

FLEXIBLE OPERATION OF THERMAL PLANTS

4<sup>th</sup>  
EDITION

# FLEX



A Bridge to Decarbonise Energy System

15 - 16 June 2026  
Scope Convention Centre - New Delhi

Organised By



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## - A BRIDGE TO DECARBONISE ENERGY SYSTEM -

India's power sector today stands at an inflection point. With an installed generation capacity of over 520 GW as of January 2026, the country has emerged as one of the world's largest electricity systems. Coal-based thermal power continues to account for nearly 220 GW and remains the backbone of reliable baseload and dispatchable power. At the same time, India's demand trajectory continues to accelerate, with electricity generation already crossing 1,845 billion units in FY 2025–26 and long-term peak demand projected to touch nearly 459 GW by 2035–36. This scale of growth makes thermal power indispensable in the medium term. However, the nature of thermal power's role is undergoing a profound transformation.

India's clean energy ambitions are now reshaping grid operations at an unprecedented pace. The country has already achieved over 283 GW of non-fossil installed capacity, crossing the milestone of 50 percent cumulative installed capacity from non-fossil sources ahead of its 2030 target. Solar and wind are increasingly altering daily dispatch patterns, especially during high solar generation periods when thermal stations are forced to reduce output significantly. As renewable penetration rises further, the challenge is no longer only about adding green capacity—it is about creating a power system that can absorb variable energy while ensuring round-the-clock reliability. Flexible thermal power plants are therefore becoming the bridge between India's renewable ambition and grid security.

This is precisely why thermal flexibilisation has become a national policy priority. The Central Electricity Authority has already laid out a roadmap for coal-based thermal plants to progressively operate at 40 percent minimum technical load by 2030, supported by improved ramping requirements, digital controls, and operational protocols. Recent studies and committee assessments have further reinforced that flexible operation is technically feasible, but it requires structured retrofits, better operator preparedness, and commercial mechanisms to compensate for cycling-related wear and tear. The future of India's thermal fleet will depend on how effectively plants can adapt from traditional baseload stations into agile balancing assets.

However, thermal flexibility in India today must be viewed in the context of multiple converging policy priorities. One of the most significant is biomass co-firing. The Ministry of Power has already mandated biomass pellet co-firing in coal-based thermal plants, starting with 5 percent blending from FY 2024–25 and increasing to 7 percent from FY 2025–26. This policy is not only aimed at reducing emissions, but also at addressing crop residue burning, improving rural income, and promoting circular economy solutions. As of December 2025, more than 72 thermal power plants had already started biomass co-firing, with over 40 lakh metric tonnes of biomass consumed. This demonstrates that thermal plants are no longer just conventional fossil assets; they are increasingly becoming platforms for cleaner fuel integration and environmental co-benefits.

In parallel, India is also beginning to integrate municipal solid waste-derived torrefied fuel and alternative low-carbon fuels into coal plants. This marks an important policy shift toward diversified fuel strategies and resource circularity. Such interventions are expected to play a critical role in lowering emissions intensity while improving fuel resilience. For thermal plants, this means that operational flexibility must now include not just load flexibility, but also fuel flexibility. Flexible Operation of Thermal Plants 2026 shall therefore address how plants can manage combustion dynamics, boiler performance, ash characteristics, emissions control systems, and supply chain readiness in an era of blended fuel operations.

Battery Energy Storage Systems (BESS) and pumped hydro storage are also becoming key pillars of India's power transition. India's generation adequacy plans now envisage massive storage additions over the next decade to manage renewable intermittency and support peak balancing. However, storage deployment at scale will take time, and even as storage grows, thermal plants will remain critical for system inertia, spinning reserves, and reliability during prolonged renewable variability. The future power system will not be built on storage alone; it will depend on hybrid coordination between renewables, storage, hydro, and flexible thermal generation. This makes the discussion around coal-plus-storage integration, thermal-BESS hybrid dispatch, and coordinated ancillary services especially relevant for this year's Flexible Operation of Thermal Plants 2026.

Another critical emerging policy area is green hydrogen and low-carbon industrial decarbonisation. India's National Green Hydrogen Mission is creating a pathway for large-scale green hydrogen production and industrial usage, especially in refining, fertilisers, steel, and hard-to-abate sectors. While hydrogen integration into thermal power generation is still at a nascent stage, it represents an important future pathway for coal fleet decarbonisation, combustion innovation, and blended fuel trials. Over the next decade, thermal plants may increasingly need to explore hydrogen-readiness, flexible burner technologies, carbon intensity reduction measures, and hybrid renewable-linked hydrogen ecosystems. Flexible Operation of Thermal Plants 2026 presents an ideal platform to begin that conversation and prepare thermal stakeholders for the next wave of technological transition.

