













# ONGC Videsh Ltd. The International Petroleum Company of India

# US Shale Snapshot & Mozambique LNG Project Update METI & APERC LNG Producer-Consumer Conference

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## **Cautionary Language**



#### Regarding Forward-Looking Statements and Other Matters

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## History of U.S. Shale Energy Development



1940s

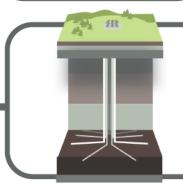
Hydraulic fracturing invented.

## 1970s: SHORTAGE

Sorry...
NO GAS
TODAY

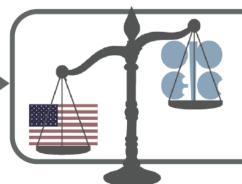
The Arab oil embargo impacted oil sources and OPEC profoundly affected global energy prices.





## 1980s: INNOVATION

The combination of horizontal drilling and hydraulic fracturing technology makes shale energy development financially viable.



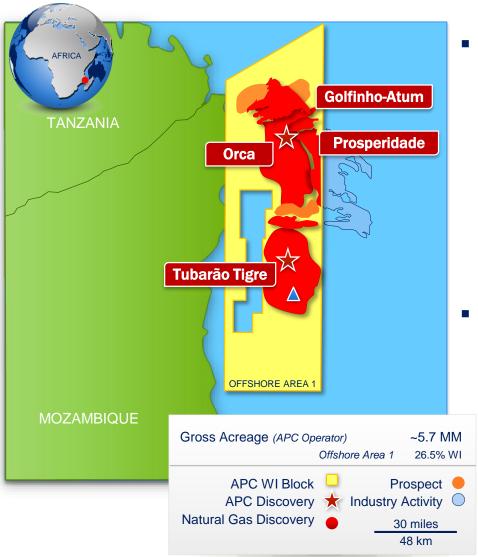
## **TODAY: GAME CHANGER**

""The production of shale...is the most significant development in the US energy sector in generations, and it affords... major benefits that people on both sides of the debate should welcome."

- The Washington Post

#### Reserves: 50 - 70<sup>+</sup> TCF Recoverable Resources





#### Established World-Class Resource

- 70+ tcf
- Potential to support 60+ mmtpa
- Five Discovery Areas
  - ▶ Golfinho
  - ➤ Prosperidade
  - >Orca
  - >Tubarao Tigre
  - >Ourico do Mar currently drilling
- Exploration period ends Jan 31<sup>st</sup> 2015

#### Demonstrated Cost Advantages

- Proximity to shore
- High well deliverability
- Initial subsea-to-shore development concept
- Natural harbor
- Onshore EPC bid evaluation
- Proximity to premium Asian markets

### LNG Park Site and Gas Gathering System Layout





7,000 hectare LNG Park capable of more than 50mtpa

500 bed Pioneer Camp established

3 trunk lines at ~1BCFD each

Wells: ~20 (first 2 trains)

Trees: Horizontal 7" systems capable of 250mmcfd each

Controls: Electro Hydraulic Umbilical capable of supporting ~30 initial wells

## **Corporate Social Responsibility**



- Up to 1,000 local Mozambicans already working on the project
- Formulating National Content Strategy
- Current Activities:
  - Petroleum Engineering degree program at University Eduardo Mondlane
  - Work readiness training program
  - Mozambican supplier development programs
  - Selection of implementing partners for Community Investment Plan
  - Selection of implementing partner for Community Malaria Program
  - Investigating opportunities for partnerships with international donor agencies
  - Mentoring ENH secondees in Houston and Maputo Office
- Construction Vocational Training
  - Anadarko currently carrying out basic skills training in Palma
  - Upon award of contract, EPC Contractor will start comprehensive recruitment and training campaign

## Decree Law is the next critical step towards FID



Enabling Law passed

 Decree Law required by year end to enable further investment Approvals

**SPA & Finance** 



**Decree Law** 

**Draft Plan of Development** 

Multi billions in LOI's for untied financing

**EPC** 

~7 mtpa offtake under HOA's

**Enabling Law passed** 

**Environmental approvals received** 

Land secured for LNG Park



## **Thank You**



ご清聴ありがとうございます

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