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14th Edition

SOLAR POWER In India

A VIRTUAL CONFERENCE

May 19-20, 2021

Organiser:

RenewableWatch

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Solar Power in India

Mission

- While renewables have witnessed significant growth over the past decade, the solar power segment has clearly outshone others in terms of growth and uptake. This growth is well reflected in the fact that solar power capacity in India has increased from about 10 MW in 2010 to about 36 GW today, a steep 3,600 times increase in the span of a decade.
- Although growth in 2020 has been hampered by the Covid-19 crisis, overall, solar in India has reached 36 per cent of the government's target of 100 GW by 2022, and currently accounts for 4 per cent of the country's renewable energy generation mix.
- Within the solar power space, utility-scale projects have driven large-scale capacities. However, the share of rooftop solar has also started increasing over the past few years. Driven by a significant decline in equipment costs and supportive government policies, rooftop solar projects are rapidly finding their way into the energy mix of institutional, commercial and industrial consumers. Residential consumers have, however, been slow to adopt these systems.
- Niche solutions such as floating and canal-based solar photovoltaics have also emerged as attractive alternatives to ground-based projects. However, actual growth in this space is only set to happen now, as cost efficiency starts setting in.
- The market is already experiencing new dynamics. New bids such as solar-wind hybrids; solar power-based energy storage; round-the-clock, peak power supply; and open trade of power have opened up avenues for innovation.
- Meanwhile, the Covid-19 situation and the resultant supply chain issues have underlined the importance of self-reliance. The government has been laying emphasis on local production under the Atmanirbhar Bharat Abhiyan and Make in India initiatives. It has also been taking steps such as the extension of safeguard duties on imported solar cells and modules, promotion of manufacturing-linked tenders, and identification of land parcels across major ports to set up production units, in order to incentivise local production.
- Issues and challenges pertaining to land constraints, off-takers' risks, payment delays and grid integration of solar power are also being resolved, but at a very slow pace.
- In terms of maintaining project quality, better asset management and demand-side management, made possible through data analytics and digitalisation of storage, will be key. With digitalised systems, it should be possible to realise the idea of prescriptive maintenance over preventive maintenance. Advancements in the design of solar plants and in maintaining grid stability will also cater to changing regulations and standards, as solar continues to increase in capacity and status.
- **The mission of this conference is to discuss the key trends and developments in the solar power sector, identify the potential strategies to fast-track development, showcase noteworthy projects and technologies, and highlight the near and medium-term outlook and opportunities for the solar power sector in India. The conference will also provide an excellent forum for all stakeholders including solar power developers, consultants, technology providers and equipment manufacturers to share their experience and exchange views.**

Target Audience

The conference is targeted at:

- Project developers
- Rooftop solar developers
- Conventional power developers
- Equipment manufacturers
- Captive power consumers
- EPC providers
- PV manufacturers
- Power utilities (discoms, transcos, gencos)
- Regulatory agencies
- System integrators
- R&D institutions
- Independent power producers
- Power exchanges
- Law firms
- Technology providers
- Financial institutions
- Consultancy organisations
- Policymakers
- Energy storage experts
- Investors
- Etc.

AGENDA/STRUCTURE

SECTOR TRENDS: PERFORMANCE AND FUTURE OUTLOOK

This session will feature a presentation by a leading consultant

- ❖ How has the solar power sector performed in 2020? What were the key drivers, risks and hurdles?
- ❖ What have been the reasons for the recent drop in solar tariffs?
- ❖ What has been the response to tenders for emerging segments (such as round-the-clock power and peak power supply)?
- ❖ What is the policy and regulatory outlook? What is the way forward?

SECI'S PERSPECTIVE: PLANS AND TENDERING TRAJECTORY

This session will feature remarks by a senior representative from the Solar Energy Corporation of India (SECI)

- ❖ What are SECI's tendering plans for achieving the 2022 solar target? What are the key challenges it foresees in meeting this target?
- ❖ Is SECI planning more round-the-clock and hybrid auctions? What are its plans in the manufacturing space?
- ❖ What is the outlook for capacity addition till 2022, and how has it changed?

