SEPTEMBER 12 | SHERATON, NEW DELHI, INDIA

INDIA POWER FORUM 2025

Clean Coal-Fired & Industrial Power Edition

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Organized By:

Krishnan & Associates

Innovative Solutions for the Energy Industry

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REIGNITE. RECONNECT. REINVENT.

India is doubling down on coal-fired generation to meet rising energy demand and ensure grid reliability — creating urgent opportunities for global technology providers to deliver solutions that improve efficiency, reduce emissions, and extend asset life.

India Power Forum is your gateway to engage directly with Indian utilities, industrial power users, and plant operators — all seeking proven innovations to modernize their thermal fleets.

Join us for one exclusive day of technical exchange, thought leadership, and high-value networking at a critical moment for India's power sector.

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Innovative Solutions for the Energy Industry

INDIA POWER FORUM

Reviving Coal-Fired Power with Global Innovation

India is at a critical crossroads in its energy transition journey. While renewable energy continues to grow, the immediate and near-term reality is a renewed reliance on coal-fired power to meet surging electricity demand. With record-breaking consumption, increasing industrial growth, and the intermittent nature of renewables, coal remains the backbone of India's power supply — and that isn't changing anytime soon.

To ensure grid stability, support economic growth, and avoid power shortages, India is ramping up investment in thermal generation. Over 88 GW of new coal-fired capacity is in the pipeline, alongside life extension, modernization, and emissions control upgrades to existing fleets.

Yet, over the past decade, many global OEMs and technology providers deprioritized India due to slowing coal investments. As a result, Indian power generators have faced a growing technology and services gap — one that now presents a major opportunity for global solution providers.

India Power Forum aims to bridge that gap.

Organized by Krishnan & Associates, India Power Forum is a focused one-day event — taking place in New Delhi on September 12th — dedicated to bringing together Indian utilities, plant operators, EPCs, and global suppliers of cutting-edge thermal technologies.

The conference will showcase solutions that improve reliability, availability, environmental performance, digital operations, and plant safety — all with the goal of lowering forced outage rates and optimizing thermal generation for India's next phase of growth.

India Power Forum is more than a conference. It's a re-connection point — reviving knowledge sharing, rebuilding trust, and fostering supplier partnerships between India's thermal power sector and the world's most innovative technology leaders.

Ravi Krishnan

Managing Director,
Krishnan & Associates, Inc.

Krishnan & Associates
Innovative Solutions for the Energy Industry

EVENT DETAILS

Join us at India Power Forum for a high-impact in-person event:

Friday, September 12, 2025
Sheraton, New Delhi

District Centre, Sector 6, Saket
New Delhi 110017, India

Full-day event with complimentary refreshments and lunch provided.

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CONFERENCE AGENDA

Topics & Speakers list on Page 7-10

9:00 AM – 10:00 AM	Registration & Networking
10:00 AM – 11:30 AM	Morning Technical Sessions (Three sessions)
11:30 AM – 12:00 PM	Networking Break
12:00 PM – 1:30 PM	Midday Technical Sessions (Three sessions)
1:30 PM – 2:30 PM	Complimentary Networking Lunch
2:30 PM – 4:30 PM	Afternoon Technical Sessions (Four sessions)
4:30 PM – 6:00 PM	Q&A and Evening Networking Reception

LEARN ABOUT:

- Combustion Optimization
- Anti-Slagging
- Boiler Upgrades
- Fuel Optimization
- Multi-Pollutant Control
- CO_2 Reduction
- Heat Rate Improvement
- Forced Outage Reduction
- Reliability & Availability
- Asset Life Extension
- AI & ML Analytics
- Digital Twin & APM
- Operational Efficiency
- Decarbonization
- High ROI Performance Gains

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CONFERENCE TRACKS

Advancing India's Coal & Industrial Power Performance

India Power Forum is built around core innovation themes that directly address the operational challenges faced by Indian coal-fired & industrial power plants today

1	**Boiler and Combustion Optimization** Enhancing combustion efficiency, reducing slagging, and improving thermal performance across diverse coal types.
2	**Digitalization, AI & ML and Predictive Analytics** Leveraging data, AI, Asset Performance Management (APM) and digital twins to reduce forced outages, improve reliability, and optimize plant operations.
3	**NOx, SOx, and Mercury Emissions Control** Deploying advanced emissions control systems to meet regulatory standards and lower environmental impact.
4	**Particulate and Hazardous Emissions Reduction** Improving ESP, baghouse, and filtration systems to reduce particulate matter and hazardous air pollutants.
5	**Heat Recovery and Energy Efficiency** Recovering flue gas and waste heat to boost overall plant efficiency and reduce operational costs.
6	**Corrosion, Fouling, and Tube Protection** Extending asset life with protective coatings and cladding solutions for critical boiler components.
7	**Fuel Handling and Material Flow Optimization** Improving coal and biomass fuel delivery systems for greater precision, safety, and throughput.
8	**Wastewater, Ash, and Environmental Compliance** Mitigating environmental risks with containment, treatment, and ash handling technologies.
9	**Carbon Capture and Decarbonization Technologies** Exploring post-combustion CO_2 capture and solid sorbent systems for low-carbon coal generation.
10	**Automation and Control Systems** Modernizing plant control systems with smart automation and AI-driven diagnostics.
11	**Boiler and Turbine Upgrades** Revamping legacy systems with advanced thermal, mechanical, and efficiency-focused upgrades.
12	**Supercritical and Ultra-Supercritical Technology** Deploying next-gen high-efficiency designs to maximize output while minimizing emissions.
13	**Biomass Co-Firing & Grate Firing Technologies** Exploring flexible biomass integration and modern grate firing solutions to enhance fuel diversity, reduce carbon intensity, and extend the operational life of existing coal assets.

