



7th Annual Conference on

WIND POWER IN INDIA

New Regime; Opportunities and Challenges

August 28-29, 2017, Le Meridien, New Delhi

Organisers:

POWERLINE **RenewableWatch**

Co-sponsor*:



*Lead and Co-sponsor slots available

WIND POWER IN INDIA

Mission

- The wind power sector is in for exciting times. The success of the 1 GW wind capacity auction, which saw tariffs falling to Rs 3.46 per kWh, seems to be having a positive ripple effect with all the states looking to migrate from a feed-in tariff (FiT) regime to competitive bidding for project allocation.
- The past one month has seen the launch of four new tenders for wind power capacity – a 1 GW tender by the Solar Energy Corporation of India (SECI), a 500 MW tender by Tamil Nadu Generation and Distribution Corporation Limited, a 500 MW tender by Gujarat Urja Vikas Nigam Limited, and a 250 MW tender by NTPC. Rajasthan and Andhra Pradesh have also announced their intention to soon release their tenders.
- At a time when the wind power sector has been hit by inordinate delays in the signing of power purchase agreements (PPAs) and untimely payments, and discoms have shied away from procuring power generated by wind projects, this transition to a competitive bidding regime has been received well across the value chain.
- For developers that were awaiting approvals/clearances from various state departments before signing PPAs with discoms, this is an opportunity to develop a large amount of capacity at sites owned by them. For the financially stressed state discoms, the tariff at which they are currently buying wind power is much higher than the tariff quoted in the SECI auction. It, therefore, makes sense for these utilities to procure power at market-determined tariffs.
- However, the risks related to power offtake and payments will need to be addressed more seriously, given the stressed balance sheets of the discoms and the lack of adequate transmission infrastructure. The state governments need to work towards resolving the challenge of intermittency associated with wind power through the effective implementation of forecasting and scheduling norms and increased efforts to make storage solutions viable.
- Moving to the new regime may have another major downside. Discoms may try to renegotiate the existing PPAs for capacity that is already operational, which may not go down well with the investors.
- Despite the aforementioned challenges, the good news is that the auction route reinforces the IPP-led wind energy business model. The sector is also witnessing increased interest from developers in setting up large-scale wind-solar hybrid projects. The draft national wind-solar hybrid policy, which targets 10 GW of capacity by 2022, will facilitate the development of these projects. Offshore wind is another opportunity that is coming up, for which the government has already notified the National Offshore Wind Policy.
- Going forward, these initiatives will trigger higher capacity additions in the wind sector, which has so far been adding 2-3 GW per annum. If all goes well, these will help the industry achieve the target of 60 GW by 2022.
- **The mission of this conference is to examine the new opportunities in the sector, study the impact of recent policy and regulatory initiatives, discuss the risks and challenges, and showcase the latest innovations, most promising technologies and noteworthy projects. The conference 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)
 - Wind farm developers
 - Equipment manufacturers
 - Technology providers
 - Renewable energy development agencies
 - Carbon fund investors and managers
 - Financial institutions and other investors
 - Consultancy organisations
 - 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, AF-Mercados EMI, Arc Power, ACC, Acciona, Actis, Agrinergy Consultants, Akuo Energy, AMP Capital, APSRTC, Andhra Pradesh Central Power Distribution, Arya Offshore, Aurum Equity, AVVNL, AWT Energy, Alar Infrastructure, Ben Line, BHEL, Bonfiglioli, Beumer, Bhilai Engineering Corporation, BMR Advisors, CERC, C-WET, CARE Ratings, Clean Trade, Doerken MKS, Diab, Desoutter Industrial Tools, Elecon, Emergent Ventures, Emergent Ventures, Enam Holdings, FEV India, Fortum, GAIL, GE, Fiza Developers & Infrastructure, Flidar, Gamesa Wind Turbines, GE Renewable Energy, GETCO, GMR Gujarat Solar Pvt. Ltd, Green Infra, Greenko, Gujarat Alkalies and Chemicals, Gujarat Electricity Regulatory Commission, Gujarat Venture Finance Limited, Gurit India, Hero Future Energies, Hetero Wind Power, HPCL, IDFC Infra, IBM, Idam Infrastructure, IDFC, Indian Energy Storage Alliance, IEX, IL&FS Renewable Energy, IFC, India Power, ISDPL, IREDA, Kailash Constructions, Kalani Industries, Karnataka Renewable Energy Development, Kenersys, ITW India, J. Sagar & Associates, KFW IPEX-Bank, Kirloskar Brothers, KP Energy, KS Oils, Kshema Power, LM Wind Power Technologies, L&T Infra Finance, Mercados Asia, MSEDCL, Marsh Insurance, Mitsubishi Chemicals, Ministry of New and Renewable Energy, Moser Baer Clean Energy, Moventia 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, Nomura, NTC Group, Ostro Energy, ONGC, Orange Power, Orient Green Power, OST Energy, Owens Corning, Powerica, PXIL, POSOCO, Power System Operation Corporation, Praxair, PTC India, Quadrant Engineers, RRB Energy, REC, Regen Powertech, Renew Wind Power, Safire Capital Advisors, Sanghvi Movers, SBI, SBI Capital, Shell, Shree Cement, Shri Dinesh Mills, SSB Wind Systems, State Bank of India, SMEC, SKF, SITEC, Sudheer Infrastructure, Suzlon, Swati Energy, Swan Energy, Surya Vidyut Limited, Tamil Nadu Electricity Regulatory Commission, Tata International, THDC, Tata Power, ThyssenKrupp-Rothe Erde India, UN-ESCAP, UL India, Ushdev Power Holdings, Underwriters Laboratories, Ushdev International, Vestas, 3 W Tier India, WAPCOS, Windforce Management, WISE, World Wind Energy Association, WindWorld, Yes Bank, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What are the trends in wind power sector in India? What are the key growth drivers?
- ❖ What is the likely impact of migrating from an FiT-based regime to a competitive bidding regime?
- ❖ What are the key challenges in the sector? What is the capacity addition outlook?

