



6th Edition on

RAILWAY ELECTRIFICATION

A VIRTUAL CONFERENCE

July 6-7, 2021

Organisers:



Lead sponsor so far*:

HITACHI

ABB

Co-sponsor so far*:



**Lead and Co-sponsorship slots are available*

Railway Electrification

Mission

- Indian Railways (IR) has set a target of achieving 100 per cent track electrification by December 2023. As of March 2021, IR has electrified 42,869 route km (rkm), which accounts for 66 per cent of the total broad-gauge network. At present, electrification of the remaining 21,820 rkm is in progress.
- In 2019-20, an all-time high level of electric traction was recorded with the electrification of 5,782 rkm of tracks. However, the lockdown following the outbreak of the Covid-19 pandemic significantly slowed down electrification works during the first half of financial year 2020-21. As against a target of 4,056 rkm, around 3,000 rkm of electrification works were completed in 2020-21. IR has almost reached normalcy in operations now, and is hopeful of achieving its target of 6,000 km for the current fiscal year.
- A greater emphasis is also being laid on reducing traction and non-traction bills. IR is procuring cheaper power, adopting energy efficient practices and engaging in power trade to optimise its energy generation and utilisation. Further, IR is ramping up its renewable energy capacity. About 100 MW of solar plants have been commissioned on the rooftop of various buildings including 900 stations, and 400 MW are under different stages of execution. Besides, 130 MW of wind power capacity has been commissioned.
- IR has also increased the production of electric locomotives. It has not only discontinued diesel locomotive production, but also plans to convert most of the existing diesel locomotives into electric ones. It has set a target to produce 725 electric locomotives in the current financial year. Further, it is producing modern electric locomotives with three-phase technology and regeneration capability.
- Going forward, IR's electricity requirements will continue to grow as it pursues greater electrification. The deployment of mechanised technologies is expected to increase in the coming years. IR's growing energy requirements and future plans present significant opportunities for power producers, renewable energy developers, technology providers, and manufacturers of rolling stock and electrical equipment.
- **The mission of this virtual conference is to discuss the electrification plans, progress and targets, examine new opportunities, highlight the experience of contractors and identify the unresolved challenges. The conference will also showcase the latest technologies, innovations and noteworthy projects.**

Target Audience

The conference is targeted at top and middle-level managers from:

- | | | |
|---|----------------------------------|----------------------------|
| - Indian Railways | - Cable manufacturers | - Fuel suppliers |
| - Wind power developers | - Independent power producers | - Steel companies |
| - Contractors | - Solar energy service providers | - Rooftop solar developers |
| - Financial Institutions | - Energy management consultants | - Technology providers |
| - IR-related organisations | - HVAC and lighting providers | - DG manufacturers |
| - Renewable energy EPC companies | - Government agencies | - Consultants |
| - Energy-efficient technology providers | - Equipment manufacturers | - Etc. |

