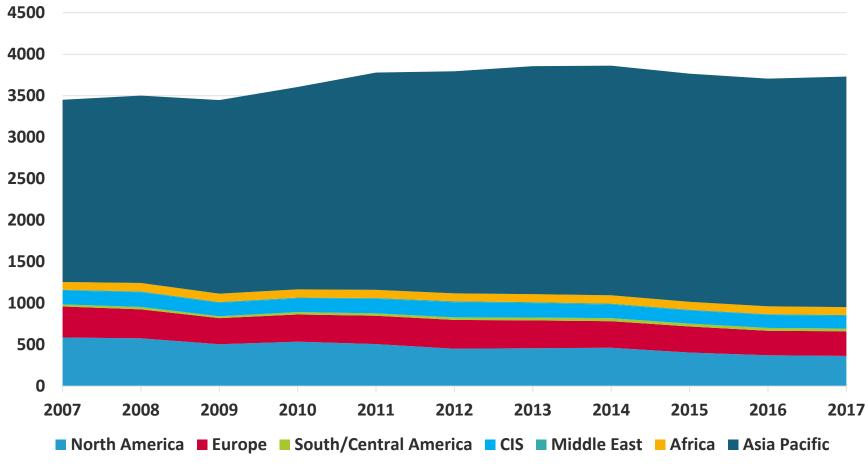
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- Global energy trends and projections
- Sustainable Solutions
- Three Key Challenges

Global Coal Consumption 2007-2017

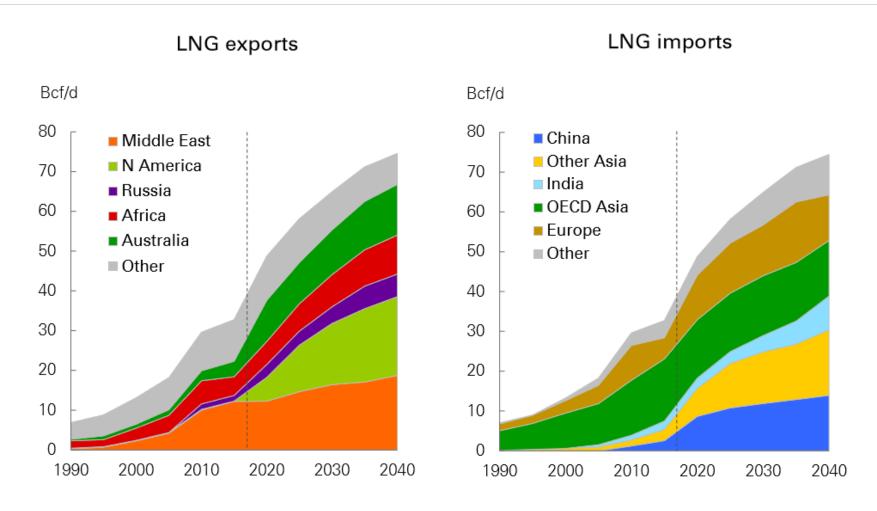
Global Coal Consumption



Source: BP Statistical Review of World Energy 2018



LNG Producer & Consumer Trends

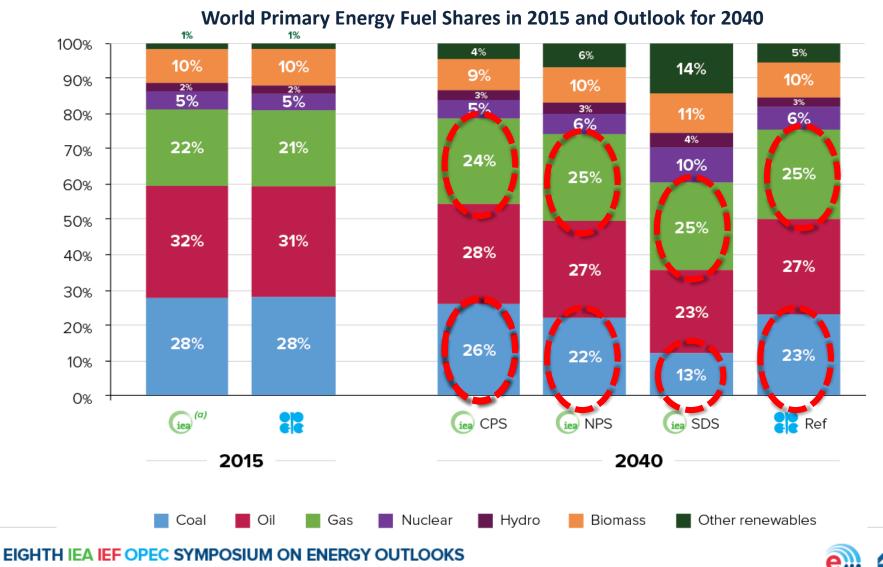


Source: BP Outlook, 2018



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Coal and Natural Gas Remain Relevant in 2040 in main IEA and OPEC 2016 outlooks



