

OUTLOOK OF PETROLEUM INDUSTRY IN THE CONTEXT OF **COP26**

30th & 31st AUGUST 2022
INDIA HABITAT CENTRE, NEW DELHI



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Oil and Natural Gas Corporation Limited

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PROGRAMME

DAY 1: AUGUST 30, 2022			
Session 1 Inauguration	1030 – 1035	Welcome	Shri B Bhambhani Secretary General, IEF
	1035 – 1050	Presidential address	Shri RV Shahi, President, IEF
	1050 - 1120	Inaugural Address	Shri Pankaj Jain IAS, Secretary, Ministry of Petroleum & Natural Gas
	1120-1125	Vote of Thanks	Shri Ashok Varma, Convenor, Oil & Gas Group, IEF and Former Director, ONGC
	1125 - 1145	TEA BREAK	
Session 2 CEO Panel Discussion	1145 – 1330	Shri Subhash Kumar, Former CMD, ONGC Shri Rajarshi Gupta MD OVL Shri Sunil Duggal Group CEO Vedanta Shri Pankaj Kalra CEO ESSAR Dr. Ranjit Rath CMD OIL Dr. Sunjoy Joshi, Chairman, ORF - Moderator	
	1330 - 1410	LUNCH	
Session 3 Exploration Potential in India, strategy to contain expenditure and expedite monetization	1410 – 1430 1430 – 1450 1450 – 1510 1510 – 1530 1530 - 1545	Shri RK Shrivastava, Director(E), ONGC Dr. Manas Kumar Sharma, Director (E&D), OIL Shri Biswanath Ghosh, Head OALP & Exploration, Cairn Dr. C Laxma Reddy ADG (E), DGH Q & A	
	1545-1600	TEA BREAK	
Session 4 Panel Discussion Sourcing equity oil from abroad Strategy	1600 – 1620 1620 – 1650 1650 – 1710 1710 - 1730	Shri Harish Madhav, Director (F) OIL Shri Sanjeev Tokhi Director (E) OVL Shri Anupam Agrawal Director (F) OVL Shri Deepak Mahurkar, Partner, PWC - Moderator Q & A	
	1930 – 2130	NETWORKING DINNER	
DAY 2 AUGUST 31, 2022			
Session 5 Status of discovered reserves and strategy to monetize the same. Production enhancement potential in existing fields.	1030 – 1050 1050 - 1110 1110 – 1130 1130 – 1150 1150 – 1210 1210 - 1230	Shri Pankaj Kumar, Director (Offshore) ONGC Shri Anurag Sharma, Director (onshore) ONGC Shri Pankaj Kumar Goswami, Director (Ops) OIL Shri OP Singh, Director (T&FS) ONGC Ms. Pomila Jaspal, Director (F) ONGC Dr. Anand Gupta, ADG (Development), DGH	
	1230 - 1245	TEA BREAK	
Session 6 Strategy for downstream sector	1245 – 1305 1305 – 1325 1325 - 1345	Shri Ashu Shinghal, ED GAIL Shri Deepak Mahurkar, Partner, PWC Shri P Raman – Advisor, MoPNG	
	1405 - 1455	LUNCH BREAK	
Session 7 Competition	1455 – 1505 1505 – 1525	Shri Kuljit S Popli Co-Founder and Director, NBFC & Former CMD, IREDA Shri SM Mahajan, Former Executive Director BHEL	
	1525 - 1550	TEA BREAK	
Session 8 Valedictory	1550 -- 1630	Conclusion VOTE OF THANKS	President, IEF CONVENER OIL AND GAS VERTICAL

OUTLOOK OF PETROLEUM INDUSTRY IN THE CONTEXT OF COP26



By Mr. Ashok Varma

Convenor, Oil & Gas Group, IEF & Former Director (Onshore), ONGC

The Panchamrit gifted to the world during COP26 was a commitment of the country for:

- Raising the non-fossil fuel based energy capacity of the country to 500 GW by 2030.
- Meeting 50% of the country's energy requirements from renewable energy sources by 2030.
- Reducing the total projected carbon emission by one billion tonnes between now and the year 2030.
- Reducing the carbon intensity of the economy to less than 45% by 2030.
- Becoming carbon neutral and achieving net zero emissions by the year 2070.

Presently, as per data available publicly, shared by Dept. of Commerce, Ministry of Commerce and Industry, as on March 31, 2020, coal provides 60.1% of our energy requirements, petroleum and natural gas 36.6% and non- fossil fuel based sources like Nuclear, Hydro and Renewables a total of 3.3%.

