



NATIONAL CONCLAVE ON GREENING INDUSTRIAL BOILERS IN INDIA

Co-organized with the Directorate of Boilers,
Government of Uttar Pradesh

14th May 2025 | 09:30 AM to 6:00 PM
The Centrum, Lucknow

INTRODUCTION

India's manufacturing sector is experiencing strong expansion, driven by growing domestic demand and shifts in global supply chains. At the same time, the country is focused on lowering the emission intensity of its economy, underscoring the importance of adopting green growth models for industrial development.

Steam plays a vital role in numerous industries, as a critical energy input for many processes and is a key driver of the country's manufacturing sector growth. Steam-based industries such as food and beverages, textile, chemical, fertilizer, pulp and paper, sugar, pharmaceuticals, etc use it for various industrial processes such as heating, drying, pulping, evaporation, cleaning, distillation among others. As steam is irreplaceable for industrial processes, the demand for industrial steam is linked to the nation's economic growth trajectory, industrialization, and technological advancements. As India continues its march towards becoming a global manufacturing hub and enhancing its industrial output, the requirement for steam is poised to witness significant growth.

Industrial steam in India, produced through specialized equipment, commonly known as boilers involves the combustion of fuels to produce heat, which is then transferred to water to generate steam. In India, the fuels that are generally used in boilers to produce heat are fossil fuels including coal, fuel oil, natural gas, or naphtha, however, biomass is also being used in many industries. Depending upon the amount of steam required, pressure and temperature parameters, fuel type, etc there are various types of boilers available operating on different technology and fuels.

As concerns regarding carbon emissions and air pollution rise, many industrial establishments are adopting measures to optimize boiler efficiency and adopt cleaner fuels. This includes the use of advanced combustion technologies, waste heat recovery systems, cogeneration (combined heat and power), and low carbon fuel usage. MSMEs, which are the backbone of India's industrial growth with significant share of industrial output and exports, are critical to this transition. However, the lack of publicly available data on operational steam capacity in India, steam generation or fuel mix has been impeding the formulation of suitable policies and action plans for decarbonizing industrial process steam.

To address this gap, iFOREST, as part of its MoU with the Central Boiler Board, Department of Industrial Policy Promotion and Trade, Ministry of Commerce, Government of India undertook a study to estimate the demand for industrial process steam in India, across key industrial sectors, and explore feasible low carbon pathways for industrial process steam.

This event marks the culmination of the first phase of this study and launch of the Report on **"Greening Industrial Steam: Low carbon and clean air roadmap for process boiler"**. As a first ever national discussion in this critical steam decarbonization sector in the country, the event aims to bring together all key stakeholders including departments of boilers and factories from all States and UTs, Boiler OEMs, industrial sector and policy experts, academic and research institutions to deliberate on the transition of industrial process steam boilers as a step towards a low carbon economy.

SESSION AGENDA

Time	Session	Speaker(s)
09:30 AM – 10:00 AM	Registration	
10:00 AM – 10:05 AM	Welcome	iFOREST
	Lighting of Lamp	
10:05 AM – 10:15 AM	Opening Address	Sh. Sandipkumar Sadanand Kumbhar Technical Adviser (Boiler) & Secretary, Central Boilers Board
10:15 AM – 10:25 AM	Inaugural Note	Sh. Anil Rajbhar Hon'ble Minister of Labour & Employment, Government of Uttar Pradesh
10:25 AM – 10:45 AM	Presentation Address Greening Steam: Low carbon and clean air roadmap for process boilers	Dr Chandra Bhushan President & CEO, iFOREST
10:45 AM- 10:55 AM	Special Address	Sh. Anil Kumar, IAS Principal Secretary Environment, Forest & Climate Change, Uttar Pradesh
10:55 AM- 11:05 AM	Special Address	Sh. M.k. Shanmuga Sundaram, IAS Principal Secretary, Labour & Employment, Uttar Pradesh
11:05 AM -11: 15 PM	Chief Guest Address	Sh. Manoj Kumar Singh, IAS Chief Secretary, Uttar Pradesh
11:15 AM – 11 20 PM	Report Release and Photo	
11:20 AM – 11:40 PM	COFFEE AND TEA BREAK	
11:40PM – 1:00PM	Roundtable discussion Reforming Boiler Governance for Climate Action & Labor Safety	State-Directors of Boilers 1. P A Vyas. Gujarat 2. Mahesh Deshmukh, Maharashtra 3. Veer Bhadhra Rao, Andhra Pradesh 4. Pramod P, Kerela 5. Sandeep Gupta, Uttar Pradesh 6. Sanjay Sharma, Haryana Moderator: iFOREST
1:00PM – 2:00PM	LUNCH	

Time	Session	Speaker(s)
2:10 PM – 3:30 PM	Technology Roundtable Innovative Technologies for Clean and Efficient Steam	1. Lokesh Chaudhary , Forbes Marshall 2. Dr. Ashwani Setia , Thermodyne Engineering Sys 3. Satbir Singh Cheema , Cheema Boilers Limited 4. Rakesh Mahajan , Steamax Envirocare Pvt. Ltd. 5. Rohinton Engineer , IBL Group 6. Dr. Laltu Chandra , IIT Kanpur Moderator: iFOREST
3:30PM – 4:50 PM	Inter Departmental Roundtable Creating Enabling Environment for a Transition to Clean Steam Generation in Industries	1. Gaurav Joshi , Ministry of Heavy Industries 2. Sandeep Verma , (Accredited Auditor, BEE) Bharat Petroleum 3. V.K Verma , Ministry of MSME 4. AK Anand , Uttar Pradesh Pollution Control Board Moderator: Dr. Chandra Bhushan
4:50 PM – 5:00 PM	Summary	iFOREST
	Vote Of Thanks	Sh. Sandeep Gupta Director Boilers & Chief Inspector of Factories, Uttar Pradesh
5:00 PM - 5:10 PM	Felicitation	
5:10 PM ONWARDS	Networking followed by High Tea	