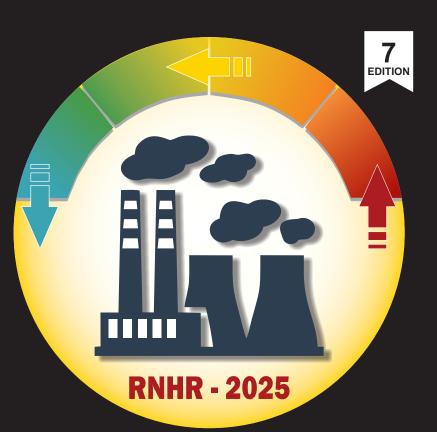
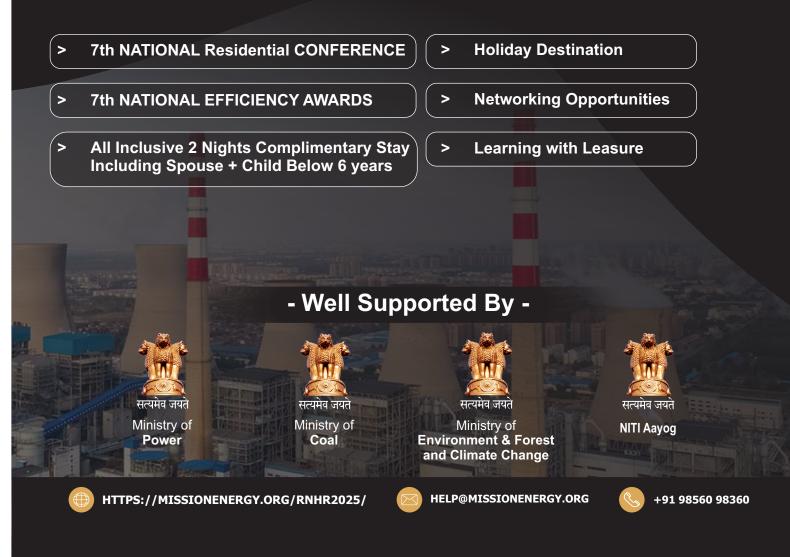
#### **Organised By**



# National Recognition to Power Stations for Performance & Efficiency



09 - 10 March 2025 Aralea Beach Resort, Morjim - GOA





# Reducing Net Heat Rate - 2025

#### **Exclusive Conference & AWARDS for Thermal Power Plants**

#### **Two Days Exclusive Residential Conference**

The prime focus of the conference is to bring together the major stakeholders and decision makers to introduce the thermal power industry with the latest technologies in operating Heat Rate of plants and maintaining global benchmarks.

#### **National Efficiency Awards**

The award programme intended to foster the competitive spirit amongst various power stations so as to encourage them to improve performance in all spheres of their working & help in evolving benchmarks for various performance indices.





# BACKGROUND

Power is one of the most critical components of infrastructure crucial for the economic growth and welfare of nations. The existence and development of adequate infrastructure is essential for sustained growth of the Indian economy. India's power sector is one of the most diversified in the world. Sources of power generation range from conventional sources such as coal, lignite, natural gas, oil, hydro and nuclear power to viable non-conventional sources such as wind, solar, and agricultural and domestic waste. Electricity demand in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, a massive addition to the installed generating capacity is required.

The power sector in India has seen a continuous development in the advancements of technologies to increase efficiency and productivity, to better performance. The assessment of productivity and performance of a thermal power plant could be carried out by monitoring heat rate, which signifies the performance of a power plant in terms of the thermal energy consumed for production of one unit of electricity. Lowering the heat rate of a thermal power plant better is the performance. Heat Rate is one of the critical factors that contribute towards gross margin for thermal power plants. Heat rate represents fuel consumption rate for specific levels of power plant output and inverse of plant efficiency. It has direct impact on power generation cost. Reduction in Heat rate have positive impact and reduction generation costs, contributing to the operating margin of power generation companies.

