The LNG market in transition

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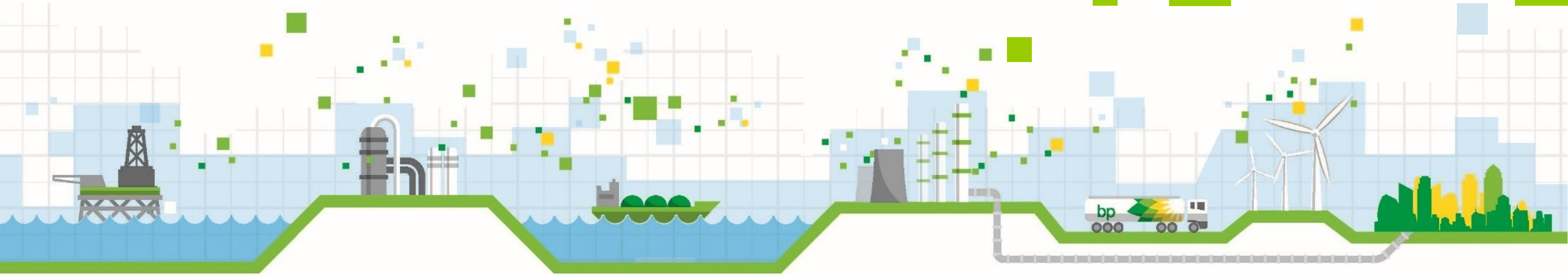
Eastern Partnership Network on LNG, Warsaw

20th February, 2019



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Navigating the evolving LNG market

Portfolio players enabling the transition

Commoditization
Volume increasing and margins decreasing
JKM Swaps
Platts LNG MOC
Standardization

The commodity cycle
Driving down supply chain costs
Gas as a competitive fuel
Developing new markets
Project financing

Low carbon future
Gas as a destination fuel
Intermittency of renewables
Changing mobility trends

Portfolio players enabling the transition
Managing risk – developing new supply (Coral, VGP, Tangguh T3, M&S)
Investing in downstream markets (Açu)
Lowering shipping costs - modernising fleet (six new ME-GI vessels)
Increasing transparency – Platts MOC, standard MSA T&C's
Flexible offering – volume, index, destination

A global LNG portfolio leaves BP well placed to meet the challenges of an evolving market

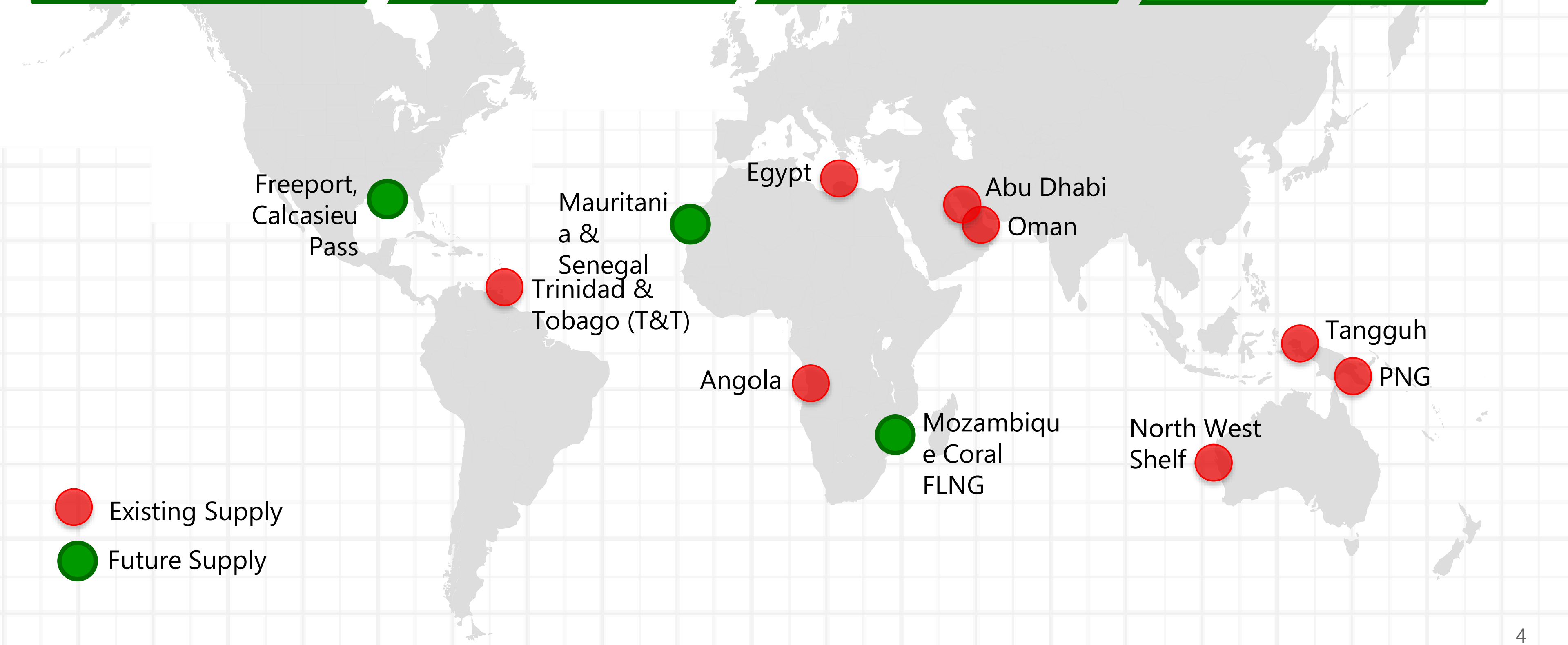
BP is investing in a flexible, diverse and reliable LNG portfolio

