

# 5<sup>th</sup> CLI 2025

Theme: Decarbonizing Coal Supply Chain:  
Challenges and Opportunities

Expo : 9-10 Sept 2025 | Conf : 10 Sept 2025

Biswa Bangla Convention Centre, Kolkata

## Souvenir

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# INDIAN COAL FORUM

Presents

## 5<sup>th</sup> ICFI 2025

Theme: Decarbonizing Coal Supply Chain:  
Challenges and Opportunities

Expo : 9-10 Sept 2025 | Conf : 10 Sept 2025

Biswa Bangla Convention Centre, Kolkata

### ORGANISERS



ARE THANKFUL TO ALL PARTICIPANTS  
FOR THEIR OVERWHELMING SUPPORT  
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# CLI 2025

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भारत सरकार  
नई दिल्ली  
MINISTER OF COAL AND MINES  
GOVERNMENT OF INDIA  
NEW DELHI



## Message

I am delighted to convey my warm greetings and best wishes to the Indian Coal Forum and all participants of the 5th edition of CLI 2025 International Conference & Expo on "Decarbonising Coal Supply Chain: Challenges and Opportunities", being held on 9-10 September 2025 in Kolkata.

India's coal sector continues to be a backbone of our economic growth and energy security. Under the visionary leadership of Prime Minister Narendra Modi, the last decade has witnessed a massive transformation in the coal sector. Going by the mantra of 'Reform, Perform, Transform', wide-ranging reforms have been undertaken to enhance transparency, efficiency, and private sector participation, culminating in the landmark achievement of 1 billion tonnes of coal production last year.

As we march towards the vision of a Viksit Bharat @ 2047, these achievements are being carefully balanced with our sustainability goals. India is steadily integrating clean coal technologies, carbon capture and utilisation methods, and green mining practices to ensure the responsible and environmentally conscious growth of the sector.

Decarbonising the coal supply chain is a critical step towards achieving a cleaner and more sustainable future while ensuring that India's energy needs are met reliably and affordably. It calls for collective efforts, the adoption of modern technologies, and shared responsibility among all stakeholders.

I am confident that this Conference will serve as an excellent platform for industry leaders, policymakers, experts, and stakeholders to deliberate on challenges, share knowledge, and chart a progressive roadmap for a low-carbon future for the coal sector.

I commend the Indian Coal Forum for its continued dedication to addressing key issues concerning the coal industry and for organising this significant event. I extend my best wishes for meaningful discussions and a successful and impactful Conference.

With best wishes for the success of CLI 2025.

(G. Kishan Reddy)

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## Message

I extend my best wishes to the Indian Coal Forum and all participants of the CLI 2025 being held on 9–10 September 2025 in Kolkata.

India's coal sector has crossed a major milestone by producing over one billion tonnes of coal in FY 2024–25, marking a 4.99% growth over the previous year. Coal continues to power more than 74% of the country's electricity needs and remains a critical enabler of energy security, industrial activity, and infrastructure development.

As the world's second-largest coal consumer, India must now lead efforts to decarbonise the supply chain as a whole—while safeguarding its developmental imperatives. The recent 8.4% decline in coal imports, saving over ₹42,000 crore in foreign exchange, reflects the growing resilience and self-reliance of the domestic coal ecosystem.

Achieving our net-zero target by 2070 and the goals of Viksit Bharat @ 2047 will require systems-level innovation. This includes adopting advanced technologies, promoting R&D, and ensuring that operational best practices align with India's broader commitments under national and international climate frameworks.

I commend the Indian Coal Forum for steering this critical discussion. CLI 2025 offers a timely platform for industry leaders, researchers, policymakers, and stakeholders to share ideas, forge partnerships, and accelerate the low-carbon transition in the coal sector.

Let the outcomes of this forum help embed decarbonization of the coal supply chain as a national priority—anchored in technology, self-reliance, and sustainability.

  
(Dr. V. K. Saraswat)



विक्रम देव दत्त, मा०प्र०से०  
सचिव

**VIKRAM DEV DUTT, IAS  
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सत्यमेव जयते

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MINISTRY OF COAL  
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## Message

I am glad to convey my greetings and best wishes to the Indian Coal Forum and all delegates attending the 5th edition of CLI 2025 – International Conference & Expo on “Decarbonising Coal Supply Chain: Challenges and Opportunities”, being held in Kolkata on 9–10 September 2025.

The coal sector has long been the backbone of India's energy security and industrial development. As we look ahead, it is critical to ensure that the sector evolves in alignment with our national sustainability goals and emerging global benchmarks.

Decarbonising the coal supply chain — from extraction to transportation and end-use — calls for collaborative efforts, adoption of efficient technologies, and proactive policy support. It is encouraging to see industry leaders, experts, and stakeholders come together to deliberate on practical pathways for balancing energy needs with environmental responsibility.

I trust that this Conference will generate valuable ideas, actionable strategies, and meaningful partnerships that will contribute to a more efficient, modern, and sustainable coal sector.

I commend the Indian Coal Forum for its commitment to industry advancement and for providing a timely platform for constructive dialogue and knowledge exchange.

I extend my best wishes for the success of CLI 2025 and for productive and insightful deliberations.

(Vikram Dev Dutt)



पंकज अग्रवाल, भा.प्र.से.  
सचिव  
Pankaj Agarwal, I.A.S.  
Secretary



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## Message

I am pleased to convey my best wishes to the Indian Coal Forum and all participants attending the 5th edition of CLI 2025 — International Conference & Expo on "Decarbonising Coal Supply Chain: Challenges and Opportunities", being held on 9—10 September 2025 in Kolkata.

2. Reliable and affordable power is the backbone of India's economic development and the well-being of our citizens. Coal continues to play a crucial role in meeting the country's base load requirements while we steadily diversify our generation mix and expand renewable capacity.

3. In this context, improving the efficiency and sustainability of the coal supply chain is an important part of our larger energy transition strategy. I am confident that CLI 2025 will serve as a valuable forum for industry leaders, policymakers, and experts to exchange ideas, discuss challenges, and identify pathways that balance India's energy security with environmental stewardship.

*Regards,*

Yours sincerely,

(Pankaj Agarwal)



पी० एम० प्रसाद  
अध्यक्ष-सह-प्रबंध निदेशक  
**P. M. Prasad**  
Chairman-Cum-Managing Director



**कोल इण्डिया लिमिटेड**  
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## Message

Decarbonizing coal supply chain involves implementing strategies to reduce greenhouse gas emissions across all stages, from extraction to use and disposal. Coal extraction per se has minimal environmental impact compared to coal transportation or burning of coal, where the major emissions occur. At a macro level, decarbonizing is challenging and involves generation of cleaner forms of energy in economically viable manner, grid integration, efficiency improvements, carbon capture technologies etc,

Coal India is embracing environment friendly operations on increased scale than ever before like blast free surface miners that entail minimal damage to environment, use of in-pit crushers that help reduce movement of dumpers minimizing diesel exhaust and lessening air pollution, adopting vibro-rippers for blast free OB extraction, coal transportation through first mile connectively projects, adopting energy efficiency measures and increasing the green cover in mining areas. Coal India considers sustainable practices and innovative solutions to minimise the carbon footprint in mining areas as a committed duty.

I am pleased to know that the Indian Coal Forum is organizing a two-day CLI 2025 – International Conference & Expo on “Decarbonising Coal Supply Chain: Challenges and Opportunities”, on 9<sup>th</sup> & 10<sup>th</sup> September 2025 in Kolkata. With the participation of industry leaders, policymakers, academicians, and experts I am sure that CLI 2025 will witness implementable strategies to advance the imperative agenda of decarbonisation.

I extend my Best Wishes for the success of CLI-2025.

*P. M. Prasad*  
(P. M. Prasad) 03/09/2025



**S Suresh Kumar, IAS****CMD****Damodar Valley Corporation****Message**

I am pleased to extend my warm greetings and best wishes to the Indian Coal Forum and all participants of the 5th edition of CLI 2025 – International Conference & Expo on “Decarbonising Coal Supply Chain: Challenges and Opportunities”, to be held on 9–10, September 2025 in Kolkata.

As a pioneer in integrated power generation and river valley development, DVC remains committed to balancing reliable energy supply with sustainability and environmental responsibility. Improving the efficiency and carbon performance of the coal supply chain is vital to this mission.

I am confident that CLI 2025 will provide a valuable platform for stakeholders to share knowledge, explore innovations, and strengthen collective efforts towards a low-carbon energy future.

I commend the Indian Coal Forum for this timely initiative and wish all participants fruitful deliberations and the success of the Conference.

**(S Suresh Kumar)**



**प्रसन्न कुमार मोटूपल्ली**  
अध्यक्ष एवं प्रबंध निदेशक  
**Prasanna Kumar Motupalli**  
Chairman and Managing Director



**एनएलसी इंडिया लिमिटेड**  
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Navratna - Govt. of India Enterprise

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## Message

It gives me immense pleasure to extend my warm greetings to all participants, delegates, industry leaders, and experts attending the **CLI2025 – International Conference & Expo**, organized by the Indian Coal Forum.

Coal continues to play a pivotal role in India's energy security, even as we accelerate our transition towards a sustainable energy mix. The sector is undergoing rapid transformation—embracing technological innovations, environmental stewardship, and digital solutions to meet the growing energy demand while ensuring responsibility towards society and the environment.

At **NLC India Limited**, we remain deeply committed to contributing to this transformation. As a Navratna, Central Public Sector Enterprise with a strong legacy in lignite mining and power generation, we are diversifying into renewable energy, green technologies, and sustainable mining practices to align with the nation's vision of **Atmanirbhar Bharat** and **Net Zero 2070**.

I believe that forums like CLI2025 provide an excellent platform for sharing knowledge, exchanging best practices, and forging collaborations that will shape the future of the coal and energy industry in India and across the globe.

I convey my best wishes for the grand success of CLI2025 and hope that the deliberations during this Conference & Expo will lead to actionable strategies, innovative solutions, and long-lasting partnerships for the growth and sustainability of the sector.

**(Prasanna Kumar Motupalli)**



सतीश झा

Satish Jha

अध्यक्ष-सह-प्रबंध निदेशक

Chairman-cum-Managing Director



ECL

ईस्टर्न कोलफील्ड्स लिमिटेड

Eastern Coalfields Limited

(भारत सरकार का एक उपक्रम)

(A Govt. of India Undertaking)

(कोल इंडिया लि. की एक अनुषंगी)

(A Subsidiary of Coal India Limited)



## Message

It gives me immense pleasure to convey my warm greetings and best wishes on the occasion of the **5th Coal Log India (CLI) Conference & Expo 2025**, being organized on the theme **“Decarbonizing Coal Supply Chain: Challenges and Opportunities”**.

The coal sector continues to remain the backbone of India's energy security, contributing significantly to economic growth and industrial development. At the same time, the global call for sustainability and the need to reduce carbon emissions has placed upon us a responsibility to innovate, adapt, and embrace cleaner and more efficient technologies.

At Eastern Coalfields Limited (ECL), we are committed to aligning with this national vision. Some of the key practices we have adopted include:

- **Sustainability in Operations:** Focus on energy-efficient technologies, progressive mine closure, and afforestation drives to restore ecological balance.
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- **Digital & Smart Mining Practices:** Use of IT-enabled monitoring, GPS-based vehicle tracking, and digital mine planning tools to enhance productivity and reduce wastage

I extend my heartiest congratulations to the organizers for their efforts in bringing together experts and thought leaders from across the globe. I am confident that this initiative will contribute meaningfully to the transformation of India's coal supply chain in line with our national vision of energy security and sustainable growth.

I wish the event grand success and all participants fruitful deliberations.

Warm regards,

Satish Jha  
Chairman-cum-Managing Director  
Eastern Coalfields Limited

पंजीकृत कार्यालय / Regd. Office

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**Uday Anant Kaole**  
Chairman-cum-Managing Director  
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**MCL**

ମହାନଦୀ କୋଲଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍  
महानदी कोलफील्ड्स लिमिटेड  
Mahanadi Coalfields Limited  
(A subsidiary of Coal India Limited)



## Message

It is a matter of great pride and privilege for Mahanadi Coalfields Limited to be part of the 5th Edition of CLI-2025 – International Conference & Expo, organized by the Indian Coal Forum. This prestigious event, being held in Kolkata on 9–10 September 2025, provides an invaluable platform for knowledge exchange and collaboration among key stakeholders in the coal and energy sector.

The theme of this year's conference, *"Decarbonising the Coal Supply Chain: Challenges and Opportunities,"* is indeed very timely. As India progresses towards its climate commitments while sustaining its energy needs, there is an urgent need to rethink, redesign and re-engineer the coal supply chain to make it more efficient, cleaner and sustainable.

At Mahanadi Coalfields, we recognise the critical role that coal will continue to play in India's energy mix for years to come. Simultaneously, we are deeply committed to innovation, sustainability and responsible mining practices. From embracing new-age logistics and digital solutions to reducing our carbon footprint across operations, we are actively contributing to the sector's transformation.

I commend the Indian Coal Forum for organising this important event and for its continued efforts to promote constructive dialogue and policy development for the coal industry. I am confident that the deliberations at CLI-2025 will lead to actionable insights and collaborative efforts that will benefit not just the industry, but the nation at large.

My best wishes for the grand success of CLI-2025.

**(Uday Anant Kaole)**  
Chairman-cum-Managing Director



**हरीश दुहन**

अध्यक्ष-सह-प्रबंध निदेशक

**Harish Duhan**

Chairman-cum-Managing Director

**साऊथ ईस्टर्न कोलफील्ड्स लिमिटेड**

South Eastern Coalfields Limited

मिनी रत्न कम्पनी (कोल इंडिया लिमिटेड की अनुवंगी कम्पनी)

A Mini Ratna Company (A Subsidiary of Coal India Limited)

CIN:U10102CT1985GOI003161



## Message

It gives me great pleasure to learn that the 5th Edition of CLI 2025 – International Conference & Expo on the theme “Decarbonizing Coal Supply Chain: Challenges and Opportunities” is being organized in Kolkata on 9–10 September 2025.

Coal continues to play a vital role in meeting the energy needs of our country, while at the same time, the global emphasis on sustainability and climate action calls for innovative approaches to reduce the carbon footprint of the coal value chain. The theme of this year's conference is quite relevant, as it focuses on exploring pathways for cleaner mining, efficient transportation, advanced technologies, and integrated solutions to achieve a low-carbon future.

At **South Eastern Coalfields Limited (SECL)**, we are committed to align our operations with the national vision of sustainable energy security and reducing the carbon footprint across our operations and supply chain through the adoption of cleaner and more efficient technologies. Initiatives, such as introduction of First Mile Connectivity (FMC), Surface Miners, Highwall Miners, In-pit Crushers, and increasing use of Electric Vehicles (EVs) in transportation contracts are examples of our proactive steps towards greener & eco-friendly mining. We are also integrating renewable, especially Solar in our operation and going for massive plantations to reduce the carbon footprint. Thus, SECL, by adopting latest technologies, automation & digitalization is working proactively towards decarbonization its operations while ensuring reliable coal supply to the nation.

I am confident that CLI 2025 will provide a constructive platform for industry leaders, policymakers, researchers, and technology providers to exchange ideas and develop actionable strategies for a greener coal supply chain and decarbonizing the mining operations.

I extend my warm greetings to the organizers, participants, and exhibitors, and wish the event a grand success.

**(Harish Duhan)**

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# INDIAN COAL FORUM

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**Alok Perti, IAS (Retd)**

**Chairman, ICF**

Former Secretary, Ministry of Coal



## Message

The Indian Coal Forum is organizing the 5th edition of Coal Log India 2025 on 10th of September 2025 once again in the vibrant city of Kolkata, a hub of India's Coal and Logistics landscape. The Indian Coal Forum is proud to host this flagship event in Kolkata, which has served as the conference's home ground and continues to offer a uniquely strategic and intellectual setting for such vital exchanges.

Over the years, Coal Log India (CLI) has grown into a prominent platform that brings together stakeholders from across the entire coal supply chain to deliberate on all connected issues to enable appropriate approaches and policy initiatives required in this journey to attain sustainable energy transition. This year's theme, "Decarbonising Coal Supply Chain: Challenges and Opportunities," addresses one of the most pressing priorities in this effort.

As the world transitions toward cleaner energy pathways, the coal sector must evolve by adopting innovative practices and low-carbon solutions across its entire supply chain—from pre-combustion, combustion and post-combustion stages. In other words—mining and processing to transportation, storage, end use and beyond. The challenge lies not only in reducing emissions but in doing so ensuring availability of affordable energy for economic growth

CLI 2025 seeks to examine these complex trade-offs through the lens of technology, policy, logistics, and investment by bringing together academicians, technologists, industry pioneers, researchers, and government representatives under one roof. This conference aims to foster actionable dialogue and forge meaningful partnerships that can support India's sustainable energy transition.

I extend my sincere gratitude to our partners, sponsors, speakers, and participants whose continued engagement and support have helped shape CLI into a high-impact annual event. I am confident that this edition will contribute valuable insights and inspire concrete steps towards building a greener and more efficient coal ecosystem.

I wish the conference all success.

**Alok Perti**





# INDIAN COAL FORUM

(Registered under Societies Registration Act 1860 - Regd No. S/30956 of 1997)

**Dr. M P Narayanan**

Co-Chairman, ICF

Former Chairman, Coal India Ltd.



## Message

It is a matter of great pride to see CLI complete its fifth edition as a premier platform for industry engagement, innovation, and strategic dialogue in the coal and logistics sectors.

The theme for this year—“Decarbonising Coal Supply Chain: Challenges and Opportunities”—reflects the growing recognition that sustainability must now be an integral part of operational planning and policy formulation. While coal continues to play a vital role in India's energy security, the sector must actively pursue cleaner, more efficient practices to remain aligned with national development goals and global climate commitments.

CLI 2025 offers a unique opportunity to explore how decarbonisation can be achieved without compromising on efficiency, competitiveness, or reliability. From digitalisation to alternative transport modes, from emission controls to stakeholder collaboration—there is vast potential waiting to be tapped.

