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पावरग्रिड POWERGRID

11th Annual Conference on

TRANSMISSION LINES, TOWERS AND SUBSTATIONS

July 4-5, 2023 | The Leela Ambience, Gurgaon

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TRANSMISSION LINES, TOWERS AND SUBSTATIONS

Mission

- The installed renewable energy capacity is targeted to reach over 500 GW by 2030, implying a significant CAGR of about over 20 per cent during the next seven year-period. To support these ambitious energy transition targets, the power transmission segment is expected to see significant investments in the next few years.
- Nearly 51,000 ct. km of transmission lines are planned to come up at an investment of over Rs 2.4 trillion by 2030, as per a detailed transmission system roadmap recently prepared by the Central Electricity Authority. These lines would help in evacuation of power from major renewable energy (RE) potential zones like Leh RE park in Ladakh; Fatehgarh, Bhadla, Bikaner in Rajasthan; Khavda RE park in Gujarat; and Anantapur, Kurnool RE Zones in Andhra Pradesh. Transmission systems have also been planned for 10 GW of offshore wind capacity to be set up in Tamil Nadu and Gujarat. The planned line capacity additions also include 8,120 ct km of high voltage direct current transmission corridors (+800 kV and +350 kV).
- As efforts to meet the long-term renewable energy targets pick up pace, it is important to expedite the construction of these transmission systems to ensure timely evacuation of renewable energy supply. More so, given that projects like transmission face major issues such as limited right of way, especially in urban areas. Moreover, shorter gestation period of renewable projects vis-à-vis transmission project may cause to stranding of upcoming renewable capacity.
- Modern approaches, materials, methods and design for transmission lines, towers and substation projects are equipping developers and utilities to build new grids and strengthen existing ones at a much faster pace. For instance, high technology conductors with improved strength to weight ratios, higher operating temperature limits and better high temperature sag performance like HTLS and hi¬gh temperature superconductors (HTSs) are seeing growing adoption.
- Use of drones and helicopters for patrolling as well as stringing is helping utilities wherever the terrain, forests, agricultural land or crossings poses challenges. Further, satellite imagery and ML-driven software are being used to optimise transmission line routes. There is also a shift to AI and ML-based tools, apps and software for asset management and health indexing for fault identification and rectification planning.
- Also, growth of modern substations is also being driven by the need for remote monitoring and control, space optimisation, longer asset life, enhanced safety, and reduced failure rates. Use of GIS and hybrid GIS are also helping utilities considerably minimise the installation time, eliminating heavy civil work and manage space requirements. There is a growing adoption of digital substations which independently regulate voltage and maintain contact with the grid to enable remote administration and receive real-time feedback on power supply parameters.
- **The mission of this conference is to highlight the latest technologies and solutions for the design, erection, commissioning and maintenance of transmission lines, towers and substations. It will discuss the experience of utilities and developers in transitioning to these newer technologies. It will also provide a platform for showcasing successful projects and best practices in the segment.**

Target Audience

The conference is targeted at:

- Transmission companies
- Transmission structure manufacturers (towers and substations)
- State electricity boards
- State transmission companies
- Private utilities
- Interstate transmission operators
- Conductor manufacturers
- Private developers
- Design and consulting organisations
- Technology providers
- Transmission line manufacturers
- Foundation and piling companies
- Steel companies
- Etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- How has the transmission sector evolved over the years?
- What are some of the issues and challenges in the sector?
- What are the key growth drivers and opportunities in the sector, going forward?

UTILITY AND DEVELOPER PERSPECTIVE

- What are the transmission network development and investment plans of leading utilities and developers?
- What are the key issues affecting transmission utilities and what solutions are being adopted?
- What are the utilities' key focus areas in terms of technology?

ADVANCES IN CONDUCTOR TECHNOLOGIES

- What are some of the new technologies being adopted to improve conductor performance?
- What are the future growth drivers for advanced conductor technologies?
- What are the latest trends and developments?

ADVANCES IN TOWER AND FOUNDATION DESIGNS

- What are the advanced tower designs to conserve RoW?
- How have foundation designs and laying techniques changed over the years?
- How has been the adoption of advanced towers and foundations among utilities?

ADVANCES IN TRANSMISSION LINE CONSTRUCTION AND STRINGING

- What are the latest advancements in transmission line design?
- What are the key bottlenecks in the construction of new transmission lines?
- What are the new techniques being used for transmission line stringing?

ASSET MANAGEMENT STRATEGIES

- How have the transmission utilities' O&M strategies evolved?
- What are the best practices for increasing asset life & reliability?
- What are the new and promising strategies and solutions?

EPC PROVIDER PERSPECTIVE

- What has been the experience of EPC providers in the sector?
- How have EPC practices for transmission projects evolved in recent years?
- What are the latest trends and developments in this space?
- What are the main impediments in transmission project implementation, and how are they overcome?

PROMISING TRANSFORMER AND SWITCHGEAR TECHNOLOGIES

- What are the benefits of advanced conductors vis-à-vis conventional conductors?
- What is the status of adoption of these technologies by Indian utilities?
- What are the key demand drivers of advanced conductors going forward?

MODERN SUBSTATION TECHNOLOGIES

- What are some of the emerging technologies in the high voltage substation segment?
- What are the key drivers, benefits and use cases?
- What has been the utility experience in the adoption of technologies?

