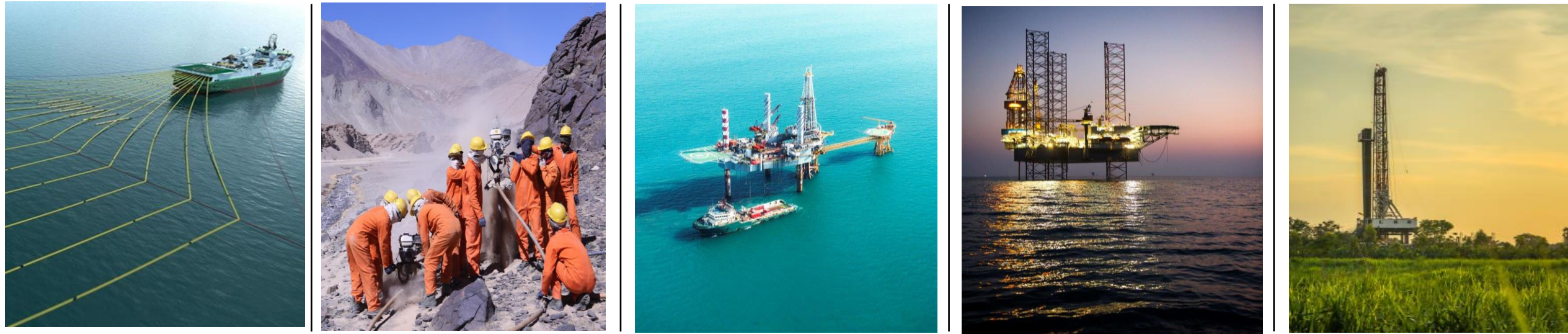




Ministry of Petroleum and Natural Gas Government of India



Investment Opportunities in E&P Sector

Amar Nath
Additional Secretary(E)
Ministry of Petroleum and Natural Gas

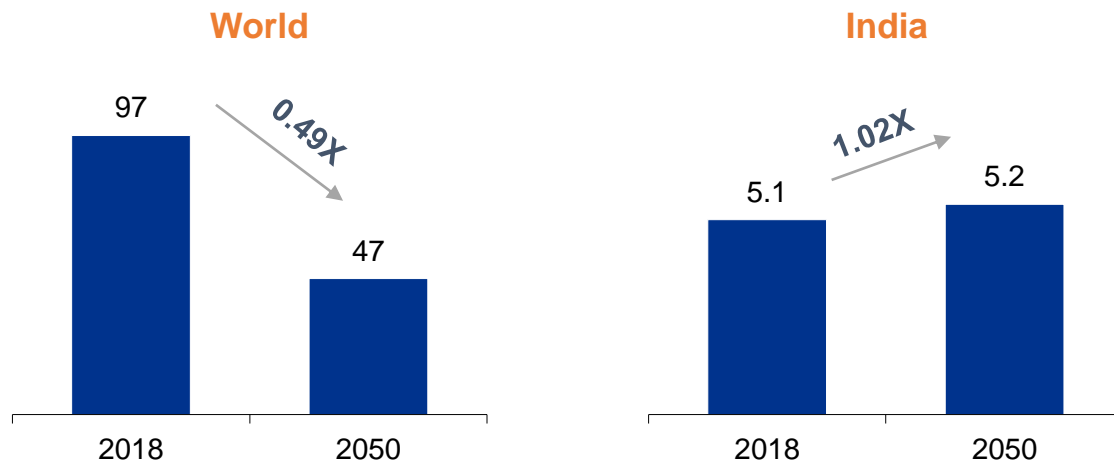
<https://mopng.gov.in/en>

Abu Dhabi, 16th November 2021

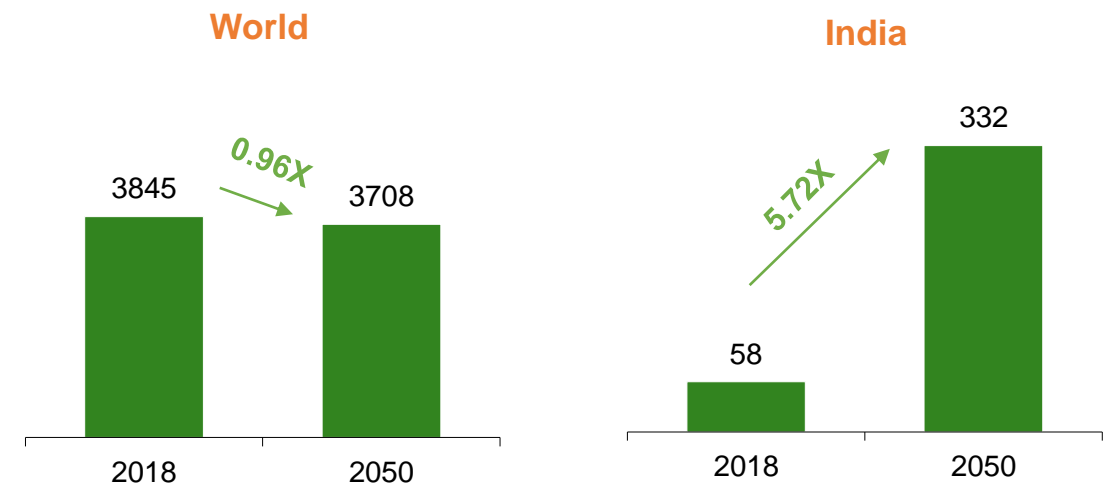
Decarbonization and climate change are catalyzing rapid transition in global energy landscape; however, Oil and Gas in India is to have a longer run

Energy consumption in India projected to grow at CAGR of **2.5%** till 2050

BP Energy's Rapid Transition Oil Demand Outlook
(In Million Barrels per Day)

