

Two Days Virtual Conference & Awards
Scheduled on 18-19 February 2021



RNHR - 2021

**Reducing Net Heat Rate -
for Thermal Power Plants**

Theme: HEAT IN POWER: UNLEARNING ECONOMICS

Reducing Net Heat Rate - for Thermal Power Plants

18-19 February 2021

Why RNHR - 2021

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, massive addition to the installed generating capacity is required.

Power sector of India has seen a continuous development in the advancements of technologies to increase efficiency and productivity, to better the 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. Lower 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 operating margin of power generation companies.

The traditional ways to improve the heat rate involve large capital investments like 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 guideline/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 Two Days Virtual Conference & Awards on Reducing Net Heat Rate for Thermal Power Plants on 18-19 February 2021.

The conference aims at knowledge sharing and problem solving for the 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.

 [HTTPS://MISSIONENERGY.ORG/NHR/](https://missionenergy.org/nhr/)

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Reducing Net Heat Rate - for Thermal Power Plants

18-19 February 2021

Conference Draft AGENDA

TIME	DAY 1 - Thursday, 18 February 2021
09.00 Hrs	Login to Virtual Portal
09.30 Hrs	Inaugural Function Chief Guest Opening Remarks Shri Vivek Kumar Dewangan, Additional Secretary – Ministry of Power * Special Guest Welcome Address Shri P S Mhaske, Chairman – Central Electricity Authority * Shri Abhay Bakre, Director General Bureau of Energy Efficiency – Ministry of Power * Key Note Address Dr. Winfried Damm, Head of Energy - GIZ India * Introduction to RNHR - 2021 Ashwinkumar Khatri, Director General – Mission Energy Foundation
10.00 Hrs	Pannel Discussion: Improving Energy Efficiency in Thermal Power Plants Panellist - Ramesh Babu V., Director Operations – NTPC Limited* - C S Thotwe, Director Operations – MAHAGENCO - P D Siwal, Former Member Thermal – CEA - P K Mohapatra, Member Expert Appraisal Committee – MoEFCC
11.30 Hrs	Heat Rate Modeling in Thermal Power Plants Speakers - Alok Shrivastava, General Manager – NTPC Limited * - Sandip Vaidya, Additional Vice President Electrical Maintenance – Adani Maharashtra * - Amol Mahalle, Vice President – Lanco Power Limited * - Kunal Gupta, Group General Manager – NTPC Farakka *
16.30 Hrs	Optimizing Wall Blowing and Improving Heat Rate Speakers - Kosal Ram, General Manager (EEMG) – NTPC Limited * - Pratik Bose, Head – Technical Services – JSPL * - Nomination from NLC India Limited (TBA) *
18.00 Hrs	Technology Advancements and Opportunities for Reducing Heat Rate and Improving Efficiency
18.00 Hrs	Closing of Day 1 - Networking Lounge Open

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TIME	DAY 2 - Friday, 19 February 2021
10.00 Hrs	<p>Panel Discussion: Reduction in Heat Rate Contributing in Reduction of Generation Costs and Increasing Operating Margin of Power Generation Companies</p> <p><u>Panellists</u></p> <ul style="list-style-type: none">- Jinal Mehta, Managing Director – Torrent Power *- Ramesh Nagarajan, CEO – IL & FS Energy *- G VenkateshBabu, Managing Director – LANCO Infratech *- Ramesh Babu V, Member Technical – Damodar Valley Corporation *- RV Shahi, Former Secretary – Ministry of Power
11.30 Hrs	<p>Combatting the Factors of Inefficiencies & Improving Plant Performance</p> <p><u>Speakers</u></p> <ul style="list-style-type: none">- Prabhat Kumar Sharma, Head – Technical Excellence – Essar Power- Ram Krishna Gadre, Head of Engineering – TATA Power Limited- Biswajyoti Swain, General Manager Electrical – Jindal Steel & Power Limited
14.30 Hrs	<p>Analyzing Processes Based Data and Statistical Assessment of Heat Rates</p> <p><u>Speakers</u></p> <ul style="list-style-type: none">- Santosh Kumar Dubey, General Manager Planning & Efficiency – HPPL- Alok Mukherjee, Director Operations – Odisha Power Generation Corporation Limited
16.30 Hrs	<p>Power Producers Perspective – Case Studies</p>
17.30 Hrs	<p>Virtual Ceremony - National Efficiency Awards – 2021</p>
18.00 Hrs	<p>Closing of Day 2 - Networking Lounge Open</p>

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Why SPONSOR?