LATEST MONITORING AND SURVEILLANCE TECHNOLOGIES

- What are the latest innovations in monitoring and surveillance technologies for transmission?
- What are the benefits and use cases of these technologies?
- What are the issues and concerns in adoption of these technologies by utilities?

PROJECT SHOWCASE

- What are the salient features of the project (in terms of equipment, technology, design, commissioning, costs, etc.)?
- What were the issues and challenges faced in executing the project, and how were they overcome?
- What are the key lessons learnt from the project?

TRANSMISSION LINES, TOWERS AND SUBSTATIONS

Previous Participants

This conference is a well-established must-attend annual event and this year is the 11th in the series. It garners participation from all key decision makers and influencers from the transmission industry in India like Abhisek Contech, Accenture, ACME Solar Holding, Adani Electricity, Adani Transmission, Aditya Birla Insulators, Airbus, Alba, Alfanar Energy, Altair, Altec, Amara Raja Power Systems, Amitasha Enterprises, Angelique, Anvil Cables, AP Transco, Apar Industries, Apoorva Energy, APPSIL, Ashida Electronics, Associate Power Structures, Aveva, Aviva Power, Azure Power, Bajaj Electricals, Bekaert, Belden, Bentley Systems, Bhakra Beas Management Board, Bharat Bijlee, BHEL, BMC, BMI, BNC Power Project, British High Commission-New Delhi, BSES Rajdhani, BSPTCL, Burns Mcdonnell, Cabcon India, Cargill, CEA, CERC, CESC, CG Global, Chlorofyl, CLP India, CTC Global, Degi Trans, Delhi Transco, Edelweiss, Electrotherm, Elite Powertech, Ensmart, Entegra, EPCO, Equirus Securities, Era T&D, Eros Group, Eros Metal Works, ESRI India, Eyrich+Appel Gmbh, Fluke Technologies, Fugro, Ganges International, GE T&D, GETCO, GIG IRM Glass Insulators, GIZ, Godrej & Boyce Mfg. Co., Greenko Energy Projects, Gujarat State Fertilizers & Chemicals, Gupta Power Infrastructure, Haldia Energy, Harshini Tele Systems, Hemant Sahai, Himalayan Heli Services, Hind Aluminium Industries, Hindgold Automotive Components, Hltachi Energy, HVPN, Hyosung T&D, ICICI Bank, IDFC Bank, Incedo, India Energy Storage Alliance, IndiGrid Limited, ITW India Private Limited, Jaigad Power Transco, Jindal Steel & Power, JSK Industries, Jyoti Structures Limited, Kalpataru Power Transmission, KEC, KEI Industries, Kudgi Transmission, L&T Construction, L&T IDPL, Lara Global, Larsen & Toubro, Legion Energy, M&I Materials, Madhav Engineers, MAHA Transco, MAN Structurals, MDC AMPOWER, Mitsui & Co., Modern Insulators, Monnet Ispat & Energy, Motilal Oswal Financial Services, Motwane, MPPKVVCL, MPPTCL, Mtandt Group, National High Power Test Laboratory, NEDO, North East Transmission Company Limited, NPTI, NTPC, Paramount Communications, Paras Aerospace Solutions, Power Finance Corporation, Power Grid, Power System Operation Corporation Limited, Powerica, Powerlinks Transmission, Preformed Line Products (Thailand), Premji Invest, Primtech, PSPTCL, PTC, Punj Lloyd, Quality Austria Central Asia, R.K. Powerd NLDC, R.S. Infraprojects, Ramboll, Ramelex, RECTPCL, Reliance Power Transmission, Renew Power, RRRVPN, SBI Capital Markets, SEIPL, Sekura india Management Limited, Septett Advisory Services, Shemar Power Engineering (India) Private Limited, Shenzhen Micromulticopter Aero Technology., Shivoham, Shree Kushal Fabricators, Sicame, Siemens, Skipper Limited, Sleepwalkers, SMEC, State Grid Corporation Of China, Steag, SteelAuthority Of India, Sterling & Wilson, Sterlite Power, Supreme & Co., Surya Roshni Limited, Suzlon Energy, Svarn Infratel, Synaptec Ltd, Tag Corporation, Tagbin, Tata Power, Tata Projects, Taurus Powertronics, TBEA Energy, Telegence Powercomm, TESMEC, Testo India, Tirumala Sevenhills, Tokyo Rope, Torrent Power, Transrail Lighting, Trimble Solutions, TS Transco, UP Power Transmission Corporation, VECV, Vidhyut Power, Vidyut Soudha Khairatabad, Voyants, WBSETCL, etc.

Transmission Lines, Towers and Substations

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Registration Fee

	Fee			
Delegates	INR	GST@18%	Total INR	Total USD
One delegate	25,000	4,500	29,500	400
Two delegates	40,000	7,200	47200	600
Three delegates	55,000	9,900	64,900	800
Four delegates	70,000	12,600	82,600	1,000

There is a special low fee of Rs 7,000 per participant for state electricity boards and their successor units (state-owned transcos), regulatory authorities and research/academic institutions.

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

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Global Transmission is a leading provider of information and analysis on the global electricity transmission industry. It publishes the **Global Transmission Report** (a monthly newsletter), **Global Transmission Weekly** (a weekly update), and a report on **Global Electricity Transmission**, and operates **www.globaltransmission.info**

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For sponsorship opportunities and delegate registrations, contact:

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