I commend the Indian Coal Forum and its partners for their dedication to organizing this meaningful conference year after year in Kolkata, and I wish all participants enriching deliberations and fruitful outcomes.

— Dr. M P Narayanan



# INDIAN COAL FORUM

(Registered under Societies Registration Act 1860 - Regd No. S/30956 of 1997)

**S K Chowdhary**

Executive President, ICF

Former Chairman, Coal India Ltd.



## Message

It is with great satisfaction that I extend my warm greetings to all Participants, Speakers, Partners, and Exhibitors attending the 5th edition of CLI 2025 – International Conference & Expo scheduled on 9-10 September at Kolkata.

Over the years, CLI has emerged as a significant platform that brings together key stakeholders to engage in meaningful conversations around Coal logistics, Supply chain efficiency, and Sectorial reforms. This year's theme – “Decarbonising Coal Supply Chain: Challenges and Opportunities” – underscores the importance of rethinking traditional practices and embracing forward-looking solutions.

Reducing the carbon intensity of coal operations is no longer a distant goal; it is an immediate necessity. At the same time, this transition must be just, inclusive, and technically sound. I am confident that CLI 2025 will offer valuable insights, practical strategies, and collaborative frameworks to support this evolution.

The Indian Coal Forum remains committed to fostering such dialogue and building consensus on issues critical to the coal and energy sectors. I thank all those who have made this Event possible and wish the Event great success.

  
**S K Chowdhary**





# INDIAN COAL FORUM

(Registered under Societies Registration Act 1860 - Regd No. S/30956 of 1997)

**N N Gautam**

Secretary General, ICF  
Former Advisor (Projects)  
Ministry of Coal



## Message

It is with great pride and optimism that I welcome all distinguished delegates, industry leaders, government representatives, academicians, and stakeholders to CLI 2025, hosted under the timely and transformative theme: “Decarbonising Coal Supply Chain: Challenges and Opportunities.”

As the world making very urgent moves decisively toward a low-carbon future, the coal sector, a big environment polluter, stands at a defining juncture. The urgency of climate change mitigation action has prompted us to revisit the way we extract, process, transport, and utilize coal – not with the intent of abandonment, but with the goal of promoting innovative technology of coal use. India's energy transition journey must be inclusive, sustaining and pragmatic, recognizing coal's continuing role in meeting the nation's growing energy demands while simultaneously pursuing sustainability and innovation with full vigour.

CLI 2025 offers a much-needed platform to deliberate on this complex but critical balancing act. The focus on decarbonisation across the coal supply chain—from mine to market—is both a challenge and an opportunity. It invites us to explore emerging technologies, green logistics, digital optimisation, emissions control, policy reforms, and collaborative frameworks that can enable a more responsible coal value chain.

At the Indian Coal Forum, we believe that such knowledge-sharing forums are essential to catalyse change, build consensus, and inspire leadership in addressing the pressing issues of our time. It is our firm conviction that this conference will foster meaningful dialogue and yield actionable insights that will guide the coal and allied industries toward a more sustainable future.

I extend my heartfelt thanks to all Partners, Sponsors, Exhibitors, Speakers, and Participants whose commitment and collaboration have made CLI 2025 possible. Let this Event not just be a congregation of ideas – but a catalyst for action creating real-world impact.

**N N Gautam**

## Coal Log India 2025

**Theme : “Decarbonizing Coal Supply Chain: Challenges and Opportunities”**

**September 9-10, 2025 • Kolkata**

### About Coal Industry

#### *The Indian Coal Industry: Evolving for a Low-Carbon Future*

Coal continues to be the backbone of India's energy and industrial landscape, supplying over 70% of the country's electricity and supporting key sectors such as steel, cement, and fertilizers. With domestic coal demand expected to rise from the current ~1 billion tonnes to over 1.5 billion tonnes by 2040, the industry remains vital to India's development. However, this growth must now align with the nation's climate commitments and sustainability goals.

As India advances toward a low-carbon economy, the coal sector is responding with a sharper focus on environmental responsibility. A key area of transformation is the coal supply chain — an often overlooked but significant contributor to carbon emissions. From extraction to end-use, the movement of coal through rail, road, waterways, and ports presents both a challenge and an opportunity for decarbonisation.

In this context, the 5th edition of the CLI 2025 Event, organised by the Indian Coal Forum, is both timely and relevant. By focusing on reducing the carbon footprint of coal logistics, the event highlights the importance of modernising infrastructure, adopting cleaner transport modes, digitalising operations, and enhancing inter-agency coordination.

The Indian coal industry stands at a crossroads — tasked with maintaining energy security while adapting to a greener future. Through innovation, policy support, and stakeholder collaboration, the sector can lead the way in building a more sustainable and efficient coal supply chain — one that balances development needs with environmental stewardship.

### About CLI 2025

#### *CLI 2025: Charting a Sustainable Future for Coal Supply Chain*

As India accelerates its commitment to clean energy under its Nationally Determined Contributions (NDCs), coal remains a foundational pillar of its energy landscape. The country's coal consumption—currently around 1 billion tonnes—is projected to exceed 1.5 billion tonnes by 2040. This dual reality demands an urgent and balanced approach: achieving sustainability without compromising energy security.

Recognizing this imperative, the Indian Coal Forum is proud to present the 5th edition of the CLI Expo & Conference, scheduled for 9–10 September 2025 in Kolkata. Themed “Decarbonising Coal Supply Chains: Challenges and Opportunities,” CLI 2025 marks a strategic shift in how coal's environmental impact is addressed — focusing not on the burning of Coal, but on the critical phase of Coal Logistics.

Unlike conventional deliberations that centre on carbon emissions at the consumption point, CLI 2025 takes a forward-thinking view. It aims to reduce the carbon intensity of coal movement — by



reimagining supply chains, upgrading infrastructure, adopting cleaner transport technologies, and ensuring smarter integration of digital systems across the logistics ecosystem.

The Conference seeks to bring together a broad spectrum of stakeholders:

- Commercial and Captive Coal Miners
- Thermal Power Producers and Industrial Consumers
- Railway and Port Logistics Providers
- Technology Innovators and Sustainability Experts
- Policy-Makers and International Knowledge Partners

Since its inception in 2021, CLI has built a strong legacy of collaboration, insight-sharing, and outcome-driven dialogue. Each year, over 200 sectorial leaders have gathered in Kolkata to explore actionable solutions to challenges facing coal logistics. CLI 2025 builds on this momentum, offering a dedicated platform to align operational efficiency with environmental responsibility.

As India charts its unique path to net-zero, CLI 2025 reinforces that sustainability and coal are not mutually exclusive. Through innovation, strategic partnerships, and systemic reforms, the carbon footprint of coal logistics can be significantly reduced – making the sector more resilient, future-ready, and environmentally responsible.

## About the Organisers



### *Indian Coal Forum (ICF)*

The event is being organized by INDIAN COAL FORUM which is a non-profit, non-Government Organization structured like a premier Think Tank in the country on issues relating to Coal, which was set-up and registered under Societies Registration Act 1860 in 1997 by a Group of Senior Coal Professionals with the objective of highlighting the every-increasing role of Coal in the growth of National economy as the prime source of Commercial Energy in the country and working towards achievement of long range national objectives in all aspects of planning, development, efficient production and utilization of coal including promotion of Environment-friendly clean coal technologies and mine safety.

Towards achievement of these objectives, the Forum has been inter-acting with the Indian Coal Industry both in Public and Private Sectors and with Coal Producers, Coal Consumers and Government Agencies connected with Coal. It has also been organising Seminars, Conferences, Webinars and Workshops from time to time on topical issues concerning Coal.

### *Aims & Objectives of the Forum*

The principal aims and objectives of ICF are as follows:

- To act as 'National Think Tank' of all aspects of Coal Industry.
- To serve as 'Voice' of Coal at National and International forums on issues related to Indian Coal Industry.

- To make suggestions in framing of India's Coal Policy within legal framework and Coal Development Plans.
- To act as facilitator for the Public and Private Sector Coal Companies, Government of India, State Governments and other Agencies for working together for achieving long range objectives in all aspects of Planning, Development, Safety, Efficient Production and Utilization of Coal including promotion of environmental friendly clean coal technologies
- To remain in regular touch with the Coal and Associated Industries, Technical and Research Institutes, Management Development and Statutory Organisations and Trade Unions for exchange of ideas, collection and dissemination of information for mutual benefit and for improvement in the curriculum of educational institutions to match the needs of the Coal Industry.
- To collaborate with national bodies like MGMI, TERI, CIMFR, CII, FICCI, ASSOCHAM etc and International bodies like World Coal Association, World Coal Institute, UNDP, World Bank, Asian Development Bank, UNIDO, World Energy Council, Professional Bodies with similar objectives in all major Coal producing countries and NRIs to help the Indian Coal Industry.
- To further dedication, fellow- feeling and professionalism amongst all people connected with Coal Industry by promoting ethical vision, to inculcate system development with emphasis on value based approach.

#### ***Business Media Links (BML)***



Business Media Links (BML) is a growth-driven company specializing in the conceptualization and execution of high-impact conferences, B2B meetings, and exhibitions. The company is supported by a core team with over three decades of collective experience in the events industry, having worked on more than 100 trade shows across the globe. BML has carved a niche for itself through successful organization of flagship events such as Coal Log India (CLI), Steel Structure Technology Summit (SSTS), Concrete & Construction Technology Summit (CCTS), HSE in Mining, International Conference on Best Mine Closure Practices, National Coal Conclave & Exhibition, among others.

BML also offers comprehensive third-party exhibition and conference management services - from concept development to full-scale execution. With a skilled creative and production team, BML designs and delivers engaging platforms that connect industries, foster innovation, and facilitate meaningful trade between buyers and sellers. Its focus on quality, industry relevance, and audience engagement has positioned BML as a trusted partner in the events and trade promotion ecosystem.



## Programme

|                                          |                                                                                                                                                                                                                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08.30 - 09.30 Hrs                        | : <b>Registration</b>                                                                                                                                                                                                                                                                                  |
| 09.30 - 10.15 Hrs                        | : <b>INAUGURAL SESSION</b>                                                                                                                                                                                                                                                                             |
| <i>Compere &amp; Session Coordinator</i> | : <b>Shri N N Gautam</b> , Secy General - ICF & Former Advisor, Ministry of Coal                                                                                                                                                                                                                       |
| <i>Welcome Speech</i>                    | : <b>Shri Alok Perti</b> , IAS, Chairman - ICF & Former Secretary, Ministry of Coal                                                                                                                                                                                                                    |
| <i>Introduction of Theme</i>             | : <b>Shri N N Gautam</b> , Secy General - ICF & Former Advisor, Ministry of Coal                                                                                                                                                                                                                       |
| <i>Guest of Honour</i>                   | : <b>Shri Debashis Sen</b> , IAS, Former Addl. Chief Secretary, West Bengal & CMD, WBHIDCO                                                                                                                                                                                                             |
| <i>Chief Guest</i>                       | : <b>Shri P M Prasad</b> , Chairman, Coal India Ltd.                                                                                                                                                                                                                                                   |
| <i>Vote of Thanks</i>                    | : <b>Shri M N Jha</b> , Treasurer - ICF & Former CMD, SECL & CMPDI                                                                                                                                                                                                                                     |
| 10.15 - 10.45 Hrs                        | : Tea Break                                                                                                                                                                                                                                                                                            |
| 10.45 -12.15 Hrs                         | : <b>TECHNICAL SESSION - 1</b><br><i>"Green Mining"</i>                                                                                                                                                                                                                                                |
| <i>Chairman</i>                          | : <b>Dr. Pukhraj Nenivel</b> , Controller of Mines (EZ), IBM                                                                                                                                                                                                                                           |
| <i>Co-Chairman</i>                       | : <b>Shri Satish Jha</b> , CMD, Eastern Coalfields Ltd.                                                                                                                                                                                                                                                |
| <i>Session Coordinator</i>               | : <b>Shri S K Grover</b> , Former GM, NTPC Ltd.                                                                                                                                                                                                                                                        |
| <i>Speakers</i>                          | : <ul style="list-style-type: none"> <li>• <b>Shri Achyut Ghatak</b>, Director (T), Coal India Ltd.</li> <li>• <b>Dr. Deepanjan Majumdar</b>, Senior Principal Scientist, NEERI</li> <li>• <b>Prof. A K Mishra</b>, Director, CIMFR</li> <li>• <b>Dr. Lingampally Sai Vinay</b>, Tata Steel</li> </ul> |
| <i>Questions &amp; Answers</i>           |                                                                                                                                                                                                                                                                                                        |
| 12.15 -13.45 Hrs                         | : <b>TECHNICAL SESSION - 2</b><br><i>"Logistics &amp; Transportation"</i>                                                                                                                                                                                                                              |
| <i>Chairman</i>                          | : <b>Shri R P Ritolia</b> , Former CMD, CCL                                                                                                                                                                                                                                                            |
| <i>Co-Chairman</i>                       | : <b>Shri T K Nag</b> , Former CMD, NCL                                                                                                                                                                                                                                                                |
| <i>Session Coordinator</i>               | : <b>Shri Tarun Mishra</b> , CEO - EvotAi Technologies                                                                                                                                                                                                                                                 |
| <i>Speakers</i>                          | : <ul style="list-style-type: none"> <li>• <b>Shri Surojit Samanta</b>, MD, S K Samanta &amp; Co. ( P ) Ltd.</li> <li>• <b>Shri Tushar Chakraborty</b>, Executive Director, Deloitte</li> </ul>                                                                                                        |

- **Shri Tarun K Chattopadhyay**, Head - Fuel & Ash Logistics, Prayagraj Power Generation Co. Ltd.
- **Shri Ajay Kumar**, CGM, DFCCIL

### *Questions & Answers*

#### *Presentation by LINQ HAUL INDIA PRIVATE LIMITED*

13.45 - 14.45 Hrs : Networking Lunch

14.45 -16.15 Hrs : **TECHNICAL SESSION - 3**  
*"User and Facilities for Clean Coal Technologies"*

**Chairman** : **Shri Niladri Roy**, Director (Technical), Eastern Coalfields Ltd.

**Co-Chairman** : **Shri Tarun Sinha**, President, Deepak Fertilisers and Petrochemicals Corporation Ltd.

**Session Coordinator** : **Shri M N Jha**, Treasurer - ICF & Former CMD, CMPDI & SECL

**Speakers** : • **Shri Shivam Srivastava**, Chairman, NTPC Mining Ltd & Director (Fuel), NTPC Ltd.  
 • **Shri Alok Lalit Kumar**, ED (Production) & TS to Chairman, Coal India Ltd.  
 • **Dr. Peeyush Kumar**, MD, BCGCL  
 • **Shri Pankaj Satija**, Executive Incharge, Tata Steel

### *Questions & Answers*

16.15- 16.45 Hrs : Tea Break

16.45 -18.15 Hrs : **PANEL DISCUSSION**

**Chairman** : **Shri Partha S Bhattacharyya**, Chairman, Peerless Group & Former Chairman, Coal India Ltd.

**Session Coordinator** : **Shri P R Mandal**, Former Advisor, Ministry of Coal

**Panellists** : • **Dr. B V Reddy**, Former Director (T), Coal India Ltd.  
 • **Ms Nandini Chakravarty**, Managing Director, Mine Line Pvt. Ltd.  
 • **Shri Shyam Pallav**, Sr. Advisor, Future Coal  
 • **Shri Sanket Singh**, Partner, Grant Thornton Bharat

18.15 -18.30 Hrs : **VALEDICTORY SESSION**

**Chief Guest** : **Shri S Suresh Kumar**, IAS, CMD, Damodar Valley Corporation Ltd.

**Session Coordinator** : **Shri N N Gautam**, Secy General - ICF & Former Advisor, Ministry of Coal

18.30 -18.40 Hrs : **EVENT CLOSING REMARKS & RECOMMENDATION**

19.00 - 20.30 Hrs : Networking Cocktail



## Committees

### NATIONAL ADVISORY COMMITTEE

#### Patrons

**Shri Alok Perti**  
Chairman - ICF &  
Former Secy (Coal)

**Dr. M P Narayanan**  
Co- Chairman, ICF &  
Former Chairman, Coal India Ltd

**Shri S K Chowdhary**  
Exec President - ICF &  
Former Chairman, Coal India Ltd

#### Chairman

**Shri P M Prasad**  
Chairman  
Coal India Ltd

#### Convener

**Shri N N Gautam**  
Secy General, ICF &  
Former Advisor, Ministry of Coal

#### Co-Convener

**Shri Partha S Bhattacharyya**  
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**Shri Anil Kumar Mishra**  
GM  
South Eastern Railways

**Shri Anil K Jha**  
Former Chairman  
Coal India Ltd

**Shri N Balram, IRS**  
CMD  
SCCL

**Shri Gurdeep Singh**  
CMD,  
NTPC Ltd

**Shri M Prasanna Kumar**  
CMD  
NLC India

**Shri Shantanu Roy**  
CMD  
BEML Ltd.

**Shri Amitava Mukherjee**  
CMD  
NMDC Ltd.

**Shri Achyut Ghatak**  
Director (T)  
Coal India Ltd

**Shri Mukesh Choudhary**  
Director (Marketing & BD)  
CIL

**Shri Uday A Kaole**  
CMD  
MCL

**Shri Nilendu Kumar Singh**  
CMD  
CCL

**Shri Samiran Datta**  
CMD  
BCCL

**Shri Satish Jha**  
CMD  
ECL

**Shri Jai Prakash Dwivedi**  
CMD  
WCL

**Shri Harish Duhan**  
CMD  
SECL

**Shri B Sairam**  
CMD  
NCL

**Shri Manoj Kumar**  
CMD  
CMPDI

**Shri Saniv Kumar Singh**  
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Hindustan Copper Ltd.

**Shri Anil Kumar Pandey**  
MD  
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**Shri Satish Pai**  
MD  
Hindalco Ltd

**Shri Sunil Chaturvedi**  
Group Chairman  
Gainwell

**Shri Ashish Bhandari**  
MD & CEO  
Thermax Ltd.

**Shri Vivek Bhatia**  
CEO  
TKIL Industries Ltd.

**Ms Michelle Manook**  
CEO  
Future Coal

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**ORGANISING COMMITTEE****Chairman**

**Shri Alok Perti**  
Chairman - ICF &  
Former Secy (Coal)

**Convener**

**Shri N N Gautam**  
Secy General - ICF &  
Former Advisor, Ministry of Coal

**Co-Convener**

**Shri Alok Lalit Kumar**  
ED (Coordination) &  
TS to Chairman, CIL

**Members**

**Shri Sabyasachi Hajara**  
Former CMD  
The Shipping Corporation of India

**Shri M N Jha**  
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**Shri S K Grover**  
Former GM  
NTPC

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WCL

**Shri P R Mandal**  
Former Advisor  
Ministry of Coal

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MD  
BCGCL

**Shri Bhimsen**  
HOD  
CIL Delhi

**Shri Pankaj Satija**  
Executive In Charge  
Tata Steel

**Shri S Samanta**  
MD  
SKSL

**Ms Nandini Chakravarty**  
MD  
Mine Line

**Shri Avishek Agarwal**  
MD  
Ambey Mining

**Shri Mehar Kuchimanchi**  
Director-Natural Resources,  
Minerals, SGS India

**Shri Amares Kumar**  
President (Mining)  
Dilip Buildcon Ltd.

**Shri Amalesh Maity**  
Head - Strategic Business  
Development, PSU &  
IS, Volvo Trucks

**Ms Ruchika Jha**  
Co-Founder  
WIM India

**Ms Helen Gibson**  
GM  
Komatsu



## Coal Log India 2024 - Retrospect

The Indian Coal Forum is a non-profit technical organization established in 1997 with the core objective of promoting the Indian coal industry through technological innovation and management interventions. Conceived as an independent think tank, the Forum has played a vital role in shaping coal sector policy by organizing a range of impactful activities – including national and international conferences and seminars – that have provided valuable inputs to government and industry stakeholders.