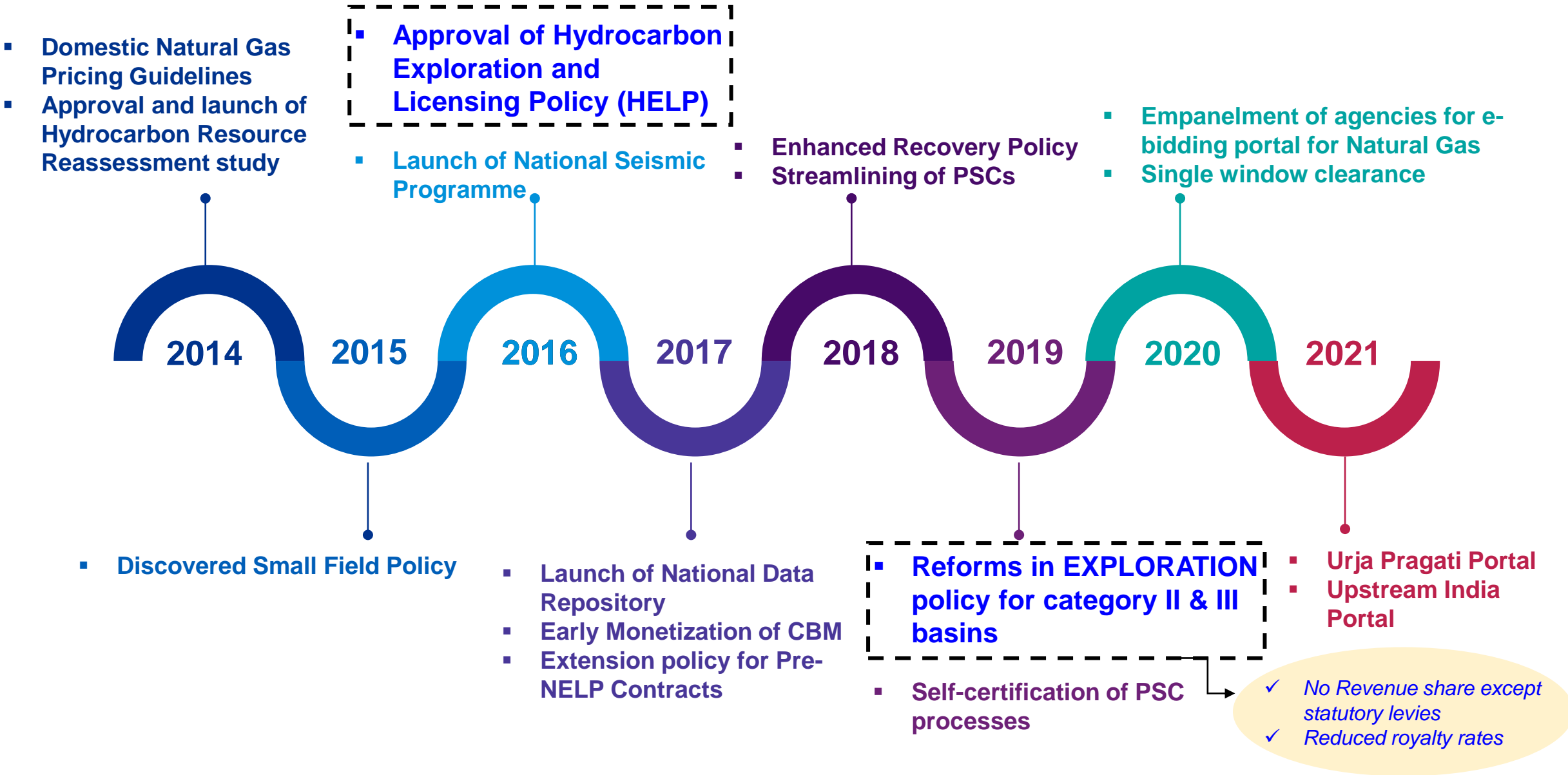


BP Energy's Rapid Transition Gas Demand Outlook
(In Billion Cubic Metres)



- **Current Import Dependence** – 85% of oil consumption and 53% of natural gas consumption - **Large scope for domestic production**
- **India is presently the 3rd largest consumer of primary energy and oil after USA and China**
- National imperative is to meet the demand in next three decades (***Atmanirbhar Bharat***)

Transformative Policy Initiatives in Indian E&P Sector



Investor Friendly Ecosystem



01

Policy Reforms

Revenue Sharing Contract

Unified Licence

Early Monetization

ER / IR Incentives

Production Enhancement Contracts

Empowered Coordination Committee (ECC)

02

Fiscal Incentives

Zero Royalty for Deep & Ultra-Deepwater blocks for first 7 years

Government revenue share capped at 50%

Royalty- 2% to 12.5% (HELP and DSF)

