

VIRTUAL CONFERENCE

SOLAR POWER In Africa

Progress, Challenges, Outlook and Opportunities

February 24-25, 2021

Hosted by:

REGLCBAL
Analysis and perspective for CXOs

Supported by:



Global **Transmission** Report
Information and analysis on the global electricity transmission industry

RenewableWatch

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SOLAR POWER IN AFRICA

Background

- Africa is gradually shifting from traditional hydropower plants to solar PV to ensure energy access to all and support sustainable economic growth. The key factor driving this trend is substantial cost reductions in solar PV equipment over the past few years. According to an IRENA report, solar PV prices have fallen by 82 per cent over the period 2010-19. In the past two years, particularly in Africa, there has been a decline of 30 per cent in solar PV costs.
- Most African countries have set high solar energy targets. For instance, by 2030, Morocco targets 10 GW of solar power capacity, South Africa 8.5 GW and Nigeria 6 GW. Kenya is targeting around 10 GW of solar capacity by 2033, while Egypt is looking to have solar make up 25 per cent of its energy mix. Concerted efforts are being made in many other countries such as Uganda, Ghana and Namibia for creating an enabling policy and regulatory environment to attract investments in this space.
- In many respects, Africa has the potential to be one of the most significant markets in terms of solar power deployment. There is a large unmet demand in the region as close to 600 million Africans do not have access to electricity. The region is also getting significant support from a large number of development finance institutions, financial donors and climate funds that are looking to mitigate the risks associated with solar projects, both grid-connected and decentralised.
- Amidst opportunities, there also exist several challenges. One of the challenges for private sector-owned grid-connected utility-scale solar projects is that offtakers are not creditworthy in many parts of Africa. Hence, there is a need for guarantees and other risk mitigation steps to secure financing for these projects.
- Another challenge pertains to the ageing transmission and distribution network in many countries. As the variable solar power assumes a bigger role in the region's generation mix, maintaining grid resilience and security will become paramount, and utilities will be required to adopt solutions for generation forecasting and grid balancing. Apart from expanding the physical grid, African utilities are expected to invest in new technologies to make the grids more reliable, resilient, secure and smart. In several countries, the lack of cost-reflective power tariffs is a challenge. This is a key issue for solar minigrid developers that are competing with conventional players.
- Challenges notwithstanding, initiatives to add large solar power generation capacities are under way across Africa. The Covid-19 crisis has further promoted solar power as a key solution to Africa's power crisis and to switch on a continent-wide strategy for its recovery.
- *REGlobal* with support from Global Transmission Report and Renewable Watch, is organizing a virtual conference on Solar Power in Africa on February 24-25, 2021. The objective of the conference is to present emerging opportunities, study the impact of recent policies and regulations, discuss challenges, and explore technological and financing solutions to realise the solar targets across the continent.

Target Audience

The event is expected to draw participation from executives, managers and decision-makers from:

- | | |
|--------------------------------------|---|
| - Solar Power Project Developers | - Engineering and Technical Consultants |
| - Electric Power Utilities | - Management Consultants |
| - Government and Regulatory Agencies | - Legal Consultants and Lawyers |
| - Technology Providers | - Equity and Business Analysts |
| - EPC Firms | - Research and technical Institutions |
| - Equipment Manufacturers | - Investors and Lenders |
| - O& M Service Providers | - Other Renewable Energy Developers |
| - Energy Storage Solution Providers | - Other Financial Institutions |
| - Power Trading Organisations | - National and Multinational Development Agencies |
| - Policy makers and Regulators | - Etc. |

Progress, Challenges, Outlook and Opportunities

AGENDA

Tentative Agenda: February 24, 2021

11:00 to 16:00 South Africa Standard Time

Session	Topics
Key Trends, Business Models and Market Outlook	❖ Growth trends, key drivers, and barriers ❖ Cost trends and emerging business models ❖ Future outlook and the way forward <i>Presentation by and Q&A with a leading industry expert</i>
Country Plans and Perspective: Policies, Regulations and Targets	❖ Policies, regulations and programs to promote solar power in key African countries ❖ Progress made so far in these countries ❖ Initiatives to address the challenges that lie ahead <i>Presentations/discussion and Q&A with regulators/government authorities/industry associations</i>
Utility-Scale Market: Current Experience and Future Plans of IPPs and EPCs	❖ Experience of utility-scale solar project development ❖ Operational experience, key challenges and best practices ❖ Focus countries, future plans and investment requirements <i>Presentations/discussion and Q&A with solar IPPs and EPCs</i>
Solar Power Integration: Requirements and Challenges	❖ Current state of transmission infrastructure for solar power integration ❖ Ongoing projects and progress so far ❖ Future requirements, challenges and the way forward <i>Presentation/discussion and Q&A with a grid power expert</i>
Technology Trends - Focus on PV	❖ New PV technologies and their application / suitability (mono PERC, bifacial, etc.) ❖ Cost and efficiency trends ❖ PV technology outlook for Africa <i>Presentation by and Q&A with a senior official from a leading PV technology company</i>
Solar Investment Needs and Emerging Sources of Financing	❖ Investment requirements for meeting solar power targets ❖ Leading and emerging sources of finance ❖ Risks and challenges faced by investors and lenders <i>Discussion and Q&A with representatives of key lenders, equity investors, development banks and multilateral financing institutions</i>