MNRE's PERSPECTIVE: POLICY ROADMAP TO ACHIEVE THE 60 GW TARGET

- ❖ What steps are being taken to help the wind power sector achieve the 60 GW target?
- ❖ What new policy initiatives will be required for attracting investments and fuelling growth in the sector?
- ❖ What is the road ahead for wind-solar hybrids and offshore wind in India?

SECI's PERSPECTIVE: COMPETITIVE BIDDING-BASED WIND PROJECT ALLOCATION

- ❖ What are the key features and timelines of the scheme for the award of 1,000 MW of wind projects?
- ❖ How does the second tranche of allocation differ from the first tranche?
- ❖ What challenges do you foresee? What is the proposed capacity allocation?

STATE POLICIES AND PROGRAMMES: MOVING FROM FIT TO REVERSE AUCTION

- ❖ What are the key features of the states' new competitive bidding framework for wind project allocation?
- ❖ What are the new policy targets? What are the upcoming tenders?
- ❖ What are the key challenges? What solutions do the state governments propose?

DEVELOPERS' PERSPECTIVE

- ❖ What has been the experience of the key players? What is the perspective on the reverse auction mechanism?
- ❖ What are the expectations in terms of market growth, technology trends, etc.?
- ❖ What are the suggestions to the government for accelerating sector growth?

DOMESTIC MANUFACTURING AND EXPORTS

- ❖ What is the current state of wind power equipment manufacturing in India?
- ❖ What is the current level of exports? What steps need to be taken to promote exports?
- ❖ What are the key hurdles and possible solutions?

GRID INTEGRATION AND MANAGEMENT

- ❖ What is the current experience with respect to grid integration and management?
- ❖ What is the roadmap for the implementation of the Green Energy Corridors project?
- ❖ What are the state transcos doing to ensure effective grid connectivity of wind power?

