



9th Annual Conference on

WIND POWER IN INDIA

New Avenues and Opportunities Amidst Challenges

July 31-August 1, 2019, Le-Meridien, New Delhi

Organisers:

POWERLINE **RenewableWatch**

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WIND POWER IN INDIA

Mission

- The wind power sector in India has undergone a paradigm shift since the competitive bidding regime was announced in 2017. The Solar Energy Corporation of India (SECI) has conducted six auctions so far, awarding 8,440 MW of wind power capacity, and the seventh SECI auction for 1,200 MW has already been announced. Driven by competition, tariffs had fallen to a record low of Rs 2.43 per kWh before rising to Rs 2.83 per kWh.
- With tariffs falling to such low levels, state governments too stopped purchasing power at fixed feed-in tariffs and launched their own auction programmes. The states' as well as NTPC's programmes of up to 2,550 MW have taken the total project awards to 11,000 MW.
- However, the on-the-ground implementation of these projects has been poor. One, there is a lack of adequate transmission capacity. Two, a significant majority of bidders has decided to set up projects in Gujarat and Tamil Nadu, leading to land-related issues. In fact, Gujarat recently announced a land allocation policy, asking IPPs to shift to wind parks, a move that has evoked sharp protests from the industry.
- On the bright side, low tariffs have resulted in higher wind power offtake as discoms now prefer it to other sources. A transparent and streamlined project allocation mechanism has been put in place with well defined trajectories to achieve the desired targets. Greater consolidation is being witnessed in the industry, weeding out non-serious-non-core developers. Moreover, project sizes are becoming larger, bringing in advantages of scale.
- 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 being resolved speedily. The waiver of interstate transmission charges has also been a positive move.
- There also has been greater clarity on evacuation infrastructure availability, with Power Grid Corporation of India Limited pressing ahead with building substations and transmission lines. The government is contemplating substation-wise auctions in order to avoid transmission-related roadblocks and allow bidders to quote a price factoring in substation availability. As for land, wind companies have now started buying private land or locating projects elsewhere, with SECI's cooperation.
- With these steps, the expectation is that a lot of projects will come up in 2019-20, unlike in 2018-19, when just around 2 GW of wind capacity was added.
- Besides, the government is providing a significant push to new technologies and project designs. Both solar-wind hybrid, and offshore wind policies have been finalised. The target for solar-wind hybrids has been set at 10 GW by 2022, while the offshore wind energy target has been set at 5 GW by 2022 and 30 GW by 2030. Finally, there has been a growing focus on energy storage technologies for the wind power sector.
- **The mission of this conference is to study the changing market dynamics, examine new opportunities, assess the impact of recent policy and regulatory initiatives, discuss the risks and challenges, and showcase the latest innovations, 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, AVWL, AWT Energy, Alar Infrastructure, Axis Bank, Baumer, Ben Line, BHEL, Bonfiglioli, Beumer, Bhilai Engineering Corporation, BMR Advisors, Bonfiglioli Transmission, Bridge to India, Brokings India, BVG Clean Energy, CARE Ratings, CERC, GESC, 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 Energy Development, 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 Systems, 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, 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

KEY TRENDS AND MARKET OUTLOOK

- ❖ What have been the major trends in wind power tariffs and the changes in the industry structure?
- ❖ What are the key risks and roadblocks in wind power development?
- ❖ What is the capacity addition outlook? What are the key growth drivers?

MNRE'S PERSPECTIVE

- ❖ What are the new targets and policies?
- ❖ What are the key policy risks and potential solutions?
- ❖ What is the outlook?

SECI'S PERSPECTIVE

- ❖ What has been the response to the recent tenders released by SECI?
- ❖ What is being done to address the challenges pertaining to project delays?
- ❖ What is SECI's perspective on substation-wise wind tendering and the future project pipeline?

DISCOMS' PERSPECTIVE

- ❖ What have been the key policy initiatives taken to promote wind power development in the state?
- ❖ What have been the key trends and what is the status of non-RPO compliance?
- ❖ What are the targets and the way forward?

