8th Annual Conference on

WIND POWER IN INDIA

Big Volumes, Low Tariffs and New Market Dynamics

August 27-28, 2018, Shangri-La's The Eros, New Delhi

Organisers:

PowerLine

RenewableWatch

Supported by:

IWTMA Indian Wind Turbine Manufacturers Association

IWPA Indian Wind Power Association

SECI

Co-sponsor so far:*

GE

IAP Laser

*Lead and Co-sponsor slots available

WIND POWER IN INDIA

Mission

- After a year of lull, the wind power sector in India has regained momentum with 15 GW of capacity either tendered or in the process of being tendered as of June 2018. The current installed capacity in the sector stands at about 35 GW, implying that an average of 6 GW capacity needs to be added per annum to achieve the 60 GW by 2022 target. In the long term, the government intends to have 140 GW of wind power capacity by 2030.
- With a clear visibility of contiguous volumes in the coming years, the market dynamics are changing rapidly. Industry consolidation is gaining momentum and project sizes are becoming larger, bringing in advantages of scale at the project level. Wind tariff has reached a new normal, which is more acceptable for discoms that were earlier not willing to offtake costlier wind power. As a result, financiers are increasingly finding the wind sector a safe bet.
- There is an increased focus on technological innovation by manufacturers as they work towards bringing down the levellised cost of energy and increasing the plant load factor (PLF). The next generation turbines from leading manufacturers are likely to deliver around 35-40 per cent PLF in high wind states, which is almost twice the PLF compared to solar.
- Moreover, the government is providing a significant push to new technologies and project designs. Both solar-wind hybrids as well as offshore wind policies have been finalised. The target for solar-wind hybrids has been set at 10 GW by 2022, and that for offshore wind energy has been set at 5 GW by 2022 and 30 GW by 2030. It is now working towards finalising the National Energy Storage Mission, which is likely to have significant positive implications for the wind power sector.
- On the regulatory front, there is an increased focus on the effective implementation of forecasting and scheduling norms at the state level. Issues pertaining to banking of wind power and must-run status are also being resolved speedily. Waiver of interstate transmission charges has also been a positive move.
- However, the sector faces several risks and concerns with the biggest challenge pertaining to grid connectivity allocation and access. This will not only lead to significant delays in project development but also cost escalations. Progress in terms of enhancing and upgrading the transmission and distribution infrastructure to be able to absorb higher renewable energy capacities has also been slow. Meanwhile, reverse bidding has created a short-term pressure on the value chain, raising questions on the viability of projects at lower tariffs.
- **With this backdrop, the mission of this conference is to study the changing market dynamics, examine the new opportunities, assess the impact of recent policy and regulatory initiatives, discuss the risks and challenges, and showcase the latest innovations, most promising technologies and noteworthy projects. It will also provide a platform to project developers, EPC companies and technology providers to share their experiences and exchange ideas.**

Target Audience

- The conference is targeted at officials and managers from:

- Power producers (gencos)
- Power distributors (discoms)
- Power transmission companies (transcos)
- IPPs and Wind farm developers
- Wind turbine manufacturers
- Capital & maintenance dredging firms
- Equipment manufacturers
- Technology providers
- Operations & maintenance companies
- Renewable energy development agencies
- Carbon fund investors and managers
- Energy storage and system integration experts
- Design and engineering organisations
- Financial institutions and other investors
- Insurance companies
- Legal and consulting firms
- Research and certifying agencies
- Regulatory and other government agencies, etc.

