Greater Tortue Ahmeyim Phase 1:
An innovative development, establishing a competitive LNG business and delivering positive returns to investors.

**Operating safely and responsibly**
bp, along with our partners, is committed to working in a safe, sustainable and responsible manner with the local communities. As part of this we are undertaking a rigorous process of informed consultation, working together with local communities to understand and mitigate any concerns or impacts related to our activities. bp is committed to making a positive change to the communities surrounding our operations.

**Building for the future**
The Tortue field, bp and Kosmos’ estimates, could contain 15 tcf of recoverable gas resource potential. bp is reviewing concept options for future phases of development for the basin, which is thought to contain up to 100 tcf of gas. Greater Tortue Ahmeyim Phase 1 is the first step in establishing the basin as a world-class gas province and a major LNG hub.

**Wells and Subsurface**
- Ultra deepwater subsea wells
  - Each well designed for high production rates (~200 mmcf/d)

**Subsea**
- Large bore gas subsea production system (FPSO), the deepest subsea system installed by bp to date
  - FPSO 80 km subsea tie-in from the field to the 35 km export pipeline system from the FPSO to the LNG Hub Terminal

**Pre-treatment FPSO**
- The key function of the FPSO is to remove water, condensate and reduce impurities in the gas stream before exporting processed gas to the FLNG facility and domestic gas off-take
  - The condensate separated from the gas will be off-loaded from the FPSO

**LNG Hub Terminal**
- The breakwater is ~1 km long, located on the international maritime border
  - Terminal will provide shelter from prevailing weather and ocean conditions for FLNG vessel and export carriers
  - Construction considerations carefully planned with a rigorous Environmental and Social Impact Assessment

**FLNG Facility**
- Designed to provide ~2.3 million tonnes per annum annual average
  - Converted LNG carrier utilizing proven liquefaction technology
  - Integrated 125,000 m³ LNG storage

**LNG Off-take**
- LNG to be sold under a long-term sales and purchase agreement (SPA)

**Domestic gas**
- Provision is made via subsea tie-in points for domestic gas take-off
  - Domestic gas supply will support the delivery of gas fired power plant development in country, helping to ensure energy security

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**Phase 1**
- 2015: Tortue discovery
- 2016: Tortue appraisal drilling
- 2017: bp starts project engineering & planning
- 2018: Final investment decision
- 2023: First gas
bp Mauritania & Senegal
A unique partnership with two countries

MAURITANIA
Population 4.6 million
Area 1.03 million km²
Capital Nouakchott
Official language Arabic

SENEGAL
Population 17.2 million
Area 1.967 million km²
Capital Dakar
Official language French

At a glance
30+ year vision for both countries. Over this time period, Mauritania and Senegal could become global LNG players, creating prosperity and development at a local and national level.

13,543 km²
Covered by the Kosmos and bp partnership across the 4 blocks.

15 trillion cubic feet
Of the estimated gas production potential, enough to support production for 30 years or more.

2023
The year that bp expects first gas production to begin.

The Greater Tortue Ahmeyim Project
Creating a new energy hub in Africa
Partnering to deliver a bright energy future for Mauritania and Senegal

November 2021
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bp in proud partnership with

Caisson photo courtesy of Eiffage
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$\textbf{multi-}\text{billion}$ investment in the region over the lifecycle of the Tortue/Ahmeyim project

2023 The year that bp expects first gas production to begin.

4 Number of blocks in which activities are ongoing (two in Mauritania and two in Senegal), in addition to the GTA Unit.
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2,850 m
Ultra deepwater subsea development

~115 km
~80 km

Phase 1
2015: Tortue discovery

2016: Tortue appraisal drilling
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FLNG Facility

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Pre-Treatment FPSO

Inshore LNG Hub/Terminal

Mauritania Domestic Gas

Senegal Domestic Gas

10 km from shore

120 m

30 m

120 m
Domestic gas

Provision is made via subsea tie-in points, for domestic gas take-off

Domestic gas supply will support the delivery of gas fired power plant development in country, helping to ensure energy security
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Discovered fields

November 2021