Previous Participants

Some of the companies that participated in our previous conference include: Aarvee Associates, ABB, Adani Power, Aditya Birla Insulators, Arihant Electricals, Austrade, Azure Power, BASF, Bharat Heavy Electricals, Bhartiya Rail Bijlee Co., Bikaner Ceramics, Canadian Solar, Central Electronics, Central Railway, Centre for Railway Information Systems, Chittaranjan Locomotive Works, Climate Policy Initiative, CLP Power, CLW, Consul Neowatt, Continuum Wind Energy, COPPRROD Industries, Coslight, CSIR - Indian Institute of Petroleum, Customized Energy Solutions, Deloitte, Delta Electronics, Delta Power Solutions, DFCCIL, Diesel Locomotive Works, Eastern Railway, Econtrols, EDS Global, Elara Capital, Elecrama, Electrotherm, Elmex Electric, Emergent Ventures, Encito Advisors, Energy Efficiency Services, ERDA, Essar Oil, Essel Infra, Exide Industries, Fichtner Consulting, Fortum India, GAIL, GE Transportation, Gemscab, Genus Power, Global Power Source, Good Luck Steel, GP Tronics, Greenmint Power, Grundfos Pumps, HBL Power Systems, Hero Future Energies, Hind Aluminium, Hind Rectifiers, Hindalco Industries, Hitachi, HT Systems, India Infrastructure Finance Company, India Power Corporation, Indian Energy Exchange, Indian Railway Organisation for Alternate Fuels, Indian Railways, Inox Wind, IREDA, IROAF, JIC, JSK Industries, JSW Steel, Kalpataru Power Transmission, Kanohar Electricals, KEC, KEI Industries, KEI Industries, Kirloskar Electric, Kolkata Metro Railway, KPMG Advisory Services, Krypton Lighting, Landis+Gyr, Lara Global, Larsen & Toubro, LPS Bossard, Lumino Industries, M&I Materials, Maharishi Solar, Mahindra Susten, MAN Structural, Mars Entrepreneurs, Metro Railway, National Contracting Company, National High Speed Rail Corporation, Nexant, NF Railway, NHPC, North Central Railway, North Western Railway, Northern Railway, NTPC, Okaya Power, Panasonic, Performance Specialty Products, Philips Lighting, Plasser, Powerica, Pragati Electrocom, Precicast, Premier Solar Systems, PTC India Financial Services, RS Infra Projects, Rail Coach Factory, Rail Vikas Nigam, Railway Board, Railway Energy Management, Railway Energy Management Company, Rajasthan Electronics & Instruments, Ratnagiri Gas & Power, Recons, Reliance Industries, REMCL, ReNew Power, Research Design & Standards Organisation, RITES, Royal Energies, SAS, Secure Meters, Siemens, South Central Railway, Southern Railway, Steel Industries, Sterling & Wilson, Sterlite Power, Sun Clean Renewable Power, Sun Group Enterprises, TAG, Tata Consulting Engineers, Tata Power, TERI, The Aluminium Industries, Tvastar Engineering, UNDP, USAID PACE-D D Technical Assistance Program, Waaree Energies, Welspun Energy, YES Bank, etc.

AGENDA/STRUCTURE

UPDATE ON MISSION ELECTRIFICATION: PROGRESS, TARGETS AND OPPORTUNITIES

- ❖ What has been the progress under Mission Electrification in the past one year?
- ❖ What are IR's electrification targets for 2021-22 and 2022-23? What is the timeline for achieving 100 per cent electrification?
- ❖ What are the investment requirements and opportunities?

CONTRACTORS' PERSPECTIVE: EXPERIENCE AND CHALLENGES

- ❖ What has been the contractors' experience so far?
- ❖ What are the key issues and challenges?
- ❖ What are the expectations from the government and other stakeholders?

FOCUS ON ELECTRIC LOCOMOTIVES: CURRENT PRODUCTION AND FUTURE REQUIREMENTS

- ❖ What have been the key trends in the production and acquisition of electric locomotives? How has the production capacity expanded in the past years?
- ❖ What are the recent innovations in design? What are IR's plans and targets for the conversion of diesel locomotives to electric locomotives?
- ❖ What are IR's future plans and targets for electric locomotive production?

EQUIPMENT SHOWCASE

- ❖ What are the emerging equipment requirements for railway electrification?
- ❖ What are the new and advanced equipment being offered by vendors?
- ❖ What are the key issues and challenges?

SPOTLIGHT ON MEGA PROJECTS: ELECTRIFICATION REQUIREMENTS AND NEW OPPORTUNITIES

- ❖ MUMBAI-AHMEDABAD HIGH-SPEED RAIL CORRIDOR
- ❖ DELHI-MEERUT REGIONAL RAPID TRANSIT SYSTEM
- ❖ UPCOMING DEDICATED FREIGHT CORRIDORS
- ❖ BENGALURU SUBURBAN RAIL SYSTEM
- ❖ MUMBAI SUBURBAN RAILWAY
- What are the electrification requirements and specifications for the project? What are the capex requirements?
- What are the sources of energy? What are the plans with regard to the use of renewable energy?
- What are the upcoming tenders and opportunities?

ENERGY NEEDS, SOURCING OPTIONS AND FUTURE STRATEGIES

- ❖ What is IR's current energy mix? What are the existing and emerging sources of energy?
- ❖ What are the electrical infrastructure requirements for these sources?
- ❖ What will be the role of renewable energy in meeting IR's future energy requirements?