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MODERATOR & ORGANIZER

Ravi Krishnan
Managing Director

Ravi Krishnan is Managing Director of Krishnan & Associates, a global energy consultancy collaborating with over 400 OEMs and technology providers worldwide, including GE Vernova, ABB, Schneider Electric, Parker, Sumitomo SHI FW, Oracle, and Baker Hughes. He is recognized for his expertise in energy marketing, strategy, analytics, and business development, and is a key presence at PowerGen and DistribuTech conferences.

Ravi has played a pivotal role in launching over 50,000 MW of thermal and renewable energy assets in India and has served as an advisor to major industry leaders such as NTPC, Adani, Tata, L&T, and ISGEC. His work spans renewable energy, grid modernisation, CO_2 capture, hydrogen, digitalization, and broader energy transition issues worldwide.

He also contributed to U.S.–India decarbonization policy as an advisor to Secretary John Kerry through a key white paper. Prior to founding K&A, Ravi co-founded several clean energy technology start-ups, including an innovative emissions control technology for stationary and mobile applications, which was sold to Fortune 500 exhaust system integrator Tenneco Automotive.

Who Should Attend: Electricity Generators and Utilities, Coal-Fired Power Plants, Industrial Facilities, Cement and Steel Manufacturers, Refineries, Architects and Engineers, Distributed Power Producers, AI and Data Center Developers and Operators, and EPC Companies.

SPEAKERS

Hans Georg Conrads
CEO

PROMECON
we focus on your process

Topic 1: Enhancing Operational Flexibility in Coal-Fired and Industrial Power Plants through Advanced Gas Flow Monitoring

- India's rising power demand keeps coal and industrial plants vital, but they must adapt for efficiency, flexibility, and emissions compliance.
- Advanced airflow and combustion control improve mill performance, balance operations, and cut inefficiencies under variable loads.
- Case studies show how these measures support regulation compliance and renewable integration.

Topic 2: Advancing Cement Plant Efficiency: Digital Gas Flow Measurement in High-Dust Environment

- Cement production requires massive gas flows, with fan systems driving high energy use and efficiency challenges.
- Digital gas flow measurement enhances accuracy, ensuring process stability, reduced energy consumption, and improved clinker quality.
- Case studies highlight applications across mills, coolers, and ducts, showing clear gains in efficiency, compliance, and performance.

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Krishnan & Associates
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Robert Santangeli

Vice President of Engineering and Operations

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Topic 1: Reducing Slagging and Optimizing Boiler Performance in India's Coal-Fired & Industrial Power Plants through Targeted Fuel Additive Programs

- India's coal plants face slagging, fouling, and derating challenges when firing diverse, lower-cost fuels.
- Targeted additive programs enable greater fuel flexibility, cut deposits, reduce derate hours, improve heat rate, and extend cleaning intervals.
- Case studies show quick payback with higher output, better reliability, and compliance with emissions standards.

Topic 2: Improving DeNOx Performance and Combustion Efficiency with Advanced Monitoring Technologies

- Coal, industrial, and process plants must cut emissions, improve heat rate, and strengthen DeNOx performance under stricter regulations and rising fuel costs.
- Multi-point gas analyzers provide real-time CO, NOx, O_2 data to optimize combustion and SCR/SNCR efficiency.
- Case studies show reliable, cost-effective performance in boilers, furnaces, and kilns, even with challenging fuels.

Viswanath Akella

Senior Manager, Thermal Design & Business Development of HRSGs

Babcock Power

Optimizing Combustion & Cutting NOx: Advanced RPI Burner Solutions for Power Plants

- Basics of the process of combustion
- Introduction and advantages of RPI make LOW NOx Burners
- Introduction and advantages to RPI make LOW NOx Burners fitted with Over Fire Air compartments

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Jose A. Martinez

CEO

ADEX

Self-Tuning AI Control: Enabling Compliance with CEA's Flexibility Requirements in India's Coal-Fired Power Plants

- India's coal plants face new CEA flexibility mandates and fuel quality challenges, while costly hardware retrofits remain impractical.
- Advanced AI-based control adapts in real time to fuel and load changes, enabling faster ramping, lower minimum loads, and improved stability.
- Case studies show digital optimization helps plants meet compliance and flexibility needs in a renewable-heavy grid.