World over, several oil majors have slowed down activities in the upstream sector, which is one of the reasons cited for present increase in the oil prices. Reduction in exploration and development would certainly result in reduction of production and thus a widening gap between supply and demand and therefore shooting up of oil price, which should be heartening news for the upstream companies. But market forces on oil price are not that simple. We have seen how the oil prices dropped down due to a glut

because of shale oil invasion of the market. We also saw that dropping of prices made shale non-profitable and several companies faced bankruptcy. With every increase in the oil price, rigcount in shale business went up and viceversa! Continuous improvements in technology made solar energy techno-commercially viable albeit with several drawbacks. Several countries including India are making serious efforts in making green hydrogen also viable in not very far future. Thus it is difficult to predict what kind of impact hydrocarbon industry may have to face ultimately. Will some countries shun hydrocarbons? Will some upstream companies shut down? Will oil price shoot very high up? Will environmental controls make use of hydrocarbon impractical? Would it still be prudent to continue exploration and development of oil and gas?

Oil exploration is not only capital intensive, high risk investment, but also takes a long time to fructify. Any new exploration starting today, if successful, would take about eight years to start commercial production of oil or gas. This is as per the timelines given under the OALP program by DGH. Thus the first oil coming out of a successful exploration program starting today, would start delivering results in 2030, when we would be curtailing the use of oil as primary source of energy. So will this investment not become infructuous even if successful?

India Energy Forum invited experts from all stake holders to deliberate on the issue through this seminar!



DISTINGUISHED SPEAKERS



Mr. Subhash Kumar

Former CMD, ONGC

Veteran in Oil and Gas Industry with over 35 years' experience in India and abroad in a Fortune 500 Company at one of the most diversified national companies of India. Have dealt with all the Majors and NOCs for building alliances and contributing towards organizational growth. Represented the organization in various national and international fora like APPEC, Global Petroleum Show, World Economic Forum and have been part of Minister level overseas delegations at important bilateral/multilateral events such as OPEC or during ministerial visits to energy exporting countries. Have evaluated, negotiated and closed oil and gas related M&A transactions worth billions of dollars. Experience of working in India and abroad on issues like advocacy for company, group and industry issues through close cooperation and active support from various industry organizations. Specialization in Financial Management, Treasury Management, Taxation, Risk Analysis, Procurement & Contracts, Corporate Governance, Performance Benchmarking & Evaluation, Investor Relations etc. Proven track record of excellent communication and organization skills to lead and improve team efficiencies. Team player with strong negotiating skills and business acumen and ability to develop excellent work culture. Have been at Boards of 4 listed companies thus having 360-degree view of industry, management issues and stakeholder management. Have been office bearer of Employee Collectives for about two decades and have keen understanding of dynamics within collectives and manpower related issues. Currently working on sustainability and Energy transition.



Dr. Ranjit Rath

CMD OIL

Dr. Ranjit Rath, an alumnus of IIT Bombay & IIT Kharagpur is the Chairman & Managing Director of Oil India Limited, India's second largest National Exploration & Production Company. A practitioner Geoscientist with impeccable experience & expertise in the field of Geoscience, Dr. Rath is a proud recipient of the prestigious National Geosciences Award from the Hon'ble President of India.



Mr. Rajarshi Gupta

MD OVL

Rajarshi Gupta has more than 33 years of wide-ranging experience in supervisory, managerial & strategic planning capacities in domestic and international operations of ONGC and ONGC Videsh. He has a keen business sense of the oil & gas industry, commercial and financial acumen, with mergers & acquisitions, strategic planning and man management as his core strengths. During his professional career, he has worked in the domains of Supply Chain Management, Business Development,

Project Management, Planning & Strategy, Corporate Communications, Human Resources Management and General Administration.

He has an excellent track record in Educational and Professional domains. A mechanical engineer from NIT Rourkela, he is also a Gold Medallist in MBA (International Business) from Indian Institute of Foreign Trade, with the highest-ever CGPA scored in the history of the institute.

He has spent 13 years in ONGC Videsh during its golden growth period from 2006-2019, working across the globe in diverse geographical and fiscal regimes, in Business Development, Merger & Acquisitions, and Project Management of Exploration & Development projects. As Country Manager and President of ONGC Videsh's US subsidiary, he set up the Geological & Geophysical Centre of Excellence in Houston. On return, he was Head of Corporate Planning & Strategy in ONGC Videsh and also headed Strategic HR and Corporate Communications. He was instrumental in framing the international business vision in ONGC's long-term vision document, the Perspective Plan 2030.

As Executive Director- Chief of Corporate Strategy & Planning in ONGC, he was responsible for formulating short, medium, and long-term strategies of the Company and provide a framework to the top management on developing scenarios in the sector. He was also responsible for management and networking with key stakeholders like MoPNG, DGH, DPE, Niti Aayog, PPAC, Investors and Credit Agencies. He spearheaded the rollout and implementation of the fifteen transformational initiatives formulated under the ONGC Energy Strategy 2040.

Awarded multiple times at the highest level for significant contribution to the Company, including the prestigious Manager of the Year Award from CMD, ONGC in 2014.



Mr. Sunil Duggal
Group CEO Vedanta

Sunil Duggal is Whole-time Director, Group Chief Safety Officer and Group CEO at Vedanta since Apr'20. Prior to this, he was CEO & Whole-time Director of Hindustan Zinc Limited (HZL) between 2015-2020.