In line with its mission, the Forum launched the “Coal Log India” (CLI) series to address critical issues in coal transportation and supply chain management. The series began with Coal Log India 2021, followed by successful editions in 2022, 2023, and 2024 – all hosted in Kolkata.

The 4th edition, CLI 2024, held on 12–13 September 2024, was a significant milestone. It brought together nearly 200 distinguished coal professionals, along with representatives from coal-consuming industries, trading companies, and other stakeholders across the coal ecosystem. The event featured a rich program structure: an Inaugural Session, followed by three technical sessions and a Panel discussions by domain experts, and concluded with a Valedictory Session. Over two days, CLI 2024 fostered productive dialogue, knowledge sharing, and collaborative thinking on advancing the future of coal logistics in India.

### Few Distinguished Speakers at CLI 2024:

- **Shri P M Prasad**, Chairman, Coal India Ltd. (Chief Guest)
- **Shri Milind Deouskar**, GM, Eastern Railway (Guest of Honour)
- **Shri A K Deb**, Former Chief Secretary, West Bengal ( Chief Guest – Valedictory Session)
- **Ms Michelle Manook**, CEO, FutureCoal
- **Shri Praveen Kumar**, MD, Dedicated Freight Corridor Corporation of India Ltd.
- **Shri Alok Perti**, Former Secretary, Ministry of Coal
- **Shri Partha S Bhattacharyya**, Chairman, Peerless Group & Former Chairman, Coal India Ltd
- **Shri Sabyasachi Hajara**, Former CMD, The Shipping Corporation of India
- **Shri S K Das**, ED (Infrastructure & Logistics), SAIL
- **Late Shri U Kumar**, Former CMD, NCL & SECL
- **Shri M N Jha**, Former CMD, CMPDI & SECL
- **Shri T K Nag**, Former CMD, NCL
- **Shri AK Debnath**, Former CMD, CMPDI
- **Shri N N Gautam**, Former Advisor, Ministry of Coal

- **Shri P R Mandal**, Former Advisor, Ministry of Coal
- **Shri P S Upadhyaya**, Former Director, NMDC Ltd.
- **Shri Ratnesh Rai**, MD, Q & A Testing Laboratories
- **Ms Nandini Chakravarty**, MD, Mine Line Pvt. Ltd.
- **Shri Rajendra Ingale**, Head Coal Mining, Adani Enterprises Ltd.
- **Shri Indranil Roy**, Director, Mining, Materials Handling and Processing, TKIL Industries
- **Shri Sudharsan Prasad**, GM, CMPDI
- **Shri S K Grover**, Former GM, NTPC Ltd.
- **Ms Helen Gibson**, General Manager, Underground Soft Rock, India, Komatsu
- **Shri Amalesh Maity**, Head – Strategic Business & Institutional Sales, Volvo Trucks
- **Shri Kameshwar Rao**, Head Underground Mining Business, Gainwell
- **Shri Udnur Gangadhar**, Head- MSS, Digital & Innovation , SGS India
- **Shri Anil Kumar**, AHS, Inland Water Authority of India
- **Shri Abhinav Sengupta**, Associate Director, PwC

### Major Participants at CLI 2024

Coal India Ltd, Central Coalfields Ltd, CMPDI, Eastern Coalfields Ltd, Mahanadi Coalfields Ltd, Northern Coalfields Ltd, South Eastern Coalfields Ltd, Western Coalfields Ltd, Adani Enterprises Ltd, AKA Logistics, Ambey Mining, Bidaal, Coal Producers Association, Dedicated Freight Corridor Corporation of India Ltd., Deepak Mining Solutions Ltd, Dilip Buildcon, Dodge Industrial India Pvt. Ltd., Eastern Railway, Fleetex Technologies, FutureCoal, Gainwell Commosales, GarudaUAV Soft Solutions, Indian Institute of Metals, Inland Water Authority of India, Jindal Power Ltd, Jindal Steel & Power, Joy Global, Knowteq Equipcare, Komatsu Mining Corp, Mahadhan Agritech, Mine Line Pvt. Ltd., Ministry of Coal, Mitra S.K., NLC India, NMDC Ltd. NTPC Ltd., NTPC Mining Ltd., PwC, Q & A Testing Laboratories, S K Samanta & Co. (P) Ltd., SGS India, Scrum Systems, Smartchem Technologies, TKIL Industries, Volvo Trucks India, Women in Mining India and many more...

The recommendations that emerged from the Conference constitute a challenge for all those concerned with Coal Logistics have been thoroughly prepared and shared with Stake holders and Policy makers. The same has been placed here for the reference.



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Tara (East & West) Coal Mine



Barjora (North) Coal Mine

**The West Bengal Power Development Corporation Limited**

Department of Power, Govt. of West Bengal

[www.wbpdcl.co.in](http://www.wbpdcl.co.in)





## Coal Log India 2024

### *“Coal Supply Chain and Technology (CLI 2024)”*

#### Recommendations

The 4th International Conference and Expo on Coal Supply Chain and Technology (CLI 2024), along with the National Seminar on Health, Safety, and Environment (HSE) in Mining, proved to be pivotal platforms for advancing discourse on modernization, sustainability, and innovation in the coal sector. Based on the key insights shared by industry leaders, policymakers, and technical experts, the following recommendations are proposed:

- **Accelerate Rail-based Infrastructure and First-Mile Connectivity:**

As emphasized by several speakers, especially from Eastern Railway, CIL, and DFCCIL, there is a critical need to invest in rail-based transportation systems. Enhanced first-mile connectivity, rapid loading systems, and silo development must be prioritized to reduce road-based coal movement and improve efficiency. Use of 100 Tonne pay load balance wagons and increased pay load per rake to atleast 10000 tonnes. This would help in adoption of more efficient system.

- **Adopt Digital and Smart Technologies:**

Incorporation of AI, GPS, RFID, and next-generation signalling systems can transform coal logistics. Such innovations should be adopted widely across public and private sector players for better tracking, safety, and cost efficiency.

- **Strengthen Sustainable and Eco-Friendly Practices:**

Green mining practices and technologies like coal gasification, inland water transport, and coal-bed methane technology must be expanded. These reduce carbon footprints and align with global climate responsibilities.

- **Enhance Collaboration Between Stakeholders:**

Effective coal evacuation and project execution require seamless coordination among ministries, railways, coal companies, and environmental authorities. Policy-level interventions should focus on reducing delays caused by communication gaps.

- **Invest in Indigenous Equipment Manufacturing and Maintenance:**

The sector must reduce reliance on imported machinery by developing and maintaining indigenous technologies and spare parts, addressing long-standing maintenance challenges.

- **Promote Knowledge Exchange and Training:**

Platforms like CLI should be institutionalized to ensure regular capacity building, knowledge sharing, and collective goal-setting among stakeholders.

These strategic interventions will catalyze the transformation of India's coal supply chain, ensuring it is resilient, sustainable, and future-ready.

## Glimpse of Last Event – CLI 2024

### Inaugural Session



Lighting of Lamp by Dignitaries



**L to R :** Ms Michelle Manook, CEO, Future Coal;  
Sh. NN Gautam, Secy General – ICF;  
Sh. P M Prasad, Chairman, Coal India Ltd. (Chief Guest);  
Sh. Milind K Deouskar, GM, Eastern Railways (Guest of Honour);  
Sh Alok Perti, Chairman- ICF;  
Late Sh. U. Kumar, Then Exec. President - ICF



Address by Sh. P M Prasad, Chairman, Coal India (Chief Guest)



Address by Sh. Milind K Deouskar, GM, Eastern Railways  
(Guest of Honour)







### TECHNICAL SESSION - 1

**L to R :** Sh. S K Grover, GC Member – ICF;  
 Sh. T K Nag, Former CMD, NCL;  
 Sh. Alok Perti, Chairman, ICF;  
 Sh. Praveen Kumar, MD DFF, CIL;  
 Sh. S K Das, ED, SAIL;  
 Sh. Sudersan Prasad, GM, CMPDI



### TECHNICAL SESSION - 2

**L to R :** Sh. P S Upadhyaya, GC Member-ICF;  
 Sh. Amalesh Maity, Head IS, Volvo Trucks;  
 Sh. M N Jha, Former CMD, CMPDI & SECL;  
 Sh. Sabyasach Hajara, Former CMD, SCL;  
 Sh. Abhinav Sengupta, Associate Director, PwC;  
 Sh. Anil Kumar, AHS, Inland Water Authority of India



### TECHNICAL SESSION - 3

**L to R :** Sh. Udnur Gangadhar, Head - Digital, SGS India;  
 Sh. Indranil Roy, Director, TKIL;  
 Sh. Partha S Bhattacharyya, Former Chairman, CIL;  
 Sh. M N Jha, Former CMD, CMPDI & SECL;  
 Sh. A K Debnath, Former CMD, CMPDI;  
 Ms. Helen Gibson, GM, Komatsu India;  
 Sh. Ratnesh Rai, MD, Q & A Testing Laboratories







## PANEL DISCUSSION

**L to R :** Sh. P R Mandal, Former Advisor (Coal);  
 Sh. Rajendra Ingale, Head - Coal Mining, Adani;  
 Sh. Partha S Bhattacharyya, Former Chairman, CIL;  
 Ms. Nandini Chakravarty, MD, Mine Line;  
 Sh. Kameshwar Rao, Head - Underground Mining  
 Business, Gainwell



## VALEDICTORY SESSION

Address by Sh. A K Deb, IAS  
 Former Chief Secretary, West Bengal  
 (Chief Guest)



## EMINENT DELEGATES





## CLI 2024 Expo







5 DECADES OF UNEARTHING ENERGY



एन सी एल  
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कोयला मंत्रालय  
Ministry of Coal

# FUELING PROGRESS POWERING FUTURE

Milestones in  
FY 2024-25



**COAL  
PRODUCTION  
139 MT**

**Coal  
DESPATCH  
137.70 MT**

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A Miniratna Company  
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## Industry Articles

# What, Why, and How: GREEN MINING

– Dr. Lingampally Sai Vinay

## 1. Green House Gases Emissions

Global GHG emissions from anthropogenic activities have increased by nearly 1.5% annually on average since 1990, and they were 61.8% higher in 2023 than in 1990. In 2023, among the six major economies collectively contributing 62.7% to the global GHG emissions (China, USA, India, EU27, Russia, and Brazil), four showed increases in their emissions (China +5.2%; India +6.1%; Russia +1.9%; Brazil +0.1%) while two showed a decrease (USA -1.4% and EU27 -7.5%). Nevertheless, all major emitters reduced their emission intensity in terms of GHG emissions per unit of GDP, except China, where it remained broadly constant.

India's GHG emissions increased by 6.1% (or 0.24 Gt CO<sub>2</sub>eq) in 2023 compared to 2022. In the last three decades, India's emissions have increased almost continuously and were almost three times higher in 2023 than in 1990 (see Figure 3). In 2023, the shares of CO<sub>2</sub>, CH<sub>4</sub>, F-gases, and N<sub>2</sub>O in total national emissions expressed in CO<sub>2</sub>eq were 71.5%, 20.3%, 1.7% and 6.5%, respectively. The increase in GHG emissions from 1990 in India is mainly due to the increase in CO<sub>2</sub> emissions from the power industry, processes, and transport, which were six and five times higher, respectively, in 2023 compared to 1990. With a share of approximately 7.8% of the total global emissions in 2023.

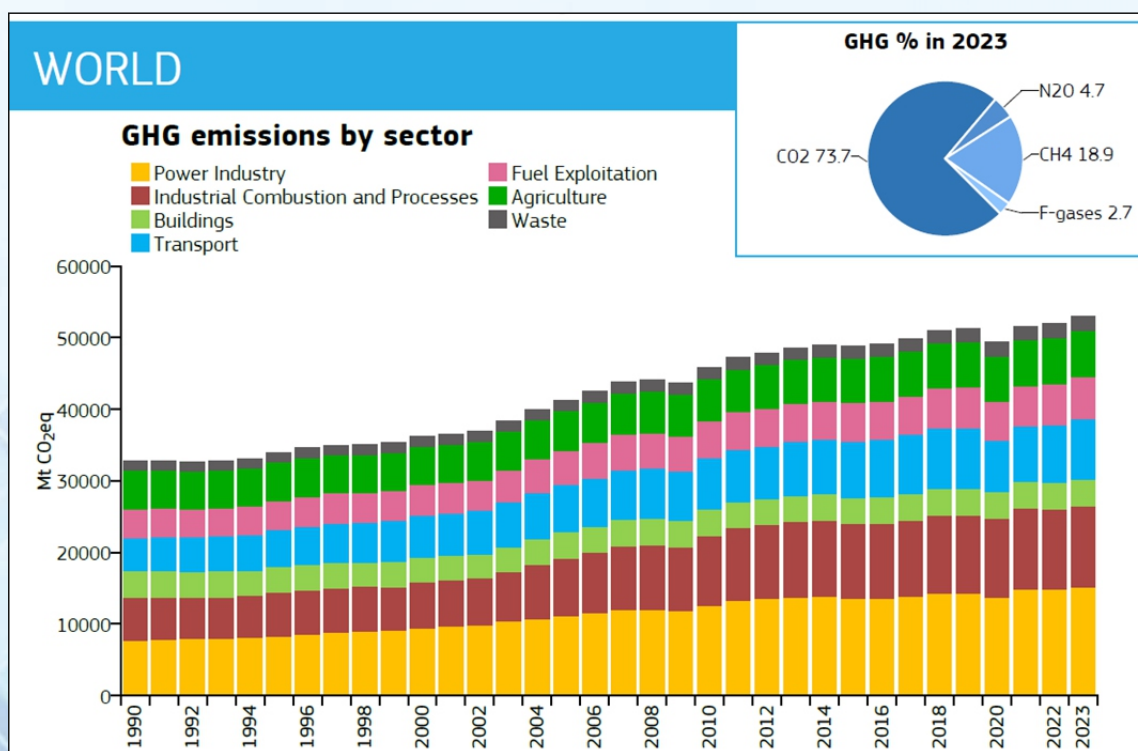


Figure 1 : Global GHG Emissions by sector



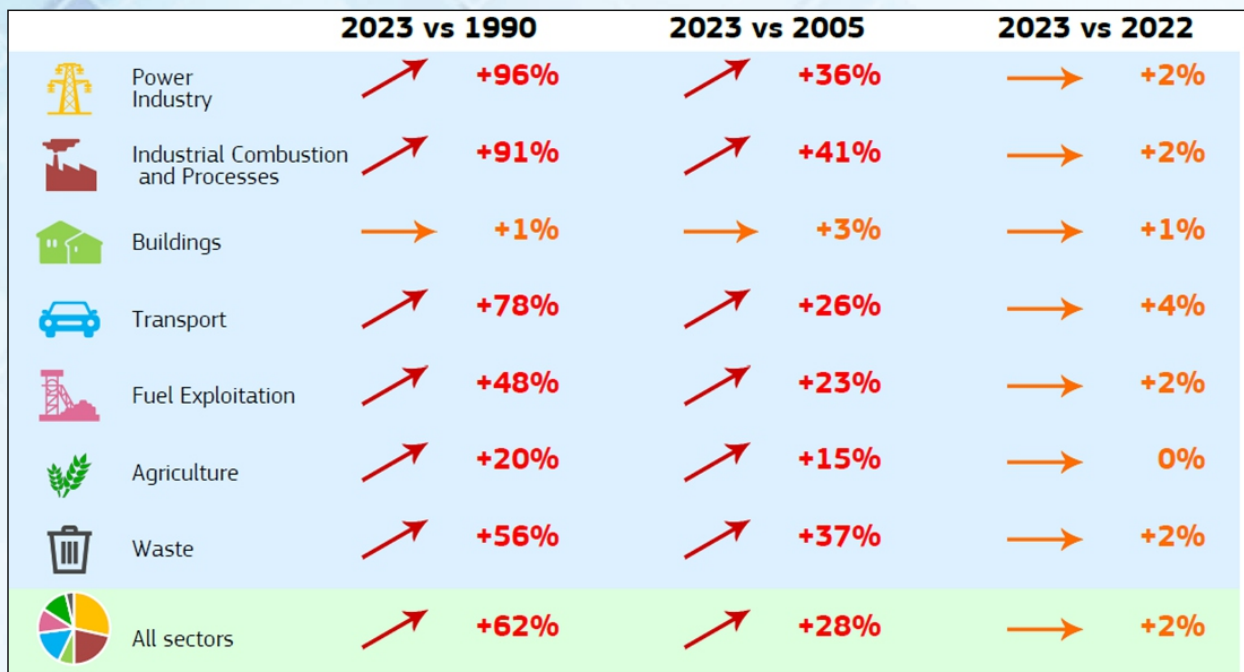


Figure 2 : Growth rate of Global GHG Emissions by sector.