NTPC'S PERSPECTIVE: TENDERS AND PROJECT DEVELOPMENT

This session will feature remarks by a senior representative from NTPC

- ❖ What is NTPC's installed and upcoming solar power capacity?
- ❖ What has been the response to recent NTPC solar tenders? What have been the tariff trends?
- ❖ What are its long-term targets in the solar space? How does it plan to achieve these targets?

DEVELOPERS' PERSPECTIVE AND PLANS

This session will feature a panel discussion among senior representatives from the solar IPP community

- ❖ What are the investment plans of the developers? How has the developer outlook changed post Covid-19?
- ❖ What are the key concerns and hurdles?
- ❖ What are the industry's expectations from the government and other stakeholders?

POLICY AND REGULATORY FRAMEWORK

This session will feature a presentation/remarks by a leading regulatory expert

- ❖ What are the major regulatory gaps in the solar power space? How can these be addressed?
- ❖ What are the key policy interventions required for continued growth of the solar power sector?
- ❖ What are the key amendments to the Electricity Act that pertain to renewable energy development?

ATMANIRBHARTA: FOCUS ON DOMESTIC MANUFACTURING

This session will feature a panel discussion among the CTOs of solar module manufacturers

- ❖ What is the perspective of manufacturers on building a domestic supply chain?
- ❖ What are the key risks and hurdles? What are the industry's expectations from the government and other stakeholders?
- ❖ How are the safeguard duty & basic customs duty helping promote local manufacturing?

STATE FOCUS

This session will feature a panel discussion as well as presentations by senior representatives of state renewable energy departments and nodal agencies

- ❖ What is the share of solar power in the capacity mix? What are the upcoming tenders and projects?
- ❖ What have been the key policy and regulatory initiatives across states?
- ❖ What are the main challenges, and how can these be addressed?

UTILITY PERSPECTIVE

This session will feature a panel discussion among senior representatives of utilities

- ❖ What has been the experience of discoms in terms of demand-supply management, impact on local grids, etc.?
- ❖ What are the key operational challenges emerging for discoms due to the higher uptake of commercial and industrial (C&I) solar?
- ❖ What are the future solar procurement plans of the utilities?

FINANCIERS' 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

- ❖ How has solar power financing evolved over the years? What is the preferred mode of financing these projects?
- ❖ What are the biggest risks for investors and lenders? How can these be addressed?
- ❖ What is the future investment outlook for the solar power sector?

SOLAR GRID INTEGRATION AND ENERGY STORAGE

This session will feature a presentation/remarks by a transmission sector expert

- ❖ What has been the progress of the Green Energy Corridors project?
- ❖ How have transmission constraints impacted solar power development?
- ❖ Is India ready for 100 GW of solar power? What are the best load balancing strategies for integrating such a high capacity of solar power into the grid?
- ❖ How can utility-scale energy storage help manage the increased influx of intermittent solar generation?

ROOFTOP SOLAR AND NET METERING

This session will feature remarks by a rooftop solar developer

- ❖ What has been the experience in terms of investments and setting up these projects?
- ❖ What are the key challenges that developers face in such projects? How do they address these issues?
- ❖ How will the recent restriction on net metering impact rooftop solar growth?

NEW BUSINESS FRONTIERS: FLOATING SOLAR AND HYBRIDS

This session will feature a presentation/remarks by experts from each of these segments

- ❖ What has been the experience in setting up and operating floating solar plants? What are the cost economics?
- ❖ What has been the experience of solar-wind and round-the-clock projects in India? How do the tariffs compare with utility-scale solar? What are the key challenges?
- ❖ Are more such tenders expected? What is the outlook?

C&I CONSUMER PERSPECTIVE: FOCUS ON OPEN ACCESS

This session will feature a presentation/remarks by experts from leading corporates procuring solar power

- ❖ What are the preferred modes and business models for procuring C&I solar power?
- ❖ What has been the experience of consumers in terms of benefits and challenges?
- ❖ What are the operational savings vis-a-vis grid power?

