Gas, Renewables & Power in Africa

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African primary energy demand to grow in the coming decades

Source: BP Statistical Review June 2016, IMF, thierrybros.com
Africa comes on the energy scene post-COP21...

- Need to move away from coal in its energy mix.
- Energy storage not yet available.
- Could be a solution but price sensitive.
... When energy transition is in full swing...

Centralized system
- Nuclear
- Big oil & gas projects

Decentralized system
- Empowering
- Consumers
...With unexpected results in Europe!

EU Primary energy consumption Down by 10,9% since 2006

Most fuels down Renewable x3.5

Source: BP Statistical Review June 2016, Eurostat, thierrybros.com
# Way ahead for Africa

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Power in Africa

• Anchor electricity customer
  - Long term power purchase agreement to ensure reliable off-take of all generated electricity
  - Creditworthiness?
  - Putting every requisite component in place can be challenging
  - Reduced risks (technology, forex, etc.)

• From renewables
  - Bright future but integration not straightforward
  - Difficult to manage grid with variable generation

• From floating regas
  - Short term solution that fills a strategy gap
  - Illiquid asset with a readily accessible route for an exit
LNG supply growth provides an opportunity

In India, LNG landed prices declined by 38% in 2016 vs 2015, allowing a volume increase of 30%
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The Foundation of our Research Agenda

The Future of Gas in the Global Energy Mix

The Environment

Sources of Gas Demand

The Geopolitics of Gas

The Impact of Decarbonisation

Commercial Analysis

Future Gas Supply

The Impact of Technology

Price Evolution

Regulation

Policy Issues