2017
Coral FLNG SPA
Khazzan Ph I start up
Egypt gas projects underway
Juniper (T&T) start up

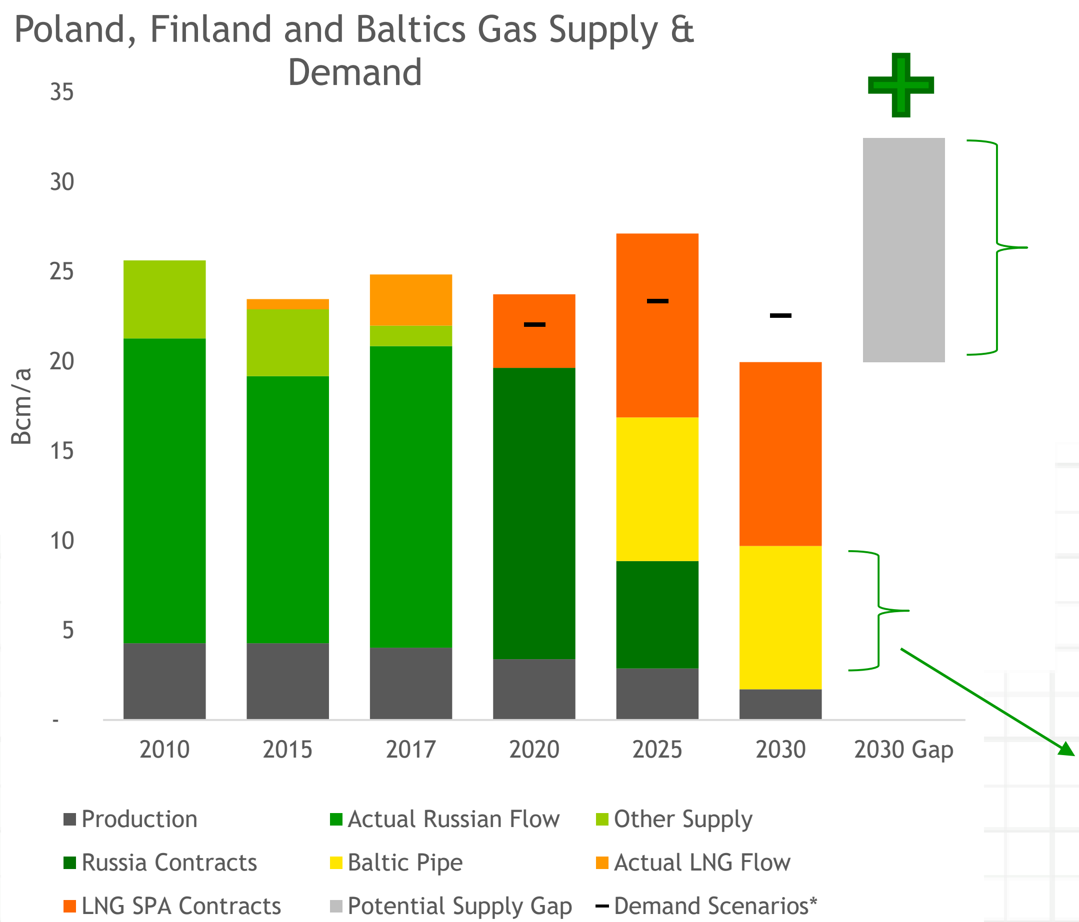
2018
FID on Tortue FLNG
Calcasieu Pass SPA
PNG LNG SPA

