

UNDER THE AEGIS OF
MOPNG AND DGH

UPSTREAM AHEAD

— First Edition

OIL & GAS EXPLORATION AND PRODUCTION TOWARDS VISION **2050**

February 11-12, 2021

Host Companies



ऑयल इंडिया लिमिटेड
Oil India Limited



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About the Summit

The Indian Energy story is alive and constantly growing. This summit will drive powerful solution-based dialogues and will act as a platform to discuss issues and ideas like never before.



The first edition of the Upstream Ahead summit will be a platform where all key stakeholders come together and discuss the issues, challenges and roadblocks, with a focus on finding a solution for a smooth way forward. We are of the opinion that the India energy story is alive and growing. Within that lies the tremendous scope and opportunity for the country's Exploration & Production (E&P) sector. The conference shall address all the different aspects of the E&P sector in relation to the sector's capacity to contribute more to the country's energy basket. The said summit is unique in nature, wherein an industry-wide global participation of all key stakeholders will be witnessed. E&P operators, government regulators, ministry officials and investors will come together, and discuss crucial issues pertaining to the Indian oil & gas sector, and the way forward towards 'Vision 2050'. The summit will drive solution-based dialogues and will give platform to issues and ideas like never before. This summit will feature 60+ speakers, an audience of 10,000+ across the globe, and streaming over 21 hours of knowledge.

The purpose of this summit is to generate actionable and measurable outcomes, that can act as short, medium and long-term milestones for all stakeholders involved, on the road Towards Vision 2050. For the same, a monitoring committee will be constituted post the summit, to follow up with the outcomes of the summit proceedings.



[Click to Register for the Summit](#)

Summit Format

 To achieve the desired impact, the summit has been segregated into four formats

06

Insight Sessions

These are open-to-all sessions, globally broadcasted to an audience of over 5000 across Asia, Americas and the Middle East.

05

Spotlight Sessions

Spotlight Sessions have been created as a platform for discussing and flagging prevalent challenges faced by the E&P operators, Indian and global, and coming up with solutions to pave a successful way forward. These sessions can be attended by Invitation-only as they are an exchange between Operators and Regulators.



02

Special Interactive Sessions

These are specially curated sessions that are designed to encourage youth participation and interaction.

02

High Intensity Discussions

This discussion session has been designed as a virtual round-table conference for having a focused approach at raising the most pressing issues faced by the major organizations and then engaging in powerful discussion to address each of those. These sessions will have no outside audience.



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Summit Agenda

You are cordially invited to join us for this virtual summit. Please find below the agenda of the summit over two days.

Day 1

FEBRUARY 11, 2021

Inauguration Session | 0930 HRS - 1030 HRS

- 0930 HRS** **Inauguration Ceremony and Invocation** | The South Asian Symphony Foundation
- 0940 HRS** **Opening Remarks** | Shri SCL Das, DG, DGH
- 0955 HRS** **An Overview of the Indian E&P Sector** | Shri Amar Nath, Joint Secretary (Exploration), MoPNG
- 1010 HRS** **Inaugural Address** | Shri Tarun Kapoor, Secretary, MoPNG
- 1025 HRS** **Theme Video - Future of Oil and Gas - A 2050 Perspective**

Spotlight Session: Policies and Regulations in Emerging Business Environment | 1030 HRS - 1245 HRS

The energy industry today faces complex challenges such as volatile prices, emergence of new low carbon energy sources, geopolitical uncertainties, changing consumer preference, technology disruption and rapidly changing demand supply dynamics. In order to sustain in these complex scenarios, Policies and regulations will play an important role in ensuring conducive business environment. Therefore, the session will not only focus on existing policies but also on the areas where policy support is required in order to accelerate the development of exploration and production sector of India. Please find below speakers with their respective topics-

Session Chairman: Shri Amar Nath, JS (Exploration & CVO), MoPNG

Session Co-Chair: Shri Sanjay Chawla

- 1030 HRS** **Incentives for Giving Impetus to the E&P Sector** | Dr. Anand Gupta, ADG (Development), DGH
- 1055 HRS** **Support Required for Stimulating Deep Water Exploration** | Shri R.K Dhasmana, ONGC
- 1120 HRS** **Innovations to Surmount the Challenges of the E&P Sector** | Shri Rajeev Kumar, British Petroleum
- 1145 HRS** **The Impetus to Exploration Through Reforms** | Shri Pinakadhar Mohapatra, Antelopus Energy
- 1210 HRS** **Question & Answer Session**
- 1225 HRS** **Summing Up by the Session Chairman**