The significance of Flexible Operation of Thermal Plants 2026 lies in the fact that India is now moving beyond policy intent into the execution phase of power sector transformation. Over the last two editions, the platform successfully helped establish the importance of flexibility and created awareness around operational challenges. This year, the industry needs to move decisively toward actionable solutions. The sector requires clarity on plant retrofits, digital optimisation, advanced process control systems, boiler-turbine stress management, emissions compliance under cycling conditions, commercial compensation frameworks, biomass supply chain readiness, storage coordination, and future low-carbon pathways.

This edition must therefore position itself not merely as a technical event, but as India's flagship strategic platform on the future role of thermal power in a renewable-led grid. It should bring together policymakers, regulators, utilities, generators, load dispatch centres, technology providers, storage developers, fuel innovators, and plant operators to create a shared roadmap for the next decade. Flexible Operation of Thermal Plants 2026 shall help redefine the thermal plant of the future: not as a legacy asset, but as a flexible, cleaner, digitally enabled, and commercially resilient cornerstone of India's energy transition.

The awards segment will further strengthen this mission by recognising plants and organisations that are leading in low-load operations, ramping excellence, biomass co-firing, emissions-compliant flexibility, storage integration, digital innovation, and operational resilience. Such recognition is essential because India's energy transition will ultimately be delivered not only by national targets and policy announcements, but by the day-to-day innovation and performance of engineers, plant teams, and utilities across the country.

India's power future will be determined not only by how much renewable capacity it adds, but by how intelligently it integrates all available resources into one resilient system. Flexible thermal power is no longer just a balancing requirement—it is the foundation on which India's reliable, affordable, and sustainable power future will be built. Flexible Operation of Thermal Plants 2026 is therefore both timely and essential, and has the potential to become the defining industry platform that shapes the next chapter of India's power sector transformation.



## the CONFERENCE

At a time when India is rapidly scaling renewable energy, battery storage, biomass co-firing, and emerging green hydrogen pathways, the role of thermal power plants is undergoing a fundamental transformation. Coal-based plants, which still form the backbone of grid reliability, are now expected to operate more flexibly, efficiently, and sustainably to support India's evolving power system. With rising demand, deeper renewable penetration, stricter emissions norms, and new policy mandates, the sector urgently needs a common platform to address operational challenges, share best practices, align on policy and commercial frameworks, and accelerate adoption of future-ready solutions. This makes the 4th Edition Conference & Awards on Flexible Operation of Thermal Power Plants 2026 not just timely, but a critical industry imperative to support India's reliable and resilient energy transition.

- ✓ Gain strategic insights into India's latest policies, regulations, and market developments shaping thermal flexibility and grid reliability.
- ✓ Learn practical solutions for low-load operations, faster ramping, biomass co-firing, and integration with renewables, BESS, and emerging fuels.
- ✓ Hear real-world case studies and proven best practices from leading thermal power plants and utilities.
- ✓ Engage directly with policymakers, regulators, grid operators, OEMs, and technology providers to address operational and commercial challenges.
- ✓ Benchmark your plant's readiness, explore future-ready technologies, and build partnerships to navigate India's evolving energy transition.

## FOCUSSED COVERAGE ON

- ✓ India's evolving thermal flexibility policy and regulatory roadmap.
- ✓ Low-load operations, ramping, and cycling best practices.
- ✓ Biomass co-firing and cleaner fuel integration strategies.
- ✓ Thermal plant reliability, asset life, and maintenance under flexible regimes.
- ✓ Digitalisation, AI, and advanced control solutions for flexibility.
- ✓ BESS, pumped hydro, and renewable integration with thermal plants.
- ✓ Ancillary services, grid balancing, and dispatch optimisation.
- ✓ Flexibility economics, tariffs, and compensation mechanisms.
- ✓ Future pathways including hydrogen and low-carbon thermal transition.





## India's Evolving Thermal Flexibility Policy & Regulatory Roadmap

- ❑ Latest Ministry of Power and CEA directives on thermal flexibilisation
- ❑ Minimum technical load reduction targets and implementation pathways
- ❑ Grid code updates and dispatch protocols for flexible operations
- ❑ Ancillary services framework and market participation opportunities
- ❑ Policy support mechanisms for retrofit and flexibility investments

## Low-Load Operations, Ramping & Cycling Best Practices

- ❑ Safe operation at 40–55% minimum load levels
- ❑ Improving ramp rates without compromising plant stability
- ❑ Two-shift operations and start-stop optimisation
- ❑ Lessons from pilot projects and successful plant case studies
- ❑ Standard operating practices for flexible dispatch