Traditional ways to improve the heat rate involve large capital investments like the introduction of variable frequency drives, intelligent soot blowing systems, automated drains etc. These investments, combined with Operation & maintenance improvements like cycle optimization, arresting of leakages and operating the equipment at full performance, are typically applied today by power generation plants. The heat rate of a coal-fired power plant represents the amount of heat, typically in Btus, needed to generate 1 kilowatt-hour (kWh) of electricity. Typical units for heat rate are Btu/kWh. Heat rate is the heat energy input per unit of electrical energy output, or fuel consumption rate for specific levels of power plant output. Heat rate is also the inverse of plant efficiency. Lower is better.

Past interventions have improved the operating performance of power plants. Power plant efficiency, typically characterized by heat rate has been addressed through various guidelines/regulations introduced over the years. National and state level institutions have been created to ensure compliance so that performance levels are maintained in the sector.

With this in mind, we Mission Energy Foundation shall host its 7th Annual Conference & Awards Reducing Net Heat Rate on 09 - 10 March 2025 at Aralea Beach Resort, Morjim - Goa

The conference aims at knowledge sharing and problem solving for thermal power plants in India. The prime focus of the conference is to bring together the major stakeholders and decision makers to introduce the thermal power industry with the latest technologies in operating Heat Rate of plants and maintaining global benchmarks.









# WHY ATTEND Reducing Net Heat Rate 2025

### FOCUSSED COVERAGE ON

- Technologies Enhancing Heat Rate
- Heat Rate Efficiency in Thermal Power Plants
- Fuel Management Strategies and Fuel Diversity
- Operational Excellence and Maintenance Practices
- Case Studies: Successful Heat Rate Improvement Projects
- Digital Intelligence Improve Reliability and Performance of TPPs
- Relationship between Heat Rate and Efficiency
- Maintaining Plant at Optimal Efficiency
- Heat Rate and Generation Impacts of Controllable Losses
- Heat Rate Calculations & Cost Deviations
- Generator Perspective Case Studies on Reducing Net Heat Rate and Improving Efficiency
- Many more...

# Legacy of 6 YEARS

## Reliable, Successful & Dedicated Events on Reducing Net Heat Rate







## Annual National Residential Conference

Mission Energy Foundation have Religiously & Dedicatedly have given 17 years to the nation with 6 events on the Reducing Net Heat Rate creating forums of discussion; exchange of ideas; sharing practical experiences; govt. advocacy and networking opportunities for professionals and businesses worldwide.

## **Recognising Efforts of TPPs with National Efficiency AWARDS**

Over the years, Mission Energy Foundation has honored hundreds of innovative developments and solutions for excellence and sustainability among utilities, small or large, who have demonstrated their efforts and won National Efficiency Awards.

## Knowledge Enriching Conference with Networking Opportunities

Mission Energy Foundation Conferences are not just an average learning exercise. It's designed tor bring together the major stakeholders and decision makers to introduce the thermal power industry with the latest technologies in operating Heat Rate of plants and maintaining global benchmarks.

# All Inclusive Accommodation



HELP@MISSIONENERGY.ORG





# TIME LINE AGENDA

### Sunday, 09 March 2025

**14.00 Hrs Onwards** Guest Rooms Check-In

14.00 Hrs - 15.30 Hrs Lunch

**16.00 Hrs - 19.00 Hrs** Complimentary Water Sports on Morjim Beach

21.00 Hrs 23.00 Hrs Welcome Gala Dinner

### Monday, 10 January 2025

09.30 Hrs to 18.00 Hrs Technical Sessions

18.00 Hrs to 18.30 Hrs Award Ceremony

**19.00 Hrs – 21.00 Hrs** Live Entertainment & Couple Dance Programme, Followed by Cocktail Dinner Tuesday, 11 March 2025 Hotel Check-Out