Major projects - on track
Tangguh T3 (Indonesia)
Angelin (T&T)
Khazzan Ph2

Growth options
Tortue Phase 2-3
Browse
T&T developments



Diversity of supply for Eastern Partners



Range of demand scenarios and further upside from potential to export to neighbouring countries

Supply gap can be filled with:

LNG

- Flexible volume and timing
- Variety of pricing options
- Some existing infrastructure
- Variety of supply sources, USA, Mauritania & Senegal, East Africa (i.e. Coral FLNG), portfolio supply

Existing pipeline supply routes

- Diversity and security of supply

New Pipeline

- Norway pipeline progressing
- Infrastructure and capex needed

Demand - Gas demand scenarios from the European Network Transmission System Operator Group's TYNDP 2018. *Scenarios reflect "Distributed Generation" and "External Scenario"

Sources: BP Statistical Review 2018, Cedigaz, Entsog TYNDP 2018, Wood Mackensie LNG and Upstream Data Tools, Q4-18

Broad capability – creating innovative solutions

Mauritania & Senegal

Material position in a world class hydrocarbon basin

- ~50,000km^2 of acreage across 7 blocks
- 50-100tcf estimated gas in place
- Competitive near-shore LNG to Europe
- Phased development options

Greater BirAllah

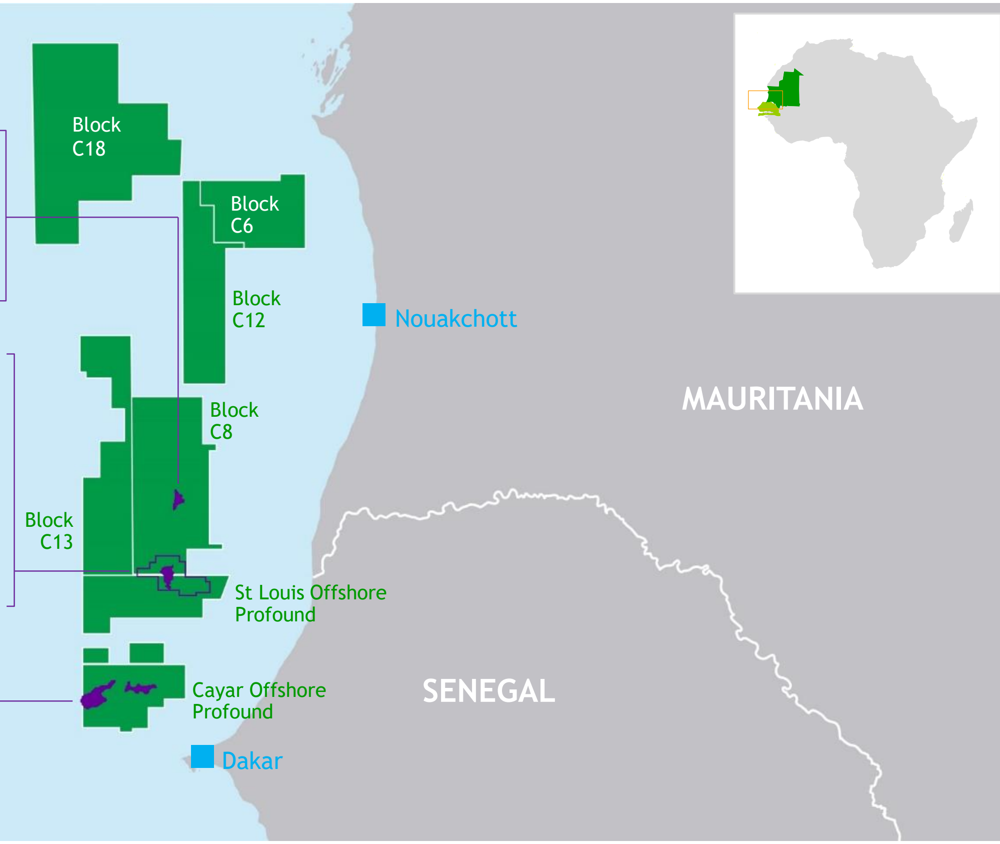
- 12-60tcf GIIP[1]
- 2019 appraisal programme

Tortue

- ~15tcf recoverable resource
- Near-shore LNG
- Phased development
  - Phase 1 ~2.5mtpa by 2022
  - Full field development ~10mtpa

Yakaar Teranga

- 10-25tcf GIIP[1]
- 2019 appraisal programme



(1) Gas initially in place

Source: BP Upstream Investor Day & Fieldtrip, Oman 2018, Advantaged gas portfolio and growth

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