## Biomass Co-firing & Cleaner Fuel Integration

- ❑ Biomass co-firing mandates and compliance roadmap
- ❑ Fuel blending strategies and combustion optimisation
- ❑ Biomass pellet sourcing and supply chain management
- ❑ Impact on boiler efficiency, ash handling, and emissions
- ❑ Emerging opportunities in alternative fuels and waste-to-energy

## Thermal Plant Reliability, Asset Life & Maintenance

- ❑ Managing boiler and turbine stress under cycling conditions
- ❑ Thermal fatigue monitoring and life assessment techniques
- ❑ Predictive maintenance and condition monitoring tools
- ❑ Strategies to reduce forced outages and improve availability
- ❑ Asset life extension under flexible operations

## Digitalisation, AI & Advanced Control Solutions

- ❑ Advanced process control systems for dynamic operations
- ❑ AI-driven load optimisation and dispatch planning
- ❑ Digital twins for plant performance monitoring
- ❑ Real-time data analytics for efficiency improvement
- ❑ Cybersecure digital upgrades for legacy plants





## BESS, Pumped Hydro & Renewable Integration

- ▣ Role of thermal plants in balancing renewable variability
- ▣ Thermal + BESS hybrid operational strategies
- ▣ Pumped hydro coordination for peak management
- ▣ Managing solar duck curve and evening ramp challenges
- ▣ Renewable forecasting and grid integration tools

## Ancillary Services, Grid Balancing & Dispatch Optimisation

- ▣ Frequency response and reserve management strategies
- ▣ Real-time market participation opportunities
- ▣ Flexible scheduling and economic dispatch
- ▣ System balancing requirements in high-RE scenarios
- ▣ Role of thermal plants in grid resilience

## Flexibility Economics, Tariffs & Compensation

- ▣ Cost implications of cycling and low-load operations
- ▣ Wear-and-tear compensation frameworks
- ▣ Tariff reforms for flexible generation support
- ▣ Revenue opportunities from ancillary services
- ▣ Investment case for flexibility retrofits

## Future Pathways: Hydrogen & Low-Carbon Transition

- ▣ Green hydrogen opportunities for thermal sector
- ▣ Hydrogen blending readiness and pilot projects
- ▣ Low-carbon thermal technologies and retrofits
- ▣ Carbon intensity reduction strategies
- ▣ Thermal plant role in India's net-zero pathway

**FLEX 2026** is designed as a high-impact platform for all key stakeholders shaping the future of India's power sector. The conference will bring together thermal power plant utilities, independent power producers, central and state generation companies, policymakers, regulators, load dispatch centres, renewable energy developers, storage solution providers, OEMs, EPC contractors, technology innovators, fuel solution providers, consultants, and technical experts. It will also be highly relevant for plant heads, O&M leaders, engineering and performance teams, strategy professionals, and decision-makers responsible for reliability, efficiency, flexibility, and future-readiness of thermal assets.



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## Who Should Participate?

### **Power Generation Utilities**

Coal-based thermal power plants, IPPs, central and state generation companies, captive power producers

### **Transmission & Distribution Utilities**

State DISCOMs, transmission utilities, load dispatch centres, grid operators

### **Renewable Energy & Storage Developers**

Solar, wind, hybrid project developers, BESS providers, pumped hydro developers

### **Policy, Regulatory & Government Bodies**

Ministry officials, regulators, CEA, SERCs, SLDCs, policy institutions

### **Technology & Equipment Providers**

OEMs, EPC companies, turbine/boiler manufacturers, automation and digital solution providers

### **Fuel & Sustainability Solution Providers**

Biomass suppliers, alternative fuel providers, hydrogen technology companies, emissions solution providers

### **Operations, Maintenance & Engineering Professionals**

Plant heads, O&M teams, reliability engineers, performance improvement specialists

### **Consultants, Researchers & Technical Institutions**

Energy consultants, technical advisors, research organisations, academic institutions

### **Investors & Project Developers**

Infrastructure funds, lenders, project financiers, strategic investors

### **Industry Associations & Service Providers**

Sector associations, service companies, testing agencies, innovation partners

## Key Functional Profiles

### **Leadership & Strategy**

CXOs, Business Heads, Strategy Leaders, Asset Owners

### **Plant Operations & Maintenance**

Plant Heads, O&M Heads, Shift In-charges, Reliability Managers

### **Engineering & Technical Services**

Chief Engineers, Performance Engineers, Boiler/Turbine Specialists, Asset Management Teams

### **Grid Operations & Dispatch**

Load Dispatch Officials, Grid Controllers, Scheduling & Forecasting Teams

### **Regulatory & Commercial**

Regulatory Affairs Heads, Tariff Specialists, Commercial Managers, Market Analysts

### **Sustainability & Fuel Management**

Biomass Co-firing Leads, Fuel Procurement Teams, Sustainability Managers, Emissions Compliance Experts

### **Digital & Innovation**

Automation Leads, Digital Transformation Heads, AI/Data Analytics Teams

### **Project Development & Planning**

Project Heads, Retrofit Planning Teams, Expansion & Modernisation Teams

### **Policy & Advisory**

Government Officials, Regulators, Policy Advisors, Sector Experts

### **Research & Consulting**

Researchers, Technical Consultants, Knowledge Partners, Industry Analysts



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## SPONSOR NOW

Our aim is to deliver you an event that exceeds your expectations, thus becoming an integrated part of your annual marketing program.