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Jan Andersson

Director, Market Development

Sumitomo SHI FW

Long-Duration Energy Storage (LDES) & Decarbonization for India's Power System

- India's grid must integrate high renewables while ensuring reliability, affordability, and competitiveness.
- Long-duration energy storage (LDES), especially Liquid Air Energy Storage, provides 8–20-hour capacity for peak shifting, stability, and firm 24×7 supply with strong lifecycle economics.
- Case studies highlight revenue stacking, industrial integration, and procurement pathways, positioning LDES within India's broader decarbonization roadmap.

Ansha Naji

Founder and CEO

ZEROWATT Take Charge

Beyond Monitoring: AI-Powered Digital Brain Driving Efficiency in Energy-Intensive Industries

- Significant Cost Savings – Delivers up to 30% energy-cost reduction with ROI in under six months.
- Always-On Intelligence – Functions as a 24×7 digital energy expert, continuously detecting inefficiencies and risks.
- Operational Reliability – Reduces unplanned outages and equipment failures through proactive diagnostics.
- Sustainable Decarbonisation – Cuts emissions while enabling industries to improve efficiency without disrupting production.

Amrit Halder

Vice President and Head – Engineering Excellence Centre (Boilers & APC Equipment)

ISGEC

Combustion Modification for NOx Reduction Using Primary Measures

- Indian coal plants must meet the 450 mg/Nm³ NOx standard with cost-effective solutions.
- Primary measures—advanced combustion controls, low NOx burners, overfire air, and windbox modifications—minimize NOx at the source.
- Case studies from 150–600 MW units show improved performance, compliance, and lifecycle economics through practical combustion system modifications.

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Dr.Vijay Gupta
Head of Optimization
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Machine Learning–Enhanced Decision Model for Optimizing Coal Supply Chains in Cement and Thermal Power Plants

- Holistic Optimization Model – A multi-period Mixed-Integer Linear Programming (MILP) framework is developed to optimize coal procurement, transport, inventory, and contract compliance in thermal power plants.
- Integrated Decision-Making – The model simultaneously determines sourcing, transport routes, fuel mixes, and storage strategies under capacity, demand, and contractual constraints.
- Practical Business Impact – Scenario analysis and KPI monitoring reveal cost savings of up to 0.5% of total landed costs, highlighting measurable economic benefits.
- Scalable, Real-World Application – By combining mathematical modeling with business intelligence tools, the approach enhances efficiency, agility, and cost-effectiveness in coal logistics for thermal generation.

Arunkumar Jayapragash
Head of Engineering – Boilers
Babcock Power

Babcock Power APAC Pvt. Ltd.'s Capabilities - Boiler Services & Upgrades

- Thermal power remains central to India's electricity mix, but plants face pressure to cut fuel use, emissions, and heat rates within existing infrastructure.
- Optimizing boiler and combustion systems improves efficiency, air-to-fuel ratios, and compliance with emission norms.
- Proven engineering approaches minimize unburnt carbon losses and reduce NOx emissions.

Scott Daugherty
SVP, Chief Operating Officer
CORMETECH.

Advanced SCR Catalyst Solutions for Coal-Fired & Multi-fuel Fleet

- High-dust SCR catalyst designs minimize pluggage, reduce ash buildup, improve gas flow, and lower SO_2 conversion, with regenerable, recyclable features.
- Erosion-resistant honeycomb geometry and larger hydraulic openings ensure durability and sustained performance under demanding operating conditions.
- Case studies highlight lower lifecycle costs, improved availability, and real-world installation and maintenance experience.

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Stewart Nicholson
CEO

primex

Approach Temperature Control – Proven Value for Dry Scrubber Applications

- Approach temperature control improves dry scrubber performance and lowers costs, relevant for India's emissions control market.
- Case studies in CDS and SDA systems show reliability gains, optimized reagent use, and reduced operating costs.
- Practical insights highlight extended equipment life and improved compliance in coal-fired operations.

Brett Henkel
Co-Founder and VP

Svante

Carbon Capture at Large-Scale Industrial Facilities: Leveraging CCS to Decarbonize and Unlock New Revenue Streams

- Industrial facilities and cement plants face increasing pressure to decarbonize while staying competitive.
- CCS enables deep emissions reduction, regulatory compliance, and integration with evolving energy markets.
- Beyond compliance, CCS unlocks revenue through CO_2 utilization, carbon trading, and low-carbon product opportunities.

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TRUSTED BY GLOBAL & INDIAN INDUSTRY LEADERS

Our past seminars and technical conferences have brought together senior executives, plant managers, engineers, and technology experts from across the global energy value chain — including utilities, OEMs, EPCs, and service providers.

We are proud to have hosted representatives from the following companies:

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INDIA POWER FORUM 2025
A Krishnan Associates Event

GET IN TOUCH

REGISTER NOW

Contact us to confirm your participation and engage with leaders in India's dynamic coal-fired power market. For inquiries reach out to our designated contacts via email, phone, or WhatsApp.

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