FOCUS ON SOLAR OPERATIONS AND MAINTENANCE

This session will feature a presentation/remarks by leading operations and maintenance (O&M) players

- ❖ What is the perspective of O&M players? What is the market size for third-party O&M?
- ❖ What are the major challenges in the O&M of ground-mounted solar projects vis-à-vis rooftop solar projects?
- ❖ What are the best practices for optimum project performance? What is the current level of automation and digitalisation in the O&M of solar plants?

Solar Power in India

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

Previous Participants

The participants in our previous conferences on "Solar Power in India" included: ABB, ABS Industrial Verification, Accenture, Adani Ennore Container Terminal, Adani Ports and SEZ, Aditya Birla Management Corporation, Aligarh Muslim University, Amara Raja Batteries, Amplus Energy Solutions, Amplus Solar, Angelique International, Applied Materials, Applied Solar Technologies, Arctech Solar, Ardorn, Ashlok, ASSOCHAM, Aurum Equity Partners, Avaada, Avnet, AZB & Partners, Barclays Securities, BPCL, Bridge To India Energy, Brookfield Advisors, BEE, C&S Electric, CRI. Pumps, CAHORS (Tek Components), Canadian Solar, CERC, CESC, Chloride Power, Chhattisgarh Biofuel Development Authority, CIALInfrastructures, Clean Energy Associates, Clean Max Enviro Energy Solutions, Cleantech Solar Energy, Cleantechica Climate Connect Technologies, CLP Wind Farm, CLSA, Corning, Coslight, CARE, CSE Development, CTR MFG, Customized Energy Solutions, Damodar Valley Corporation, DMRC, Delta Power Solutions Delton Infra, DLF Power & Services, Dupont, DVVN, Eicher Engines, ERDA, Emergent Ventures, Energy And Environment Foundation, Energy Department of the Government of Telangana, Enerparc Energy, Enrich Energy, Essel Green Energy, EverSource Advisors, Exide, Far East Promotions, First Solar, FNP Power Systems, Fortum, Fourth Partner Energy, Fronius, FUSERC, Gamesa, GE, Gensol, Genus Innovation, GETCO, Ginlong [Ningbo] Technologies, GIZ, Global Village Foundation, GMR Energy, GoodWe Power Supply, Greenko Group, GRIDCO, Grundfos Pumps, GSES India Sustainable Energy, GERC, GSECL, GVFL, Hareon Solar, Hero Future Energies, Hinduja Renewables Energy, HPCL, IHS Markit, HPGCL, Huawei Technologies, ICFI, ICICI Bank, ICRA, Idam Infrastructure Advisory IDBI, IDFC, IFCI, IFFCO, IIFCL, India Electronics Semiconductor Association, India Energy Forum, India Infradebt, Indian Energy Exchange, IOCL, Indian Railways, IREDA, Indus Towers, Induslaw, IDECK, Integrated Research and Action For Development, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), ICAI, Intertek, Jakson& Company, Jinko Solar Co, JERC, JSW Steel, Kaco New Energy, Khaitan& Co, Kalpa Power, KEI, Kirloskar Solar Technologies, KPMG, KSTAR, L&T Infra Debt Fund, L&T Infrastructure Finance Company, Lara Global, Larsen & Toubro, LONGi Solar Technology, Luminous, Luthra & Luthra, M&I Materials India, Madhav Corp, MEDA, Maharishi Solar Technology, Maruti Suzuki, Matcos Consulting Services, Mc Nally Bharat, Meeco India, Megawatt Solutions, Meyer Burger India, Microtek, MNRE, RDSO Mitsubishi Chemical, MMRDA, Moser Baer Solar, Motilal Oswal Securities, Mundra Solar PV, National Academy of Indian Railways, NHSRC, POSOCO, NSEFI, NEC Technologies, NEEPCO, NELCO, NEDO, Nextech Electronics, NHDC, NIMOTO Solar, Nippo, Niti Aayog, NTPC, Okaya, ONGC, Optimum Tracker, Panipat Thermal Power Station, PECIPL, PEDA, Phono Solar, Portolan Solutions, Power Grid Corporation of India, Power One Microsystem, Praxair, PWC, Proinso Solar Energy Supplies, Prudent Insurance Brokers, PTC India, RAL, Rays Future Energy, REC, ReGen Powertech, Renewsys India, Research Triangle, Response Renewable Energy, Ru-arch Power, Safire Capital Advisors, Sailax, Savitribai Phule Pune University, SBI, SBI Caps, SECI, Secure Meters, Sembcorp Green Infra, Shapoorji Pallonji, Shenzhen Kstar New Energy Co, Shimato Enterprises, Siemens, SJVN, SocieteGenerale, Solairedirect Energy, Solar Arise, SolarigGensol, Solgen Energy, Solis, Soltec, Sprng Energy, Statkraft Markets, Sterling & Wilson, Sterlite Power Transmission, Sumec Group Corporation, Sun energy Consulting Services, Sungrow, SunSource Energy, Suntech Power Co., Suzlon Energy, Swelect Energy Systems, Tata Power Solar Systems, Tata Steel, TBEA Xian Electric Technology, Tek Components, Telawne Power Equipments, Telecom Network Solutions, Teri University, TerraForm Global India, The Yash Birla group, Tikona Digital Networks, Tritronics, Ujaas Energy, USHA, UPERC, Varroc Engineering, VertivCo, Vikram Solar, Vindhya Tele Links, VoltampTransformers, VS SauryaEnerTech, Waaree Energies, Welspun Energy, WWF, Zamil Infra, ZnshinePv-Tech, etc.