Sponsoring this **FLEX - 2026** will make your company stand out as a leader in this burgeoning industry and will leave a strong impression of your brand in key decision makers minds. Sponsors have an incredible amount of presence and it will not only give your company optimum exposure but also the opportunity for delegates to meet you and your executives to find out more about your role and business opportunities in the sector.

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Profile yourself as **INDUSTRIAL LEADER**, as your corporate logo and profile will be featured prominently in event marketing collaterals

**NETWORKING** with the industries leading Government Officials, Senior Level Delegates and Experts

Achieve **GREATER EXPOSURE** and **BRAND BUILDING** through our partners and much more

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7 Delegate Passes Logo on Brochure Cover Page Logo on Brochure Inside Page Logo on Conference Backdrop Logo on Registration Desk Backdrop Logo on Conference Website Logo on I am Attending Banner Logo on eCONNECT   Attendee Access Portal, Send Meeting Request in eCONNECT (upcoming feature) Corporate Banner in Networking Area Merchandise Distribution Screening of Company Film Circulation of Company Literature Thanking Announcements Speaking Opportunity Panel Discussion Moderator	5 Delegate Passes Logo on Brochure Cover Page Logo on Brochure Inside Page Logo on Conference Backdrop Logo on Registration Desk Backdrop Logo on Conference Website Logo on I am Attending Banner Logo on eCONNECT   Attendee Access Portal, Send Meeting Request in eCONNECT (upcoming feature) Banner in Networking Area Merchandise Distribution Screening of Company Film Circulation of Company Literature Thanking Announcements Speaking Opportunity Panel Discussion Panelist	3 Delegate Passes Logo on Brochure Cover Page Logo on Conference Backdrop Logo on Conference Website Logo on I am Attending Banner Logo on eCONNECT   Attendee Access Portal, Send Meeting Request in eCONNECT (upcoming feature) Circulation of Company Literature Thanking Announcements Panel Discussion Panelist	2 Delegate Passes Logo on Brochure Cover Page Logo on Conference Backdrop Logo on Conference Website Circulation of Company Literature Thanking Announcements	1 Delegate Passes Logo on Brochure Cover Page Logo on Conference Website Circulation of Company Literature Thanking Announcements	Logo on Conference Backdrop Logo on Conference Website Thanking Announcements

### Sponsorship Enquiries

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## Time-Line AGENDA

### Monday, 15 June 2026

08.30 - 09:20 | Registration & Welcome Tea

09:20 - 09:30 | Organiser Welcome Address

09:30 - 11:00

**Achieving Lower Minimum Technical Load: Practical Pathways to Stable 40–55% Operation**

**Key Discussion Areas:** Combustion stability at low load - Mill combinations and flame management - Low-load boiler tuning and draft control - APC interventions for stable operation - Best practices from operating plants

11:00 – 11:30 | Networking Tea Break

11:30 – 13:00

**Faster Ramping & Two-Shift Operations: Enhancing Thermal Plant Responsiveness**

**Key Discussion Areas:** Improving ramp rates without compromising equipment - Boiler-turbine coordination during load changes

Start-up / shutdown optimisation - Thermal cycling protocols - Real case studies on two-shift operations

13:00 – 14:00 | Networking Lunch Break

14:00 – 16:00

**Managing Equipment Stress Under Flexibility: Protecting Boiler, Turbine & BOP Health**

**Key Discussion Areas:** Thermal fatigue and life consumption - Critical equipment stress hotspots - Tube leak prevention strategies - Vibration and thermal expansion monitoring - Reliability-centred maintenance under cycling

16:00 – 16:30 | Networking Tea Break

16:30 – 18:00

**Digitalisation for Flexible Operations: APC, AI & Real-Time Plant Optimisation**

**Key Discussion Areas:** Advanced process control for low-load stability - AI-based combustion optimisation - Predictive maintenance for cycling plants - Digital twins and real-time diagnostics - Flexibility performance benchmarking