His stint at Vedanta followed from Ambuja Cement, a Holcim group company, spanning 20+ years in highperforming leadership roles. He later rose through the ranks at Hindustan Zinc to become CEO and Whole-time Director of Vedanta Ltd.

Sunil Duggal is the chair of CII National Committee on Mining, an esteemed mining body. He has also served as Vice-Chairman of International Zinc Association, President of the Indian Lead Zinc Development Association, Chairman of FIMI & Co-chair of FICCI.

He carries immense wealth of experience in leadership roles, sustainability, scientific curiosity, commercial & business acumen, conflict resolution and stakeholder management skills. This has equipped him to help Vedanta attain an unprecedented growth trajectory and bring energy transition. He has also embedded culture of quality, customer satisfaction, digital transformation, innovation, operational excellence, brownfield/greenfield expansion, and safety at Vedanta. Being a passionate ESG leader, he has hardwired sustainability in the organization's DNA, integrating it with the decision-making process to make it a future ready sustainable organization and achieve ESG leadership. Under his leadership, has also consolidated its position as one of the largest private-sector employers in India and the country's most valuable company. His people-first approach led to one of the biggest and best in class covid care campaigns across the country helping employees, business partners, their families & communities navigate through the pandemic.

His business leadership has been recognized by several corporate and community organizations across the world, accolading him with numerous awards, including

- Positioned among India's top 30 CEOs for paving the way of life in making himself & the company a brand, Startup Lanes, 2021
- CEO of the year a "Business Leader of the year", Fun & Joy at work, ET Now, 2019
- Featured amongst 20 best CEOs, The Silicon Review, 2018

Sunil Duggal is a graduate in Electrical Engineering from Thapar Institute of Engineering & Technology, Patiala.

He is also an alumnus of the International Institute for Management Development (IMD), Lausanne – Switzerland, and the Indian Institute of Management (IIM), Kolkata, India.

He is an avid reader, an excellent orator, a generous philanthropist & an entrepreneur at heart.



Mr. Pankaj Kalra

CEO ESSAR

Mr. Pankaj Kalra has 22 years of experience and a demonstrated track record of working across multiple sectors. His functional skill set includes expertise in M&A, fundraising (both onshore and offshore), accounting, internal controls, procurement and financial modelling.

Prior to joining Essar, he was the CFO of Cairn Oil & Gas, and has been associated with Reliance, Aircel, Idea, American Tower and EY.

Mr Kalra is a rank holder Chartered Accountant and a Company Secretary, with a bachelor's degree in commerce from Sri Ram College of Commerce.



Dr. Sunjoy Joshi

Chairman, ORF

Dr. Sunjoy Joshi, Chairman, Observer Research Foundation began his career with the Government of India as a member of the Indian Administrative Service in 1983, serving in various capacities for 25 years when he left to join the Observer Research Foundation to pursue his primary interests in energy and environment. His last posting with the Government of India was as Joint Secretary in the Ministry of Petroleum and Natural Gas. He has been Director of the Board of National Energy Companies such as

ONGC, OVL, OIL and MRPL and has had wide experience in administering fiscal and contractual regimes for oil and gas.

His experience of policy making and implementation cuts across the conventional as well as non-conventional energy sectors and covers issues related to water use, and its conservation and management. He has been Visiting Associate at the International Institute of Strategic Studies, London and Distinguished Visitor to the Program on Energy and Sustainable Development, University of Stanford. Takes keen interest in social development as Vice President of the Mountain Children's Foundation, a not for profit group working with rural children in the Himalayas.

He speaks publishes and comments on the world of technology, energy, and development, framing them in the context of global shifts and the challenges to growth and employment faced by emerging economies. To generate serious interest on these subjects among a wider audience he has initiated a regular Youtube commentary on Global and Current Affairs called India's World which attracts a diverse audience and remains the only one of its kind in Hindi on such diverse subjects.



Mr. Rajesh K Shrivastava

Director (E), ONGC

Mr. Rajesh Kumar Shrivastava, Director (Exploration), ONGC, has more than 38 years of experience in up-stream hydrocarbon exploration from well site operations (on-land & offshore), development geology, seismic data interpretation to monitoring and planning of exploration and development activities in various basins including deep water exploration on east coast of India.

He is holding charge of Director-Incharge Carbon Management & Sustainability Group (CM&SG) and Chairman, ONGC Teri Biotech (OTBL), which is Joint Venture of ONGC & TERI.

With specialization in reservoir characterization and geo-statistical modeling, he has made significant contributions towards field development by generating geological models for number of oil and gas fields of India and abroad, the significant ones amongst these being Fields in Assam & Assam Arakan Basin, Neelam, Mumbai High North, El-Nar field of Sudan.

Recipient of many meritorious certificates and awards including Geologist of the year award from Chairman, ONGC in 2002. As an acknowledgement for his contributions towards field development and hydrocarbon exploration, he was awarded the 'National Mineral Award' by Govt. of India in the year 2007.