Cess - NIL

Marketing & Pricing freedom

Tax concessions

03

Easy Access to Geoscientific Data

National Data Repository
Data at nominal cost

National Seismic Programme ~46,737 LKM data acquired

Hydrocarbon Resource Reassessment

Data driven carving of OALP blocks

04

Ease of Doing Business

Hydrocarbon Clearance Cell

Self-Certification Processes

Online Contract Management System

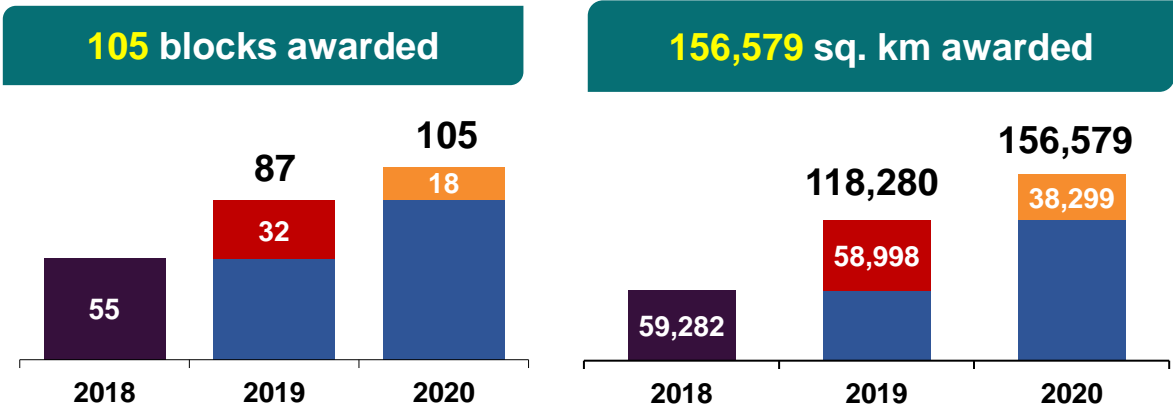
Fast-Track Dispute Resolution

Liberalized Environmental Clearances

Rapid Strides in Recent Years

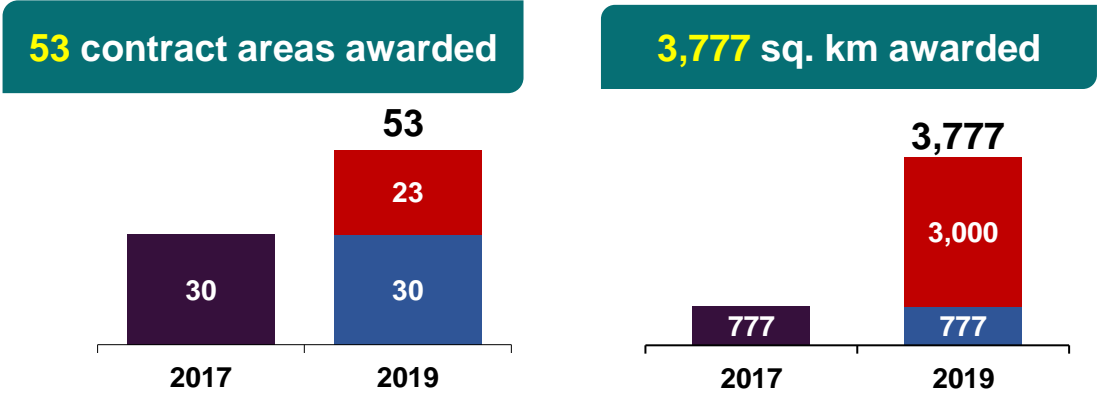
New Exploration Acreages under HELP

Committed investment USD 2.4 bn under five bid rounds



Monetization of Discoveries under DSF

Committed investment USD 1.76 bn under two bid rounds



Continuous Geoscientific Data population in NDR

2D Seismic Data	2.85 mn LKM
3D Seismic Data	0.946 mn SKM
Seismic Reports	15,806 nos.
Well and log data	20,191 nos.
Well Reports	41,654 nos.

ER/IR Projects under ER Policy

- Preliminary Screening: **202** fields
- Suitable ER candidate fields- 34
- ER screening reports approved: 20
- Pilot projects approved: **14**
- Expected investment of **USD 264.4 mn**

Production Enhancement Contracts

- Maximizing recovery in mature fields
- **49** fields awarded (13 contract areas)

Easy Access to Indian E&P Sector



OALP Bid Rounds

- Freedom to carve out acreages (Eol)
- Eol process round the year with bids pooled in every 4 months
- Special CBM Bid Round 2021 under progress
- OALP Bid Round VII to be launched soon



DSF Bid Rounds

- Discovered Fields - No exploration risk
- Technical experience not required
- Gateway for new entrants/ start-ups
- DSF-III bid round open for bidding