### **Planned Activities for Family Members**



## Watersports Activity

Friday, 07 March 2025 10.30 Hrs – 13.30 Hrs

3 Hours of Watersports activities on the beach of Aralea Beach Resort

## Trip to Dudhsagar

Saturday, 08 March 2025

07.30 Hrs – 18.00 Hrs Day Trip Dudhsagar Waterfalls



HTTPS://MISSIONENERGY.ORG/RNHR2025/







## **CHIEF GUESTS**



\*Invited & Confirmation Awaited

# - the AUDIENCE -

Reducing Net Heat Rate - 2025 is expected to draw participation from executives, managers and decision-makers from:

- ► Large Power Plants
- Small Power Plants
- ► Captive Power Plants
- ► Government Agencies
- ► Policy Makers

- ► Regulatory Boards
- Technology Providers
- Utilities and Power Producers
- ► R&D Institutes & Academia
- ► Technocrats & Consultants
- ► Environmentalists
- ► State Electricity Boards
- ► Financial Institutions
- ► Scientists and Faculty
- ► And Many More...









# 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 Reducing Net Heat Rate - 2025 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.

Gain **PUBLICITY** with our advertising and promotional campaigns

Obtain **DIRECT ACCESS** to potential clients during and after with our meticulously prepared confidential delegate list

Receive a KEY SPEAKING POSITION to address an audience of top executives and decision makers from the industry

Create **PERMANENT REMINDERS** of your product or services in conference documentation 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

### Refer to the below tabular of varied sponsorship options and benefits.

#### PRINCIPAL SPONSOR

#### INR 745000 / USD 9950

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 Corporate Banner in Networking Area Merchandise Distribution Screening of Company Film Circulation of Company Literature Thanking Announcements Speaking Opportunity - Day 1 Panel Discussion Moderator

## POWERING SPONSOR

#### INR 645000 / USD 8950

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 Banner in Networking Area Merchandise Distribution Screening of Company Film

Circulation of Company Literature Thanking Announcements Speaking Opportunity - Day 2 Panel Discussion Panelist

#### KNOWLEDGE SPONSOR INR 545000 / USD 6950

3 Delegate Passes Logo on Brochure Cover Page Logo on Conference Backdrop Logo on Conference Website Circulation of Company Literature Thanking Announcements Panel Discussion Panelist

### SUPPORTING SPONSOR

#### INR 445000 / USD 6950

3 Delegate Passes Logo on Brochure Cover Page Logo on Conference Backdrop Logo on Conference Website Circulation of Company Literature Thanking Announcements Panel Discussion Panelist

## ASSOCIATE SPONSOR

#### INR 345000 / USD 5950

1 Delegate Passes Logo on Brochure Cover Page Logo on Conference Website Circulation of Company Literature Thanking Announcements



INR 24500 / USD 4950

Logo on Conference Backdrop Logo on Conference Website Thanking Announcements

### To Sponsor contact: Shri. S Dalvi

**President Partnerships & Legal Counsel** dalvi@missionenergy.org +919769310944







# **CALL FOR SPEAKERS OPEN**

If you are interested in speaking at the 2025 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 Pumped Hydro Storage

Deadline For Paper Submission Friday, 14 February 2025

## - CALL FOR SPEAKERS SUBMISSION PROCESS -

Proposals must be submitted by online speaker registrartion 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