Lunch Break | 1245 HRS - 1400 HRS

Sarod Recital by Shri Sayam Panja
Accompanied by Shri Arpan Bhattacharjee on Tabla

Spotlight Session: Exploration Opportunities & Challenges | 1400HRS - 1615 HRS

Exploration is an important part of upstream sector where the main objective is to locate and estimate the potential of oil and gas reserve. Basis the findings of exploration, upstream companies take decision of developing the field which is a capital-intensive project. Therefore, the main objective of the session is to provide government's as well as operator's perspective of exploration in Indian sedimentary basins. Please find below speakers with their respective topics-

Session Chairman: Shri Rajesh Kumar Srivastava, Director (Exploration), ONGC

Session Co-Chair: Shri K.S Shaktawat

- 1400 HRS** **Appraisal of Indian Sedimentary Basins - Policy Reforms & Way Forward** | Dr. C. Laxma Reddy, ADG (Exploration), DGH
- 1420 HRS** **Achieving the Reassessed Hydrocarbon Resource Potential** | Shri CSV Sandilya, ONGC
- 1440 HRS** **Accelerated Exploration - Surmounting Frontier Challenges** | Shri Indrajit Barua, OIL
- 1500 HRS** **Exploration Challenges in Offshore E&P Activities** | Shri Neeraj Sinha, RIL
- 1520 HRS** **Realizing the Hydrocarbon Potential in Indian Basins** | Shri Biswanath Ghosh, Cairn Oil & Gas (Vedanta Ltd.)
- 1540 HRS** **Exploration in Mature Basins - Opportunities & Challenges** | Dr. M.K Sharma, OIL
- 1600 HRS** **Summing Up by the Session Chairman**

Spotlight Session: Production Challenges - Conventional and Unconventional Hydrocarbons | 1615 HRS - 1730 HRS

In India, most of the prolific producing fields are mature and operators working in mature fields are facing challenges in sustaining the production level. In order to increase the domestic production level, Government has introduced policies which would provide assistance to the operators in terms of fiscal incentives and operational ease. Therefore, the session will be focused on production domain of upstream sector which will include both conventional and unconventional hydrocarbon. Find speakers with topics-

Session Chairman: Shri Anurag Sharma, Director (Onshore), ONGC

Session Co-Chair: Shri Yash Malik

- 1615 HRS** **Enhanced Oil Recovery and Alkaline Surfactant Polymer** | Shri Sai Subramanian, Cairn Oil and Gas (Vedanta Ltd.)
- 1630 HRS** **Optimizing Mature Fields Production & Monetization of Discoveries** | Shri O.N Gyani, ONGC
- 1645 HRS** **Field Development Plan (FDP) and Reservoir Management Plan** | Dr. R.K Vij, PDPU
- 1700 HRS** **Development of Unconventional Reservoirs & Challenges** | Shri Vilas Tawde, Ex-Essar
- 1715 HRS** **Summing Up by the Session Chairman**



Insight Session: Importance of Digital Transformation in E&P Sector | 1730 HRS - 1845HRS

Digitalization is the new normal in every industry including the upstream sector. With digitalization, companies can generate several benefits not only in terms of gaining efficiency, but also enable them to adopt smarter exploration ways and ensure safer operations with better utilization of labour. Several solutions including predictive maintenance, analytics and Internet of Things and artificial intelligence (AI) have been adopted by players operating in the market across the globe. The emergence of digital technologies presents industry a significant opportunity to transform its business and enhance value for its shareholders. The session will focus on the policy framework required for accelerating the use of digital technologies and different technologies available which will assist in carrying out petroleum operations in the field. Please find below speakers with their respective topics-

Session Chairman: Shri Pankaj Kumar Goswami, Director (Operations), Oil India Limited

Session Co-Chair: Shri K.K Nayak

- 1730 HRS** Preparing Next Generation Workforce & Org. Culture for DT | Shri P.K Painuly, UPES Dehradun
- 1745 HRS** Petroleum Data Analytics: Application of AI & ML in Oil and Gas Industry | Shri Indradyumna Datta, Cairn Oil & Gas (Vedanta Ltd.)
- 1800 HRS** Facilitating Policy Framework for Accelerating Growth of Digitization | Shri Anoop Sharma, ONGC
- 1815 HRS** Architecture for Facilitating Digitization | Shri Harjot Singh Kalra, Amazon Web Services
- 1830 HRS** Summing Up by the Session Chairman

Day 2

FEBRUARY 12, 2021

Spotlight Session: Financial Challenges Faced by the Upstream Industry | 0900 HRS - 1015 HRS

