Session 1 - Key Developments in Oil and Gas Trade With Asian Growth Markets

The Role of New Energy Policies and Technologies in Trade with Asia

(Kamel Ben Naceur, Nomadia Energy Consulting)
The Role of New Energy Policies and Technologies in Trade with Asia

- Global trends in energy demand
- Oil supply, demand trade and refining evolution
- Gas trade evolution
- Electricity/Renewables/Nuclear
- Decarbonization requirements
China’s growth in low-carbon generation represents 1/3 of the total. Coal in China decreases while oil and natural gas expand.

Source: WEO 2018,
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- Global trends in energy demand
- Oil supply, demand trade and refining evolution
Oil demand increase shifts from China (2000-2030) to India (2010-2040)

Source: WEO, 2018
Evolution of Oil Trade (2000-2040)

Net Imports of Oil by Region

Oil Net Exports (2000-2040)

Source: WEO 2018, Nomadia
By 2040, more than 50% of the world’s oil refining capacity will be East of Suez, with the largest increases in the M. East, China, India and S.E. Asia.

Source: WEO 2018, Nomadia
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• Demand for natural gas increases in all sectors in China, specially in power & industry
• China’s net gas imports will reach EU’s level by 2040
• Natural gas in China’s energy mix increases from 6% today in 15% in 2040

Source: IEA
• China will see the second largest gas production (200 bcm), after the United States, becoming one of the top-5 largest gas producers
• Half of the natural gas production increase in China is associated with unconventionals

Source: IEA
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Electricity Generation Expansion by Type

- European Union
- China
- Korea
- C & S America
- Japan
- World
- United States
- India
- Africa
- Southeast Asia
- Middle East

Source: IEA
Nuclear Capacity Evolution (2010-2040)
Transport: China Leads the Electrification

Source: IEA
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- Decarbonization requirements
• An average abatement 9 Gt of CO₂ per year is required between now and 2040
• The main 3 decarbonization wedges represent nearly 90% of the requirement
• Collaboration on carbon markets and regional trade

Source: IEA-WEO 2018
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