SOLAR POWER IN AFRICA

AGENDA

Tentative Agenda: February 25, 2021
11:00 to 16:00 South Africa Standard Time

Session	Topics
Rooftop Project Developer Perspective	❖ Rooftop project development experience across countries ❖ Market potential, growth drivers and key challenges ❖ Emerging policy scenario and future outlook <i>Presentations/discussion and Q&A with fleet EV manufacturers</i>
Solar Microgrids and Minigrids: Experience and Challenges	❖ Developer perspective on microgrid application and operations ❖ Current portfolio and future plans ❖ Key challenges, requirements and outlook <i>Presentations/discussion and Q&A with leading microgrid and mini-grid operators and technology providers</i>
Technology Trends - Focus on CSP	❖ CSP technologies and their application / suitability ❖ Cost and efficiency trends ❖ CSP technology outlook for Africa <i>Presentation by and Q&A with a senior official from a leading CSP technology company</i>
Promise of Solar Plus Storage	❖ Experience of using energy storage systems with solar plants ❖ Cost impact and project economics ❖ Emerging solutions and business models ❖ Challenges, benefits and future outlook <i>Presentations/discussion and Q&A with leading solar and energy storage company</i>
Solar O&M Future: Cost Trends and Best Practices	❖ O&M related challenges faced by developers ❖ O&M cost trends ❖ Best practices and emerging solutions for module cleaning <i>Presentation by and Q&A with a leading project developer/O&M specialist</i>
Case Studies & Project Showcase	❖ Notable and under-construction solar projects ❖ Innovative features ❖ Operational experience <i>Presentation by/discussion with and Q&A with a leading data management solution provider</i>

Note: This is a tentative agenda. Timings and topics of some sessions may change as we move closer to the event.

February 24-25, 2021

ABOUT THE ORGANISERS

REGlobal provides global, high-level analysis and perspective on issues related to renewable energy that are of interest and relevance to CXOs working with energy developers, electricity utilities, technology providers, investors, regulators, policymakers and other concerned organizations.

It features analysis of key trends and major developments, interviews with top managers and officials, opinion of leading experts and a rich knowledge centre. It covers a wide range of issues and topics including but not limited to markets, technology, policy and finance. The primary focus is on all forms of renewable energy but, when relevant, it also examines trends related to other sources of energy.

Global Transmission Report is a leading provider of information and analysis on the global electricity transmission industry. We publish newsletters and market intelligence reports, offer custom research and advisory services, and organise thematic conferences on crucial and topical issues relevant to the industry.

Our leading products – **Global Transmission Report** (a monthly newsletter), **Global Transmission Weekly** (a weekly update), and www.globaltransmission.info (website) – keep you informed on key developments, trends and issues in the industry. Our reports provide the latest data, insights and analysis on the transmission industry in over 100 countries to ensure reliable and actionable research.

Our conferences are one to two-day thematic events with focused sessions and discussions featuring speakers with vast experience and expertise. In the past, we have organised three conferences on offshore wind transmission in the US. These conferences received a strong response from speakers and delegates alike.

Renewable Watch is a leading provider of information and analysis on renewable energy sector in India. It covers the entire spectrum of renewable energy – wind, solar, bioenergy, small hydro and other emerging technologies – and includes both grid-interactive and offgrid power solutions. It aims to provide accurate information to track investments and projects, to showcase innovations and technologies and to offer a platform for debate and discussion on policy, regulation and financing.

The magazine is targeted at wind and solar energy developers, technology providers, equipment manufacturers, conventional power producers, renewable energy development agencies, discom and transcos, fuel producers and sellers, financial institutions, carbon fund managers, industrial consumers, policy makers, regulators, government agencies, research organisations, management consultants, etc.”