Previous Participants

The participating organisations in our previous conferences on ***"Wind Power in India"*** *include* ***ABB, ABPS Infrastructure, Aditya Birla Management Corporation, AFMercados EMI, Arc Power, ACC, Acciona Wind Energy, Actis Advisers, Agrinergy Consultants, Akuo Energy, AMP Capital, APSPDCL, APTRANSCO, Andhra Pradesh Central Power Distribution, Arya Offshore, Aurum Equity, AVVNL, AWT Energy, Alar Infrastructure, Axis Bank, Baumer, Ben Line, BHEL, Bonfigioli, Beumer, Bhilai Engineering Corporation, BMR Advisors, Bonfiglioli Transmission, Bridge to India, Brokings India, BVG Clean Energy, CARE Ratings, CERC, CESC, Centre for Wind Energy Technology, Clean Trade, CLP Wind, Continuum Energy, CPRI, Doerken MKS, Diab, Desoutter Industrial Tools, Elecon, Emergent Ventures, Emerson , Enam Holdings, Engie, FEV India, Fortum, GAIL,GE, Fiza Developers & Infrastructure, Flidar, Fortum, Freyssinet Mernard, Gamesa Wind Turbines, GAIL, GE Renewable Energy, GERB, GETCO, GMR Gujarat Solar Pvt. Ltd, Green Infra, Greenko, Gujarat Alkalies and Chemicals, Gujarat Electricity Regulatory Commission, Gujarat Venture Finance Limited, GSEC, Gurit India, Hero Future Energies, Hetero Wind Power, HPCL, IDFC Infradebt, IBM, Idam Infrastructure, IDFC, Indian Energy Storage Alliance, IEX, IL&FS Renewable Energy, IFC, India Power, International Shipyard Dredging, INOX Wind, ISDPL, IREDA, Kailash Constructions, Kalani Industries, Karnataka Renewable EnergyDevelopment, KCT, Kenersys, ITW India,IWTMA, J. Sagar & Associates, KFW IPEX-Bank, Kirloskar Brothers, KP Energy, KPMG, KS Oils, Kshema Power, LM Wind Power Technologies, L&T Infra Finance, Mercados Asia, MEDA, MSEDCL, Marsh Insurance, Mitsubishi Chemicals, Ministry of New and Renewable Energy, Moser Baer Clean Energy, Moventa Winds, National Mineral Development Corporation, Nakoda Financial Services, NALCO, NAM S&T Centre, NCAER, NEDCAP, Nerolac Paints, Nereus Capital, Nerolac, National Institute of Wind Energy, NMDC, Nomura, NTC Group, NRG Sytems, Ostro Energy, ONGC, Orange Renewable, Orient Green Power, OST Energy, Owens Corning, Powerica, NTPC, PXIL, POSOCO, Power System Operation Corporation, Praxair, PTC India, Quadrant Engineers, Railnet, REC, Regen Powertech, Reliance Power, Renew Wind Power, Rosenberger, R K Systems, RRB Energy, Safire Capital Advisors, SAGTA, Sanghvi Movers, SECI, Senvion, Septett, Schunk, SBI, SBI Capital, Sembcorp, Shell Lubricants, Shree Cement, Shri Dinesh Mills, Siemens Gamesa, SJVNL, SMEC, SKF, SITAC, Sprng Energy, Sudheer Infrastructure, Suzlon, Swati Energy, Swan Energy, Surya Vidyut, Suyog Urja, Tamil Nadu Electricity Transmission Corporation, Tata Power, Tech & Management Consultant, TEDA, TERI, TNERC, Tata International, THDC, Tata Power, ThyssenKrupp , Trimble, Ultratech Cement, UN-ESCAP, UL India, Ushdev Power Holdings, Underwriters Laboratories, Ushdev International, Vestas, WAPCOS, Wartsila, Windforce Management, World Wind Energy Association, WindWorld, Yes Bank,*** *etc.*

AGENDA/STRUCTURE

The sessions at the conference will be spread across 10 themes.

KEY TRENDS AND OUTLOOK

Several wind capacity auctions have already been conducted by SECI and the state nodal agencies and many more are lined up in the coming years. As more capacity gets auctioned, new trends are emerging in the Indian wind power space.

- Impact of the volume game on tariffs and the industry structure
- Risks and roadblocks in wind power development
- Capacity addition outlook and the key growth drivers

MNRE'S PERSPECTIVE

The MNRE has played a pivotal role in promoting wind power development. It has released an ambitious tendering trajectory as well as defined standard competitive bidding guidelines to be followed by states.

- New targets and policies
- Policy risks and potential solutions
- Outlook and the way forward

REVISING THE 2022 WIND TARGET

The government is planning to scale up the 2022 target set for the wind power sector from the current 60 GW. Is the industry prepared to set up that capacity?