Dr. Manas Kr. Sharma

Director (E&D), OIL

Dr. Manas Kumar Sharma, Director (Exploration & Development) Oil India Limited, a Geologist with in-depth knowledge of subsurface & surface domain of oil and gas industry and having an extensive experience of more than three decades, is responsible for the entire chain of exploration & development activities of the company both in domestic as well as overseas acreages. Dr. Sharma has conceptualized action plans for various exploration activities leading to identification of prospects for continued

hydrocarbon exploration, appraisal of discoveries and formulation of revitalization plan for existing brown fields in operational areas of Assam and Arunachal Pradesh. He is instrumental in strengthening Industry-Academia collaboration with Universities in the Northeast, which has helped OIL towards its pursuit of extensive exploration in Northeast by developing better understanding of Assam & Assam-Arakan Basin. An alumnus of Dibrugarh University, Dr. Sharma is a Ph.D and M Tech in Applied Geology.



Mr. Bishwanath Ghosh

Head OALP & Exploration, Cairn

Mr. Biswanath Ghosh is the Head OALP & Exploration in Cairn Oil and Gas, Vedanta Limited. He leads the new ventures and exploration in the organization to unlock value through exploration & early monetization. Biswanath has over 22 years of experience in upstream E&P industry. Biswanath has delivered several projects across multiple basins/areas in India and abroad contributing to pioneering hydrocarbon discoveries. Biswanath is a gold medalist and holds a Master's Degree in Applied

Geophysics from IIT-ISM Dhanbad. Biswanath is also the winner of Great Managers Award 2021.



Dr. C Laxma Reddy

ADG (E), DGH

Dr. C. Laxma Reddy is an upstream Oil & Gas professional with more than three decades of diverse experience covering the entire gamut of E&P industry. During his tenure with GAIL he worked in Business Development and succeeded in convincing the Management of GAIL, to venture in to Upstream Hydrocarbon sector. He was associated with MoPNG on: Review of development plans of fields and concurrent

review of performance of all major Oil&Gas fields. As a member of Corporate War Room of ONGC, effectively monitored E&P status and various activities undertaken to achieve the goals & objectives of organization.

Dr. Reddy In his present leadership role at DGH as Additional Director General (Exploration), is responsible for award of acreages, hydrocarbon resource assessment, National Data Repository, geophysical data acquisition, devising policies to apprise Indian sedimentary basins and monetize discoveries. In all these roles, he always follows a collaborative approach in executing varied responsibilities. Diversified field & corporate experience has helped him to equip himself with C-Suite qualities and a leadership position in the E&P industry.



Shri Harish Madhav

Director (Finance)

Shri Harish Madhav is a member of the Institute of Chartered Accountants of India (ICAI) and working as Director (Finance) on the Board of Oil India Limited. He is also having additional charge of Director (HR) since July 2021 to till date.

He has been handling a diverse gamut of finance and accounting functions covering International Fund Raising, Treasury Management, Corporate Strategy, Risk Management, Corporate Accounts & Audit, and Budgeting.

Before joining OIL, he had also worked with Hindustan Petroleum Corporation Ltd. During this tenure, he has also served key Govt. Bodies in Oil and Gas sector on deputation assignments.

Shri Madhav has over 30 years of rich and varied experience in Oil & Gas industry in both Upstream and Downstream sectors.



Mr. Sanjeev Tokhi

Director (E) OVL

Mr. Sanjeev Tokhi took over as the Director (Exploration) on 4 th October 2021 to join the Board of ONGC's wholly-owned subsidiary, ONGC Videsh Limited (OVL).

In his 34 years of illustrious career, Mr. Tokhi commands a diversified exposure in all facets of exploration from Acquisition, Processing and Interpretation (API) to Petroleum Basin Modelling and Project Economics. Under his stewardship, acquisition of state-of-the-art broadband seismic in Mumbai Offshore and consequent analysis of

the data led to a number of discoveries, accreting hydrocarbon resources of over a hundred million metric tons.

His leadership capabilities left indelible marks in a number of important projects like the efficient development of B12 & Daman fields, North Tapti ML, Revival of Ratna and R-Series fields, Pliocene Gas discoveries, and accelerated exploration campaign in recently reverted Panna & Mukta fields. His contribution towards technology interventions in the deep-water Krishna Godavari basin, enabled robust reservoir characterization in Cluster-2 of northern discovery area of KG- DWN- 98/2 Block.

As the Director (Exploration) of ONGC Videsh, his focus would be towards astute acquisition of prospective acreages across the globe to OVL portfolio, contributing to national energy independence for an Atmanirbhar Bharat.



Mr. Anupam Agrawal

Director (F) OVL

Anupam Agrawal took over as Director (Finance) of ONGC Videsh Limited on 18th June 2022, Schedule 'A' CPSE and subsidiary of ONGC. Mr Agarwal was recommended to the position by Public Enterprise Selection Board (PESB) on 28th February 2022 and has been appointed to the post by the President of India.