OFFTAKERS' RISKS

- ❖ What has been the discoms' performance in cost coverage and tariffs?
- ❖ What has been the impact of the UDAY scheme on their performance?
- ❖ What is the impact of wind power procurement on discom finances?

TRANSMISSION CONSTRAINTS AND SOLUTIONS

- ❖ What is the current status of the Green Energy Corridor project and REMCs?
- ❖ What are the state-level developments?
- ❖ What is the future transmission capacity requirement for the wind sector?

EMERGING REGULATORY SCENARIO: IMPLEMENTATION OF F&S, DSM AND MERIT ORDER DESPATCH

- ❖ What are the major challenges faced in the implementation of forecasting and scheduling norms?
- ❖ What are the possible solutions?
- ❖ What are the new technologies being adopted by transmission companies for renewable integration?

TURBINE TECHNOLOGY TRENDS

- ❖ What are the emerging wind turbine technologies trends in India and globally?
- ❖ What are the new materials being used for towers, blades and foundations?
- ❖ What is the outlook for turbine efficiency, especially in India?

AUTOMATION IN WIND O&M

- ❖ What are the key applications of big data, IoT and cloud computing in wind projects?
- ❖ What are the associated cost savings and efficiency gains?
- ❖ What are some of the case studies in this space?

SOLAR-WIND HYBRIDS

- ❖ What has been the experience so far in the solar hybrid space in India?
- ❖ What is the emerging policy framework?
- ❖ What are the key challenges - technical, regulatory and financial?

WIND + ENERGY STORAGE: COST AND TECHNOLOGY

- ❖ What are the key cost and technology trends in the power storage space?
- ❖ Which storage technologies are best suited for wind power projects?
- ❖ What initiatives are being taken to promote storage? What is the outlook?

REPOWERING AND OFFSHORE WIND

- ❖ What is the cost economics and the global experience?
- ❖ What is the current status in India?
- ❖ What is the outlook for the two sub-segments in India?

NIWE'S PERSPECTIVE

- ❖ What have been the advances under NIWE's wind resource assessment programme?
- ❖ What is the current wind power potential in the country?
- ❖ What are the ongoing studies to assess solar-wind hybrid and offshore potential?

THIRD-PARTY PPAS: OPEN ACCESS AND CAPTIVE WIND POWER

- ❖ What is the opportunity size in this space?
- ❖ What is the emerging regulatory scenario for open access and captive wind projects?
- ❖ How do the margins and risks under third-party PPAs compare with those of discom-based PPAs?

TRENDS IN FINANCING

- ❖ What are the financing requirements of the wind power sector?
- ❖ How has the risk appetite of financiers changed over time for wind power projects?
- ❖ What are the new and emerging mechanisms for financing these projects?

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 _____ Company GST No. _____ in favour of India Infrastructure Publishing Pvt. Ltd. payable at New Delhi.

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Sponsorship opportunities are available

Date	: July 31, 2019	Date	: August 1, 2019
Registration starts	: 8.45 AM	Registration starts	: 8.30 AM
Conference Time	: 9.45 AM - 5.00 PM	Conference Time	: 9.45 AM - 3.00 PM
Venue: Le-Meridien, New Delhi			

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Delegates	Discounted fee (before July 11, 2019)				Fee without discount (after July 11, 2019)			
	INR	GST@18%	Total INR	Total USD	INR	GST@18%	Total INR	Total USD
One delegate	18,000	3,240	21,240	354	22,500	4,050	26,550	443
Two delegates	30,000	5,400	35,400	590	37,500	6,750	44,250	738
Three delegates	42,000	7,560	49,560	826	52,500	9,450	61,950	1,033
Four delegates	54,000	9,720	63,720	1,062	67,500	12,150	79,650	1,328

- There is a 20 per cent "early bird" discount for those registering before July 11, 2019.
- There is a special low fee of Rs 5,000 per participant for state-owned gencons, 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:

- The conference is a non-residential programme
- Registration will be confirmed on receipt of the payment. Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference materials.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

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