10th Edition
A VIRTUAL CONFERENCE
WIND POWER IN INDIA
Sector Outlook and the Way Forward
October 26, 2020

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3rd Edition
A VIRTUAL CONFERENCE
BIOMASS POWER IN INDIA
Trends, Challenges and Outlook
October 27, 2020
The conference is targeted at officials and managers from:

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

The mission of this one-day virtual event is to study the impact of Covid on wind 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.

# Agenda/Structure

**Sector Trends: New Developments and Revised Outlook**
This session will feature a presentation by a leading consultant
- How has wind power fared in the energy mix? What are the key drivers, risks and hurdles?
- In what ways has the Covid-19 outbreak changed the investor perception in favour of wind power?
- What is the revised policy and regulatory outlook? What is the way forward?

**MNRE’s Perspective: Enabling Project Supply and Development**
This session will feature remarks by a senior representative from the MNRE
- What have been the MNRE’s key initiatives to scale up the development of wind power projects?
- What has been the impact of recent policy moves? What are the challenges facing the industry?
- What are the upcoming policy initiatives in this space?

**SECI’s Tendering Strategy and Direction**
This session will feature remarks by a senior representative from SECI
- What are SECI’s plans for meeting timelines under its wind tendering trajectory?
- Is SECI planning to launch more 24x7 tenders? What are the key challenges in such projects?
- How has the wind capacity addition outlook up to 2022 changed?

**Industry Conclave: Key Lessons from Covid-19 Crisis**
This session will feature a panel discussion among senior representatives from wind IPPs and OEMs
- What is the developer outlook for the solar sector post Covid-19? What are the key concerns and investment plans?
- What is the OEMs’ perspective on building the domestic supply chain? What are the key hurdles?
- What are the industry’s expectations from the government and other stakeholders?

**State of DISCOM Finances: Impact on PPA Credibility & Power Offtake**
This session will feature a presentation by a leading consultant
- What is the status of discom financing with respect to profitability, AT&C losses, outstandings, etc.?
- Which states have been the most impacted? What are the projections for the next fiscal?
- What is the impact of their finances on PPA credibility and power offtake?

**Investor and Lender Perspective**
This session will feature a panel discussion among senior representatives of leading funds, banks and other financial institutions with exposure/interest in the solar sector
- What is the lender and investor stance on the wind power sector, especially post Covid-19?
- What are the biggest issues or sore points (land and grid constraints, PPA sanctity, offtaker risks, etc.)
- What is the future outlook?

**Spotlight**
This session will feature presentations and discussions among leading subject matter experts from the industry as well as government departments

**Offshore Wind: When Will It Become Viable?**
- What have been the growth trends across the world? What is the current status in India?
- How has the cost economics evolved? What are the major policy and regulatory gaps in India?
- What is the medium- and long-term outlook? What factors would make it viable for India?

**Renewable Energy Hybrids and Energy Storage**
- What has been the experience of solar-wind hybrids in India? What is the cost economics?
- What is the role of energy storage? What has been the progress in this space so far?
- What is the project-level experience? What are the key challenges? What is the future outlook?

**Digitalisation and Remote Monitoring: Focus on F&S and DSM**
- What have been the key initiatives in terms of remote management of operations and maintenance?
- What are the emerging digital solutions for forecasting and scheduling implementation?
- What is the cost-benefit analysis of going digital?
In a significant development, India surpassed the target of achieving 10 GW of biopower-based installed capacity in early 2020, two years before the planned timeline. The current installed biopower generation capacity, including bagasse- and non-bagasse-based cogeneration/captive power and waste-to-energy (WtE) projects, stands at over 10,100 MW.

The main driver of this growth has been biomass cogeneration. In comparison, the WtE segment has been slow to pick up, but holds considerable potential in the country given the quantum of waste generation.

The Ministry of New and Renewable Energy (MNRE) has introduced various programmes for promoting the bioenergy segment in India. It provides central financial assistance under these programmes for project development, programme implementation, information dissemination and trainings. These include the New National Biogas and Organic Manure Programme, the Biomass Power and Bagasse Cogeneration Programme, and the Biomass Gasification Programme. The Biogas-based Power Generation (off-grid) and Thermal Energy Application Programme (BPGTP) is also being implemented for 3-250 kW capacity plants.