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

Sponsoring this **Reducing Net Heat Rate - 2021** 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

For Details Contact:

Sponsor Now!

Shri. S Dalvi, President Partnerships & Legal Counsel
dalvi@missionenergy.org
+919769310944

PRINCIPAL SPONSOR

INR 645000 / USD 9950

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Speaking Opportunity - Day 1
Panel Discussion Moderator
Thanking Announcements

POWERING SPONSOR

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Thanking Announcements

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Thanking Announcements

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ASSOCIATE SPONSOR

INR 245000 / USD 3950

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NATIONAL Efficiency Awards - 2021

Key Dates

04 January 2021
Nomination Opens

05 February 2021
Nomination Closes

19 February 2021
Winners Shall be Awarded

National Efficiency Awards – 2021, 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 National Efficiency Awards 2021 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.

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..

AWARD CATEGORIES - 2021

 Best Energy Efficient Plant – COAL	 Best Energy Efficient Plant – Lignite	 Best Energy Efficient Plant – CCGT	 Best Energy Efficient Plant – COAL (CPP)
 Best Energy Efficient Plant – Lignite (CPP)	 Best Energy Efficient Plant – CCGT (CPP)	 Technology Company of the Year	 EPC Company of the Year

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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...

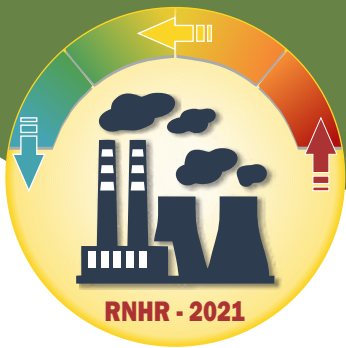
Today

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.

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>



Reducing Net Heat Rate - for Thermal Power Plants

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Delegate Registration Form

Delegate Fee

- Indian Delegate: INR 8000 Per Delegate + 18% GST
- Overseas Delegate: USD 250 Per Delegate

Post: 003, B-16, Sector 1
Shanti Nagar, Mira Road (East)
Thane, Maharashtra – 401107

DELEGATE DETAILS

Company: _____

Address: _____

City: _____ Pincode: _____ State: _____

Kindly Provide Your Organisation **GSTIN**: _____

Delegate Nomination Filled By: (Liason Officer for Co-ordinates)

Name: _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

Conference Attendee Details

Delegate (1): _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

Delegate (2): _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

Delegate (3): _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

(For more than 3 delegates kindly make copies of the registration form)

Group Discount

Mission Energy Foundation recognises the value of learning in terms. Group bookings at the same time from the same company receive discount:

>3 Delegates	5%
>7 Delegates	10%

This offer is exclusive of the early bird discount. Call us for a special discount rate for terms of 10 and above (Not applicable to clinic(s) only bookings).

Payment Methods

By Check/Bank Draft :

All instruments to in favor of "Mission Energy Foundation" (payable at Mumbai) and send to, Mission Energy Foundation 003, B-16, Sector 1, Shanti Nagar, Mira Road (East) Thane, Maharashtra 401107 | Helpline: 98560 98360

Organisation Details :

Organisation: Mission Energy Foundation
CIN: U74120MH2012NPL233716
PAN: AAICM0818M
Service Tax: AAICM0818MSD002
GSTIN: 27AAICM0818M1Z7

By Direct Transfer :

Bank Name: Kotak Mahindra Bank
Account Name: Mission Energy Foundation
Account Number: 0111221660
Account Type: Current Account
Branch Name: Mira Road (East)
Branch Address: E-Wing, Latif Park, Mira Bhayandar Road, Mira Road (E), Thane - 401107
Branch Telephone: +91 22 28120740 / 48 / 49
MIRC Code: 400485051
IFSC / RTGS: KKBK0000649
SWIFT Code: KKBKINBB

All bank charges to be borne by payer. Please ensure that our bank receives the full invoiced amount.