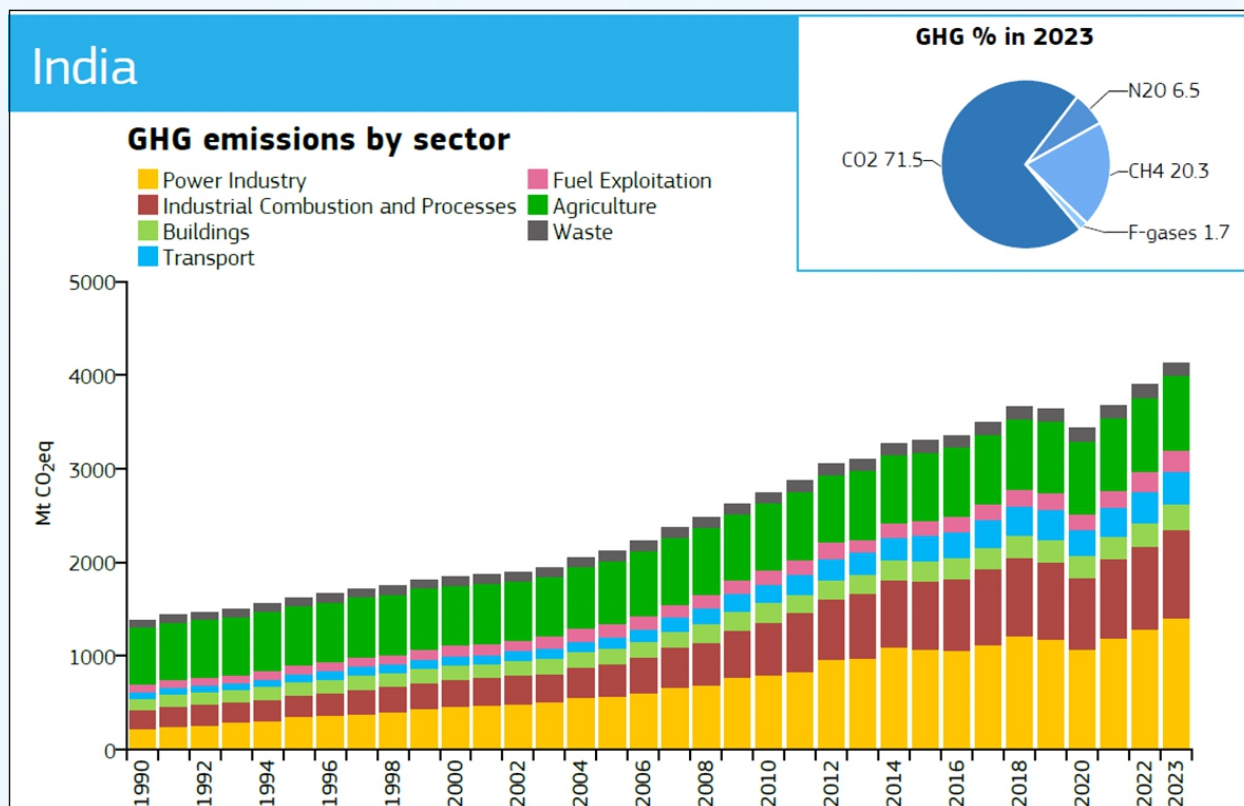


Figure 3 : India GHG Emissions by sector

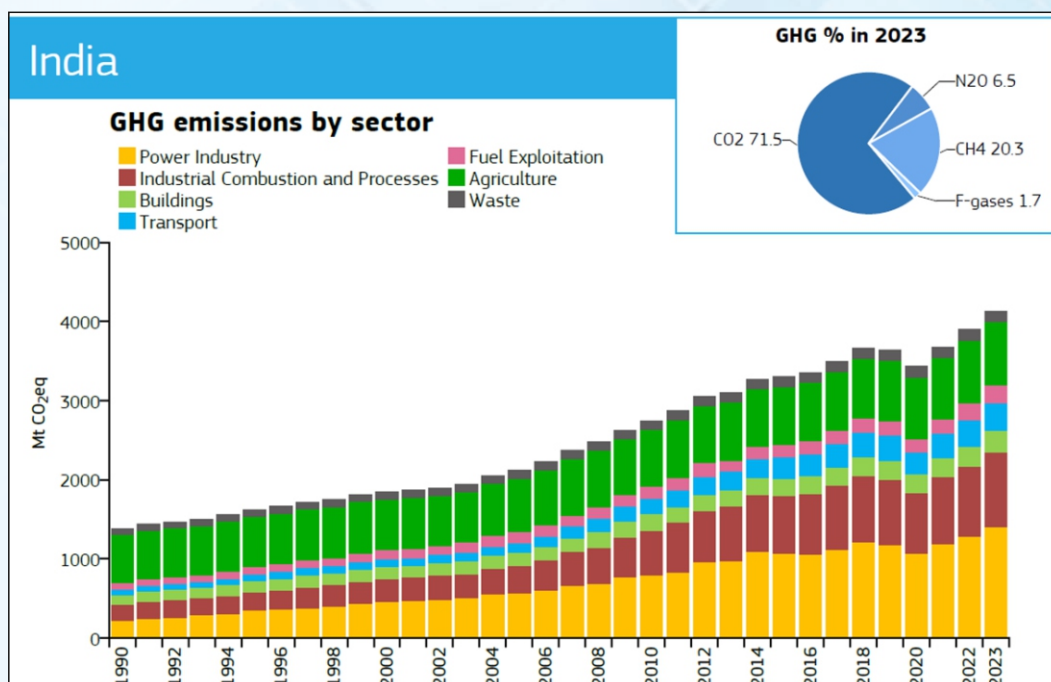


Figure 4 : Growth rate of India GHG Emissions by sector

## 2. IPCC

The Intergovernmental Panel on Climate Change (IPCC) has set a net-zero CO<sub>2</sub> emissions goal by 2050 to limit global warming to 1.5°C. This target is crucial for mitigating the most severe impacts of climate change. Reaching net-zero requires deep reductions in greenhouse gas emissions across all sectors and balancing any remaining emissions with carbon removal.

The global energy transition is facing increasing pressure from various fronts, including climate change, geopolitical instability, and economic shifts. While progress has been made, the pace needs to accelerate to meet the goals of a sustainable, secure, and equitable energy system. Disruptions in energy markets, after the Russia-Ukraine conflict, highlight the need for adaptive and resilient energy systems.

## 3. India's Role in Global Front

- COP21 Paris, India pledged to achieve 40% of its installed electricity capacity from non-fossil fuel sources by 2030; a goal met ahead of time in November 2021.
- COP26 Glasgow, India launched LiFE (Lifestyle for Environment), encouraging sustainable habits and promoting mindful consumption over wasteful use. India also introduced the Panchamrit, five key targets for climate action.

The Government of India has articulated and put across the concerns of developing countries at the 26th session of the Conference of the Parties (COP26) to the United Nations Framework Convention on Climate Change (UNFCCC) held in Glasgow, United Kingdom. Further, India presented the following five nectar elements (Panchamrit) of India's climate action:



- Reach 500GW non-fossil energy capacity by 2030.
- 50 per cent of its energy requirements from renewable energy by 2030.
- Reduction of total projected carbon emissions by one billion tonnes from now to 2030.
- Reduction of the carbon intensity of the economy by 45 per cent by 2030, over 2005 levels.
- Achieving the target of net zero emissions by 2070.
- COP29 Baku (Nov 2024), India showcased its progress in climate adaptation and clean energy through global partnerships. Sessions focused on disaster-resilient infrastructure, industrial decarbonization, solar energy, and women-led climate action, in collaboration with Sweden, CDRI (Coalition for Disaster Resilient Infrastructure), ISA (International Solar Alliance) and NRDC (Natural Resources Defense Council).

### ***Words to Actions***

India has progressively continued decoupling of economic growth from greenhouse gas emissions.

- India's GHG emissions decreased by 7.93 per cent in 2020 with respect to 2019
- India's Forest and Tree Cover, along with other land use, sequestered approximately 522 million tonnes of CO<sub>2</sub>, equivalent to reducing 22% of the country's total carbon dioxide emissions in 2020
- The emission intensity of India's gross domestic product (GDP) has reduced by 36 per cent between 2005 and 2020.
- In June 2025, India has reached a major milestone in its energy transition by achieving the NDC goal of 50% of its installed electric power capacity from non-fossil fuel sources; five years ahead of the committed timeline of 2030.

India made significant strides in renewable energy during FY 2024-25, achieving its highest-ever annual capacity addition. This progress reflects the country's strong commitment to a cleaner, greener future.

### ***India's Clean Energy Progress***

In FY 2024-25, India added a record 29.52 GW of renewable energy capacity, increasing the total installed capacity to 220.10 GW, up from 198.75 GW in FY 2023-24. This marks strong progress toward the 500 GW non-fossil fuel target by 2030.

The installed capacity of solar energy in India has increased by more than 41 times, from 2.82 GW in 2014 to 116.25 GW as of June 2025. Wind energy capacity grew 2.38 times, from 21.04 GW in March 2014 to 50.04 GW in March 2025. The government has set a target of achieving 140 GW of wind power capacity by 2030. Nuclear energy capacity has seen an 84% increase since 2014, rising from 4.78 GW to 8.78 GW in 2025. The government has set an ambitious target of 100 GW nuclear power capacity by 2047. India ranks 7th in the Renewable Energy Country Attractiveness Index. This reflects its growing global leadership in clean energy.

This remarkable achievement highlights the Government's commitments to climate action and sustainable growth to become Viksit Bharat@2047. India's progress is particularly noteworthy on the global stage. Despite having one of the lowest per capita emissions in the world, India stands out as one of the few G20 nations, which are on track to fulfil or even surpass its NDC's goals.

#### 4. Sources of Energy

Energy production in terms of Petajoules (PJ) increased by 9.73% from 19,549 PJ in FY 2022-23 to 21,452 PJ in FY 2023-24(P). This growth indicates a general expansion of energy production across various sources (Table 3.2). The production of primary energy sources in India during last 10 years is shown in below figure:

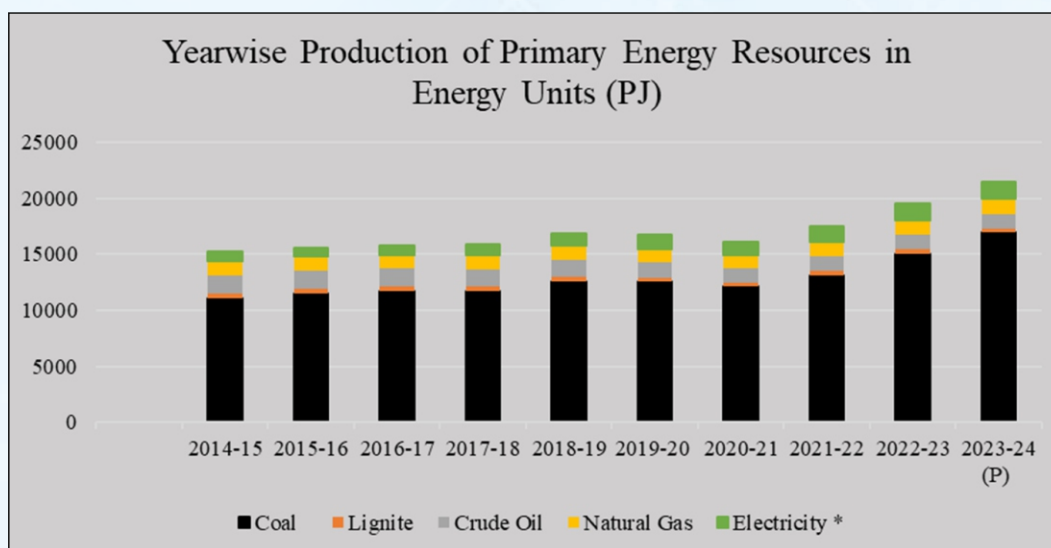


Figure 5 : Yearwise production of primary energy sources in Energy units (PJ)

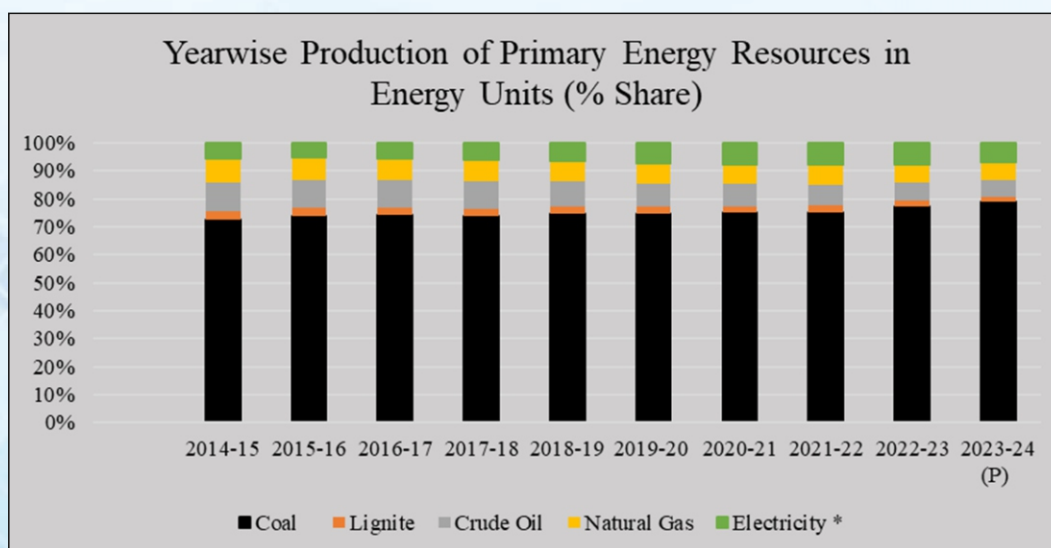


Figure 6 : Yearwise production of primary energy sources in Energy units (%Share)



## 5. Coal

India continues to rely heavily on coal for energy generation. In FY 2023-24(P), coal contributed to about 79% of the total primary energy generation, followed by electricity from hydro, nuclear, and other renewable sources (7%) and natural gas (7%). The share of total energy generated from different commercial sources in India during FY 2023-24 is shown in below figure:

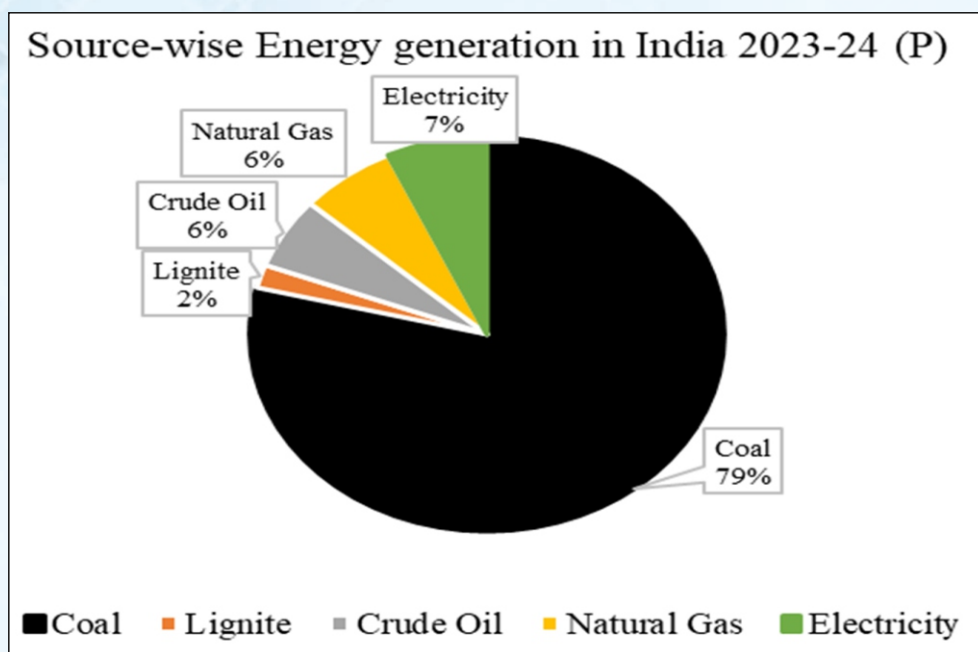


Figure 7 : Source-wise energy generation in India 2023-24 (P)

India is poised to achieve a remarkable milestone in coal production, with expectations set at 1.15 billion tonnes for the financial year 2025-26. In the previous fiscal year (FY25), India's domestic coal output reached a record high of 1,047.6 million tonnes, marking an impressive average annual growth rate of 10% over the last five years. This surge in production can be attributed to a variety of policy reforms designed to enhance the efficiency and self-reliance of coal mining in the country. However, Indian coal has high ash content, causing pollution and low efficiency. India is committed for achieving net zero by 2070, and Clean Coal Technology offers a transitional path until renewable energy becomes more widespread.

## 6. Can we shift

Bhutan, Suriname, Panama, Niue, Madagascar, Guyana, Gabon, Comoros declared as net-zero countries

In India Just Transition requires consistent finance from international and national organizations as well as private investors, enabling a connection between climate action, inclusive growth, and sustainable development. The enactment of Just Transition must be linked to Nationally Determined Contributions (NDCs) and Long-Term Strategies. Knowledge sharing is key, and decision-makers should learn from other countries, sectors, and historical transitions.