- SECI's outlook on wind tendering and the future project pipeline
- Growing consolidation to gain scale and efficiency
- Capacity building and project development challenges
- Outlook and insights

EVOLVING POLICY AND REGULATORY FRAMEWORK

The policy and regulatory framework is evolving to facilitate the wind sector's growth. Both central and state agencies and departments are providing a push to scale up capacity addition in the sector.

- CERC's perspective on facilitating grid integration
- Offtakers' risks and discom financials
- State nodal agencies' efforts to effectively implement policies
- Advancements under NIWE's wind resource assessment programme

TRANSMISSION CHALLENGES AND REQUIREMENTS

A number of developers have to wait for prolonged periods for getting access to power evacuation bays, while some are facing grid curtailment issues due to congestion in the transmission corridor, leading to tendering delays.

- Green Energy Corridor project and setting up REMCs
- Implemention of forecasting and scheduling norms
- State-level developments in enhancing T&D infrastructure

ROLE OF DIGITALISATION

For wind projects, digital technologies and solutions such as sensors and data storage can play a key role in areas such as project execution, site selection for new projects, plant availability and performance improvements.

- Application of big data, IoT and cloud computing in wind projects
- Cost savings and efficiency gains
- Case studies

EMERGING FINANCING PRACTICES

The overall industry structure is changing and the funding scenario is also maturing with new financing instruments being explored by players.

- Financing requirements
- Changing risk appetite of financiers
- New mechanism of financing

NEW TECHNOLOGIES AND INNOVATION

Efficiency improvement leads to higher ROIs. Technology innovation is, therefore, essential to keep wind power competitive with other sources of energy.

- New and innovative turbine designs and their application in India
- Alternative materials for blades and towers (steel, aluminium, fibre, concrete, etc.)
- Innovation in logistics
- Inverter technology trends
- Role of energy storage

WIND-SOLAR HYBRIDS

The sector is witnessing increased interest from developers in setting up large-scale wind-solar hybrid projects. The national wind-solar hybrid policy, which targets 10 GW of capacity by 2022, will facilitate the development of these projects.

- Cost economics and the experience so far
- Emerging policy and regulatory profile
- Outlook and challenges
- Case Studies

OFFSHORE WIND

Offshore wind is another opportunity that is coming up, for which the government has already notified the National Offshore Wind Policy. However, the high cost of these projects has been the biggest roadblock in developing offshore capacity in India.

- Cost economics and the global experience
- Current status in India
- Outlook and challenges

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. The company publishes* ***Power Line*** *(India's premier power magazine) and* ***Renewable Watch*** *(covers the entire spectrum of renewable energy),* ***Power News*** *(a weekly newsletter), and a series of research reports including* ***Wind Power in India, Solar Power in India, Competitive Bidding for Wind Projects, Open-Access for Renewables, Power Distribution in India*** *and* ***Power Transmission in India****. It also publishes the* ***Wind Power Directory and Yearbook****.*

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Registration Form

☐ I would like to register for the conference. I am enclosing Rs_____vide cheque/demand draft no._____ drawn on _____dated _____ in favour of **India Infrastructure Publishing Pvt. Ltd** payable at New Delhi.

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Sponsorship opportunities are available

Date	:	August 27, 2018	Date	:	August 28, 2018
Registration starts	:	8.30 AM	Registration starts	:	8.30 AM
Conference Time	:	9.15 AM - 5.15 PM	Conference Time	:	9.15 AM - 3.00 PM

Venue: Shangri-La's The Eros, New Delhi

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Registration Fee

	Fee			
Delegates	INR	GST@18%	Total INR	Total USD
One delegate	22,500	4,050	26,550	443
Two delegates	37,500	6,750	44,250	738
Three delegates	52,500	9,450	61,950	1,033
Four delegates	67,500	12,150	79,650	1,328

- There is a special low fee of Rs 5,000 per participant for state-owned gencos, transcos and discoms, regulatory authorities and academic institutions.
  GST @ 18 per cent is applicable on the registration fee.
- To register online, please log on to http://indiainfrastructure.com/conf.html

Terms and Conditions:

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