

# 18<sup>th</sup> National Conference on Coal

Thursday, 9<sup>th</sup> April 2026

Hotel Le Meridien, New Delhi

Supported by :



Ministry of Coal  
Ministry of Power  
Ministry of Mines  
Ministry of Steel  
Ministry of Railways  
Ministry of Environment,  
Forest & Climate Change  
NITI Aayog

Theme :

## TRANSFORMING COAL SECTOR FOR A NET ZERO FUTURE



### Organisers

INDIA  
**ENERGY**  
FORUM



MGMI - Delhi Chapter



ISM Alumni Association  
Delhi Chapter

# Introduction

While India has already achieved a historic milestone by surpassing one billion tonnes of coal production landmark through combined efforts of public & private coal mining companies, the domestic coal industry is undergoing a sea change. Further, the successful auction of 109 coal mines under the commercial coal mining framework has strengthened the roadmap for scaling coal production to 1,500 million tonnes by FY 2030.

The coal value chain is a significant contributor to sectors such as power, steel, cement, aluminium, chemicals, and renewable infrastructure. To safeguard & support this continued contribution of coal to the economy, we must strive to modernise and chart a future strategy which sustains coal for the economic and environmental benefit of future generations by extracting more value per tonne of coal.

The future strategies for extracting more value per tonne of coal encompasses a range of responsible practices, emissions controls, efficiency gains & advanced coal opportunities.

While the Indian coal sector is steadily advancing towards higher levels of mechanisation, several focus areas must be addressed towards sustainable coal value chain while reducing the overall carbon footprint.

## Pre Combustion

This includes efficient mining practices, digitalisation, waste management, renewable power, methane control, management of surface subsidence, land disturbance and rehabilitation, among others.

- a. Adoption of Advanced Technologies & Machinery -Deployment of modern, energy-efficient equipment such as electric and alternative fuel driven dumpers, excavators and conveyors for coal excavation and transportation.
- b. Digital Transformation of Mining Operations- Leveraging AI, IoT, and 5G technologies for improved mine planning, real-time analytics, predictive maintenance, enhanced communication and safety management.
- c. Workforce Skill Development-Continuous training and upskilling of the workforce to improve Overall Mining Productivity (OMS) and ensure safe and efficient operations.
- d. Restoration & Rehabilitation of Land: Restoration & rehabilitation of worked out land for use of society as far as possible and in consonance with approved mining plan.

## Combustion

This describes the range of efficient technologies which when combined support power and heat utilities to abate and capture emissions. Achieving net-zero in the coal sector is not limited to mining efficiency alone. Equal emphasis must be placed on coal handling & utilisation by end-user industries such as power, steel, cement and manufacturing.

Key measures include adoption of best-in-class pollution control technologies:

- Flue Gas Desulfurization (FGD) systems for sulphur dioxide control
- Selective Catalytic Reduction (SCR) for nitrogen oxide reduction
- Electrostatic Precipitators (ESP) for particulate and ash capture

Additionally, augmenting coking coal washing capacity from the current 30 MTPA by establishing an additional 33 MTPA as planned by CIL will help reduce dependence on imported coking coal and improve resource efficiency.

Reducing Carbon Footprint: Advanced & Alternate Approaches

- Expansion of mechanised coal handling and transportation infrastructure to minimise logistical emissions.
- Establishment of pit-head thermal power plants using supercritical and ultra-supercritical technologies for higher efficiency and lower emissions.
- Identification and allocation of coal blocks for clean coal technologies, including:
  - Coal and lignite gasification
  - Coal-to-chemicals projects
  - Underground coal gasification for deep-seated seams
  - Coal Bed Methane (CBM) extraction

## Beyond Combustion

Exploring novel business opportunities that transform coal into high-value products. These include Coal-to-Liquids (CTL), synthetic liquid hydrocarbons, hydrogen, methanol, and agrichemicals.

Additionally, it highlights that coal and coal waste form an ecosystem, offering secondary resources for valuable construction materials, critical minerals for a digitised future, and advanced materials like graphene and carbon fibre.