### Tuesday, 16 June 2026

08.30 - 09:30 | Registration & Welcome Tea

09:30 - 11:00

**Fuel Flexibility for Flexible Operations: Biomass Co-firing & Alternative Fuels**

**Key Discussion Areas:** Biomass co-firing impact on low-load operations - Combustion behaviour under blended fuels - Slagging / fouling management - Fuel handling and storage readiness - Future low-carbon fuel opportunities

11:00 – 11:30 | Networking Tea Break

11:30 – 13:00

**Thermal Plants as Grid Balancing Assets: Renewable Integration, Reserves & Ancillary Services**

**Key Discussion Areas:** Thermal role in managing solar / wind variability - Managing duck curve and steep ramps - Reserve support and frequency response - Grid dispatch and renewable forecasting - Thermal + storage coordination

13:00 – 14:00 | Networking Lunch Break

14:00 – 16:00

**Commercial Challenges of Flexibility: Cost, Compensation & Market Opportunities**

**Key Discussion Areas:** Cost of low-load operation and cycling - Heat rate and auxiliary consumption impacts - Wear-and-tear compensation models - Tariff reforms for flexibility - Ancillary services revenue streams

16:00 – 16:30 | Networking Tea Break

16:30 – 17:30

**The Ceremony: Power Plant Performance Awards - 2026**

17:30 - 17:35 | Vote of Thanks & End of Conference



## CALL FOR SPEAKERS OPEN

If you are interested in speaking at the **Flexible Operation of Thermal Plants 2026** conference we are inviting you to put forward your presentation proposal for review by our international conference advisory board. Please note that not all submissions can be accepted but all will be considered ahead of the final submission deadline.

We encourage proposals from speakers with deep technical and practical expertise in all aspects of **Flexible Operation of Thermal Plants**

**Deadline For Paper Submission Friday, 15 May 2026**

### - CALL FOR SPEAKERS SUBMISSION PROCESS -

Proposals must be submitted by online speaker registration mode. If selected to speak, all presenters will be required to submit a presentation in PowerPoint format at least 2 weeks in advance of the conference to ensure guidelines are met.

If you have any questions, please contact

**Ashwinkumar Khatri | Director General**  
**dg@missionenergy.org | +91 98339 51556**





## Power Plant Performance Awards - 2026



Recognising Excellence in Operational Performance, Reliability & Future-Ready Power Generation

For over a decade, the Power Plant Performance Awards have served as one of the most respected industry benchmarks for recognising excellence in thermal power generation. Organised alongside FLEX 2026, the awards celebrate plants and utilities that have demonstrated outstanding operational performance, efficiency improvement, reliability, innovation, and adaptability in an increasingly dynamic power sector.

As India transitions toward a more flexible, cleaner, and digitally enabled power system, the 2026 edition will place special emphasis on recognising plants that are not only performing efficiently today, but are also preparing for the operational demands of tomorrow.

- ✓ Operational excellence in plant performance, reliability, and efficiency
- ✓ Leadership in flexible operations, low-load management, and ramping capability
- ✓ Innovation in digitalisation, automation, and performance optimisation
- ✓ Excellence in sustainability, biomass co-firing, and resource efficiency
- ✓ Best practices in asset management, safety, and future-ready thermal operations

### National Recognition & Industry Benchmarking

The awards offer a prestigious national platform to showcase your plant's operational achievements and benchmark your performance against leading utilities and power producers across the country. Recognition through this platform enhances your organisation's standing as a high-performing and future-ready power generator.

### Showcase Innovation, Best Practices & Leadership

Participating in the awards enables organisations to highlight successful initiatives in flexible operations, efficiency improvement, digitalisation, sustainability, and reliability. It provides an opportunity to demonstrate leadership in adopting innovative solutions and best practices that can inspire the wider industry.

### Boost Team Motivation & Strengthen Stakeholder Confidence

Industry recognition not only motivates plant teams and operational staff by acknowledging their hard work and achievements, but also strengthens confidence among management, regulators, investors, technology partners, and customers. Winning or being shortlisted reinforces your organisation's commitment to excellence, continuous improvement, and long-term sector leadership.





## Who Should Nominate?

- ✓ Coal-based thermal power generation utilities (central, state, private, and captive plants)
- ✓ Independent Power Producers (IPPs) and merchant thermal power plants
- ✓ Lignite and gas-based power plants with flexible operation initiatives
- ✓ Plant O&M teams, performance improvement, and engineering departments
- ✓ Utilities implementing biomass co-firing, fuel transition, and sustainability initiatives
- ✓ Plants adopting digitalisation, automation, APC, and predictive maintenance solutions
- ✓ Units undertaking flexibility retrofits, low-load optimisation, and ramping improvements
- ✓ Asset management and reliability teams driving plant performance excellence
- ✓ Technology solution providers / OEMs in partnership with plant utilities for project-based nominations
- ✓ Service providers and EPC partners supporting operational excellence initiatives