## 7. Green Mining

Green mining practices are approaches, technologies, and policies designed to make mineral extraction and processing more sustainable, reducing negative impacts on the environment while improving efficiency and social responsibility. They aim to balance the growing demand for minerals—especially for clean energy technologies—with the urgent need to cut emissions, conserve ecosystems, and protect communities. The contributing factors for green mining is shown in below figure:

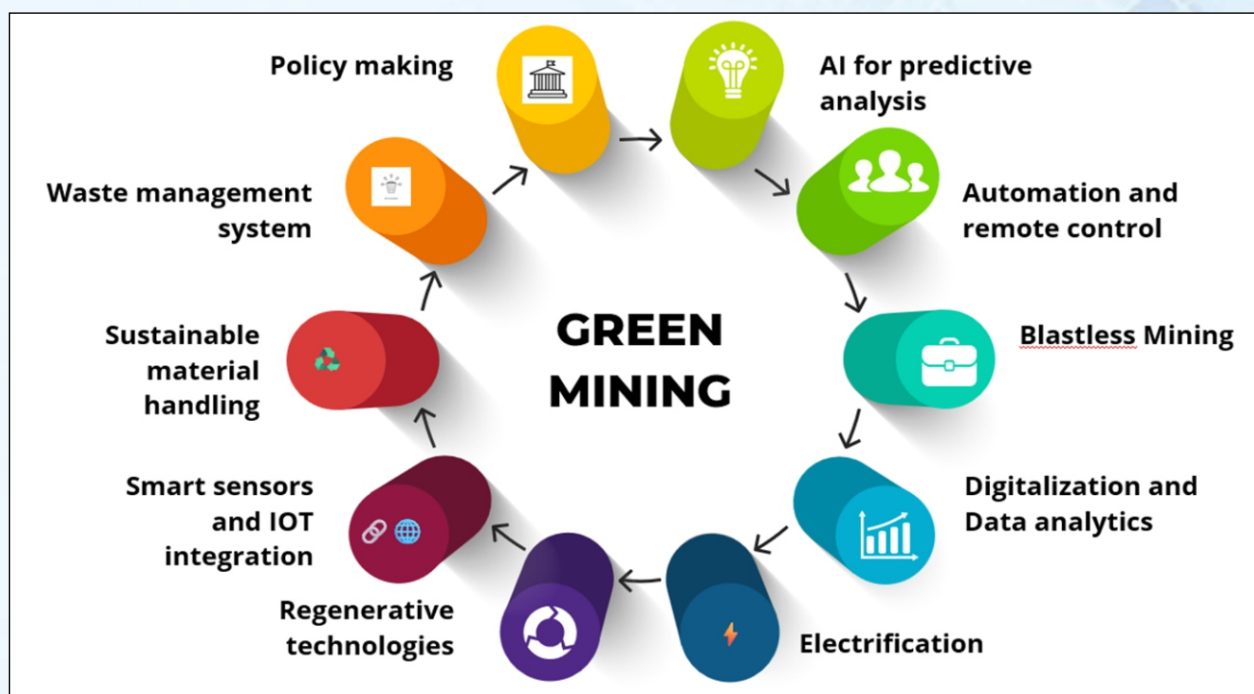


Figure 8 : Green Mining

## 8. Future of coal: India

In India, coal is the dominant source of energy, contributing to around 73% of electricity generation. The energy demand in our country is completely driven by the emerging economy to meet the 56 Energy Cell aspirations of the country. Even though there is immense pressure from the global community to phase out coal, it is practically not feasible for developing countries like India, which highly relies on coal and also has abundant coal reserves compared to other energy resources. Even though the nation is largely dependent on coal for energy security, consistent efforts are also being made to consider mine closure guidelines and just transition activities. In addition to that, the Ministry of Coal is looking forward to the adoption of large-scale commercialization of clean coal technologies to extract coal reserves without affecting the environment on a large scale, compared to regular mining activities.



# Decarbonizing Coal Supply Chains: Challenges and Opportunities

– Grant Thornton Bharat

## Introduction

India stands as the world's second-largest coal producer after China, with production reaching 1 billion tonnes in FY25. Coal continues to be the backbone of India's electricity generation, accounting for nearly 75% of total power output through thermal power plants. Despite the rapid expansion of renewable energy (RE) capacity, coal remains indispensable for meeting the country's growing energy demand and supporting industrial growth.

India's coal production is projected to reach 1.5 billion tonnes by FY30, further intensifying the need for sustainable practices across the coal value chain. A strategic approach to reducing emissions in the coal ecosystem is not only vital for meeting climate goals but also for ensuring a smoother transition to a low-carbon energy future. While coal combustion is a major source of greenhouse gas (GHG) emissions, the environmental impact extends far beyond power generation. Emissions are embedded throughout the coal lifecycle—from extraction and transportation to handling and storage.

The journey of coal begins at the pithead, where it is mined and crushed. It is subsequently transported through first-mile connectivity—typically via roads, conveyor belts, or rail sidings—to long-haul transport systems such as railways, Merry-Go-Round (MGR) systems, or maritime routes. Ultimately, the coal reaches the stockyards of thermal power plants, where it is stored and fed into boilers. Each stage of this supply chain contributes to emissions through diesel consumption, methane release, and quality degradation leading to energy inefficiencies and increased material handling, making decarbonization a multi-dimensional challenge that requires coordinated action across sectors.

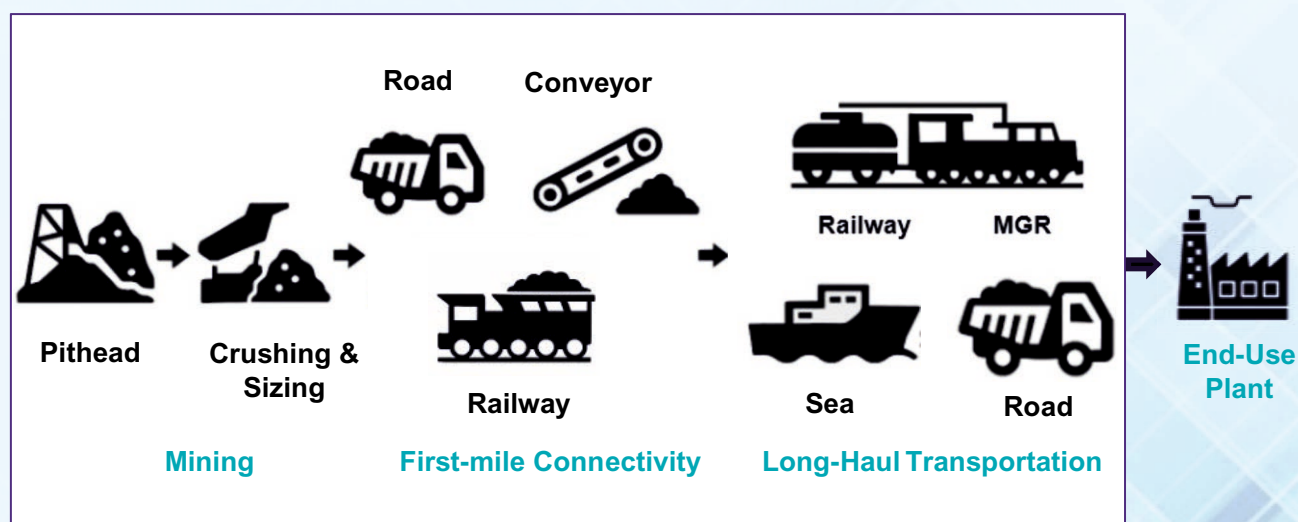


Fig : Representation of Coal Supply Chain

## Decarbonization in Coal supply chain is a priority

In the medium term, India's dependence on coal is expected to persist, given the current pace of renewable energy infrastructure development and the need to maintain grid stability. This makes decarbonizing the coal supply chain a strategic priority. It involves systematically reducing emissions not just at the point of combustion, but across all stages of coal production, handling, and usage.

### *Key emission sources include:*

- Methane emissions from coal seams during mining,
- Diesel consumption in excavation, hauling, and dozing,
- CO<sub>2</sub> emissions from road and rail transport,
- Fugitive dust and energy losses during handling and storage.

The goal is to adopt cleaner technologies, electrify operations, improve operational efficiencies, and optimize logistics to reduce the overall carbon footprint. This approach acknowledges that the coal ecosystem contributes to emissions in multiple ways and requires a holistic strategy to address them. It also calls for a shift in mindset-from viewing coal as a static commodity to treat it as part of a dynamic, emissions-intensive supply chain that must be modernized.

### 1. *Mining activities release methane from coal seams and consume large amounts of diesel and electricity.*

Mining activities release methane-a greenhouse gas over 80 times more potent than CO<sub>2</sub> over a 20-year period-from coal seams and consume large amounts of diesel and electricity. Methane is naturally stored within coal seams and surrounding rock formations. During mining-particularly underground operations, it is released when coal is fractured, exposed to air, or disturbed by drilling and blasting. Ventilation systems, essential for maintaining safe working conditions, also carry methane out of mine and into the atmosphere.

Even surface mining contributes to methane emissions, albeit at lower levels, through the disturbance of shallow coal seams. As coal production continues to grow, methane emissions from mining have become a significant contributor to India's GHG inventory. With coal output projected to reach 1.5 billion tonnes by FY30, methane release and associated emissions are expected to rise unless proactive mitigation measures are adopted.

Decarbonizing mining operations-such as surface mining, drilling, dozing, hauling, and sizing-requires the integration of low-emission technologies, electrification, and methane capture systems. Technologies like ventilation air methane (VAM) oxidation, pre-drainage systems, and methane recovery for energy use can play a transformative role in reducing the environmental footprint of coal extraction. Globally, countries like China and the U.S. have implemented methane capture programs in coal mines, turning waste gas into a source of energy. India can benefit from similar models, adapted to local geological and operational conditions.



2. *Transportation and logistics, especially through diesel-powered trucks and inefficient rail systems, add significant CO<sub>2</sub> emissions.*

In FY25, about 70% of coal dispatched by CIL and SCCL was transported via rail and MGR systems, while 28% moved by road, primarily using diesel-powered trucks. Despite rail being the dominant mode, road transport continues to play a significant role, especially for short distances and last-mile connectivity.

Compared to FY20, the share of road transport has not declined substantially, indicating the need for a stronger modal shift to meet decarbonization goals. According to the TERI Freight GHG Calculator, diesel HDVs emit approximately 0.04 kg CO<sub>2</sub> per tonne-km, while rail freight-factoring in both diesel and electric traction-emits only 0.009 kg CO<sub>2</sub> per tonne-km.

For short distances, transitioning to EVs and FCEVs offers a cleaner alternative to diesel trucks. For sustainable reduction of emissions, increasing the share of electric rail, expanding MGR systems, and transitioning more coal movement to rail and coastal shipping is imperative. Supporting this shift, a 2024 ICCT study found that battery electric vehicles (BEVs) used in heavy-duty applications in India can reduce life cycle GHG emissions by 17-29% when powered by grid electricity, and up to 78-83% when powered by renewable energy-making them a compelling solution for low-emission freight transport.

India can also draw lessons from countries like Germany and Japan, which have invested heavily in electrified freight corridors and hydrogen-powered locomotives. These innovations not only reduce emissions but also improve logistics efficiency and reduce dependence on imported fuels.

3. *Handling and storage of coal can lead to fugitive dust and energy losses.*

Coal handling and storage at industrial sites continue to pose serious environmental and operational challenges. Primary among them is the release of fine particulate matter (PM<sub>2.5</sub> and PM<sub>10</sub>) from open stockpiles and transfer points, which endangers worker health and nearby communities. Frequent rehandling of coal not only worsens dust emissions but also increases energy use and equipment wear.

To combat these issues, industries are adopting enclosed systems, directional sprays, and advanced dust suppression technologies like dry-fogging, which effectively control dust without compromising coal quality. Meanwhile, prolonged exposure to air and moisture during storage leads to oxidation, reducing coal's calorific value and increasing the risk of spontaneous combustion.

These inefficiencies also contribute to a larger carbon footprint, driven by diesel-powered equipment and energy losses. In response, companies are exploring sustainable practices such as just-in-time coal procurement, fleet electrification, and integration of waste-heat recovery and water recycling systems.

As the industry moves toward net-zero goals, coal handling is becoming a critical area for innovation-blending operational efficiency with environmental responsibility. Planning the supply chain reduces the rehandling of coal and avoids loss of energy. This would require. Implementing industry leading practices around Dust suppression systems at loading, transfer & unloading points, systematic Heap management is paramount for avoid such preventable losses.

4. *Infrastructure inefficiencies and lack of real-time monitoring further compound the environmental impact.*

Infrastructure inefficiencies and the lack of real-time monitoring systems further compound the environmental impact of coal logistics. Decarbonizing the coal supply chain means adopting cleaner technologies for mining, electrifying operations, optimizing logistics, and integrating digital tools to monitor and reduce emissions.

*Globally, countries are leading by example:*

- In the USA, logistics firm IntelliTrans uses real-time tracking and predictive analytics to optimize coal freight, reportedly reducing emissions by up to 160 pounds of CO<sub>2</sub> per shipment.
- Chile is powering its mining sector with renewables-44% in 2021, expected to reach 62% by 2025- and has set mining-specific emissions reduction targets.
- Indonesia is advancing post-mine reclamation and hardware upgrades as part of its climate commitments, signaling a shift toward low-emission mining practices.
- South Africa is investing in electrified mining equipment, smart monitoring systems, and has introduced a carbon tax and green finance taxonomy to support sustainable mining.

These examples show that digitalization and electrification are not optional; they are essential for building a cleaner, more efficient coal supply chain. India must accelerate the deployment of smart sensors, emissions dashboards, and AI-based logistics platforms to enable data-driven decision-making.

### **Key Challenges in Decarbonizing the Coal Supply Chain**

Decarbonizing India's coal supply chain presents a complex set of challenges.

1. High upfront investment in green technologies, such as EVs and renewable infrastructure, remains a barrier - particularly for smaller mines with limited access to capital.
2. Integrating new technologies into legacy systems is further constrained by skill gaps and operational inertia. Many coal-rich regions still rely on diesel due to inadequate renewable energy access, complicating the energy transition.
3. Regulatory compliances such as Environmental Impact Assessments (EIA), Forest & Wildlife Clearances & Fly Ash Utilization rules are tedious, with evolving environmental norms across states. Moreover, the lack of centralized digital tracking systems makes it difficult to ensure traceability, transparency, and sustainability across the supply chain. This fragmentation not only increases compliance costs but also hampers coordinated decarbonization efforts, such as electrification of logistics or methane capture at scale.
4. Additionally, lifecycle assessments, mine closure planning, and industry-wide collaboration remain underdeveloped, requiring stronger institutional support and policy alignment.

Decarbonizing the coal supply chain needs targeted interventions from both government and industry.



## Recent Initiatives and Strategic Targets for Decarbonization

The Ministry of Coal has initiated several targeted measures to reduce emissions across the coal supply chain.

1. To ease congestion and lower emissions, it has promoted the Rail-Sea-Rail (RSR) mode of transportation, resulting in coal movement via RSR increasing from 28 million tonnes in FY22 to 54 million tonnes in FY24.
2. Aiming to raise the modal share of rail in coal transportation to 75% by FY30, the ministry has identified 38 priority rail projects for fast-tracking in coordination with the Ministry of Railways.
3. Additionally, updated mine plan guidelines mandate that coal blocks with a Peak Rated Capacity (PRC) exceeding 2 million tonnes per annum must evacuate coal using conveyor belts, rail sidings, or other environment-friendly modes-excluding road-for distances up to 25 km.

On the industry front, Adani Enterprises has deployed India's first hydrogen fuel cell truck to transport coal from the Gare Palma III mine in Chhattisgarh, capable of carrying up to 40 tonnes over a 200 km range.

## Pathways for the Future

Over the next decade, India must focus on:

- Electrifying mining operations and equipment,
- Expanding rail and sea transport infrastructure,
- Deploying EVs and hydrogen-powered vehicles,
- Integrating digital tools for emissions monitoring and logistics optimization.

To effectively decarbonize the coal supply chain, India should prioritize the adoption of cleaner technologies across mining and logistics. This includes transitioning to Belt conveyors, Battery Electric Vehicles (BEVs) and Fuel Cell Electric Vehicles (FCEVs) for short-haul coal transport, expanding electrified rail networks, and promoting Rail-Sea-Rail (RSR) as a low-emission alternative for long-distance movement. These interventions, especially when powered by RE, can significantly reduce lifecycle emissions and form a critical part of India's sustainable coal strategy.

On the other hand, private players must invest in clean technologies like EVs and hydrogen fuel cell vehicles, digitize operations for emissions tracking, and adopt renewable energy at mine sites. These steps not only reduce emissions but also lower long-term costs, improve resilience against fuel price volatility, and enhance access to green finance and ESG-conscious investors. Collaboration and transparent reporting will be essential to scale sustainable practices across the coal ecosystem.



**5 DECADES OF UNEARTHING ENERGY**



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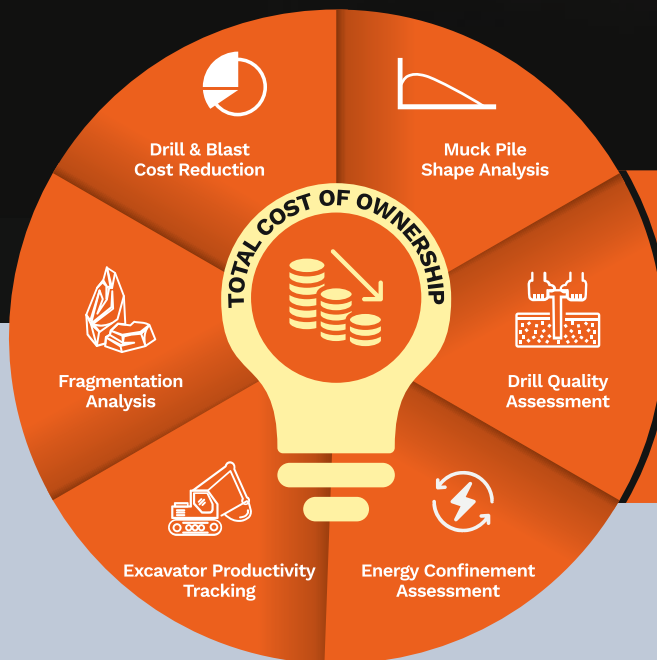




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## Speakers Profile

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### **Shri P M Prasad**

*Chairman*

*Coal India Limited*

Shri P M Prasad took charge as Chairman as Coal India Ltd. on 1st July 2023. Prior to assuming charge as Chairman of CIL, Shri Prasad was serving as CMD in Central Coalfields Limited. He is a mining engineer from Osmania University. He did M. Tech in 'Open-Cast Mining' from Indian School of Mines (IIT-ISM), Dhanbad. He also has a degree in law from Nagpur University.