FORECASTING, SCHEDULING AND IMBALANCE HANDLING

- ❖ What are the likely implications of the CERC's forecasting and scheduling norms?
- ❖ What are the available forecasting models/tools? What are their accuracy levels?
- ❖ What is the international experience in this regard?

INVESTMENT AND FINANCING

- ❖ What has been the financiers' experience in this space? What are the key risks?
- ❖ What are the likely financing requirements of the sector in the next two to three years?
- ❖ What innovative financing structures can be expected for wind power in future?

DISCOM FINANCES AND OFFTAKE RISKS

- ❖ What is the current state of discom finances across various states?
- ❖ How do the financial losses of discoms impact their credibility and capability in buying wind power?
- ❖ What has been the progress so far under the UDAY scheme?

RENEWABLE ENERGY CERTIFICATES

- ❖ What is the business case for REC-based wind power projects, especially in light of competitive bidding?
- ❖ How does the project economics of REC-based wind power plants compare with FiT-based projects?
- ❖ What has been the trading experience so far? What are the key issues and challenges?

OPERATIONS AND MAINTENANCE PRACTICES

- ❖ What is the role and importance of operations and maintenance (O&M) for wind power projects?
- ❖ What has been the experience of the key players? What are the major issues and challenges faced by developers?
- ❖ What are the key factors determining the O&M costs? How can these be optimised?

REGULATORY ROUNDUP

- ❖ What is the status of RPO compliance across states?
- ❖ What has been the response to the CERC's forecasting and scheduling norms?
- ❖ What are the upcoming and expected regulatory developments?

TECHNOLOGY TRENDS AND INNOVATIONS

- ❖ What have been the latest technological advancements for ensuring optimal wind power generation?
- ❖ What is their impact on cost, performance and maintenance?
- ❖ What are the new cutting-edge technologies in the pipeline for onshore and offshore wind turbines?

LEGAL AND FISCAL ISSUES: FOCUS ON PPAs, EPC CONTRACTS AND GST

- ❖ What should be the key considerations while signing PPAs?
- ❖ What should be the key considerations while drafting EPC contracts?
- ❖ What is the likely impact of GST on wind equipment costs and development?

SPOTLIGHT ON ENERGY STORAGE

- ❖ What are the various types of energy storage technologies relevant to wind power generation in India?
- ❖ What are the costs and benefits of adopting these solutions?
- ❖ What have been the MNRE's initiatives in promoting storage solutions for renewable energy projects?

NIWE's PERSPECTIVE

- ❖ What is the current wind resource potential in India? What are the plans to reassess this potential?
- ❖ What is the current status of the offshore wind potential assessment project?
- ❖ What steps are necessary to overcome the risks and challenges faced in offshore wind power development?

EMERGING OPPORTUNITIES: OFFSHORE WIND AND WIND-SOLAR HYBRIDS

- ❖ What is the potential of offshore wind development in India? What are the ongoing initiatives in this regard?
- ❖ What is the potential of wind-solar hybrid systems? What is the cost economics of such systems?
- ❖ What are the cost trends globally? What is the future outlook?

REPOWERING OF WIND FARMS

- ❖ What is the wind plant repowering potential in India?
- ❖ What is the cost of repowering?
- ❖ What are the benefits and challenges associated with repowering? What has been the industry experience so far?

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Date	: August 28, 2017	Date	: August 29, 2017
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: Le Meridien, New Delhi			

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Delegates	Fee			
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Two delegates	37,950	6,831	44,781	689
Three delegates	53,400	9,612	63,012	969
Four delegates	68,850	12,393	81,243	1,250

- There is a special low fee of Rs 5,000 per participant for state-owned gencos, transcos and discoms, regulatory authorities and academic institutions.

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Organiser

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**, **Solar Plant Performance in India**, **Power Distribution in India** and **Power Transmission in India**. It also publishes the **Wind Power Directory and Yearbook**.