PREVIOUS SPEAKERS

Anand Kumar

Then Secretary,
Ministry of New and Renewable Energy

Aniruddha Kumar

Additional Secretary, MNRE

Ajay Mishra Special

Chief Secretary, Energy Department,
Government of Telangana

J.N. Swain

Managing Director, Solar Energy Corporation of India

Gurdeep Singh

CMD, NTPC

Ravindra Kadam

Adviser, Renewable Energy, CERC

Rajaram Mane

Director General,
Maharashtra Energy Development Authority

Shailendra Shukla

Then Chairman, Department of Renewable Energy,
Government of Haryana

Sanjay Aggarwal

MD, Fortum India

Sujoy Ghosh

Country Head-India, First Solar Power India

Gaurav Sood

CEO, Sprng Energy

Sandip Agarwal

Managing Director & CEO, Ever Stream India / Think
Energy Group

Adarsh Das

Co-Founder & CEO, SunSource Energy

Ajit Shankar

Managing Director and CEO, Ardorn

Dr C.V. Kannan

Head, Technology and R&D, Adani Solar

14th Edition

SOLAR POWER IN INDIA

May 19-20, 2021

Registration Fee

| | INR | GST@18% | Total INR | Total USD |
|----------------|--------|---------|-----------|-----------|
| 1 Login | 9,000 | 1,620 | 10,620 | 150 |
| 2 - 3 Logins | 15,000 | 2,700 | 17,700 | 250 |
| 4 - 5 Logins | 21,000 | 3,780 | 24,780 | 350 |
| 6 - 9 Logins | 27,000 | 4,860 | 31,860 | 450 |
| 10 - 20 Logins | 33,000 | 5,940 | 38,940 | 550 |

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

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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**, **Renewable Watch**, **tele.net**, **Indian Infrastructure** and **Smart Utilities** magazines. It also publishes **Power News** (a weekly newsletter), and a series of reports on the energy sector, including **Solar Power in India**, **Solar Power in Africa**, **Floating and Canal-based Solar PV**, **Wind-Solar Hybrid Market in India**, and **Rooftop Solar in India**. It also publishes the **Solar Power Directory and Yearbook** and the **Wind Power Directory and Yearbook**.

For delegate registrations and sponsorship opportunities, contact:

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