Shri Prasad began his career as an executive trainee with Western Coalfields Limited (WCL), a subsidiary of Coal India Limited (CIL) in 1984. In 1994-95, he was instrumental in reopening of DRC mine, WCL which was affected by underground fire. For this remarkable job, he was given the 'Best Mines Manager' award by Secretary Coal, Ministry of Coal and Chairman, Coal India Ltd.

As General Manager in MCL, he was responsible for successful opening and operations of 'Kaniha Opencast Project' in 2010. In May 2015 he joined NTPC as Executive Director (Coal Mining) and In March 2016, he took charge as Executive Director cum Head of Project, Pakri Barwadih. His tenure saw the commissioning of Greenfield project of Pakri Barwadih OC (20 MTY).

In February, 2018 he joined Northern Coalfields Limited (NCL) as Director Technical (P&P) where he was responsible for the operations of five areas of the company along with key departments like Corporate Planning, Civil Engineering, Railway Siding, Environment & Forest, etc. Under his leadership, NCL was awarded at the World Environmental Conference in June 2018 for outstanding work in environment conservation.

He became CMD, Bharat Coking Coal Limited (BCCL) in August 2019. Under very challenging conditions, he led from the front with commitment, vigor and dedication.

Shri Prasad is renowned for his interpersonal skills and is a firm believer in teamwork. Under his guidance Coal India is destined to attain new milestones and scale new heights.





### **Shri Debashis Sen, IAS (Retd.)**

*Former Addl. Chief Secretary, West Bengal & Former CMD, WBHIDCO*

Shri Debasish Sen is a public servant, a civil servant, an IAS officer. He understands governance and cities. He believes in innovation-on-the-go. He can communicate with stakeholders, trying to empathize with their pains and aspirations. He is tech savvy and is focused on bringing the digital wave to the street.

He has been a leader in transforming a vacant green-field land mass into a Smart Green City. For over a decade, he has been, the CEO (MD/CMD) of a public undertaking that is focused on developing a 7,000 acre satellite township of Kolkata. Every day, he has been injecting innovative interventions in the realm of e-Governance, stakeholder consultation, Senior Citizen care, inclusive growth, sustainable development, use of Blockchain technology for issue of Birth and Death Certificates, use of Artificial Intelligence for road monitoring, Cloud based IoT tech for controlling street lights and many more.

With over 35 years of experience in the Indian Administrative Service, Shri Sen is a seasoned administrator with expertise and experience across diverse fields including, smart city, public finance, e-Governance, G2B/G2C service delivery, public infrastructure, ease of doing business, electoral reforms, sustainable development, startup ecosystem, investment facilitation and more. He has held senior administrative posts ranging from Addl. Chief Secretary, Chief Electoral Officer, Chairmanships of multiple development authorities among others. He has been the driving force behind some landmark initiatives of the Government of West Bengal in the Urban Development and IT sectors. He has been trained at the Harvard University (Conflict Negotiation) and IMF Institute (Public Finance).



### **Shri Alok Perti, IAS (Retd.)**

*Chairman - ICF & Former Secretary (Coal)*

Shri Alok Perti is Former Secretary, Ministry of Coal, Govt. of India. He is an IAS of 1977 batch (Assam-Meghalaya cadre), and has worked in the Ministry of Coal, Health and Welfare, Ministry of Defence etc at centre as well various departments in Govt. of Assam.

He was on the board of several Defence PSUs as official director when he worked as Joint Secretary in Ministry of Defence. He was also official director on the board of Coal India Ltd. and NLC when he was serving in the Ministry of Coal. He has also been a non-official part time Independent Director on the Board of Coal India Limited and various other companies,

Shri Perti holds a bachelor's degree in science and a master's degree in physics from the University of Allahabad and also completed a master's course in Social Planning and Policy in Developing Countries from the London School of Economics, UK. He was also a member secretary to the Kelkar Committee set up by the Ministry of Defence to suggest modifications to defence acquisitions, WHO consultant for conducting study and validation of National Immunization Programme in Bhutan and also served as a consultant to UNICEF to develop a material management systems for supply in Myanmar.



### **Shri N N Gautam**

*Secy General-ICF & Former Advisor, Ministry of Coal*

- Graduated BSc. (Hons.), Mining from Indian School of Mines, Dhanbad in 1962.
- Worked 30 years in Bengal Coal Co., a British company & Coal India Ltd. in deep underground mechanized mines and large mechanized open cast mines.
- Worked as Director (Technical)/ Advisor (Projects) in Ministry of Coal, Government of India.
- Worked as Advisor UNDP/GEF-GoI “CBM Recovery and Commercial Utilisation Project” costing 100 crs. CBM from Vertical wells at Moonidih mine of BCCL was recovered and 1 MW power was generated.
- Past Positions held: Vice President, Mining Metallurgical Geological Institute (MGMI); Past President, MGMI - Delhi Chapter; Advisor, ACB (India) Ltd.
- Currently Advisor, JSPL; Chairman, Coal Group of India Energy Forum - an NGO of Energy Experts; Secretary General, Indian Coal Forum - an NGO of Coal Experts; Secretary General, IIT (ISM) Alumni Association - Delhi Chapter; Secretary General, Coal Producers Association; Special Secretary (Events), MGMI-DC.
- Distinguished Alumnus Award from Indian School of Mines Dhanbad.
- Life Time Achievement Award of Energy and Environment Foundation.
- Presented over 50 technical papers in International & National Journals and seminars.



### **Shri M. N. Jha**

*Treasurer - ICF & Former CMD, SECL & CMPDI*

Shri M. N. Jha is a Mining Engineer having secured degree from prestigious Indian School of Mines, Dhanbad in the year 1967 and since then has acquired 58 years of experience in various mining activities. He has covered most of the coalfields in India starting from Assam in North East to M.P. / Maharashtra in the West and has the privilege of working both in large opencast and underground mines. While in North Eastern Coalfields in Assam, special methods of coal extraction were developed in collaboration with experts from the then USSR. On the other hand a special technology namely “Inpit crushing and conveying” was evolved with the aid and assistance from Australian Experts. This resulted in developing an opencast mine with output of 7.0 mtpa in nineties and highest every productivity in India of 31 tonnes. He had been appointed as CMD in 2002 of SECL and later CMD of Central Mine Planning and Design Institute Ltd, Ranchi considered being the think tank of Coal Industry in India.

Post retirement he joined Jaiprakash Associates Limited (JAL) as Advisor (Mines) in the year 2005 and since then has been supervising Selection, allotment, planning and successful and timely commencement of coal production from various coal mines. JPVL, a subsidiary of JAL secured Amelia (N) Coal mine through auction and this mine has been achieving PRC of 3.92 mt. continuously.

He is member of various professional bodies like MGMI, IMMA, ICF, IEF and others. He has published and presented many papers in various seminars and magazines.





### **Dr. Pukhraj Nenival**

*Controller of Mines (EZ), IBM*

Dr. Pukhraj Nenival is a highly accomplished mining professional with over 30 years of diverse experience in both coal and metal mining sectors. A Mining Engineering graduate from MBM Engineering College, Jodhpur (1993), he holds a PhD in Mining Engineering (2025), MBA in Human Resource Management, and diplomas in Environment Law and Industrial Relations. He also holds certifications in Quantum Computing.

Dr. Nenival has served in key roles at SCCL, CCL, WCL, and RSMML, before joining the Indian Bureau of Mines in 2012. He has worked across various regions and divisions, and currently serves as Controller of Mines, East Zone, at IBM Kolkata. A holder of First Class Manager's Certificates under both MMR and CMR, he has successfully prepared and obtained approval for 81 mining plans. He has also represented India internationally on mine closure and rehabilitation. Dr. Nenival is a member of several prestigious professional bodies and is widely respected for his contributions to the mining sector.



### **Shri Satish Jha**

*CMD, Eastern Coalfields Ltd.*

Shri Satish Jha assumed charge as Chairman-cum-Managing Director of Eastern Coalfields Limited (ECL) on 19th December 2024. With over 30 years of experience in large-scale mechanized underground and opencast mining, he has held leadership roles in CMPDIL, CCL, NCL, and SECL. A B.E. (Mining) from Nagpur University and M.Tech in Industrial Engineering & Management from ISM Dhanbad, he is a Certified Project Manager and currently pursuing Ph.D. in Mine Planning from IIT BHU.

Shri Jha has led key projects in digital transformation, sustainability, and mine expansion across subsidiaries. He represented India internationally in Japan, Australia, and South Africa on clean coal and energy security. Known for pioneering initiatives like OB-to-M-Sand, in-pit crushing systems, and drone-based monitoring, he has earned accolades such as “Best General Manager/HoD” (2019) and “SECL Samman” (2003).

A forward-thinking leader, Shri Jha blends innovation, environmental responsibility, and operational efficiency in India's coal mining sector.

**Shri Achyut Ghatak***Director (T), Coal India Ltd.*

Shri Achyut Ghatak, Director (Technical) at Coal India Limited, brings over 30 years of rich experience in the coal mining sector. A mining engineer by qualification, he has held key roles across Coal India subsidiaries, with notable contributions in mine planning, design, and operational efficiency. During his tenure at CMPDI, he led several high-impact projects focused on environmental management and mine optimization.

Shri Ghatak has been instrumental in integrating advanced technologies like remote sensing and geospatial tools into mining operations, promoting sustainable and precise resource extraction. He has represented India's coal sector at international forums in Australia, Poland, and the USA.

Beyond technical leadership, he plays an active role in strategic planning and policy formulation, working with government bodies and industry experts to shape responsible mining practices that balance energy needs with environmental concerns. His visionary approach continues to drive innovation, safety, and sustainability across India's coal industry.

**Dr. Deepanjan Majumdar***Senior Principal Scientist, NEERI*

Dr. Deepanjan Majumdar is a Doctorate in Environmental Science and is presently working as Senior Principal Scientist and the Chair at the Kolkata Centre of CSIR-National Environmental Engineering Research Institute (CSIR-NEERI). He has 25 years of research experience in Environmental Science and Technology. He has worked on various aspects of environmental science and technology in his career but his main areas of expertise are Air Pollution and Water Quality. He has worked as Principal Investigator in more than 25 projects on air pollution, air quality management, source apportionment, environmental carrying capacity, environmental audit, river water quality, carbon sequestration by vegetation etc. He has More than 70 research publications and two patents in his name.



**Prof. A K Mishra***Director, CIMFR*

Prof. Arvind Kumar Mishra is an eminent mining engineer and academic leader with over 30 years of diverse experience across academia, research, industry, and administration. He currently serves as Director, CSIR-CIMFR, Dhanbad, and Professor (HAG) at the Department of Mining Engineering, IIT (ISM), Dhanbad.

An alumnus of NIT Raipur and IIT (ISM), he specializes in opencast and underground mining, blasting, geomechanics, and AI-based mining automation. He has held key roles in Coal India Ltd. and Orica Mining Services, Australia, and has led major infrastructure projects for BRO, DRDO, and MEA.

With over 200 research publications and 30 PhD scholars guided or under supervision, he has played a pivotal role in placing IIT (ISM)'s Mining Department among the world's top 30 in QS rankings. His honours include the National Geoscience Award (2016) and Baldota Gold Medal (2012). He contributes actively to national mining policies and represents India internationally in mining and fuel research.

**Dr. Lingampally Sai Vinay***Tata Steel*

Dr. Lingampally Sai Vinay, currently working as a Researcher at Tata Steel. Previously worked as a Mining Expert at Ministry of Coal (MoC), Government of India. He completed Doctor of Philosophy (Ph.D.) in Mining Engineering from the Indian Institute of Technology (Indian School of Mines), Dhanbad, India. His PhD Thesis was nominated from India by the Indian National Group of ISRM for the ISRM Rocha Medal 2025. He serves as a reviewer for nine international journals, including those published by Elsevier, Springer, and Frontiers, as well as other reputable publishers. He is a member of various mining societies like IACC, CPPA, ISRM, IEI, MGMI, MEAI, SAIMM, ISRM-TT, ARMA, SME, IEF, and ICF. He is also a Coordinator of the ISRM India's Youth Researchers' Forum 2025.

He received Speaker's Award 17th Mining Forum, June 06-07, 2024, at Berlin, Germany, Mining Engineers' Association of India (MEAI)-SRG Information Technology Award 2023-2024, and Mining Engineers' Association of India (MEAI)' Special Award for "Student Membership Award" 2022-2023.

**Shri R. P. Ritolia***Former CMD, CCL*

Shri R P Ritolia, Advisor, India Power Corporation Ltd. is Former Chairman-cum-Managing Director of Central Coalfields Ltd and Former Advisor (Coal) to MD Tata Steel Ltd. An alumnus of IIT(ISM), Dhanbad, Sri Ritolia has had almost 50 years of experience in the coal mining industry in various capacities. In addition to being CMD, CCL, he has been the Director of Coal India Ltd. and Chairman of Coal Videsh Ltd.

Shri Ritolia is considered to be a result oriented executive and he has the credit of converting Central Coalfields Ltd from BIFR to a Mini Ratna status company by registering more than Rs. 1000 crores profit consecutively for three years.

Shri Ritolia has travelled extensively and acquired experience in the state of the art Mining Technology in various countries such as USA, UK, Australia, Germany, China etc. He has contributed a number of technical papers in various national and international forums and is the recipient of a number of awards including the most prestigious Dewan Bahadur DD Thacker Gold Medal Award for outstanding contribution in the coal mining industry.

He has been associated with a number of professional and technical institutes and is a Past President of Mining, Geological and Metallurgical Institute of India.

**Shri T.K. Nag***Former CMD, NCL*

Shri T. K. Nag is a seasoned mining professional with over 38 years of distinguished service in Coal India Ltd. (CIL). A graduate from the Indian School of Mines (ISM), Dhanbad, he has extensive experience in managing both underground and large opencast mines. Rising through the ranks, he served as Director (Technical), Central Coalfields Ltd. (2008–2014), where production touched a record 48.10 MT in 2012–13. In 2014, he assumed charge as Chairman-cum-Managing Director of Northern Coalfields Ltd. (NCL), Singrauli, leading the company to new operational benchmarks.

Post superannuation in 2017, Shri Nag contributed as Advisor (Mining) to WBPDCCL (2017–2020) and continues to serve the sector as Chairman, High-Level Expert Committee on Safety in Coal Mines (Ministry of Coal, GoI), Expert Member (Mining) in CCIE, Ministry of Power, and Independent Director in industry. Widely published, he has received several awards, including the Eminent Engineers Award (2012) and the e-India Award (2013).



**Shri Surojit Samanta***MD, S K Samanta & Co. (P) Ltd.*

Shri Surojit Samanta is the Managing Director of S.K. Samanta & Co. (P) Ltd. (SKSL), a leading EPC infrastructural engineering company with operations across India and a clientele including NCL, SECL, BCCL, MCL, ECL, SAIL, DVC, and HEC.

A graduate of Manipal Institute of Technology, he began his career as an Architect with M/s Stein, Doshi & Bhalla in New Delhi before joining his family business. Since becoming MD in 2006, he has overseen SKSL's exponential growth—from a turnover of ₹10 crores to over ₹500 crores—and led the establishment of a 1.5 lakh MT steel plant in Chhattisgarh.

Shri Samanta has held leadership roles in BAI, ASSOCHAM, and the Indo-American Chamber of Commerce, and is affiliated with CII, FICCI, ICC and the Council of Architecture. A global traveller and member of elite institutions like The Calcutta Club and The Delhi Flying Club, he is known for his vision, leadership, and entrepreneurial drive.

**Shri Tushar Chakraborty***Executive Director, Deloitte*

Shri Tushar Chakraborty is an Executive Director with Deloitte India, having more than 20 years of mining & metals sector experience in strategy & operations and business consulting. Prior to joining Deloitte, he has worked at Hindustan Zinc, DMT Consulting & KPMG. He has led 60+ consulting engagements for governments &

leading private-sector companies. His experience includes strategic market study, due diligence studies, techno-commercial feasibility assessment, bid process management, project planning and monitoring, safety auditing, transaction advisory, MDO-related advisory, underground & opencast mining operational excellence, digital transformations, etc. for Indian and overseas clients. He has served various global clients in Australia, Africa, Middle East and Southeast Asian countries. He has been associated with various thought leadership publications at national and international conferences. He is a Mining Engineer with a First Class mine manager's certificate and a Postgraduate in Business Management from XLRI Jamshedpur.

In recent years, he has been instrumental in driving multiple strategic discussions with leading mining companies, ministries and policy makers in the field of strategic minerals, future of energy, mineral logistics etc.



### **Shri Tarun Kumar Chattopadhyay**

*Head - Fuel & Ash Logistics, Prayagraj Power Generation Company Ltd.*

Shri Chattopadhyay, an Electrical Engineering graduate and a Fellow of The Institution of Engineers (India) brings over 30 years of rich experience in the thermal power sector. Currently leading the Fuel & Ash Management vertical at Tata Power – Prayagraj, he has been instrumental in transforming coal supply chains through digital innovation, logistics optimization, and pioneering ash utilization practices in thermal power plan domain.