Prior to this, Mr Agarwal served as Executive Director (Finance) in ONGC since January 2020. Mr Agarwal is a fellow member of the Institute of Cost Accountants of India and an associate member of The Institute of Company Secretaries of India. He is an alumnus of Lucknow University, where he obtained his Bachelor's degree in Commerce and Master's degree in Business Administration (Finance). He is also a Chartered Financial Analyst from the ICAI Hyderabad.

Mr Agarwal joined ONGC in 1990 as Finance & Accounts Officer and rose to the position of Executive Director, Chief Corporate Finance where he handled varied assignments, such as Direct tax, Indirect tax, Policy matters, Investor relations, Corporate Budget & Project Appraisal, Bidding for NELP and DSF Blocks, etc. During his tenure in ONGC, he handled responsibilities in diversified roles at Corporate Office, Dehradun, Mumbai, Assam and Baroda.



Mr. Anurag Sharma

Director (Onshore) ONGC

Mr. Anurag Sharma currently serves as Director (Onshore), Oil and Natural Gas Corporation Ltd. He additionally holds positions of Director- I/c HSE, Director-I/c Marketing and Director-I/c MM. Mr. Sharma also serves as a member on the boards of Dahej SEZ and Mangalore SEZ Ltd. He also chairs the board of Petronet MHB Ltd.

As Director (Onshore), he has spearheaded multipronged Production Enhancement Strategy like Production Enhancement Contract of marginal nomination fields through external partnership, development of difficult and under-exploited Reservoirs, Implementation of various EOR schemes, driving Infrastructure Projects and field redevelopment. His passion for leveraging new technology to build operational efficiency has been pushing Assets to enhance their performance and also bringing digital transformation at ONGC.

Under his leadership, ONGC is transforming its Safety Culture and building processes for achieving HSE excellence at par with International Standards. Mr. Sharma has also been guiding the flagship 'Make-in-India' Campaign and 'Start-up-India' initiatives at ONGC.

His career spanning 38 years, covers expertise in both domestic and International Operations. He has contributed immensely towards Business Development and Project Management for ONGC Videsh in CIS and South East Asia. He has been associated with offshore Vietnam projects and headed RIG Russia.

Sh. Anurag Sharma holds Bachelor of Engineering degree in Mechanical Engineering from Motilal Nehru National Institute of Technology, Allahabad and Master of Business Administration from FMS, Delhi.



Mr. Pankaj Kumar

Director (Offshore) ONGC

Mr. Pankaj Kumar, Director (Offshore) - ONGC is a veteran of the oil and gas industry with more than 34 year of experience across the ONGC's business functions varying from operations management of offshore and onshore fields, well engineering, joint venture management, Asset management, Corporate Strategy and Planning to name a few.

He is one of the few who has risen from the field at offshore to occupy the highest chair (Director Offshore) from where he is steering around 70% oil & oil equivalent of gas domestic production of the ONGC and around 50% of India's total oil & gas production.

He is also in the board of HPCL, OPaL, OMPL and PHL in addition to ONGC Board. From these positions, he is deeply engaged in ensuring how close India can achieve its energy security targets and aspirations.

Mr. Pankaj Kumar has to his credit many an initiatives that has seen good turnaround in production from mature fields like that from Ahmedabad Asset, Cambay Asset and later in ensuring that production from mature offshore fields remain sustained and see an increase in production. He is overseeing the largest deep water endeavors of ONGC at its East Coast, named KG-98/2 to ensure that India's Gas production gets augmented significantly.

Mr Kumar served as the Asset Manager of the largest onshore Asset of ONGC at Ahmedabad during the Covid-19 pandemic and lockdown. Under his leadership, the facility with 67 installations continued operations round-the-clock and maintained production.

During his stint in Joint Venture (JV) Operations Group, Mr. Kumar was instrumental in exceptional turnaround of CBOS/2 Offshore JV block by making it profitable with almost 100 per cent increase in production and delivering complex offshore projects in Panna-Mukta and Tapti block, on-time and within allocated budget.

While working in field as young engineer and later as manager, he has ensured that process and operations continues efficiently and wells kept producing to its true potential safely. He kept motivating the teams (and the workforce) to deliver happily. He has been a great mentor all through.

As Chief of Corporate Strategy and Planning, he has been entrusted with drawing the long term energy strategy for the company. The document Energy Strategy 2040 is the guiding force now not only for ONGC's aspirations for the future but also for the meeting the energy needs and requirement of the country.

Mr. Pankaj Kumar holds a Bachelor's degree in Chemical Engineering from University of Roorkee, now IIT Roorkee, and Master's degree in Process Engineering from IIT Delhi. He has undergone Advance Management Program at IIM, Bengaluru and Leadership Development Program at IIM, Calcutta.