## Why Participate?

- ✓ Gain national recognition for your plant's operational excellence and performance achievements.
- ✓ Benchmark your plant's performance against leading utilities and industry peers.
- ✓ Showcase successful initiatives in flexibility, efficiency, and reliability improvement.
- ✓ Highlight innovations in digitalisation, automation, and advanced plant optimisation.
- ✓ Demonstrate leadership in biomass co-firing, sustainability, and cleaner operations.
- ✓ Strengthen your organisation's brand visibility and industry positioning.
- ✓ Boost employee morale by recognising plant teams and operational excellence.
- ✓ Build greater confidence among regulators, investors, and key stakeholders.
- ✓ Share best practices and success stories with the wider power sector.
- ✓ Position your plant as a future-ready leader in India's evolving energy transition.



## the JURY



## Evaluation Process

To ensure transparency, technical rigour, and credibility, the Power Plant Performance Awards 2026 will follow a structured multi-stage evaluation process led by an independent jury panel comprising senior power sector experts, former utility leaders, technical specialists, and industry advisors.

A 10 slide presentation must be submitted detailing the work done under the selected award category within a week from the date of online registration. Please attach copies of all supporting documents of claims made in the presentation. Only commissioned and live projects will be considered.

### 1. Nomination Review & Technical Screening

All nominations will undergo an initial review to assess eligibility, category relevance, completeness of submission, and supporting documentation. A technical screening committee will shortlist entries based on key performance indicators, initiative impact, and overall merit.

### 2. Detailed Assessment & Jury Evaluation

Shortlisted nominations will be evaluated by an independent jury panel comprising senior industry experts, utility leaders, and technical specialists. The assessment will focus on operational performance, innovation, reliability, sustainability, flexibility achievements, and measurable business impact.

### 3. Final Validation & Winner Selection

Based on the jury scores and supporting evidence, the final winners will be selected in each category. Where required, the jury may seek clarifications or additional information to ensure transparency, fairness, and credibility in the final results.



**- Scoring Matrix -**

**Operational Performance & Reliability – 35%**

Assessment of plant availability, generation performance, reliability, forced outage reduction, and overall operational excellence.

**Flexible Operations & Efficiency Improvement – 30%**

Evaluation of low-load operation capability, ramp rate performance, cycling readiness, heat rate optimisation, and auxiliary power reduction initiatives.

**Innovation, Digitalisation & Sustainability – 20%**

Review of digital transformation, automation, predictive maintenance, biomass co-firing, emissions reduction, and resource efficiency initiatives.

**Leadership, Safety & Replicability – 15%**

Assessment of safety practices, team capability, project execution, scalability of initiatives, and potential for wider industry adoption.

**- IMPORTANT DATES TO REMEMBER -**

<b><u>Nomination Opens</u></b>	<b><u>Nomination Closes</u></b>	<b><u>Winners Intimated</u></b>	<b><u>Winners Awarded</u></b>
20 April 2026	29 May 2026	08 June 2026	15 June 2026