Having worked with industry leaders like CESC Ltd., Jindal Power Ltd., and Tata Power, his work sets benchmarks in sustainability, efficiency, contract management and so on. His leadership directly addresses the pressing challenges of decarbonising the coal value chain, including ash valorisation and circular economy initiatives.

Certified in Energy Management and Leadership & Change Management from XLRI, Shri Chattopadhyay combines technical depth with strategic foresight. A passionate Tabla player and Indian classical music enthusiast, he brings creativity and rhythm not just to music – but also to the evolving energy landscape.



### **Shri Ajay Kumar**

*Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd.*

Shri Ajay Kumar is a distinguished Railway Professional with over 25 years of service, currently serving as Chief General Manager at the Dedicated Freight Corridor Corporation of India Ltd. (DFCCIL). An alumnus of the Indian Institute of Technology (IIT), Roorkee, he holds a B.Tech in Civil Engineering and an M.Tech in Environmental Engineering.

He joined Indian Railways in 1998 and went on to serve in various capacities in Eastern Railway for two decades (2000–2020), contributing significantly to infrastructure development and operational efficiency. Since 2020, he has been leading strategic initiatives at DFCCIL, including planning for the Eastern Dedicated Freight Corridor (EDFC) and spearheading DPR preparation for future DFC corridors across India. His visionary approach has been instrumental in strengthening India's freight logistics. Recognized for his exemplary service,

Shri Kumar has received multiple awards, including the National Award for Outstanding Service in 2017.





### **Shri Niladri Roy**

*Director (Technical), Eastern Coalfields Ltd.*

Shri Niladri Roy assumed charge as Director (Technical) Operations, Eastern Coalfields Limited (ECL) on 01.02.2023. He is a Mining Engineering graduate (B.Tech) from IIT-ISM, Dhanbad (1987) and holds a 1st Class Mine Manager Certificate (1990).

He began his career with Coal India Limited at BCCL in 1987 and served there in various roles until 2004, including Safety Officer and Colliery Manager. Transferred to ECL in 2004, he served as Project Officer, held several key posts in Mugma Area and ECL HQ, and functioned as TS to CMD, ECL from 2008 to 2022. Before his current role, he was Executive Director (Production), CIL.

Shri Roy has participated in several international training and delegation visits, including to Germany (2009), Turkey (2011), Poland (2015), and Australia (2016 & 2019). He has expertise in mine fire control and advanced management. His distinguished career spans over three decades of dedicated service to the coal industry.



### **Shri Tarun Sinha**

*President, Technical Ammonium Nitrate*

Shri Tarun Sinha is President – Technical Ammonium Nitrate (TAN) and is primarily responsible for P&L Management, including Strategy Development & Execution, and managing Strategic Alliances for the TAN Business.

Shri Sinha has over 35 years of combined experience in the mining and steel industries, with a proven track record of working at international locations such as Malaysia, Indonesia, Singapore and USA, including responsibilities spanning Canada, Mexico, Philippines, China, Vietnam, Thailand and Brunei, during which time he held responsibilities for P&L Management, Strategy Development & Execution, Managing Joint Ventures, Mergers and Acquisitions, Business Development, Sales, Marketing and Key/Global Account and Commercial Contracts Management.

He spent 24 years working with Orica, World's largest explosives manufacturer, in different roles spanning different countries. Prior to DFPCL, he worked in BlueScope Steel-Nippon Steel Joint Venture as the President of the JV's downstream business in Singapore during which time he also led the JV's Downstream Strategy Development for South East Asia.

He has a Bachelor of Technology (Mining Engineering) degree from Indian School of Mines, Dhanbad.

**Shri Shivam Srivastava**

*Chairman, NTPC Mining Ltd & Director (Fuel), NTPC Ltd.*

Shri Shivam Srivastava is Director (Fuel) at NTPC Limited, bringing over 34 years of experience in the energy sector. A Mechanical Engineering graduate from Kamala Nehru Institute of Technology, Sultanpur, and a Post Graduate in Business Management from MDI Gurgaon, he has also completed a Leadership Management course from Harvard Business School, USA.

Joining NTPC in 1988 as part of the 13th batch of Executive Trainees, Shri Srivastava has held key roles in Fuel Handling, Plant Operation & Maintenance, Safety, and Coal Mining Projects. He has served as Business Unit Head of major coal mining projects, including the Pakri Barwadih Project, where he played a pivotal role in enhancing fuel security and coal self-reliance.

As Director (Fuel), he oversees fuel availability, affordability, and security for NTPC's power stations. He also serves as Chairman of NTPC Mining Ltd., NTPC Vidyut Vyapar Nigam Ltd., and NTPC Electric Supply Company Ltd.

**Shri Alok Lalit Kumar**

*ED (Production) & TS to Chairman, Coal India Ltd.*

Shri Alok Lalit Kumar currently serves as Technical Secretary to the Chairman, Coal India Limited, and holds the position of Executive Director (Coordination & Production). With a distinguished career in the coal sector, he has contributed significantly to operational efficiency, production planning, and inter-departmental coordination across the organization. Known for his expertise in managing large-scale mining operations and streamlining production strategies, he plays a pivotal role in aligning CIL's business objectives with its mission of energy security. His leadership and strategic insights continue to strengthen Coal India's commitment to sustainable growth and operational excellence.



**Dr. Peeyush Kumar***MD, Bharat Coal Gasification and Chemicals Ltd.*

Dr. Peeyush Kumar is Managing Director of Bharat Coal Gasification and Chemicals Ltd. (a JV of CIL & BHEL), Director of Coal Gas India Ltd. (a JV of CIL & GAIL), Director of CIL Solar PV Ltd., and General Manager & Head of the Coal to Chemical Department at Coal India Ltd., Kolkata. A B.Tech (Mining) Silver Medallist and Ph.D. (Management Studies) from IIT-ISM Dhanbad, he brings over 31 years of expertise in mine operations, project appraisal, corporate planning, mine safety, and national policy formulation.

He has served as Director (Technical) in the Ministry of Coal and authored key policies including the UCG Policy, Star Rating Policy, and the National Mission for 100 MT Coal Gasification. He has represented India in Joint Working Groups with countries like Japan, Russia, and the USA.

A recipient of several prestigious awards, Dr. Kumar has published in Scopus-indexed journals and presented globally. He currently serves as Council Member of MGMI (2022–25).

**Shri Pankaj Kumar Satija***Executive Incharge, Tata Steel*

Shri Pankaj Kumar Satija, Executive In-Charge of Ferro Alloys & Minerals Division (FAMD), Tata Steel Ltd., is a mining engineer from IIT (ISM), Dhanbad and holds a PGDBM from XLRI. With over 30 years of industry experience, he has led operations across the full value chain of chromite and manganese, serving global and domestic markets. A certified PMP and executive alumni of programs in Germany, UK, France, and China, he is also a certified coach and LEAD Fellow.

Shri Satija has served on multiple national task forces related to mining sustainability, safety, and modernization. He has pioneered several initiatives including India's first mine-based vetiver plantation, pilot launches of the Sustainable Development Framework and Drone Application in Mine Monitoring, and social impact projects like SABAL and Tejaswini. Under his leadership, Tata Steel Mining Ltd. received the Responsible Chromium Award from ICDA – marking a significant sustainability milestone in India's chromite mining industry.



## **Shri Partha S Bhattacharyya**

*Chairman, Peerless Group & Former CMD, Coal India Ltd.*

Shri Partha S Bhattacharyya joined Coal India Ltd as Management Trainee in 1977, rose to become Chairman in 2006 and retired in Feb 2011. He steered CIL through Miniratna in 2007, Navratna in 2008 and finally Maharatna in 2011 - a unique feat by any PSU CMD.

In 2010, he spearheaded the Initial Public Offer (IPO) of 10% of CIL's equity. It met with resounding success and became a landmark event. The IPO is still the largest in India so far.

He is also credited with turnaround of BCCL in 2005-06 as well as introduction of coal sale by e-auction in 2004-05.

He authored "When Coal Turned Gold", published by Penguin in Aug 2018. The Foreword to the book was written by Shri Pranab Mukherjee, Former President of India.

Shri Bhattacharyya is currently the Chairman of Peerless Group and Director on the Board of several companies in India and abroad.



## **Dr. B. Veera Reddy**

*Former Director (T), Coal India Ltd.*

Dr. B. Veera Reddy is currently serving as Advisor to the Hon'ble Minister of Coal & Mines. He was appointed as Part-time Official Director of BCCL and previously held the position of Director (Technical) at Coal India Limited. He also served as Director (Technical) - Operations at Eastern Coalfields Ltd. and held additional charge as

CMD, Central Coalfields Ltd.

A B.Tech (Mining) graduate and M.Tech (Mine Planning) from Kothagudem School of Mines, Osmania University, Shri Reddy holds a First-Class Manager's Competency Certificate from DGMS. With over 32 years of experience, he began his career with SCCL in 1987 and has worked extensively in both underground and opencast mining operations.

He held key leadership roles, including General Manager of the Adriyala Longwall Project at SCCL and contributed significantly in areas of mine planning, operations, procurement, and corporate project strategy. He is also a member of the Indian National Committee of the World Mining Congress, contributing to global dialogue on mining advancements



**Ms. Nandini Chakravarty***Managing Director, Mine Line Pvt. Ltd.*

Ms. Nandini Chakravarty is the Managing Director of Mine Line, a pioneering manufacturer of electrical equipment designed for hazardous atmospheres. With a rich legacy of 45 years, Mine Line has established itself as the market leader in flameproof mining electrical equipment. Ms. Nandini is one of the most recognized leaders in an industry that is principally male-dominated, breaking barriers and setting new standards. She is also a big advocate for gender equality in the mining industry, championing the cause of women's empowerment and inclusion.

Under her leadership, Mine Line has excelled in manufacturing a comprehensive range of electrical equipment tailored for mass production technology in underground mining. The company's portfolio includes projects. Several CM Projects, and one Longwall project, all equipped with Mine Line's reliable electrical equipment. The company has also collaborated with European firms such as SAIT of France, Bartec Sicherheits Schaltanlagen GmbH, Germany, BECKER Warkop, Poland and Becker Warkop of Germany showcasing its international presence and standards.

In 2014, Ms. Nandini Chakravarty received the MGMI Presidential Award and Gold Medal for her "Outstanding Contribution towards Mining Science," highlighting her significant impact on the industry. She has received many other recognitions and awards throughout her illustrious career, reflecting her dedication and excellence.

**Shri Shyam Pallav***Senior Stakeholder Advisor, FutureCoal*

Shri Shyam Pallav is a Senior Stakeholder Advisor at FutureCoal, where he oversees key policies and strategies shaping the global coal industry. With over eight years of experience in the energy and environment sector, he brings expertise across areas such as energy access, just transition, circular economy, and sustainable development.

He holds an Integrated MTech in Energy Engineering from the Central University of Jharkhand.

Prior to joining FutureCoal, Shri Shyam worked with the Centre for Environment and Energy Development (CEED) in Jharkhand and the National Institute of Solar Energy (NISE) in Gurugram. He maintains a strong interest in global energy policy and systems thinking.



## **Shri Sanket Singh**

*Partner, Grant Thornton Bharat*

Shri Sanket is strategy and transaction advisory expert with over 15 years of experience across India, Nigeria, KSA, and UAE. His consulting journey began in the energy sector and has since expanded to metals and mining. He has led transformative projects in policy formulation, strategy design, raw material sourcing, mineral asset acquisition, supply chain optimisation and digitalization.

Shri Sanket has played a pivotal role in shaping sectoral reforms and strategic planning including Vision 2030 for coal and minerals. His insights have helped drive reforms and efficiencies, including savings of over INR 6,000 crores through linkage rationalization, making him a key voice in the future of coal and mineral logistics.



## **Shri S Suresh Kumar, IAS**

*CMD, Damodar Valley Corporation*

Shri S. Suresh Kumar, IAS assumed charge as Chairman, Damodar Valley Corporation (DVC) on 1st January 2024 and took additional charge as Member Secretary, DVC on 16th June 2025. A 1988 batch IAS officer of the West Bengal Cadre, he holds a B.Tech degree in Chemical Engineering from IIT Madras.

With over 30 years of experience in both technical and administrative roles, Shri Kumar has held several key positions in the Government of India and the Government of West Bengal. He served as Additional Chief Secretary, Power Department, Government of West Bengal (2019–2023), and held additional charge of the Department of Non-Conventional Energy Resources.

At the national level, he served as Director (Finance), NACO (2006–08), OSD, Election Commission of India (2009), and Joint Secretary, Ministry of Home Affairs (2008–14). Prior to joining DVC, he was Director General, Netaji Subhash Administrative Training Institute, Kolkata.



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## Company Profile (Exhibitors)

### Coal Gasifiers Association of India

B-319, Ansal Chamber -1, Bhikhaji Cama Place, New Delhi - 110066

Tel : +91-11 41574943, Email: coalgassociation@gmail.com

W: www.coalgasifiers.in



The Coal Gasifiers Association of India (CGAI) is a leading industry body dedicated to promote clean coal technologies like coal gasification – both surface and underground gasification as a sustainable and value-driven energy solution for our country. CGAI functions as the mouthpiece of the industry and is a permanent invitee at the ministry of coal or other organisations such as NITI Aayog in all stakeholder consultation.

Registered with Registrar of the Companies under Societies Registration Act XXI of 1860 on 03rd March 2022, CGAI represents a diverse industry sectors like coal producers, coal consumers, technology providers, engineering companies, oil & gas companies, etc. CGAI serves as a platform for knowledge-sharing, industry collaboration, and policy advocacy to support India's clean energy transition.

The association organises workshops/ seminars periodically to share the recent developments, emerging technologies from time to time and shares it with its members. It also promotes its members to participate in National and International Conferences. Its members have participated in the Global Syngas Technologies Conference 2024, US and several key events such as the India Energy Conclave, World Petro-Coal Congress, and technical workshops / webinars on coal gasification.

CGAI has successfully pursued the financial incentive scheme (VGF) and several policy matters with the ministry of coal for the gasification projects in the country. CGAI is still actively pursuing Underground Coal Gasification (UCG) opportunities in the country as also several other industry's commercial issues, suggestions to make policies on gasification projects more attractive for participation of private sector in a big way with significant investments in near future.

#### Officer Bearers of Coal Gasifiers Association of India (CGAI)

**President** - Shri A. K. Jha, Former Chairman, Coal India

**Secretary General** - Dr. A.K Balyan, Former CMD Petronet LNG Ltd.

**Treasurer** - Shri Kapil Dhagat, Advisor, Jindal Power Ltd.

**Advisor** - Shri N N Gautam, Former advisor, Ministry of Coal

**Manager** - Shri Sudhir Kumar, Manager, Jindal Steel Ltd.

### Coal Producers Association

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Contact Person: Mr. Sudhir Kumar Barar, Treasure



Coal Producers Association (CPA) is a unique collective platform to interact among themselves, with other stake holders like Coal Consumers, mining equipment manufacturer, with concerned Government agencies, Policy makers in particularly to improve the coal production, man and machine productivity, improve working and living status of work force, improve financial and other efficiencies of Coal mining activities and last but not the least keeping abreast with the latest developments in Mining Technology/advancements reached through Research and Development work around the world.



## Coal India Ltd.

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T: +91-33-33-71104107/23246545  
W: www.coalindia.in



Coal India Ltd. (CIL) the state-owned coal mining corporate came into being in November 1975. With a modest production of 79 Million Tonnes (MTs) at the year of its inception CIL, today is the single largest coal producer in the world and one of the largest corporate employer with manpower of 228,861 (as on 1st April, 2024). CIL functions through its subsidiaries in 84 mining areas spread over eight (8) states of India. Coal India Ltd. has 313 mines (as of 1st April 2024) of which 131 are underground, 168 opencast, and 14 mixed mines and also manages other establishments like workshops, hospitals, and so on. CIL has 21 training Institutes and 76 Vocational Training Centres. Indian Institute of Coal Management (IICM) as a state-of-the-art Management Training 'Centre of Excellence' – the largest Corporate Training Institute in India - operates under CIL and conducts multi-disciplinary programmes.

CIL is a Maharatna company - a privileged status conferred by the Government of India to select state-owned enterprises in order to empower them to expand their operations and emerge as global giants. The select club has only ten members out of more than three hundred Central Public Sector Enterprises in the country.

The mines in Assam i.e. North Eastern Coalfields (NEC) are managed directly by CIL.



## Deepak Minign Solutions Limited

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W: www.dfpcl.com



Contact Person: Ms Sayali Patil, Sr. Manager - Branding

Deepak Mining Solutions Ltd., a 100% subsidiary of Deepak Fertilizers and Petrochemicals Corp. Ltd., is a market leader in the manufacturing of Technical Ammonium Nitrate. At Deepak Mining Solutions, we are committed to providing not only best-in-class products but also innovative solutions tailored to meet the unique challenges of the mining industry. Our comprehensive services include scientific studies, mine productivity improvement, blast nuisance control, and customized solutions for complex mining challenges.

Sustainability lies at the heart of our operations. By leveraging our expertise and advanced technology, we are uniquely positioned to develop safer, more sustainable solutions. As a leading global manufacturer of Ammonium Nitrate and a specialist in comprehensive blasting solutions, we are dedicated to delivering top-quality products and services. Our skilled professionals, equipped with cutting-edge software and equipment, ensure optimal results in planning and execution, managing the entire supply chain and addressing the specific needs of each mining operation.



**Dodge Industrial India Pvt. Ltd.**

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E : BChaudhari@dodgeindustrial.com

W : www.dodgeindustrial.com

***Dodge Industrial Inc.***

**Our History:** A Legacy of Innovation; Driven by Entrepreneurial Spirit Since 1878, Dodge has been discovering solutions that make industry operations easier. From the Independence Split Wood Pulley to Smart Sensors for mechanical products, our innovations have evolved to push entire industries forward. Every day, we honor the legacy of innovation that originated with our founder, Wallace Dodge. And we eagerly continue looking ahead to what we can achieve next.