Janvion Rodrigues, Chief Production janvion@missionenergy.org, +91 9992 830 831

## - Organisations Regularly Participating over 6 YEARS -

Adhunik Power & Natural Resources Limited AMNS Power Hazira Limited Arcelormittal Nippon Steel India Limited Bajaj Energy Limited Bharat Aluminium Company Limited Bharathi Cement Corporation Private Limited Bhubaneshwar Power Private Limited Bhushan Power & Steel Limited Birla Corporation Limited BSES Rajdhani Power Limited **BSES Yamuna Power Limited** Carboncapture Technology Private Limited Cardox India Private Limited Chandra Crusher Udyog Dalmia Cement (Bharat) Limited Damodar Valley Corporation DCL Bulk Technologies Pvt Ltd DCM Shriram Limited Deetya Hitech Private Limited Dhariwal Infrastructure Limited Elite Conveyor System Es Essential Chemicals Private Limited G7 Sugar Limited GE Power Systems India Private Limited Green Energy Transition Reaserch Institute Gujarat Industries Power Company Limited Gujarat State Electricity Corporation Limited Hindalco Industries Limited Hindustan Zinc Limited HPCL Mittal Energy Limited IL&FS Tamilnadu Power Company Limited

J K Cement Limited Jaiprakash Power Ventures Limited Jhajjar Power Limited Jindal Steel & Power Limited JK Lakshmi Cement Limited JSW Energy (Barmer) Limited JSW Energy Limited Kalpataru Projects International Limited Kanodia Cement Limited Kesoram Industries Limited Kunjir Bioenergy India LLP Lalitpur Power Generation Company Limited M D Power Transmission Corporation of Uttranchal Limited **M** Square Engineers Madhya Pradesh Power Generating Company Limited Maharashtra State Power Generation Company Limited Maithon Power Limited Maruti Clean Coal and Power Limited MB Power (Madhya Pradesh) Limited Melco India Pvt Ltd **MVSquare Greenovative Energy Solutions Private Limited** Nabha Power Limited Nalco Water India Private Limited NLC India Limited North Eastern Electric Power Corporation Ltd NTPC Limited

ONGC Tripura Power Company Limited

Prayagraj Power Generation Company Limited Rashtriya Chemicals & Fertilizers Limited **RCCPL** Private Limited **Reliance Industries Limited** Sai Wardha Power Generation Private Limited Save Eco Energy India Private Limited Schneider Electric Systems India Private Limited Shreeyam Power and Steel Industries Limited SHV Energy Private Limited Sitson India Private Limited Tata Power Company Limited Tata Power Delhi Distribution Limited Tata Steel Limited **TECHCEM** Consulting and Engineering Private Limited The Singareni Collieries Company Ltd The West Bengal Power Development Corporation Limited Thermax Babcock & Wilcox Energy Solutions Limited Ti Anode Fabricators Private Limited Transmission Corporation of Andhra Pradesh Limited UltraTech Cement Limited Vedanta Limited Welspun Captive Power Generation Limited West Bengal Power Development Corporation Wonder Cement Limited

HELP@MISSIONENERGY.ORG



## <u> National Efficiency Awards – 2023</u>

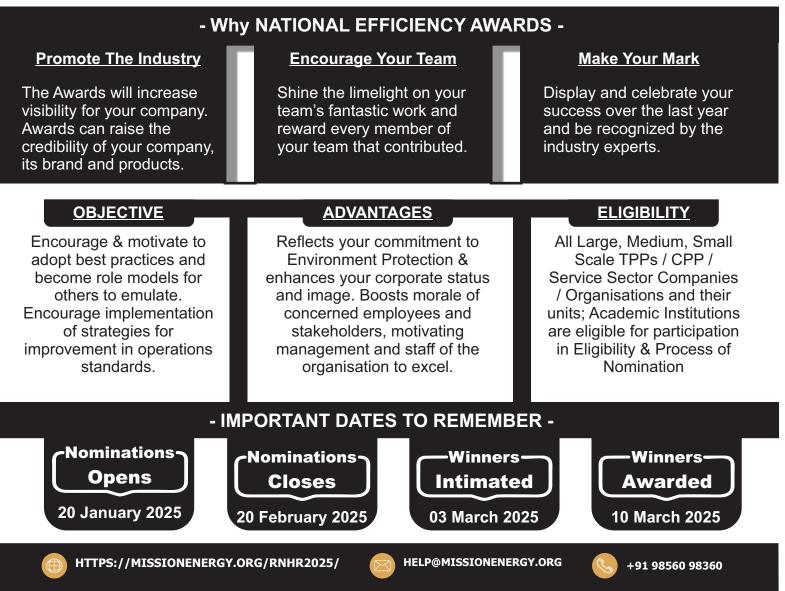


**RNHR - 2025** 

The National Efficiency Awards has been developed with a view to accord recognition to utilities based on their all round performance by integrating the operational parameters like Peaking Plant Load Factor, Secondary Oil Consumption, Auxiliary Power Consumption and Station Heat Rate. Design station heat rate would be considered for evaluation.