Mr. Pankaj Goswami

Director (Ops) OIL

Shri Pankaj Kumar Goswami, Director (Operations) Oil India Limited, a Production Engineer by profession with more than 32 years of rich experience in oil & gas production activities in Assam and Assam-Arakan Basin in Northeast India, is responsible for the entire extent of activities of oil and gas production business of OIL's producing fields in Assam, Arunachal Pradesh, and Rajasthan. Shri Goswami has been instrumental in conceptualizing number of out-of-box ideas that acted as catalysing

agent for maintaining OIL's production profile from very old and mature oil fields of Assam. In true sense, he is a hard-core oilman with deep learning on geology, drilling and most importantly the social fabric of a difficult exploration terrain of the states of Assam and Arunachal Pradesh. He is also credited with execution of some of the major projects for enhancing production of Oil & Gas. A thorough technocrat, Shri Goswami has presented several technical papers relevant to the oil and gas industry both at national and international level.



Mr. Om Prakash Singh

Director (T&FS) ONGC

Mr. Om Prakash Singh is Director (Technology & Field Services) on the Board of ONGC. He is also a Director on the Board of Joint Venture companies of ONGC – OTPC & NETC. He is on several Board Level Committees of ONGC and ONGC group of companies.

He is the Executive Board member of SCOPE – Standing Conference on Public Sector Enterprises. He chairs the SCOPE Committee on Digital Transformation and is a member of Committee on Sustainable Development and Climate Change.

Mr. Singh spearheads the Drilling & Well Services, all Technical Services, IT Operations and Information Security of this Maharatna E&P Company.

Mr. Singh also has the responsibility of 2 prestigious institutes of ONGC – Institute of Drilling Technology, Dehradun – a Center of Excellence in Drilling Technology and School of Maintenance Practices, Vadodara which provides support and training for Field Maintenance Services.

ONGC Energy Center (OEC) under his leadership has entered into an MOU with the Govt. of Ladakh for harnessing Geo-Thermal Energy. Drilling of geo-thermal wells for power generation in Ladakh has already commenced. For harnessing green hydrogen in safe and efficient manner, OEC funded projects with IIT Delhi and other reputed institutions are also underway.

A Mechanical Engineer par excellence, Mr. Singh has more than 34 years of extensive National and International exposure in E&P operations – both Onshore as well as Offshore. His role in managing ONGC Tripura Asset, Nhava Supply Base, Mumbai, challenging Deepwater drilling projects in India and overseas projects in Vietnam, Iran, Qatar and Brazil have been praiseworthy.

Mr. Singh led from the front and ensured that the Drilling & Well field services continued to perform even during the pandemic. The supply lines were maintained and required IT & other technological support to Work from Home (WFH) was extended to the employees to ensure business continuity.



Ms Pomila Jaspal

Director (F) ONGC

Ms. Pomila Jaspal is a Fellow Member and Gold Medalist of The Institute of Cost Accountants of India. She has obtained B.Com. (Hons) degree from MCM DAV College, Chandigarh and M.Com. from Punjab University.

She has 36 years' experience across varied segments of oil & gas Industry encompassing operating, regulatory, and policy aspects of upstream and downstream industry. Prior to joining as Director (Finance)-ONGC, Ms. Jaspal was serving as Director (Finance) since October 2019 in Mangalore Refinery and Petrochemicals Ltd (MRPL)- Schedule 'A' CPSE and subsidiary of ONGC. She was the First ever woman Functional Director on the Board of MRPL. She was instrumental in the merger of OMPL with MRPL, paving the way for synergy and integration benefits for the ONGC Group.

Ms. Jaspal Joined ONGC in 1985 as Finance & Accounts Officer and rose to the position of Executive Director-Chief Corporate Finance where she handled varied assignments including Corporate Finance functions such as Direct tax, Indirect tax, Investor relations, Corporate Budget & Project Appraisal etc. During her tenure in ONGC, she handled responsibilities in diversified roles at Corporate Office, Dehradun, Mumbai, Assam and ONGC Videsh. She was the First Lady to become Head Finance of Assam Asset and handled this challenging assignment for 4 years. She also has the rich exposure of working in ONGC Videsh Ltd where she handled finance of various assets like Sakhalin, South Sudan, Kazakhstan, and Colombia etc and steered smooth buyout of Azerbaijan Asset.

Ms. Jaspal also worked at Directorate General of Hydrocarbons (DGH)-regulatory arm of MOP&NG, in its formative years.

She is also a Director on the Board of Mangalore Refinery and Petrochemicals Limited (MRPL), ONGC Tripura Power Company Limited (OTPC), Petronet Mangalore Hassan Bangalore Limited (PMHBL), ONGC Petro additions Limited(OPaL) and Mangalore SEZ Limited.



Dr. Anand Gupta

ADG (Development), DGH

Dr. Anand Gupta is an accomplished Petroleum Engineer with over 34 years of experience in across the entire spectrum of E&P business including strategy, field development & operations, project implementation, production enhancement, data analytics operational excellence, contract management, policy and regulations.

Currently he is holding the post of Additional Director General (Development) in Directorate General of Hydrocarbons (DGH) under Ministry of Petroleum and Natural Gas, Govt. of India and is working on improving production from different fields in the country and revival of various fields. He is involved in new round of Discovered Small Fields (DSF-III) and Coal Bed Methane round (CBM).