JV Opportunities

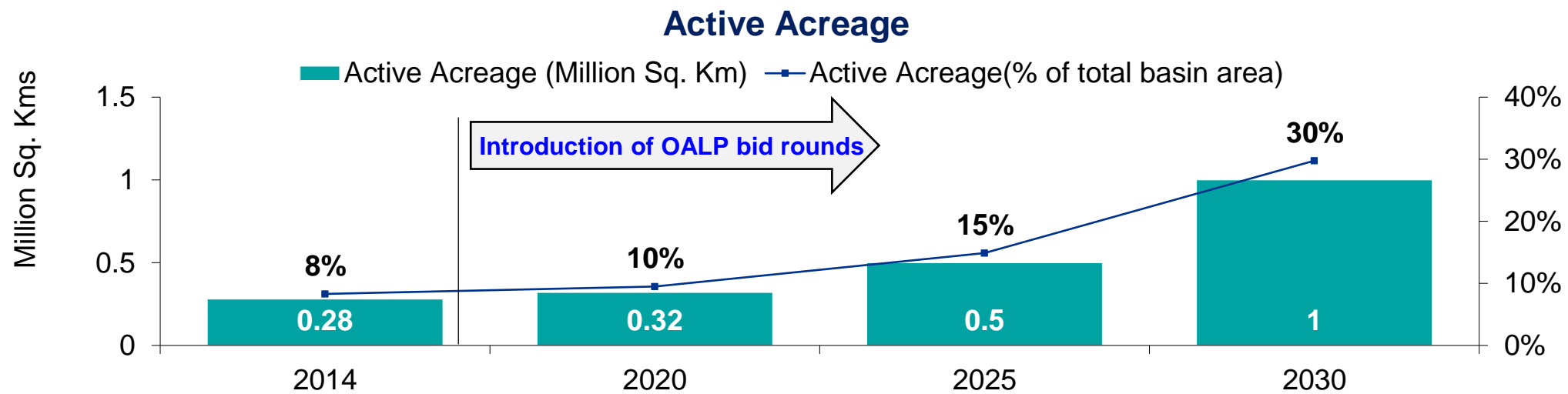
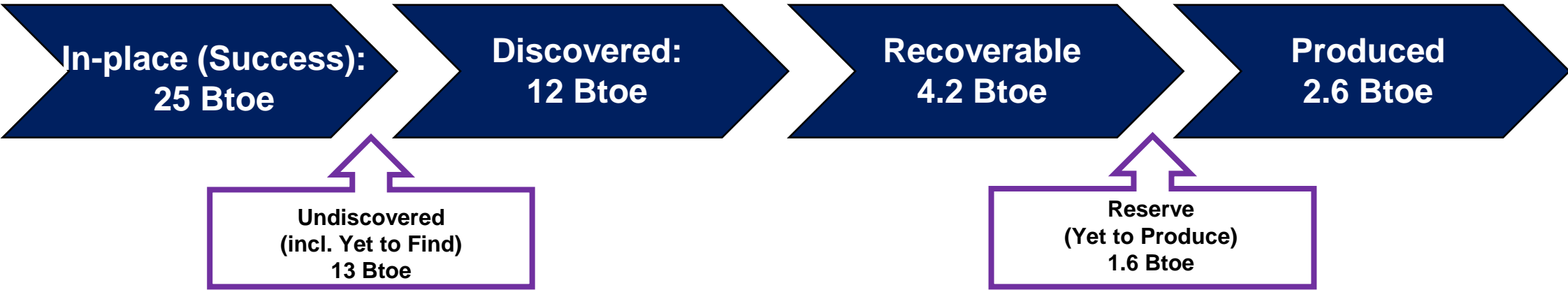
- Farm-in opportunities
- Consortium based bidding
- Capital / Technology Infusion
- Production enhancement contracts with Indian NOCs
- JV partnerships for developing Ultra Deepwater Gas Fields