You want to pay from credit card (Only Indian VISA Cards accepted) you may do it from below link <https://missionenergy.org/payment.html>

Payment Terms

Payment is required within 10 working days on receipt of invoice. If a booking is received 10 working days before the conference a credit card number will be taken to confirm your place, likewise if full payment has not been received before the conference date.

NOTE:

- Kindly fill the registration form completely
- Kindly provide with a valid email id for correspondence
- A confirmation of the registration will be sent via email after receipt of the payment
- No refund will be made in case of no-show / no-attendance
- Registration fee is exclusive of Government taxes as applicable

Cancellation Policy:

Should a delegate be unable to attend, a substitute delegate from the company is always welcome at no extra charge. Alternatively, for any cancellations, the following rules shall apply

- 70% refund of registration fee if cancellation is done on or before 20 working days of the schedule
- 50% refund of registration fee if cancellation is done on or before 15 working days of the schedule
- Thereafter, no refunds can be made

Important note:

Please quote the name of the participant and event title on the advice when remitting payment. Bank charges to be deducted from the participation organisation's own accounts. Attendance will only be permitted upon receipt of full payment. It may be necessary for reasons beyond the control of the organiser to alter the content or the event date or location or the identity of the speaker/s.



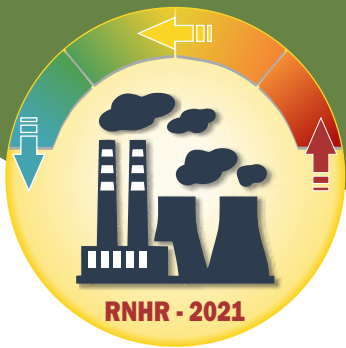
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AWARD Nomination Form

Award Nomination Fee (per Nomination per Selected Category)

- Indian Company: INR 26500 + 18% GST
 Overseas Company: USD 750

Company : _____

Address : _____

City: _____ Pincode: _____ State: _____

Kindly Provide Your Organisation GSTIN: _____

Award Nomination Filled By: (Liason Officer for Technical / Other Co-ordinates)

Name: _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

Conference Attendee Details (Complimentary)

Name: _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

We apply for below category of Award:

- Best Energy Efficient Plant – COAL
 Best Energy Efficient Plant – Lignite
 Best Energy Efficient Plant – CCGT
 Best Energy Efficient Plant – COAL (CPP)
 Best Energy Efficient Plant – Lignite (CPP)
 Best Energy Efficient Plant – CCGT (CPP)
 Technology Company of the Year
 EPC Company of the Year

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PAN: AAICM0818M
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By Direct Transfer :

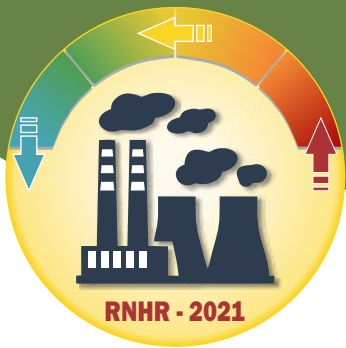
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SPEAKER Registration Form

Speaker Registration Fee

- Indian Speaker: INR 32500 + 18% GST
 Overseas Speaker: USD 750

Company : _____

Address : _____

City: _____ Pincode: _____ State: _____

Kindly Provide Your Organisation GSTIN: _____

Speaker Nomination Filled By: (Liason Officer for Technical / Other Co-ordinates)

Name: _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

Speaker Details

Name: _____ Job Title: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Alt Email: _____

Presentation Title:

Attached

- Abstract
 Biograph
 Photograph

Payment Terms

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