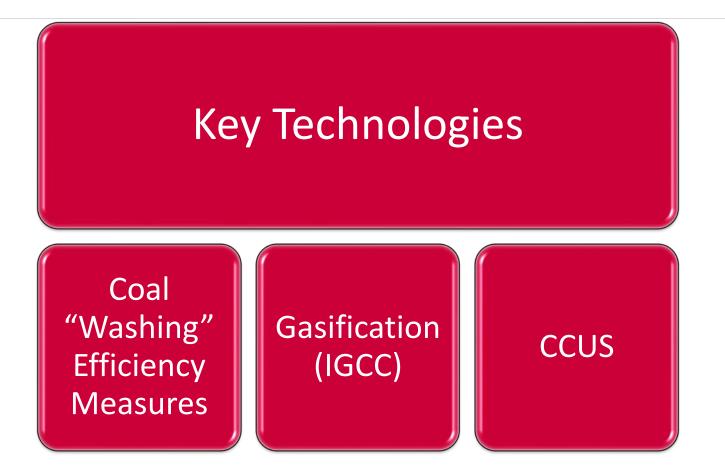
A COMPARISON OF RECENT IEA AND OPEC OUTLOOKS

Sustainable Solutions - Coal



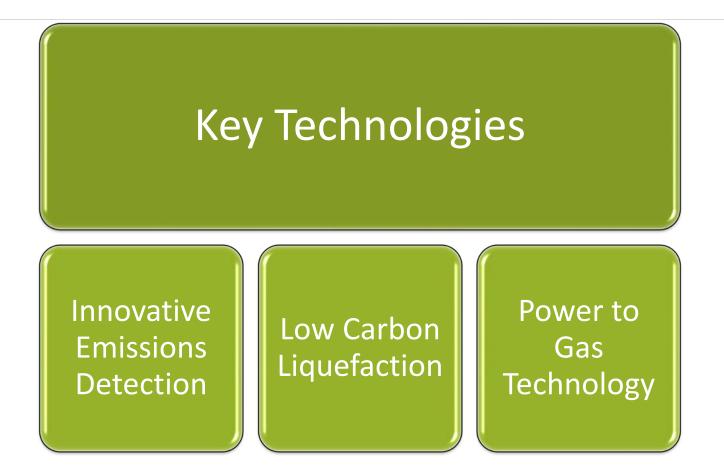


Sustainable Solutions - Coal



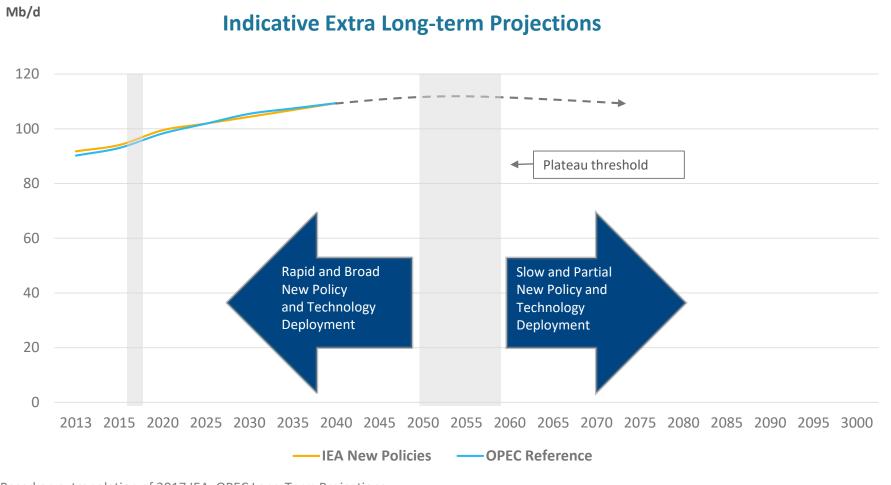


Sustainable Solutions - Gas





Policy and Technology Cooperation is key Depth and breadth of dialogue and cooperation decide pace of change



Based on extrapolation of 2017 IEA, OPEC Long-Term Projections



3 Key Challenges

- 1. High Capital Costs
- 2. Slowing Transition
- 3. Overcoming Technology Plateau





Key Dialogue Meetings

- 1. The 6th IEF-IGU Ministerial Gas Forum on 21-22 November 2018 in Barcelona, Spain
- 2. The 9th IEA-IEF-OPEC Symposium on Energy Outlooks on 27 February 2019 in Riyadh, Saudi Arabia
- 3. The 8th Asian Ministerial Energy Roundtable on 9-10 September 2019 in Abu Dhabi, UAE and
- 4. The 17th IEF Ministerial Meeting in China in 2020







KNOWLEDGE ENERGY GENERATION SECURITY Through Dialogue Through Dialogue ENERGY TRANSITION Through Dielogue