Geoscientific Data Access | Policy Reforms | Fiscal Incentives | Ease of Doing Business

Indian E&P: An Attractive Investment Destination

Promising Exploration Potential

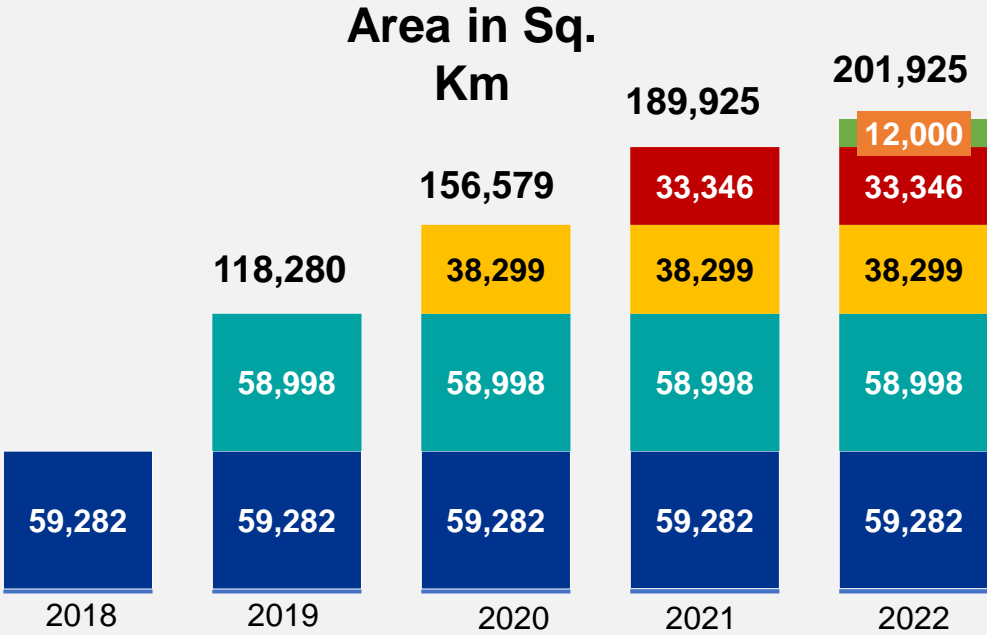
Total Indian Sedimentary Basin Area : 3.36 Million Sq. Km.