SOLAR POWER IN AFRICA

PREVIOUS PARTICIPANTS

Our recent conferences in Africa have been on topics such as “Power Transmission in Africa” and “Hydro Power Africa”. They have attracted participation from ABB, AECOM, African Development Bank, African Infrastructure Investment Managers, AT Kearney, AUDA-NEPAD, Africa Export Services, AFRY GmbH, AIT Consulting, Amiblu Holding, Andritz Hydro, Berkeley-Energy, Bindhyabasini Hydropower, Bui Hydroelectric Station, BCG, Bushveld Energy, Carpitech, Consolidated Power Projects Group SA, Deloitte, East African Power, East Consult, EDF, EIB, Elecnor, Electricity Generation Company of Malawi, Eneo-Cameroon, Ethiopian Electric Power, ETRHB, Electricidade de Moçambique, European Investment Bank, Electricity Regulatory Authority of Uganda, Energys Cables, ESKOM, Electricity and Water Utilities Regulatory Authority of Tanzania, Federal Ministry of Power, Ghana Grid Company, IEA, Kenya Electricity Transmission Company, KfW Development Bank, Liberia Electricity Corporation, Ministry of Energy and Power Development of Zimbabwe, Multiconsult, Multilateral Investment Guarantee Agency, National Construction Industry Council of Malawi, National Energy Regulator of South Africa, Nile Basin Initiative, Norfund, OptiPower, PFISTERER, Premier Electric, Rensys, Rusumo Power Company, RWANDA ENERGY GROUP/EUCL, Salini Impregilo, Shell Foundation, South Africa Power Pool (SAPP), SEDIVER, SGB-Smit Power Matla, Sonelgaz Standard Bank South Africa, Super Grid Institute, Terna, Tesmec SA, Tractebel-Engie-Group Tridelta Meidensha, Uganda Electricity Generation Company, USAID, Uganda Electricity Transmission Company, UNIDO, UNITEC, Vidullanka PLC, Voith, Volta River Authority (Ghana), Worthington Products Inc, Zeco, ZESCO, etc.

Our conferences on renewable energy, on topics such as “Solar Power” and “Offshore Wind Transmission”, have attracted organisations like: ABB, Accenture, Angelique International, Arctech Solar, Anbaric, Avangrid, Bechtel Infrastructure, Avaada, Azure Power, Black & Veatch, Brookfield Renewable, Canadian Solar, Clean Max, Cleantech Solar, Corning, California Energy Commission, Consolidated Edison, CTR, Diamond Transmission Corporation, DNV GL, Duke Energy Transmission Holdings, Delta Power Solutions, Delton Infra, Dupont, EON, EDF Renewables, EDP Renewables ESKOM, European Investment, EnBW, FirstEnergy Service Corporation, First Solar, Fourth Partner Energy, Fronius, FUSERC, GE Intelligent Platforms, Ginlong, GIZ, Greenko, GE Renewable Energy, Green Giraffe, Green Investment Group, Hatch, Huawei Technologies, IFC, Jinko Solar, JUWI, Kaco New Energy, LERRI Solar, LONGi Solar Technology, McKinsey & Company, Mitsubishi, Nextech Electronics, National Grid, Nexans, Ørsted, Phono Solar, Okaya Power, PWC, Power-One Microsystems, Proinso Solar Energy, Pfisterer, PJM Interconnection, PSE&G, ReGen Powertech, RTI International, RWE Renewables, Ru-arch Power, Shenzhen Kstar, Siemens, Solar Arise, SolarigGensol, Statkraft, Shell New Energies, Sumitomo Electric, SuperGrid Institute, TenneT TSO, Teshmont Consultants, U.S. Department of Energy, TBEA Xian Electric Technology, Varroc Engineering, Vertivco, Worley, Znshine, etc.

DELEGATE FEE

	Price
1 Logins	USD 250
2-3 Logins	USD 400
4-5 Logins	USD 550
6-9 Logins	USD 700
10-20 Logins	USD 850

Registrations for the African government agencies, utilities and regulatory authorities is complimentary for the conference.*

REGISTRATION FORM

☐ I would like to register for the conference

☐ Please send me more information

NAME/DESIGNATION _____ COMPANY _____

MAILING ADDRESS _____

PHONE _____ MOBILE _____

FAX _____ EMAIL _____

PAYMENT OPTIONS

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All credit card payments will be subject to standard credit card charges

2. Wire Transfer:

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or visit us at www.reglobal.co

TERMS AND CONDITIONS

Payment Policy

- Full payment must be received prior to the conference.

Cancellations

- Cancellations received in writing **30 days** before the date of the conference will receive a full refund, minus a service charge/administration fee of USD 30.
- Substitutions/name changes are welcome at no extra charge. Please send these in writing at least two days prior to the conference.
- REGlobal shall assume no liability whatsoever in case the event is postponed or cancelled due to a fortuitous event or unforeseen occurrence that renders the performance of this conference impracticable, illegal or impossible. For purpose of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency. India Infrastructure's responsibility is limited to return of the registration fee only and is not liable for any cost in relation to travel and accommodation.
- Please note that it may become necessary for reasons beyond the control of the organisers to make alterations to the content and timing of the programme or speakers.