He holds Bachelor of Engineering in Mechanical Engineering from IIT Roorkee, M Tech in Petroleum Engineering from ISM Dhanbad and MBA in Finance from Indira Gandhi National Open University (IGNOU). He also holds Doctorate in Petroleum Engineering from PDP (Pandit Deendayal Petroleum University), Gandhinagar.

His previous major assignments include management of Field Operations, development of technological solutions, design of Production Enhancement Contracts and various Data Analytics studies. He has been involved in monitoring performance of onshore/offshore assets, production optimisation and revival of wells/fields.

He has authored more than 10 papers which have been published in different journals at National & International levels. Prior to joining as Additional Director General, he was holding the position of Executive Director in ONGC, as Chief Production Directorate.



Mr. Ashu Shinghal

ED GAIL

Ashu Shinghal is a Mechanical Engineering graduate from NIT, Silchar and also holds a Master degree in Business Administration (MBA), with specialization in Operation Management. He is presently heading Corporate Strategy, Planning & Advocacy, Risk Management, Total Quality Management and Sustainable Developments departments at GAIL (India) Limited as Executive Director while also being responsible for the role of Chief Risk Officer of the organization. He is a serving Director on the Board of ONGC

Petro Additions Ltd. (OPAL) and Talcher Fertiliser Ltd (TFL). He has also served terms as Director on the Board of Mahanagar Gas Ltd (MGL).

Mr. Shinghal has rich experience of more than 30 years in hydrocarbon sector covering diverse functional areas which includes Corporate Strategy, large scale Project Execution including cross country Gas Pipelines, Petrochemical and LNG. He works in close association with top management in strategic decision making of GAIL. Key liaison point for stakeholder engagement initiatives under natural gas advocacy program with various multilateral organizations, industry associations' committees and think tanks. He led the Profit Maximization assignment in GAIL resulting in accrual / realization of benefits of over Rs. 1000 Cr through operational efficiencies, cost reduction and revenue maximization. Mr. Shinghal also represented the Indian industrial delegation in prestigious International Visitor Leadership program by US Govt.



Mr. Deepak Mahurkar

Partner, PWC

Deepak Mahurkar, a Partner in energy consulting at Price Waterhouse Coopers. is a Mechanical Engineer, and PG in Finance and Marine Engineering. He leads the Oil & Gas industry practice of the firm. Starting his career with the Indian Navy Engineer officer, during the 34 years, he undertook consulting, marketing, commercial, sales and operations functions in petroleum, distributed power generation, utilities and marine industries.

He has worked for creating an attractive investment regime, managing business entry, turning businesses sustainable and improving business performances. His clients include private and public companies, government bodies and industry associations in energy and associated sectors.

Deepak has been associated with many LNG receiving terminals development, both as a supplier and as a consultant. He specialises in gas industry business.

Deepak has significant international consulting experience with clients in the USA, the UK, Middle East, East Africa, West Africa, Central Asia, Bangladesh, Sri Lanka, Singapore and Canada.

He has been part of investors' road shows, industry consultations and advisory meetings. He often moderates strategy sessions of clients in oil & gas companies. He contributes to public consultation and debate through articles in international and national print media, and through local industry journals.



Mr. P Raman

Advisor, MoPNG

A graduate in Chemical Engineering from SVU College of Engineering, Tirupati (Andhra Pradesh), Raman has been a part of the company for a good 35 years. He began his service erstwhile CRL in the Manufacturing department and then worked in Oil Coordination Committee (now PPAC) during the period 1995-2000. Worked in International Trade, Supply Chain Optimisation departments of BPCL before Joining as Director in Centre for High Technology in 2019

His work experience includes Commissioning of Aromatic Recovery units as part of team BPCL's maiden venture into Crude Oil procurement activities, shipping activities like COA with SCI, setting up risk management desk, etc.; Implementation of Selection of crude procurement through the LP Model (PIMS) first oil PSU in India, implementation of Advanced Optimization (AO) in crude selection process facilitated procurement of spot crude oils through M/S Shell trading desk. In CHT looking after Bench marking studies, Refinery Improvement Programmes and Implementation of PM-Jivanyojana Scheme.



Mr. Kuljit S Popli

*Co-Founder and Director, NBFC
& Former CMD, IREDA*

Mr Popli has more than 40 years of experience in Power and Renewable energy sector. During last 40 years he served in various positions in NHPC, PFC and Ireda.

Under his leadership , Ireda grew exponentially in all parameters during 2014-2019. He introduced various new financial products helping the Organisation and the sector as a whole and making access to finance easier for RE Entrepreneurs.

He also facilitated and signed long term lines of credit with Mulilateral and Bilateral Dev Banks to access low cost and long term credit to help the Sector. His contribution to financing RE Projects was well recognised by the Industry.

He is an Electrical Engineer with added qualifications in Law, Management and Finance. After very successful tenure with Ireda he worked for two years as Advisor with International Solar Alliance for raising corpus and facilitating finance for member Countries.