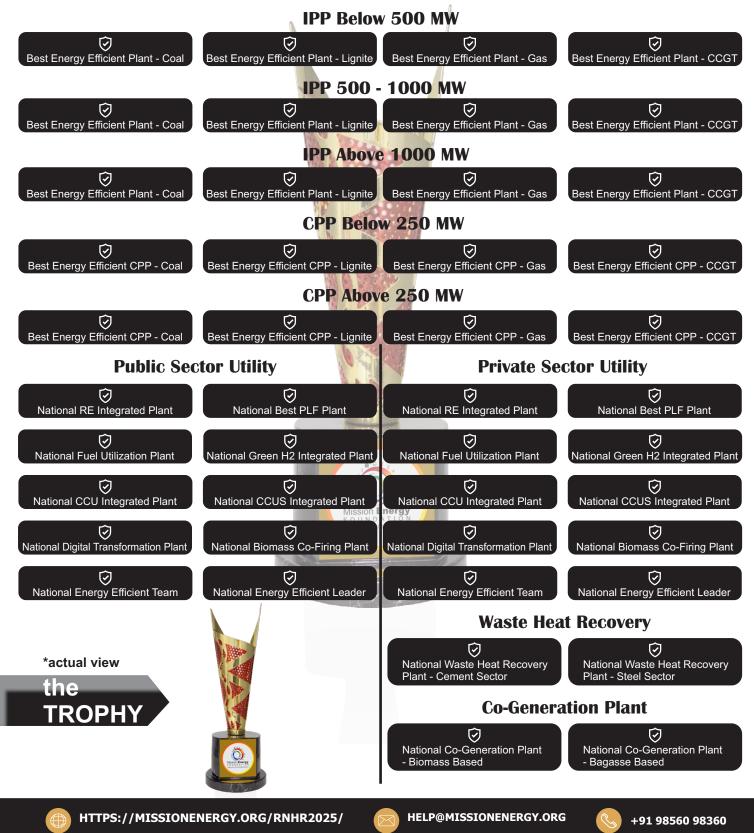
**National Efficiency Awards – 2025**, to catalyze significant and innovative practices in the energy efficiency sector, for facilitating an energy efficient and sustainable growth of the Indian industry. With these awards, Mission Energy Foundation aims to recognize efforts by industries for their outstanding achievements and implementing new and innovative energy efficiency measures.

The Award this year is intended to foster the competitive spirit amongst various power stations so as to encourage them to improve performance in all spheres of their working. The Awards would also help in evolving benchmarks for various performance indices.





# 40+ AWARD Categories





# Aralea Beach Resort, Morjim - GOA

09 - 10 March 2025

# **Participation Fee Structure**

(All inclusive 2 Nights complimentary stay including spouse + child below 6 years)



Registrations can be processed with our new AI CHATBOT on WhatsApp (Alternatively type "/RegistrationDesk" & sent to +15557000808 from your WhatsApp, if you face difficulties)



**VENUE** 



### Beach Front Resort:

Aralea Beach Resort by Stone Wood Survey No. 241/3, New Wada Morjim, Goa - 403512





HTTPS://MISSIONENERGY.ORG/RNHR2025/



# <u>Organiser</u>



#### 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 Begining

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...

#### <u>Today</u>

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 Helpline: +91 98560 98360, http://missionenergy.org