In early 2020, the MNRE revised the guidelines for its WtE programme. A new addition to the guidelines was the inclusion of municipal solid waste-based projects based on the clarification by the Department of Expenditure. The objective of the programme is to set up projects based on biogas or bio-CNG, urban, industrial and agricultural waste, captive power, and thermal gasification in industries. It also promotes the setting up of projects for the recovery of energy from municipal solid waste, which can be fed into the grid and used for meeting the captive power, thermal and vehicular fuel requirements.

Bioenergy offers over 200 GW of largely untapped power potential, but the segment has been growing at a slow pace. A key issue is the absence of an organised market for biomass. Due to the lack of fuel supply agreements/linkages, companies cannot accurately forecast fuel price movements. Moreover, fuel costs have nearly doubled in the past couple of years, but the feed-in tariffs have not been revised accordingly.

In order to promote growth in the segment, a variety of measures are needed. Scalable business models (such as biomass-based microgrids, round-the-clock renewable energy and energy storage-based biomass) and enabling policy frameworks can provide the much needed boost to the segment and help address the country’s growing waste disposal problem.

The mission of this conference is to highlight the opportunities, challenges and risks in the biomass segment, and examine the solutions and strategies. It will also provide a platform for sharing experiences and deliberating on the policy and regulatory support needed to promote biomass-based power development.

Target Audience

- The conference is targeted at officials and managers from:
  - Biomass project developers
  - Biomass equipment manufacturers
  - Supply chain management organisations
  - Regulatory and other government agencies
  - State electricity development agencies
  - Testing and certification agencies
  - Research institution and organisations
  - Financial institutions and investors
  - Project advisory firms
  - Carbon fund managers
  - EPC contractors
  - Off-grid players
  - Technology providers
  - Discoms and gencos
  - Captive power users
AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- What are the key trends in the biomass-based energy generation segment?
- What are the key challenges? What are the emerging business models?
- What role could biomass power play in the future energy mix? What is the market outlook?

KEY PLAYERS’ PERSPECTIVE: EMERGING BUSINESS MODELS AND STRATEGIES

- What has been the experience of key players in terms of investment and operations? What are their future plans?
- What strategies and business models are developers adopting to address their challenges?
- What are the suggestions to the government/regulators for expediting growth?

POLICY AND REGULATORY PERSPECTIVE

- What are the existing biomass policies and programmes?
- What key initiatives are being taken by the central and state regulators to promote biomass-based power development?
- Which states are leading the way in terms of policy and regulatory support?
- What are the upcoming initiatives and programmes? What are the opportunities for private developers?

TARIFFS AND COST ECONOMICS

- What have been the tariff trends? How does it compare to alternatives?
- What are the key factors impacting the financial viability of biomass projects?
- What are the financing risks for biomass projects? How can these be mitigated?

BIOMASS-BASED MICROGRIDS

- What has been the microgrid operators’ experience so far?
- What is the tariff determination process for these projects? How do tariffs vary across regions?
- What are the key issues and challenges?
- What is the current policy and regulatory framework for this sub-segment?

TECHNOLOGY SHOWCASE

- What are the various technology options for biomass-based power generation?
- Which technologies are the most promising and relevant in the Indian context?
- What are the pros and cons of these technologies?

PROJECT SHOWCASE

- What are some of the noteworthy projects?
- What are the key project features (size, location, cost, financing, design, technology, etc.)
- What has been the experience? What are the lessons learnt?
**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 FORM

- I would like to register for the "WIND POWER IN INDIA" conference (October 26, 2020)
- I would like to register for the "BIOMASS POWER IN INDIA" conference (October 27, 2020)
- I would like to register for both the conferences

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**Registration Fee**

### Both conferences

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- There is a 25 per cent discount before September 29, 2020
- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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. 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 series of research reports on Wind Solar Hybrid, Competitive Bidding for Wind Projects, Waste to Energy, and Industrial Solar Market in India. It also publishes the Wind Power Directory and Yearbook.

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