The energy industry today faces complex challenges such as volatile prices, emergence of new low carbon energy sources, geopolitical uncertainties, changing consumer preference, technology disruption and rapidly changing demand supply dynamics. In order to sustain in these complex scenarios, Policies and regulations will play an important role in ensuring conducive business environment. Therefore, the session will not only focus on existing policies but also on the areas where policy support is required in order to accelerate the development of exploration and production sector of India. Please find below speakers with their respective topics-

Session Chairman: Shri N.K Singh, Secretary, OIDB

Session Co-Chair: Shri A.R Patel

- 0900 HRS** Financing Challenges and Way Forward for Indian E&P Sector | Shri Ranajit Banerjee, DGH
- 0915 HRS** Challenges in Financial Evaluation of E&P Projects | Shri P. Elango, HOEC
- 0930 HRS** Contract Management with Financial Prudence | Shri Rakesh Agiwal, Cairn Oil & Gas (Vedanta Ltd.)
- 0945 HRS** Overcoming Financial Challenges in the E&P Sector | Shri Deepak Mahurkar, PwC
- 1000 HRS** Summing Up by the Session Chairman



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HIGH INTENSITY DISCUSSIONS (HIDs)

HID 1: Challenges & Way Forward in Obtaining Clearances Under Prevailing Environmental Regulations | February 12, 2021 | 1000 HRS to 1130 HRS

Government of India has recognised the importance conducive business environment which is riveted on the idea of ease of doing business. Considering the importance of carrying out E&P operations without impacting the environment, this session will focus on obtaining clearances under the prevailing regulations.

Session Chairman: Shri Ravi Agrawal, Additional Secretary, MoEF&CC

1000 HRS: Opening Remarks by Shri Praveen Kumar Raghav, ADG (Environment & Clearances), DGH

1005 HRS: Overview on Environmental Regulation Changes Required for E&P Operations by Shri J Lahiri, Convenor

Followed By: EC Transfer Process & EIA Notification 2006 Related Guidance by Dr. R.B Lal, Member Secretary (Industry III), MoEF&CC

The forum then opens for detailed discussion and deliberation for charting a roadmap towards Vision 2050.

HID 2: E&P Vision for 2050

February 12, 2021 | 1130 HRS to 1230 HRS

Session will be a type of discussion forum in which panellists from Government and operator side will deliberate on the future of exploration and production sector of India. Considering the emergence of new low carbon energy sources, changing consumer preference, the discussion will include current scenario, challenges and outlook of Indian E&P sector. The CMDs and CEOs will deliver their remarks for 4-5 minutes and post providing remarks, discussion will be initiated among the panelists.

Session Chairman: Shri Tarun Kapoor, Secretary, MoPNG

1130 HRS: Sectoral Overview by KPMG

1135 HRS: Opening Remarks by Shri Amar Nath, JS (Exploration), MoPNG

1140 HRS: Brief Remarks by CMD, ONGC, Dy. CEO, Cairn Oil & Gas (Vedanta Ltd.), CEO ExxonMobil, MD, HOEC and CEO, Antelopus Energy, CEO, Oilmax Energy

1055 HRS: Forum Opens for Discussions with the Session Chairman

SPECIAL INTERACTIVE SESSIONS (SISs)

SIS 1: Gender Diversity & Inclusion in the Energy Sector

February 12, 2021 | 1015 HRS to 1115 HRS

The session shall highlight the importance of gender diversity and inclusion in energy sector. It shall discuss reasons for dramatic underrepresentation of women in energy sector globally and suggest workable ways to increase representation of women in energy sector. It shall identify the issues and challenges faced by women at workplace and how to address those challenges. It shall identify methods and processes that energy companies can adopt to build a more collaborative and empathetic workplace so that women can achieve their full potential.

Session Chairman: Dr. Alka Mittal, Director (HR), ONGC

Session Co-Chair: Smt. Tinku Nischal

Assisted by: Dr. Mridula Singh and Ms. Bansuri Das

Smt. Pomila Jaspal
Director (Finance)
MRPL

Smt. Madhu Srivastava
CHRO,
Vedanta Ltd.

Smt. R.S Borah
Ex-Director (Finance)
OIL

Smt. Zainab Patel
Director (Diversity & Inclusion)
KPMG India

SIS 2: Youth in the Energy Sector - A Fresh Perspective

February 12, 2021 | 1130 HRS to 1230 HRS

The session shall focus on the role and importance of young professionals in energy sector. It shall discuss ways to improve industry-employee expectation and skill match. The session shall suggest suitable interventions to deepen industry-academia collaborations for bridging skill gap in energy sector and enabling youth to effectively take on challenges for successful careers in energy sector. The session will be chaired by Shri H Madhavan., GM, ONGC.