To capture the essence of sustainable mining and reducing carbon footprint, the theme of this year conference has been chosen as “Transforming India’s Coal Sector for a Net-Zero Future”

## Engagement of Government: Policy Initiatives for Coal Sector Transformation

A supportive and agile policy ecosystem is essential to accelerate transformation. Key initiatives include:

- Further streamlining policy and regulatory frameworks to enable faster clearances towards mine opening, operations, and rehabilitation & resettlement (R&R).
- Formulation and refinement of policies under the Coal Mines (Special Provisions) Act, 2015 and the MMDR Act, 1957.
- Identification and allocation of new coal blocks for both end-use and commercial mining.
- Amendments to Mineral Concession Rules, 1960, to improve ease of doing business.
- Promotion of Public-Private Partnerships (PPP) in mining and infrastructure.
- Fast-tracking environmental and forest clearances through transparent and technology-enabled processes.

## Conclusion

Only through a holistic and collaborative approach involving both the Government and private sector can India's coal industry successfully balance energy security, economic growth, and environmental responsibility – ultimately enabling the sector to align with the net-zero vision by 2047.

## About Organisers



### India Energy Forum

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

In fact, IEF framed an Energy Policy document which became an input to the Planning Commission's Integrated Energy Policy brought out in August 2006. Its membership includes all the key players of the energy sector both from private and public and over 140 highly respected energy experts.

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

Every year it organizes its flagship events viz, National Power Conference, Oil and Gas Conference, Renewable Energy Conference, National Conference on Coal and Nuclear Energy Conclave besides webinars which are organized almost every month.

It also organises "India Energy Debate" – a new monthly discussion to debate the critical issues of India's energy sector.

It publishes a monthly e-journal TOTAL ENERGY which provides authentic information on the whole energy sector at one source. It also brings out DAILY ENERGY NEWS REPORT.



### MGMI – Delhi Chapter

Mining, Geological and Metallurgical Institute of India (MGMI) is the oldest technical organization of this nature in Asia. It was set up in 1906 and today it has a membership of more than 3000 professionals from different fields of mineral based industries, Technocrats, Planners and Policy Makers both in Private & Public sector at State/Central levels, experienced Managers in different sub-disciplines in

evaluation of resources and their eco-friendly exploitation, Academicians, Research workers and students from Geology, Mining and Metallurgy streams & Chief Executives of most of organizations related to mining and minerals in India. The Institute is now recognized as one of the preferred professional societies for membership by all appropriately qualified personnel associated with the study and use of minerals and mineral-related industries in India.



### ISM Alumni Association

This is an association of Alumni of Indian School of Mines and Applied Geology (now IIT-ISM), the internationally recognized Mining institution based at Dhanbad. It has chapters at all the mineral-related centres in India and even abroad where the alumni of this institution work and operate. This Association is also a think tank & contributes to exchange & dissemination of mineral-related information and practices.

## Participants

- Project Developers (Public & Private)
- Coal Producers (Public & Private)
- Coal Consumers (Public & Private)
- Govt. Policy Makers – Central and State Govts.
- Research scholars
- Academicians
- Equipment Suppliers
- Fuel Suppliers
- Bankers and Financial Institutions
- Legal & Management Consultants
- Other Intellectuals

## Delegate Registration

Registration Fee for the Conference:

Delegate	Rs. 15,000/- each
Two or more Delegates from the same Organization	Rs. 12,000/- each
Foreign Delegate	US \$320 each
Two or more Foreign Delegates from same Organization	US \$250 each
Students (Limited Seats)	Rs. 3,000/- each

# Compendium

A Compendium of Papers is being brought out which will provide a comprehensive profile of the Indian Coal Industry. It will contain articles on relevant issues and conference papers. Some pages of the compendium are earmarked for advertisements. You can avail of these advertisement opportunities.

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**Advertisement Material** : High Resolution CDR, PDF & JPEG file by email. Publication Size will be A4.

# Tentative Program

**9<sup>th</sup> April, 2026**

09:00 - 9:30 AM : Registration & Networking Tea

09:30 - 10:30 AM : Inaugural Session

10:30 - 11:00 AM : Tea/ Coffee Break

11:00 AM - 12:15 PM : Session I (Policy Initiatives Required to Facilitate Transformation of Coal Sector)

12:15 - 1:30 PM : Session II (Reducing Carbon Footprint in Coal Utilization: Conventional Methods)

01:30 - 02:30 PM : Lunch

02:30 - 03:45 PM : Session III (Reducing CarbonFootprint in Utilization: Advance Alternate Methods)

03:45 - 04:00 PM : Tea/Coffee Break

04:00 - 04:30 PM : Valedictory Session