Exploration: Key to unlock the potential

Investment Opportunities : OALP Bid Round- VII

Total Acreage awarded under HELP exceeds 2,00,000 sq. km. by March 2022



Bid Round – VI is under Process of Award

21 OALP blocks
11 Basins covered
35,346 sq.km on offer



Coming Soon: OALP Bid round VII
(EOI Window open till 30th November 2021)
Bid round to be launched by December 2021

- 6 OALP blocks
- 5 Basins covered
- ~12,000 sq.km on offer

Discovery of Oil through OALP Route

Investment Opportunities : **DSF Bid Round- III**

Type	No. of Discoveries	No. of Contract Area	Area (Sq. Km)	Hydrocarbon Resource (MMTOE)	<div>232 MMTOE</div> <div>Potential of generating revenue of ~27.5 Billion USD</div>
Onshore	19	11	3271.1	24.3	
Shallow Water	54	20	9729.4	205.2	
Deepwater	02	01	203.9	2.5	

Bidding window open from 15th December'21

Basin wise distribution of contract areas, discoveries

1 – Rajasthan

Contract Area: 2
Discoveries: 3

2 - Gujarat

Contract Area: 1
Discoveries: 1

3 – Gujarat-Kutch Offshore

Contract Area: 2
Discoveries: 9

4 – Cambay Offshore

Contract Area: 2
Discoveries: 5

5- Mumbai Offshore

Contract Area:10
Discoveries: 22

6- Madhya Pradesh

Contract Area: 1
Discoveries: 2

7 – Assam

Contract Area: 3
Discoveries: 4

8 – Andhra Pradesh

Contract Area: 3
Discoveries: 8

9 – KG Offshore (SW)

Contract Area: 6
Discoveries: 18

10 – KG Offshore (DW)

Contract Area: 1
Discoveries: 2

11- Tamil Nadu

Contract Area:1
Discoveries: 1

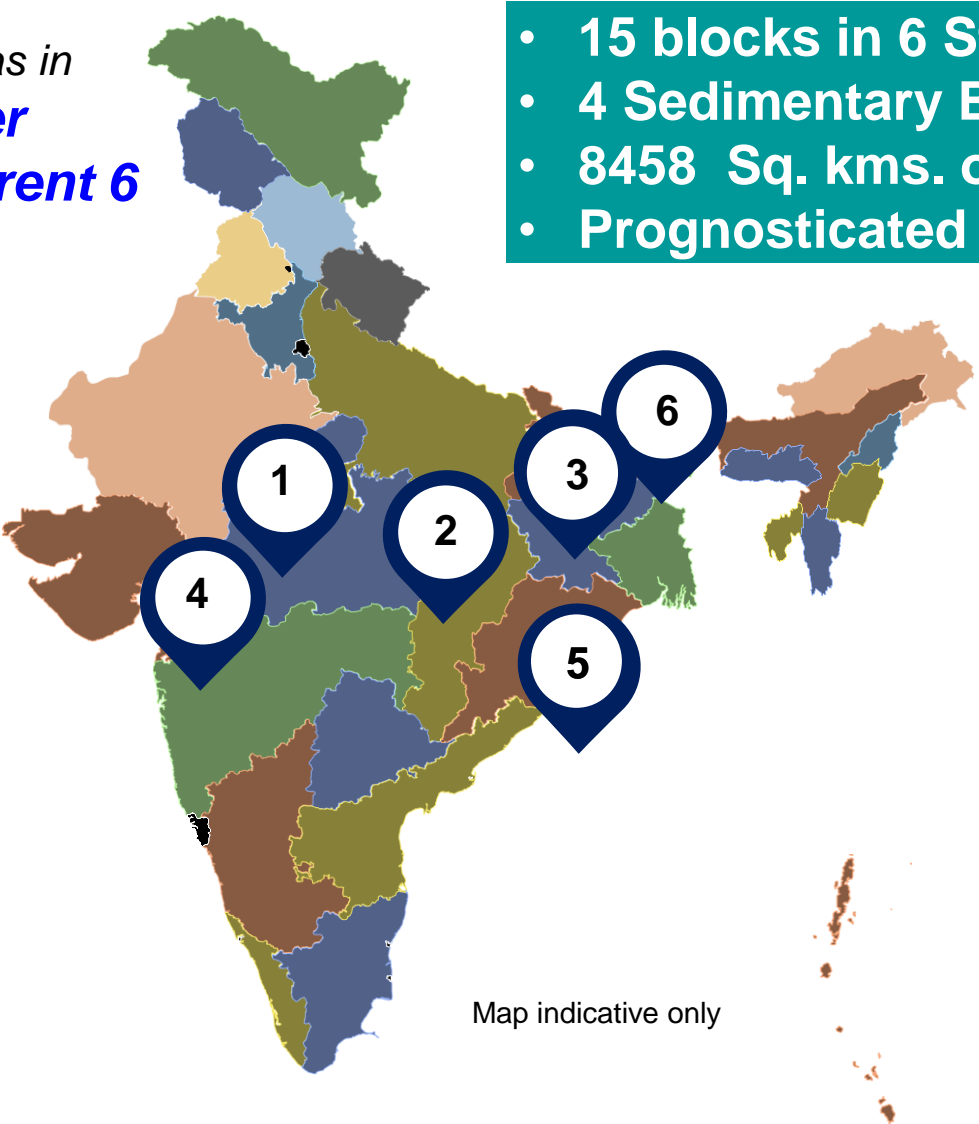
Investment Opportunities : CBM Bid Round-2021