Session Chairman: Shri H Madhavan, ONGC

Session Moderator: Smt. Varsha More



Lunch Break | 1300 HRS - 1400 HRS
Violin Recital by Shri Oindra Kr. Dutta
Accompanied by Shri Arpan Bhattacharjee on Tabla

Spotlight Session: New Technologies in the E&P Sector | 1400 HRS - 1530 HRS

As the E&P industry is coping from the wave of disruptions which has been taking place since last few years, new technologies holds the answer to those complex set of disruptions. New technologies are already transforming the industry & many energy players have realized significant benefits by embracing those technologies in terms of empowering employees with powerful decision support, enhancing health and safety with active security compliance and monitoring using AI, cognitive and spatial analytics, gaining operational insights, managing complex supply chain etc. In line with the advanced technologies available in upstream sector, the session will be conducted to understand the benefits of these technologies especially in the current scenario of low hydrocarbon pricing. Please find below speakers with their respective topics-

Session Chairman: Dr. Anand Gupta, ADG (Development), DGH

Session Co-Chair: Shri Sudhir Kumar

- 1400 HRS** **New Completion and Drilling Technologies** | Mr. Javier Franquet, Baker Hughes
- 1415 HRS** **Multistage Fracturing in Tight Reservoir in Western India** | Shri Shobhit Tiwari, Cairn Oil & Gas (Vedanta Ltd.)
- 1430 HRS** **Development in Low-Price Regime & Redevelopment of Mature Fields** | Shri Gautam Reddy, Schlumberger
- 1445 HRS** **Cost-Effective Innovative Solutions in Small Fields** | Shri Padam Singh, Sun Petro
- 1500 HRS** **Decommissioning of Offshore Production Facilities & Challenges** | Rob Jansen, Shell
- 1515 HRS** **Summing Up by the Session Chairman**

Insight Session: Indianization & Self-Reliance - Atmanirbhar Bharat Abhiyan | 1530 HRS - 1630 HRS

Government of India has a vision of becoming self-reliant in energy sector. In line with vision of Atmanirbhar Bharat, Government of India is boosting the manufacturing and procurement of products indigenously from local markets. Therefore, oil and gas companies are also focusing on procuring local goods and services which will not only assist in cost optimization but also increase the employment in India. Considering the importance of local manufacturing, the session will be focused on the local goods and services provided for oil and gas sector in India which will include the current scenario, challenges and areas of improvement. Please find below speakers with their respective topics-

Session Chairman: Shri Om Prakash Singh, Director (T&FS), ONGC

Session Co-Chair: Shri Jeetendra Tikku

- 1530 HRS** **Rejuvenation of Service Industry for E&P Sector** | Shri Subramanian Sarma, L&T Hydrocarbons
- 1540 HRS** **Indianization Efforts So Far and Way Forward** | Shri A.P Tripathi, ONGC
- 1550 HRS** **Indian E&P Sector - Local Goods and Services** | Shri Manas Majumdar, Partner, KPMG
- 1600 HRS** **Aatmanirbhar North East: Leveraging Hydrocarbon Potential for Gas-Based Economic Development** | Shri Arun Modi, IGGL

Insight Session: Oil & Gas E&P and Its Impact on Global Warming | 1630 HRS - 1730 HRS

As the world is moving towards greener fuel and renewable sector, E&P industry is also leaning towards sustainable development by focusing on increasing gas production and using advanced technologies such as carbon capture and storage to increase the production. In the area of Health, Safety and Environment (HSE), new technologies are assisting E&P sector e.g. Through predictive analysis companies are able to address the issue of oil spillage and gas leakage. Therefore, the session has been scheduled to provide key insights on approach of E&P sector towards curbing carbon emission. Please find below speakers with their respective topics-

Session Chairman: Dr. C Laxma Reddy, ADG (Exploration), DGH

Session Co-Chair: Shri Joydev Lahiri

1630 HRS **Towards SDGs - Challenges & Opportunities in E&P Sector** | Shri K.D Bhardwaj, National Productivity Council, DPIIT

1645 HRS **Ongoing Efforts & Opportunities Towards Reducing Carbon & Water Footprints in Oil and Gas E&P Sector** | Shri M.A Patil, FICCI

1700 HRS **Building a Resilient Strategy for Low Carbon Emission - Oil & Gas E&P Activities in Indian Sedimentary Basins** | Dr. S.K Bajpayee, JS, MoEF&CC

1715 HRS **Summing Up by the Session Chairman**

Insight Session: Energy Transition and Clean Energy Alternatives | 1730 HRS - 1830 HRS

Sustainable energy transitions involve the shift of resources between competing industrial sectors and political constituencies. Stakeholders in this process have varying degrees of political and economic power, and understanding how political economic factors influence clean energy transitions is crucial to effective policy formulation and facilitating transitions to sustainable energy systems.