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## - AWARD CATEGORIES -

<p><b>1. Best Regulatory Excellence in Coal-Based Power Generation</b></p> <p>Why Nominate: Showcase excellence in managing large-scale generation assets with high reliability, efficiency, and operational consistency.</p> <p>Evaluation Criteria: PLF, availability, forced outage rate, heat rate, APC, environmental compliance.</p>	<p><b>2. Best Performing Thermal Power Plant 1500-3000 MW</b></p> <p>Why Nominate: Highlight strong station performance and operational leadership in large utility-scale plants.</p> <p>Evaluation Criteria: Generation performance, outage management, efficiency, reliability, safety.</p>	<p><b>3. Best Performing Thermal Power Plant 500-1500 MW</b></p> <p>Why Nominate: Recognise plants delivering strong performance and optimisation at mid-sized scale.</p> <p>Evaluation Criteria: PLF, APC, heat rate, availability, O&amp;M excellence.</p>
<p><b>4. Best Performing Thermal Power Plant below 500 MW</b></p> <p>Why Nominate: Demonstrate excellence in efficiency and reliability for smaller stations.</p> <p>Evaluation Criteria: Plant performance, reliability, cost optimisation, resource use.</p>	<p><b>5. Best Performing Captive / Industrial Thermal Power Plant</b></p> <p>Why Nominate: Showcase dependable power support for industrial operations with high efficiency.</p> <p>Evaluation Criteria: Reliability, fuel efficiency, uptime, cost optimisation.</p>	<p><b>6. Best Performing Gas / Lignite Based Power Plant</b></p> <p>Why Nominate: Highlight excellence in alternative thermal generation technologies.</p> <p>Evaluation Criteria: Availability, efficiency, flexibility, emissions.</p>
<p><b>7. Excellence in Low Load Flexible Operations</b></p> <p>Why Nominate: Recognise plants successfully operating at lower technical minimum loads.</p> <p>Evaluation Criteria: Minimum load achieved, stability, efficiency, safety.</p>	<p><b>8. Excellence in Fast Ramp Rate &amp; Dynamic Response</b></p> <p>Why Nominate: Showcase capability to support rapid grid balancing.</p> <p>Evaluation Criteria: Ramp rates, response time, dispatch adherence.</p>	<p><b>9. Excellence in Cycling &amp; Two-Shift Operations</b></p> <p>Why Nominate: Recognise operational excellence in frequent start-stop and cyclic duties.</p> <p>Evaluation Criteria: Start-up optimisation, equipment stress control, reliability.</p>
<p><b>10. Best Flexible Operations Transformation Initiative</b></p> <p>Why Nominate: Highlight impactful flexibility improvement projects.</p> <p>Evaluation Criteria: measurable improvement, scalability, ROI.</p>	<p><b>11. Excellence in Thermal Support for Renewable Integration</b></p> <p>Why Nominate: Showcase thermal role in enabling renewable energy absorption.</p> <p>Evaluation Criteria: renewable balancing support, dispatch flexibility.</p>	<p><b>12. Excellence in Grid Balancing &amp; Ancillary Services</b></p> <p>Why Nominate: Recognise support to grid stability and reserves.</p> <p>Evaluation Criteria: reserve response, frequency support, compliance.</p>
<p><b>25. Excellence in O&amp;M, Availability &amp; Outage Management</b></p> <p>Why Nominate: Showcase superior plant upkeep and uptime.</p> <p>Evaluation Criteria: availability, outage planning, safety.</p>	<p><b>26. Excellence in Biomass Co-firing Implementation</b></p> <p>Why Nominate: Highlight successful biomass integration.</p> <p>Evaluation Criteria: blend %, combustion, sustainability.</p>	<p><b>27. Best Fuel Flexibility / Alternative Fuel Initiative</b></p> <p>Why Nominate: Recognise innovative fuel transition practices.</p> <p>Evaluation Criteria: fuel substitution, operational impact.</p>
<p><b>28. Excellence in Emissions Reduction &amp; Environmental Performance</b></p> <p>Why Nominate: Showcase environmental leadership.</p> <p>Evaluation Criteria: emissions reduction, compliance.</p>	<p><b>29. Best Water Conservation &amp; Resource Efficiency Initiative</b></p> <p>Why Nominate: Highlight sustainable water/resource use.</p> <p>Evaluation Criteria: water savings, recycling.</p>	<p><b>30. Best Ash Utilisation / Waste Management Initiative</b></p> <p>Why Nominate: Recognise circular waste practices.</p> <p>Evaluation Criteria: ash utilisation %, disposal improvements.</p>
<p><b>31. Best Decarbonisation Readiness Initiative</b></p> <p>Why Nominate: Showcase future low-carbon preparedness.</p> <p>Evaluation Criteria: roadmap, pilots, carbon reduction.</p>	<p><b>32. Best Digital Transformation in Thermal Power Operations</b></p> <p>Why Nominate: Highlight digital-led operational improvements.</p> <p>Evaluation Criteria: digital deployment, impact.</p>	<p><b>33. Best AI / APC-Based Performance Optimisation Initiative</b></p> <p>Why Nominate: Recognise smart optimisation success.</p> <p>Evaluation Criteria: AI/APC benefits, efficiency gains.</p>
<p><b>34. Best Innovation in Thermal Flexibility Solutions</b></p> <p>Why Nominate: Showcase breakthrough operational solutions.</p> <p>Evaluation Criteria: novelty, impact, scalability.</p>	<p><b>35. Best Technical Advisory / Engineering Excellence Initiative</b></p> <p>Why Nominate: Highlight technical leadership and advisory impact.</p> <p>Evaluation Criteria: technical value, implementation outcomes.</p>	<p><b>36. Excellence in Industry Partnership &amp; Sector Leadership</b></p> <p>Why Nominate: Recognise collaborative leadership advancing the sector.</p> <p>Evaluation Criteria: partnerships, sector impact, knowledge sharing.</p>
<p><b>13. Best Grid Reliability &amp; Dispatch Management Initiative</b></p> <p>Why Nominate: Highlight initiatives improving system reliability.</p> <p>Evaluation Criteria: outage reduction, scheduling accuracy.</p>	<p><b>14. Best Load Dispatch &amp; Scheduling Excellence</b></p> <p>Why Nominate: Showcase superior load management and coordination.</p> <p>Evaluation Criteria: forecast accuracy, schedule adherence.</p>	<p><b>15. Best Renewable Forecasting &amp; Grid Coordination Initiative</b></p> <p>Why Nominate: Recognise excellence in RE forecasting integration.</p> <p>Evaluation Criteria: forecast quality, curtailment reduction.</p>
<p><b>16. Excellence in Flexible Transmission Support</b></p> <p>Why Nominate: Highlight transmission solutions enabling flexibility.</p> <p>Evaluation Criteria: grid support, congestion management.</p>	<p><b>17. Best Thermal + Renewable Hybrid Integration Project</b></p> <p>Why Nominate: Showcase integrated hybrid operating models.</p> <p>Evaluation Criteria: project innovation, operational gains.</p>	<p><b>18. Best Thermal + BESS Integration Initiative</b></p> <p>Why Nominate: Recognise storage-enabled flexibility innovation.</p> <p>Evaluation Criteria: BESS performance, dispatch support.</p>
<p><b>19. Best Pumped Hydro Coordination for Grid Flexibility</b></p> <p>Why Nominate: Highlight coordinated balancing solutions.</p> <p>Evaluation Criteria: peak support, coordination efficiency.</p>	<p><b>20. Excellence in Hybrid Grid Stability Solutions</b></p> <p>Why Nominate: Showcase advanced stability enhancement practices.</p> <p>Evaluation Criteria: system resilience, reliability outcomes.</p>	<p><b>21. Excellence in Boiler Reliability &amp; Performance</b></p> <p>Why Nominate: Recognise strong boiler uptime and efficiency.</p> <p>Evaluation Criteria: tube leak reduction, efficiency, outages.</p>
<p><b>22. Excellence in Turbine Efficiency &amp; Reliability</b></p> <p>Why Nominate: Showcase turbine performance excellence.</p> <p>Evaluation Criteria: heat rate, vibration control, reliability.</p>	<p><b>23. Best Predictive Maintenance &amp; Asset Health Initiative</b></p> <p>Why Nominate: Highlight proactive asset management.</p> <p>Evaluation Criteria: diagnostics, downtime reduction.</p>	<p><b>24. Best Renovation, Modernisation &amp; Life Extension Project</b></p> <p>Why Nominate: Recognise impactful upgrade projects.</p> <p>Evaluation Criteria: life extension, performance gains.</p>



