



## Implementing 2°C and below 2°C - compatible climate change mitigation scenarios: Implications for India's coal sector

### Agenda

**Location:** Dhanbad, Jharkhand

**Event Date:** Dec 1<sup>st</sup> and 2<sup>nd</sup> 2017

**Co-organising institutions:** IIMA, IDDRI, CIMFR

#### Context and objective

A number of new forces are emerging that will have implications for the future of the coal sector. At one level, the Paris Climate Change Agreement set a goal of keeping climate change impacts to well below 2°C of warming and aiming for 1.5°C. Coal currently accounts for 28% of global primary energy consumption and approximately 46% of global CO<sub>2</sub> emissions. The coal sector will thus also be required to contribute to the broader climate goal by making a transition of its own.

The goal of this event is to discuss implications of possible coal transitions – both internationally and in India - the barriers, path dependencies, socio-economic and socio-political conditions under which it could be possible, and to draw insights from international experiences and policy debates.

The event aims to promote an open discussion between researchers, industry stakeholders and policy makers on the following topics (non-exhaustive):

- What are the implications of <2°C compatible climate mitigation scenarios for coal demand both in India and internationally?
- How might the Indian coal market evolve under alternative climate policy scenarios in India and in coal exporting countries?
- What are the potential implications for different stakeholder groups in India of these evolutions and how might the risks they face be managed most effectively?
- How could an Indian coal transition be reconciled with the need to avoid creating stranded assets, socio-economic and socio-political challenges?
- What lessons can be learned from coal and other industrial transitions abroad, both past and present?
- Is there a need for stronger international cooperation on coal going forward?

## Programme Details

<b>Day 1: December 1, 2017 (Friday)</b>	
09:30 – 10:00	Registration
10:00 – 11:00	<b>Inaugural Session</b> <ul style="list-style-type: none"> <li>• Dr. Pradeep K Singh, Director, CSIR-CIMFR (Welcome Address)</li> <li>• Mr. Oliver Sartor, IDDRI, Paris (Context setting)</li> <li>• Prof. Amit Garg, IIM Ahmedabad (About the Event)</li> <li>• Shri Gopal Singh, Chairman, Coal India (Guest of Honor)</li> <li>• Shri Susheel Kumar*, Secretary, Ministry of Coal (Chief Guest)</li> <li>• Dr. Ajay K Singh, Former Scientist, CSIR-CIMFR (Vote of Thanks)</li> </ul>
11:00 – 12:00	<b>Panel Session 1: Future of Indian coal and its implications for different stakeholders</b> <b>Chair: Shri Susheel Kumar*, Secretary, Ministry of Coal</b> <ul style="list-style-type: none"> <li>• Shri Gopal Singh*, Chairman, Coal India</li> <li>• Shri N. Sridhar*, CMD, SCCL or his nominee</li> <li>• Shri Ajay K. Singh*, CMD, BCCL or his nominee</li> <li>• Shri Sarat K Acharya*, CMD, NLC or his nominee</li> <li>• Prof. Durga C Panigrahi, Director, IIT (ISM)</li> <li>• Prof. Amit Garg, IIM Ahmedabad</li> </ul>
12:00 – 13:00	<b>Session 2: Coal Transitions under a 2°C and below 2°C</b> <b>Chair: Shri N C Pandey*, Executive Director, CBM Asset, ONGC</b> <ul style="list-style-type: none"> <li>• <i>Climate Change and International Coal Trade</i>: Dr. Casimir Lorenz, DIW, Germany,</li> <li>• <i>Coal transitions in India under 2°C and below 2°C</i>: Ms. Saritha S. Vishwanathan, IIM Ahmedabad</li> <li>• <i>Climate Change and Global Coal transitions</i>: Mr. Oliver Sartor, IDDRI, Paris</li> </ul>
13:00 – 14:00	<b>Lunch</b>
14:00 - 16:30	<b>Session 3: Energy Businesses in India - Emerging Technologies and current state of the art</b> <b>Chair: Shri P K Sarkar*, Director General, DGMS, Dhanbad</b> <ul style="list-style-type: none"> <li>• <i>Impact of Gas</i>: Shri N C Pandey*, ED (CBM), ONGC or his nominee</li> <li>• <i>Clean coal technologies</i>: NTPC</li> <li>• <i>Coal Supply Chain in India</i>: Prof. Tirthankar Nag, Dean, IMI</li> <li>• <i>Nonconventional Gases</i>: Dr. Ajay K Singh, Former Sct., CSIR-CIMFR</li> <li>• <i>CO<sub>2</sub> capture and storage</i>: Dr. Vikram Vishal, IIT Bombay</li> <li>• <i>Coal Quality Assessment</i>: Dr. Ashok K Singh, Sr. Principal Scientist, CSIR-CIMFR</li> <li>• <i>Renewables – Solar</i>: Ms. Ritu Lal, Vice President, Amplus SOLAR</li> </ul>
16:30 -17:00	<b>Tea Break</b>
17:00 – 18:00	<b>Session 4: Panel Discussion</b> <b>Implications for Indian Coal due to Paris Agreement, and long-term climate change pathways</b> <b>Facilitator: Mr. Oliver Sartor (IDDRI)</b> Panellists: CIL, NTPC, Ms. Jesse Burton
19:00 – 20:30	<b>Workshop Dinner</b>

**Day 2: December 2, 2017 (Saturday)**

9:30 – 10:45	<b>Session 5: Stranded Assets in Coal Sector</b> <b>Chair: Prof. Tirthankar Nag, Dean, IMI</b> <ul style="list-style-type: none"><li>• <i>Lessons from China</i>: Mr. Thomas Spencer, IDDRI; Prof. Teng Fei*</li><li>• <i>Risks of stranded assets in India</i>: Dr. Vineet Tiwari, IIIT Allahabad</li><li>• <i>Lessons from South Africa</i>: Ms. Jesse Burton, UCT</li><li>• <i>Water and Coal Nexus</i>: Ms. Saritha S Vishwanathan, IIM Ahmedabad</li></ul>
10:45 – 11:15	<b>Tea Break</b>
11:15 – 13:00	<b>Session 6: Socio-economic aspects during coal transitions and way forward</b> <b>Chair: Dr. Henri Waisman, IDDRI – through skype, Prof. Amit Garg, IIM Ahmedabad</b> <ul style="list-style-type: none"><li>• <i>Renewables – Bioenergy</i>: Dr. Kalyan Bhaskar, XLRI</li><li>• <i>Lessons from South Africa – Optimize carbon budget for development</i>: Ms. Jesse Burton, UCT</li><li>• <i>International cooperation and Finance options</i>: Mr. Thomas Spencer, IDDRI</li><li>• <i>COP23 and coal</i>: Mr. Oliver Sartor, IDDRI</li></ul>
13:00 – 14:00	Lunch

\* Invitation sent. To be confirmed