Session Chairman: Shri Rakesh Agiwal, Head Joint Venture Management, Cairn Oil & Gas (Vedanta Ltd.)

Session Co-Chair: Shri Gaurav Moda

1730 HRS **Clean Energy Transition and Pathway for the Future** | Shri Rajnath Ram, NITI Aayog

1745 HRS **An Overview on Energy Transition and Clean Energy Alternatives** | Shri Seethapathy Chander, WEC India

1800 HRS **Renewables and Energy Transition** | Dr. P.C Maithani, Ministry of New and Renewable Energy

1815 HRS **Energy Transition - Role of Oil and Gas** | Mr. Jarand Rystad, Rystad Energy Norway

Closing Session | 1830 HRS - 1915 HRS

1830 HRS **Summit Takeaways and Actionable Outcomes** | Shri J Lahiri, Convenor, Upstream Ahead Summit

1840 HRS **Closing Remarks by CMD, ONGC**

1850 HRS **Valedictory Address by the Secretary, MoPNG**

1905 HRS **Vote of Thanks**

Cultural Evening | 2000 HRS - 2130 HRS

Sufi & Ghazal Night by Ms. Anandita Basu

Renowned international performer, who has represented Indian musical heritage in 40+ countries.

Committee Members

Patron of the Summit



Shri. Tarun Kapoor
Secretary, MoPNG

Invitee for HID Session II



Shri Ravi Agrawal
Additional Secretary, MoEF&CC

Active Guidance From

MoPNG & OIDB



Shri Rajesh Aggarwal
Addl. Secretary &
FA, MoPNG



Shri Amar Nath
Joint Secretary
(Expl. & CVO), MoPNG



Shri Arvind Nath Jha
DS(Projects)
MoPNG



Shri N.K Singh
Secretary,
OIDB

DGH



Shri SCL Das
DG, DGH



Shri Rajdeep Singh
ADG (Coordination) &
FA&CAO, DGH



Shri Praveen Kumar Raghav
ADG (Environment &
Clearances), DGH

Steering Committee



Dr. C Laxma Reddy
ADG (Exploration),
DGH



Dr. Anand Gupta
ADG (Development),
DGH



Dr. P Chandrasekaran
Director (E&D),
OIL



Dr. Alka Mittal
Director (HR),
ONGC



Shri R.K. Srivastava
Director (Exploration),
ONGC



Shri Pankaj Goswami
Director (Operations),
OIL



Shri P Elango
MD, HOEC



Shri Prachur Sah
CEO, Cairn Oil &
Gas Vedanta Ltd.



Shri Suniti Bhat
CEO, Antelopus
Energy

Organizing Committee



Shri Joydev Lahiri



Shri Yash Malik



Shri Sanjay Chawla



Shri K.S. Shaktawat



Shri A.R. Patel



Shri P. Mohapatra



Dr. M.K. Sharma



Shri Indrajit Barua



Shri P.K. Kakoty



Shri K.K. Nayak



Shri Pradeep Singh



Shri Jeetendra Tikku



Shri G. Janakiraman



Shri Sudhir Kumar

Post-Summit Monitoring Committee

To monitor the actionable outcomes emerging out of this summit, a monitoring committee has been constituted. This committee will play an active role, post the summit, in following up with all stakeholders, their commitments Towards Vision 2050. The monitoring committee will operate under the guidance and chairmanship of DS (Projects), Ministry of Petroleum & Natural Gas.



**Shri Arvind
Nath Jha**
MoPNG



**Shri Santosh
Mani**
MoPNG



**Shri Subhayan
Dasgupta**
MoPNG



**Smt Pratiksha
Kulshrestha**
MoPNG



**Shri T.K
Sengupta**
FIPI



**Dr. Rakesh
Sati**
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**Shri S.K
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**Shri Sudhir
Mathur**
Ex-Cairn Oil & Gas (Vedanta Ltd.)



**Shri Manish
Maheshwari**
Invenire Energy



**Dr. Rabi Narayan
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