**FLEX** 

A Bridge to Decarbonise Energy System

15 - 16 June 2026  
Scope Convention Centre - New Delhi**- REGISTRATION PROCESS -****1****Online Registration**

To participate as DELEGATE / nominate for AWARDS / be a SPEAKER fill and submit online form from the links below.

**DELEGATE  
Registration**

Indian Delegate:  
INR 26500 + 18% GST

Overseas Delegate:  
USD 650

Group Discount  
5% for 3+ Participants  
10% for 7+ Participants

**Register NOW****2****Receive Invoice**

We will email you an digitally signed invoice along with necessary required documents for processing the payment. The original invoice (only on request) shall be sent to your postal address

**AWARD  
Nomination**

Indian Company:  
INR 36500 + 18% GST

Overseas Company:  
USD 950

Category Discount  
5% for 2+ categories  
10% for 5+ categories

**Nominate NOW****3****Make Payment**

Make online payment via our secured payment gateway using your credit card or NEFT or send Cheque / DD to our postal address.

**SPEAKER  
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Overseas Speaker:  
USD 950

**Register NOW****Conference Venue:**

**Scope Convention Centre**  
**CGO Complex, Lodhi Road**  
**Pragati Vihar**  
**New Delhi - 110003**



# Organiser



## The Organisation

Mission Energy Foundation is a persistent, private, not-for-profit endeavour based in Mumbai, India. We are registered under sec 25 (1), 80G & 12AA respectively.

## The Beginning

A single man army with its mission to build platforms of discussion, exchange knowledge among industry professionals on core issues pertaining to growing energy sector.

## GOAL

Mission Energy Foundation is a micro-enterprise initiative that strives to spread knowledge in the globalising energy sector. We educate and spread technology awareness through ongoing contacts and discussions with the public and industry concerning what the future of the growing energy sector should be...

## Today

A human asset working together as one endeavour that expertise in organising and delivering successful international summits involving who's who from Entrepreneurs to Academicians to Government Authorities to Technology Providers to Consultants to Industry Professionals from the growing energy sector globally.

## UPCOMING EVENTS



### Mission Energy Foundation (A not-for-profit Organisation)

003, B-16, Sector 1, Shanti Nagar, Mira Road, Thane, Maharashtra - 401107



[HTTPS://MISSIONENERGY.ORG/FLEX2026/](https://MISSIONENERGY.ORG/FLEX2026/)



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