**Our Products:** Designed for safety and reliability. Built for quality and durability. Dodge products are made for peak production under any conditions. Explore our offerings and find the best solutions for your manufacturing needs.

**Mounted Ball Bearings:** Set Screw, Extreme Duty, Eccentric Collar, Agriculture Duty, Grip Tight, D-Lok, Washdown (Foodsafe, Ultra Kleen and E-Z-Kleen).

**Mounted Spherical Roller Bearings:** S-2000, Imperial Safety Mount, Hydraulic ISAF, USAF, Unisphere II.

**Mounted Tapper Roller Bearings:** Type-E, Type EXL, TAF, Double Interlock, Type K, Special Duty, Type-C Hinged Cap.

**Hydrodynamic Bearings:** Mounted Plain Bearings and Take-Up Frames.

**Enclosed Gearing:** TXT® Introduced in 1949 as the first shaft-mounted reducer, Torque-Arm II Quantis®, Motorized Torque-Arm, Tigear®-2, Maxum® XTR, MagnaGear XTR® Mechanical Drives, Couplings, & Conveyor Components: V-Belts, Synchronous Sprockets and Belts Roller Chain Sprockets.

**Couplings:** Elastomeric Couplings, Metallic Couplings.

**IIoT Technologies:** Platform, Performance Sensor, Intelli-Lube™, Breather, Gateways.





**Fleetronix System Private Limited**

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Fleetronix is a leading provider of smart logistics and fleet management solutions across India. With a focus on innovation and intelligence, Fleetronix delivers cutting-edge GPS tracking, e-sealing, and real-time monitoring services tailored for industrial transport operations. The company has built a strong reputation by partnering with major clients such as JK Cement, Dalmia Cement, Sagar Cement, Jai Balaji Group, Shyam Metallic, Carbon Resources etc ensuring secure and efficient logistics services. The company has unlocked rich data from over 355,000 trips, enabling the creation of large-scale models that position Fleetronix as an AI-first logistics solution.

With operations spanning major mining and Key Seaports Like Haldia, Kandla, Karaikal, and Vizag, Fleetronix ensures transparency, compliance, and scalability in high-volume cargo movement. Its mission is to revolutionize logistics through intelligent automation and data-driven insights.

**Gainwell Commosales Private Limited**

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W: [www.gainwellindia.com](http://www.gainwellindia.com)

Contact Person: Mr. Dipankar Banerjee, CEO &amp; Whole Time Director - GEPL



Gainwell Commosales Private Limited (Formerly Tractors India Private Limited) has been a proud partner of Caterpillar in India for over eight decades, operating out of East & North India as well as in Bhutan and in Nepal through the wholly owned subsidiary Tractors Nepal Private Limited (TNPL). Gainwell has been engaged in supporting the growth of infrastructure in India through a comprehensive and technologically advanced product line of Caterpillar in Construction, Mining and Energy; Transportation sectors. In its endeavor to provide turnkey 'Solutions for Growth' to its customers in the infrastructure and mining space, Gainwell has nurtured close and mutually rewarding relationships with multiple global OEMs. Gainwell has expanded its presence in Railways, Defence, Oil and Gas and underground mining sectors in recent years and has established itself as a manufacturer of high-end machines for global markets. Providing end-to-end and full-spectrum maintenance services to customers across various sectors and with state-of-the-art facilities spread across India, Gainwell's highly skilled and trained service team delivers unparalleled support to help customers build a new India.



## Jindal Power Ltd.

Jindal Centre, 12, Bhikaiji Cama Place,  
New Delhi 110 066

T: +91 11 2618 8340-50

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W: www.jindalpower.com

Contact Person: Mr. Om Prakash, CEO- Mining Business, Jindal Power Limited



Jindal Power Limited (JPL) is a leading Indian power company with a diverse energy portfolio encompassing thermal and renewable sources. With an impressive installed capacity of 4300 MW, JPL has been instrumental in meeting the nation's growing power demand. JPL's energy portfolio includes 3400 MW at Tamnar, Chhattisgarh and 600 MW at Simhapuri Andhra Pradesh & 300 MW at Shirpur, Maharashtra. To cater to coal requirements, JPL also emerged as a key player in the Coal Mining business and has 3 coal mines having peak-rated capacity of around 30 MTPA. JPL strives for innovative and sustainable practices in business and is a trailblazer in community development and welfare initiatives.



## LinqHaul India Private Limited

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T: +91 9060511185 (Mansur Faroqui)

E: mansur@linqhaul.com

W: <https://linqhaul.com/>



LinqHaul is the world's first AI-powered, Digitally Connected Multi-Modal Logistics Network. At the core of our platform lies a powerful suite of intelligent tools, including:

- 1) Agentic AI,
- 2) Robotic Process Automation (RPA), and
- 3) Quasi-blockchain architecture

This has been designed to deliver unmatched efficiency, visibility, and reliability across the logistics value chain.

We don't just digitize logistics - we intelligently automate it.

Our platform enables autonomous planning, real-time exception handling, and continuous optimization of cost, routes, and turnaround time.

From origin to first mile, middle mile, and last mile, LinqHaul seamlessly connects multimodal movements across road, rail, ocean, and inland waterways - leveraging cutting-edge technology, IoT, and smart data layers.





## Mine Line Pvt. Ltd.

23, Indrani Park, Kolkata 700033

T: +91 9674294029 (Mr. Supriyo Dutta); +91 8420027082 (Ms. Mili Biswas)

E: supriyo@mineline.in, mdsecretary@mineline.in

W: www.minelineindia.com



Mine Line Pvt. Ltd. was established in 1977 by an eminent mining engineer Sri Biren Mukerjee. Mine Line has pioneered the design, manufacturing and installation of flameproof equipment over 45 years. Mine Line has established itself as the market leaders in electricals for mining, both surface as well as underground.

The company collaborated with European firms such as SAIT of France, Bartec Sicherheits Schaltanlagen GmbH, Germany and Becker Warkop, Poland, Becker Mining, Germany, holding joint ventures and technology transfer.

The latest achievement is a Load Center with built-in microprocessor based self-diagnostic automation system with integrated protection, control of data acquisition software visible on a colour monitor/ industrial computer.

The entire data from the operating machines for either a longwall or a CM project can be monitored, controlled, altered, and processed from front cover of the load center. The data can be taken to surface seamlessly through fiber optic cables.

Mine Line has 120 employees including over 40 engineers from several disciplines. Operates over five service centers on pan India basis. It has an exhaustive range of products and holds over 50 DGMS approvals. The company is capable of complete mine planning and execution of electrical packages on a turnkey basis for underground mechanized mines.

Please visit us at [www.minelineindia.com](http://www.minelineindia.com)



## NLC India Ltd.

Block -1, Neyveli 607801, Cuddalore District, Tamilnadu

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For more than six glorious decades, NLC India Ltd has been a forerunner amongst the Public Sector Enterprises in the country in the energy sector, contributing to a lion's share in lignite production and significant share in thermal and renewable energy generation.

The Company was incorporated in 1956. NLCIL is a Navratna Government of India Enterprise, under the administrative control of Ministry of Coal. Today, the company has set its footprints in PAN India mode in the states of TamilNadu, Rajasthan, Uttar Pradesh, Odisha, Jharkhand, Gujarat and Andaman & Nicobar Islands.

A pioneer among the Public Sector Undertakings in energy sector, NLCIL operates 3 opencast Lignite Mines of total installed capacity 28 Million Tonnes Per Annum (MTPA) at Neyveli, one opencast Lignite Mine at Barsingsar in Rajasthan with an installed capacity of 2.10 MTPA and an open cast coal mine at Talabira in Odisha with an installed capacity of 20 MTPA.

The Company is also operating 4 Lignite based pit-head Thermal Power Stations with an aggregate capacity of 3390 Mega Watt (MW) at Neyveli and one 250 MW Lignite based Thermal Power Station (BTPS) at Barsingsar, Rajasthan. A 1000 MW Coal based Thermal Power Station is also in operation at Thoothukudi, Tamil Nadu through its subsidiary company, NLC Tamilnadu Power Limited (NTPL), a Joint Venture between NLCIL and TANGEDCO.

NLCIL has also forayed into renewable energy sector. Presently, the Company is operating 1380 MW of Solar Power Plants in various Districts of Tamilnadu and Andaman & Nicobar Islands and 51 MW Wind Power Plant in Tirunelveli district of Tamilnadu.



**NTPC Ltd.**

NTPC Coal Mining Headquarters, Ranchi, Jharkhand

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W: www.ntpc.co.in



Contact Person: Mr. Amit Kumar Behera, Senior Manager (Corporate Communications)

**NTPC - About the Company**

NTPC is India's largest energy conglomerate with roots planted way back in 1975 to accelerate power development in India. Since then, it has established itself as the dominant power major with presence in the entire value chain of the power generation business with total installed capacity of 76,294 MW spread over thermal along with hydro, nuclear and renewable energy sources to reduce its GHG emissions. The company has further diversified into the fields of consultancy, power trading, training of power professionals, rural electrification, ash utilisation and coal mining.

Present installed capacity of NTPC Group is 76,294 (including 17126 MW through JVs and Subsidiaries) comprising of 52 NTPC stations (27 coal based, 7 gas based, 1 hydro, 1 small hydro & 16 solar PV) and 42 JV/ subsidiaries (9 coal based, 4 gas based, 8 hydro, 1 small hydro, 16 solar PV and 4 wind).

**NML – A Growth Story**

NTPC has incorporated its 100% wholly owned subsidiary namely, NTPC Mining Limited (NML) for developing focused competency in mining business and expansion of mining vertical. On 17.08.2023, NTPC Ltd has entered into a Business Transfer Agreement (BTA) with NML for hiving off its coal business.

NML as on date has 7 coal blocks to its kitty namely, Pakri-Barwadih, Chatti-Bariatu & Chatti-Bariatu CB (South), Kerandari, Badam and North-Dhadu (Eastern part) in Jharkhand, Dulanga in Odisha and Talaipalli in Chhattisgarh with a combined production potential of more than 74 million tonnes per annum.

NML has delivered a stellar performance in FY 23-24 by producing 34.39 Million Tonnes of coal with YoY growth of 48%. Targeted production for FY 24-25 is 40 Million Tonnes against which production till Aug'24 stood at 15.96 Million Tonnes with YoY growth of 17.95% over the same period of last year.

This outstanding performance reflects NTPC mining's relentless commitment towards enhancing the coal production from its captive mines contributing to NTPC's fuel security and ensuring efficient supply to meet the nation's energy needs.

Further, NML has already ventured into commercial mining and has won its first commercial coal mine, North Dhadu (Eastern Part) during 7th tranche of auction for commercial coal mines. This has brought NML, one step closer to achieve its targeted production potential of 100 million tonnes per annum.

To achieve sustained growth in coal production, NTPC has implemented a range of strategies and technologies. These include the adoption of rigorous safety measures, improved mine planning, equipment automation, workforce training and implementation of continuous monitoring and analysis systems. These initiatives have played a vital role in optimizing operations, enhancing productivity and ensuring the safety of the workforce.





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S.K. Samanta & Co. (P) Ltd., better known as SKSL, an ISO 9001-2008 Company Started civil construction contracts as a proprietary / partnership firm has been in the business of executing EPC Contracts ever since its incorporation in 1982 in a wide arena of projects pertaining to Central and State Governments, Public Sector Companies, Railways, Power Plants, Steel Plant, Mines, Roads, Bridges etc.

The Company is equipped with latest construction plants and machineries commensurate with the requirement for handling large turnkey projects. It has a team of highly qualified and experienced engineers and other personnel including administrative support staff. Our association with various renowned professional consultants of the country is an added strength and hormonal compliments to internal professional strength for adoption of the latest technology.

SKSL is committed to form a seamless partnership with its customers, so that their requirements become its challenge.

SKSL's quest for excellence is achieved by its innovative engineering practices and quality execution of its projects, on time, within budget, by its high performance team, which is adopted for each project.

**Volvo Trucks India, VE Commercial Vehicles Ltd.****V O L V O**

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Contact Person: Mr. Gaurav Bansal, National Sales Manager

Volvo Trucks India is a Division of VE Commercial Vehicles Ltd. which carry out sales & aftermarket support of Volvo Trucks in India.

Volvo trucks supply heavy duty premium trucks for both on-road and off-road applications. Over 9000+ trucks are working in India in various applications like Coal mining, Mineral Mining, Cement, Construction & Infra projects (viz, Road, Irrigation, Quarry etc), Long Haul/ E-commerce, Over Dimension Cargo (ODC), Institutional Sales like Govt. Institution (ISRO, BARC etc.) Quasi Defense/ Defense labs (VRDE, DRDO etc.), Fire & Rescue, Oil & Energy segment etc.

Volvo provides complete solution to customers including product recommendation, project costing, alternate fuel solutions, innovative transport models, Customized Aftermarket support Agreement, Funding support & other services. Volvo has > 200 service touch points across India to ensure high uptime & service support.



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## NOTES



# SECL

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SECL Bhawan, Seepat Road, Bilaspur (C.G.)





COAL MINING

ENVIRONMENT  
CONSERVATION

CSR ACTIVITIES



FY 2024-25

Achieved highest-ever coal production of 69.121 MT. ●

WCL is the first CIL subsidiary to secure a Coal Block allocation (Dahegaon Makardhokra-IV) through a competitive bidding process. ●

WCL is the pioneering CIL subsidiary to receive Final Mine Closure Certificates for 3 key mines: Pathakhera-II UG, Satpura-II UG, and Pathakhera-I UG. ●

Planted 584,300 plants, covering an area of 207.50 hectares, including 1-hectare Miyawaki forest. ●

CSR spending soared by 275% YoY, rising from Rs.13.97 Cr to Rs.52.51 Cr, demonstrating our unwavering commitment to community welfare. ●

We Join Parts to make it Whole. When Coal Mining is clubbed with environment conservation, corporate social responsibility and several other key initiatives of common good, we create a win-win situation for all. This is what we call **Responsible Coal Mining**. ●



**WESTERN COALFIELDS LIMITED**  
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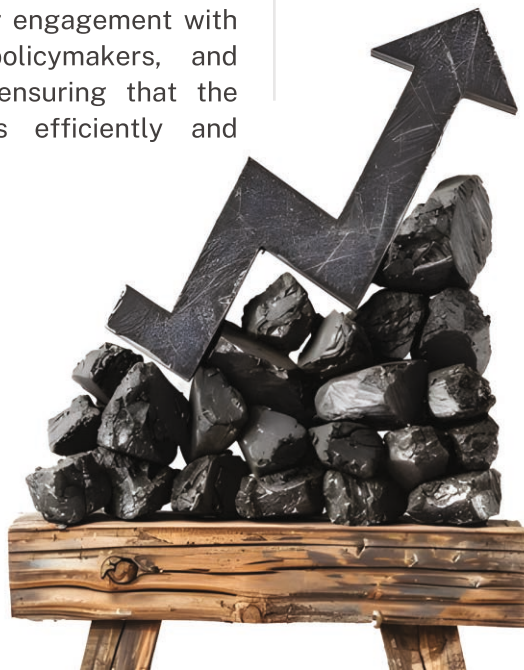
## Coal Producers Association

CPA is the voice of India's coal producers, playing a pivotal role in supporting and protecting the interests of coal-producing companies.

CPA is dedicated to enhancing coal production, advancing mining technologies, and improving the quality of life for our workforce. We are committed to addressing the challenges faced by the coal sector, from statutory clearances to land acquisition and transportation issues. Our mission includes regular engagement with government bodies, policymakers, and industry stakeholders, ensuring that the coal industry operates efficiently and sustainably.

### Who We Represent

- Coal & Lignite Block Holders (Commercial, Captive, or Government Allocation)
- Private & Public Sector Companies involved in mining or coal reserve exploration
- Joint Ventures in coal and lignite mining
- Consultants, Research Organizations, and MDOs (Mine Developer and Operators)



As a member of CPA, you'll gain access to a wealth of resources, industry expertise, and networking opportunities to drive the future of coal production in India. Together, we can ensure a robust and sustainable energy future for our nation.

**For information and membership please contact or write to**

**Secretary General**

**Coal Producers Association**

B-319, Ansal Chamber -1, Bhikaji Cama Place, New Delhi 110066

**Tel:** +91 11 41574943, 98105 05749

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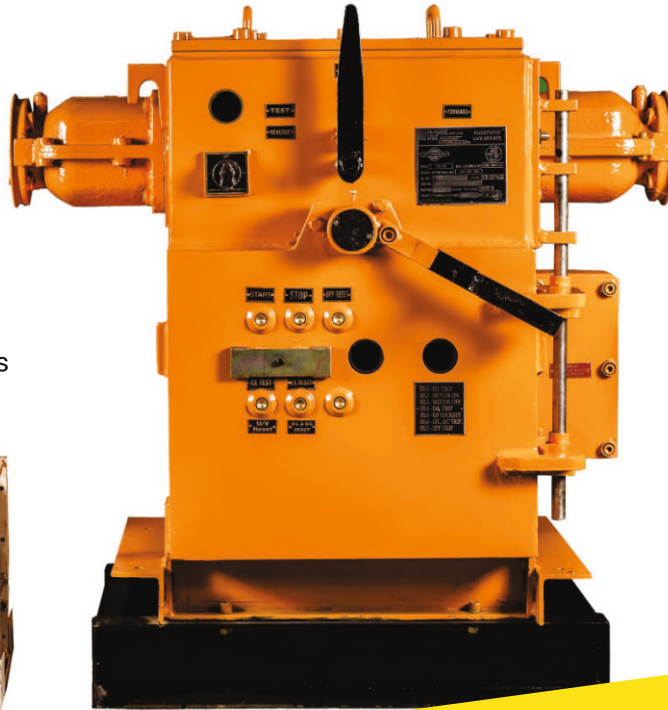
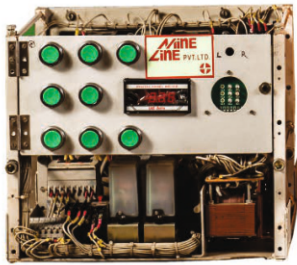
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