Objective

To increase the share of natural gas in the country's energy mix to **15 per cent by 2030 from the current 6 per cent.**

Macro Economic Benefits

- ✓ Reduction in carbon emission
- ✓ Crude oil and gas import reduction
- ✓ Boost to pipeline infrastructure
- ✓ Clean fuel to households
- ✓ Employment generation



- 15 blocks in 6 States
- 4 Sedimentary Basins covered
- 8458 Sq. kms. on offer
- Prognosticated Resources ~700 BCM

1 – Madhya Pradesh
<ul style="list-style-type: none">• Blocks: 5• Area: 3199 Sq. Kms.
2 - Chhattisgarh
<ul style="list-style-type: none">• Blocks: 3• Area: 1582 Sq. Kms.
3 – Jharkhand
<ul style="list-style-type: none">• Blocks: 2• Area: 1556 Sq. Kms.
4 – Maharashtra
<ul style="list-style-type: none">• Blocks: 2• Area: 1040 Sq. Kms.
5 – Odisha
<ul style="list-style-type: none">• Blocks: 2• Area: 884 Sq. Kms.
6 – West Bengal
<ul style="list-style-type: none">• Blocks: 1• Area: 197 Sq. Kms.

Map indicative only

“Average block size is ~600 Sq. Kms. which is almost two times the size of earlier CBM blocks (~300 Sq. Kms)”

Ensuring Ease of Doing Business

Clearances

Hydrocarbon Clearance Cell

Fast tracking of clearance process especially in case environment and forest

Online Clearances

IT application hosted at DGH website for clearance under MHA, MoD, MoEFCC

Urja Pragati Platform

Online system to expedite statutory clearances in coordination with state government and other relevant ministries

Alternate Dispute Resolution

Time-bound resolution to expedite the execution of stuck petroleum operations in the field

Compliances

Simplification of Contractual procedures

Reduction of no. of approvals and submission on self certification basis

Online Contract Management System

Online submission and approval to ensure hassle free and transparent contract compliance.

Online Petroleum License/Lease Management System

Online submission and approval of license and lease to carry out petroleum operations

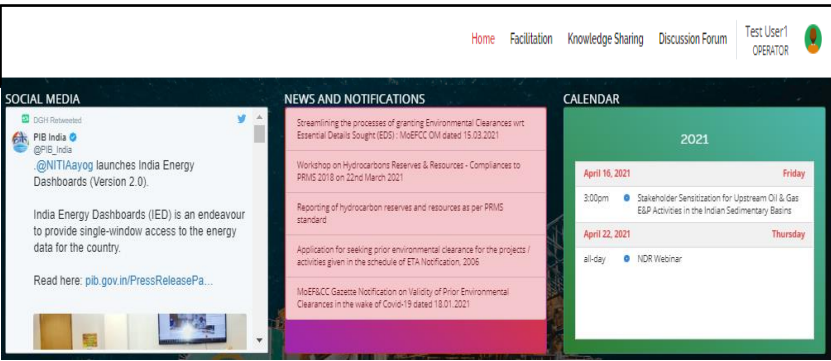
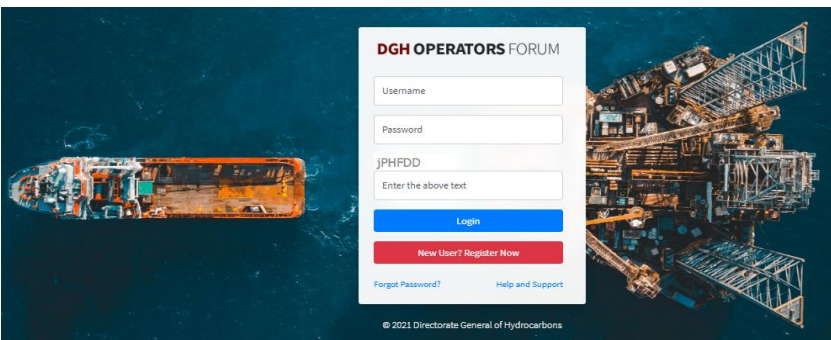
Online Essentiality Certificate Management System