ENERGY STORAGE SYSTEMS: EMERGING REQUIREMENTS AND SOLUTIONS

- ❖ What are the available energy storage technologies and solutions for IR's applications?
- ❖ What has been the experience so far in the adoption of these solutions?
- ❖ What are the cost savings that can be achieved? What are the new trends and advancements?

ZONAL RAILWAY VIEWPOINT: ELECTRIFICATION PROJECTS, TARGETS AND OPPORTUNITIES

- ❖ What has been the experience of zonal railways with regard to electrification so far?
- ❖ What are the targets and timelines for 100 per cent electrification?
- ❖ What are the upcoming projects and opportunities?

TECHNOLOGIES/INNOVATIONS IN ELECTRIC TRACTION

- ❖ What have been the trends and advancements in the electric traction segment?
- ❖ What are the new technologies, equipment and digital solutions deployed (mechanised wiring train, high-rise OHE, self-propelled mast erection vehicle, etc.)?
- ❖ What are some of the best practices and noteworthy projects? What are the challenges in the adoption of these technologies?

ROLE OF AUTOMATION AND INSTRUMENTATION IN ELECTRIFICATION

- ❖ What is the role of automation and instrumentation in the electrification of railway lines?
- ❖ What are the solutions and technologies available for predictive maintenance and asset monitoring? What are the key noteworthy initiatives in this field?
- ❖ What are the specific issues and challenges?

Railway Electrification

What differentiates our conferences?

- The **agenda** is developed by our researchers, who track the sector round the year. It is thus **relevant** and **topical**. It is not driven by a particular organisation and does not have a particular slant.
- The **speakers** are **professionals** and **experts** involved in the sector, not a mix of ambassadors, ministers, celebrities and business owners.
- The conferences do not just comprise panels and speeches; they provide a good mix of **expert presentations** and **case histories**, and of course **panel discussions**.
- We have **representation** from **across the country**, as is the case at our physical conferences too.
- Each **stakeholder group** – **policymakers**, **developers**, **financiers**, **consultants** and **relevant NGOs** – is represented at our conferences.
- The moderators merely ask the questions. The **stars** are the **speakers** themselves.
- The **sessions begin and end on time**.
- There is adequate time for a **Q&A session** with **each speaker**. These are not “hit and run” speeches.
- The **delegates** are **professionals** who are vested in the sector, and are not just assembled through social media.
- A **recap** of the conference is also made available to reinforce the key takeaways.

Delegate benefits (Virtual Conference)

- Direct interaction with senior speakers (Q&A facility)
- Easy connectivity to geographically dispersed delegates (click of a mouse)
- Cost effective (lower ticket price as compared to a physical conference)
- Offers flexibility and convenience
- Access to conference recording
- Recap of conference sessions
- Contributes to sustainability and lower carbon footprint

Benefits of sponsorship (Virtual Conference)

- E-Meet influencers and decision-makers/
- Reach out to and engage with new or active prospects
- Generate high quality sales leads
- Increase brand recognition
- Target a captive and engaged audience
- Drive website traffic through social media promotions
- Position your company as the thought-leader in your industry

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Registration Fee

	INR	GST@18%	Total INR	Total USD
1 Login	9,000	1,620	10,620	150
2 - 3 Logins	15,000	2,700	17,700	250
4 - 5 Logins	21,000	3,780	24,780	350
6 - 9 Logins	27,000	4,860	31,860	450
10 - 20 Logins	33,000	5,940	38,940	550

- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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Sponsorship
opportunities are
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Payment Policy:

- Full payment must be received prior to the conference.
- Payments for "early bird" registrations should come in before the last date of discount. Discount offers cannot be combined with any other offer.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. It publishes **Indian Infrastructure**, **Power Line**, **Renewable Watch** and **tele.net** magazines and a series of reports on the infrastructure sectors, including **Railways in India**, **Urban Rail in India**, **Solar Power in India** and **Rooftop Solar in India**. It also publishes the **PowerLine Directory and Yearbook**, **Solar Power Directory and Yearbook** and the **Wind Power Directory and Yearbook**.

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