He is at present a cofounder and Director of an NBFC and Independent Director on Board of four other Cos and advisor with another two/three cos.



Mr. SM Mahajan

Former Executive Director BHEL

Mr. Mahajan superannuated from BHEL as Executive Director, after serving the organisation for 39 years at various levels in various units and different functions. He is presently Manufacturing Consultant to several pvt. sector companies, Industry Expert with a couple of banks, and a Member of National Working Group on EVs of Ministry of Electronics and IT.

He is also VP of Asian Welding Federation and had been the President of Indian Welding Society.

Mr. Mahajan holds B.Tech in Mech from Delhi College of Engg in 1970, M.Tech in Management & Systems from IIT Delhi and has undergone Management Course from Leeds University.



INDIA ENERGY FORUM

India Energy Forum is a unique, independent, non-profit research organization and represents energy sector as a whole. It was set up in February 2001 and formally inaugurated in January 2002. The mission of IEF is to help evolve a National Energy Policy aimed at development of a sustainable and competitive energy sector in India. It is, probably, the only organization which championed the cause of TOTAL ENERGY – all forms of energy ranging from Coal, Power – Thermal & Hydro, Oil & Gas, Nuclear and Renewable from the beginning of its function. This feature of its functioning gave a distinctive advantage of taking an integrated look on the energy scene. In fact, IEF did frame an Energy Policy document which became an input to the Planning Commission's Integrated Energy Policy brought out in August 2006.

Forum celebrated its 20th anniversary in June 2021.

Shri P S Bami, Former CMD, was the Founder President of the Forum followed by **Shri Anil Razdan**, Former Secretary, Ministry of Power. Presently, **Shri R V Shahi**, Former Secretary, Ministry of Power, Government of India is the President of India Energy Forum. A copy of the Board of Management is annexed.

Its membership includes all the key players of the sector including NTPC, NHPC, Power Grid Corporation, Power Finance Corporation, Reliance Energy, Tata Power, ONGC, Indian Oil Corporation, Neyveli Lignite, Coal India, India Energy Exchange and over 120 highly respected energy experts.

Forum has concluded an MOU with International Solar Alliance to promote the development solar power projects not only in India but throughout the world.

It works closely with the main regional chambers and industry organizations including Bombay Chamber, Bengal Chamber, Madras Chamber, PHD Chamber, Observer Research Foundation, IRADE, INWEA, Indian Coal Forum, ORF, Federation of Indian Petroleum Industry, MGMI DC and ISMAA DC. Every year it organizes its flagship events viz, India Power Forum, Petro India, Renewable Energy Summit, Coal Summit/Roundtable Conference on Coal and Nuclear Energy Conclave.

Forum organizes webinars on critical issues of energy sector and monthly energy think tank meetings called “Urja Vichar Manch”. It publishes a bimonthly journal TOTAL ENERGY which provides authentic information on the whole energy sector at one source. It also publishes research papers and monographs. For more information, please contact:

India Energy Forum

408 PHD House
4/2 Siri Institutional Area
August Kranti Marg
New Delhi 110 016

Tel: 011-41021423/46094258
Email: iefindiaenergyforum@gmail.com
indiaenergyforum@gmail.com
Web: www.indiaenergyforum.org

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www.ongcvidesh.com

ONGC Videsh Ltd.

5th Floor, Tower B
Deendayal Urja Bhawan
5, Nelson Mandela Marg, Vasant Kunj
Delhi 110070, India
Tel: +91-11-26129344, 26753411 (EPBX)
Fax: +91-11-26129345 (I), 011-26129346
CIN NO: U74899DL1965GOI004343



A Navratna Company

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Oil India Limited (OIL), a Navratna PSU, is a fully integrated E&P company having significant presence across the entire value chain in the Hydrocarbon sector, pan-India and globally and share of over 9% of the Country's crude oil & natural gas production.

OIL's mission is to be "The fastest growing energy company with global presence providing value to stakeholders."

OIL has been Conquering Newer Horizons with:

- Overseas E&P assets and business in Russia, Venezuela, Mozambique, Nigeria, Gabon, Bangladesh & Libya.
- Foray into Renewable Energy - Total installed capacity of 188 MW (comprising Wind and Solar Energy Projects).
- Acquired majority stake in Numaligarh Refinery Limited (NRL) having a state-of-the-art 3 MMTPA refinery in Assam.



Regd. Office: P.O. Duliajan, Distt. Dibrugarh, Assam-786602 • Website: www.oil-india.com • CIN: L11101AS1959GOI001148
[OilIndiaLtd](https://www.facebook.com/OilIndiaLtd) [OilIndiaLtd](https://www.instagram.com/OilIndiaLtd)

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ऑयल इंडिया लिमिटेड
Oil India Limited



GAIL (India) Limited

INDIA
ENERGY
F O R U M

INDIAN ENERGY FORUM

408, PHD House, (4th Floor) 4/2 Siri Institutional Area,
August Kranti Marg, New Delhi, 110016