Granting of certificates which enables custom duty-free import of equipment which is to be used in petroleum operations

Collaboration

Upstream India Portal

Collaboration amongst E&P stakeholders in terms of knowledge sharing, resource sharing and government facilitation



Time to invest is **NOW**

Key Touch Points for Facilitation



Ministry of Petroleum & Natural Gas
Government of India

**Ministry of Petroleum and
Natural Gas**

Website- <http://petroleum.nic.in/>

Contact us:

<https://mopng.gov.in/en/about-us/phone-directory>



**Directorate General of
Hydrocarbons**

Website- <http://dghindia.gov.in/>

Contact us:

http://dghindia.gov.in/contact_english.php

National Data Repository

Website- <https://www.ndrdgh.gov.in/NDR/>

Email: indr@dghindia.gov.in

**Hydrocarbon Exploration and Licensing Policy
OALP Bid Rounds**

Website- <http://online.dghindia.org/oalp/>

Facilitation Desk

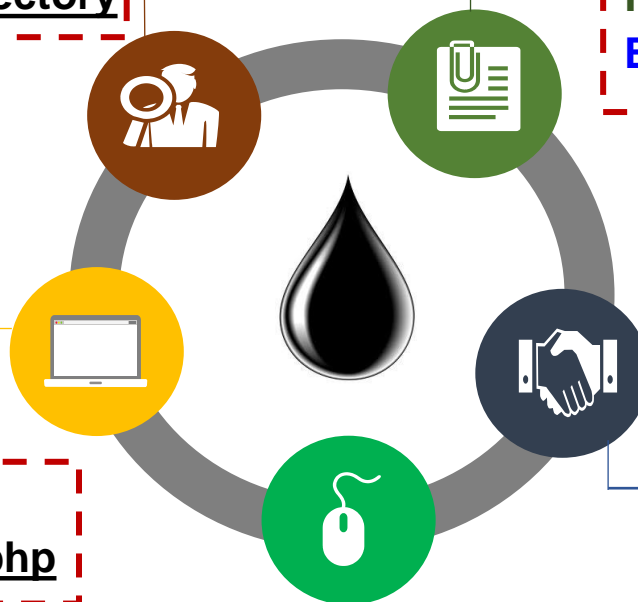
Email: Facilitationoal@dghindia.gov.in

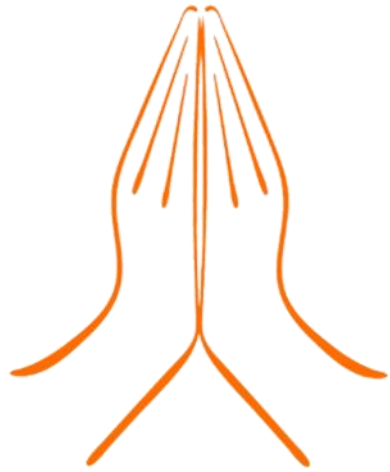
DSF Bid Rounds

Website- <http://online.dghindia.org/dsf3>

Facilitation Desk

Email: Facilitationdsf@dghindia.gov.in





Thank You

**“For Investment and Easy Business,
come to India.”**

**- Shri Narendra Modi,
Prime Minister, India**



Ministry of Petroleum & Natural Gas
Government of India

<http://petroleum.nic.in/>



<http://dghindia.gov.in/>



<http://online.dghindia.org/oalp/contact>
Email: Facilitationoal@dghindia.gov.in