

VIRTUAL CONFERENCE

3rd Edition

# POWER TRANSMISSION IN AFRICA

Evolving Grid Requirements; New Technologies and Solutions

February 2-3, 2021

10:30-16:00 South Africa Time

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

Sponsors:



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Current and voltage – our passion



**VEXILA**  
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# MISSION

The increased focus on rapid economic growth has brought energy policies centre stage in Africa. African countries are adopting ambitious targets for power generation, backed by far-reaching reforms of their energy sectors. However, in order to ensure that this growth is sustainable and for countries to achieve their real growth potential, African governments are prioritising the provision of reliable and affordable electricity to industry and communities.

In order to firmly plug Africa into the global economy, a reliable electric power as well as efficient transmission system is required. Constrained budgets of many African governments have slowed down the development of transmission infrastructure in the continent. Recognising this, several multilateral agencies have extended increased funding to fast-track the sector's development. However, with only 35 per cent of the continent's population having access to electricity, there is a definite need for a new model for financing transmission infrastructure. African countries such as Kenya, Uganda and Nigeria are evaluating new financing models to encourage private investment in building the desired transmission infrastructure. Private investors, domestic and foreign, are all set to seize these new market opportunities.

Africa is also investing in the creation of cross-border links and regional power markets that will help unlock the electricity trade potential in the continent. The longer-term vision is to create a continental transmission network and electricity market that will provide African countries the opportunity to source electricity from any regional or continental competitive power generation source.

With renewable energy playing a bigger role in the continent's generation mix, African utilities will need to prepare the grid to meet the new challenges—maintaining grid resiliency and security. Apart from expanding the physical grid, African utilities are expected to invest in new technologies to make grids more reliable, resilient, secure and smart.

In this context, **Global Transmission Report** is organising a **virtual conference on Power Transmission in African** on **February 2-3, 2021**. The objective of the conference is to discuss the evolving grid requirements in the region and the relevant technologies and solutions.

The conference will bring together leading utilities, transmission system operators, regulators, investors, consultants, equipment suppliers and solution providers to help shape the future of Africa's power transmission industry.

The **two-day virtual event** will have **12 live sessions**, covering relevant topics for all stakeholders in the power transmission space. The conference will highlight the transmission plans of utilities and the investment opportunities in the region. It will also discuss regional interconnection projects and their status. The conference will have a dedicated session on public-private partnership (PPP) opportunities in transmission as well as relevant business models for private investment in transmission. It will also explore the role of energy storage for utilities.

The conference will discuss the latest technologies and solutions for the design and erection of transmission lines and towers. It will also showcase the latest technologies and innovative solutions that can help utilities create efficient, reliable and modern grids, and better manage their transmission assets.

There will be a separate session to discuss the plans of utilities to upgrade their existing assets and the solutions available to enhance grid capacity. There will also be focused sessions on the latest solutions for grid digitalisation and best practices for O&M of grid assets. The conference will also provide a platform for showcasing successful projects and best practices in the segment.

[www.globaltransmission.info](http://www.globaltransmission.info)

## KEY BENEFITS FOR PARTICIPANTS

- Get insights into Africa's transmission market
- Discover the key growth markets for transmission
- Get the latest updates on the plans and projects of leading utilities in the region
- Understand the challenges and issues faced by utilities and their expectations
- Know more about utilities' grid upgrade plans, and asset planning and management practices
- Discuss strategies to make grids more reliable and secure
- Explore the latest developments in technologies and equipment, and their relevance to grids in the African region
- Share and learn from industry peers
- Influence industry leaders
- Interact with potential customers and partners

## VIRTUAL EVENT BENEFITS

- Live interaction with senior speakers and key stakeholders (Q&A facility)
- Easy connectivity to geographically dispersed delegates (click of a mouse)
- Virtual meetings and interactions with industry peers and leaders
- Cost effective (lower ticket price as compared to a physical conference)
- Flexibility and convenience
- Access to conference recordings to watch later "on demand"

## WHO SHOULD LOG-IN?

The conference is targeted at:

- Electric power utilities
- Transmission system operators
- Electric power regulators
- Engineering, procurement and construction companies
- Technology providers
- Equipment manufacturers
- Private investors
- Equity and business analysts
- Engineering and management consultants
- Research and technical institutions
- Lawyers and law firms
- International development agencies

# DRAFT AGENDA

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Tentative Agenda: February 2, 2021  
10:30-16:00 South Africa Time

| Session                                     | Topics                                                                                                                                                                                                                                                                                                                                                                        | Speakers                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Introduction                                | <ul style="list-style-type: none"><li>• Introduction to the conference and welcome remarks</li></ul>                                                                                                                                                                                                                                                                          | Global Transmission                                                            |
| Country plans and utility perspective       | <ul style="list-style-type: none"><li>• Investment and network expansion plans of key African countries</li><li>• Priority areas for utilities for the next few years</li><li>• Key initiatives under way for the development of the transmission network</li><li>• Q&amp;A with the panel</li></ul>                                                                          | Utilities<br>Transmission network developers<br>Regulators                     |
| Policy and regulatory perspective           | <ul style="list-style-type: none"><li>• Policy measures planned/under way to reform the electricity sector in African countries</li><li>• Recent regulatory developments in the power sector</li><li>• Key unaddressed policy and regulatory concerns</li><li>• Q&amp;A with the panel</li></ul>                                                                              | Regulatory authorities<br>Consultants                                          |
| Break                                       |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                |
| Power trading and interconnectors           | <ul style="list-style-type: none"><li>• Efforts and approaches for establishing regional power markets</li><li>• Status of key grid interconnection plans</li><li>• Policies and regulatory frameworks needed for economic power exchange</li><li>• Q&amp;A with the panel</li></ul>                                                                                          | Consultant<br>Utilities<br>Industry associations<br>Regional power authorities |
| Design and construction of lines and towers | <ul style="list-style-type: none"><li>• Developments in the design of transmission lines</li><li>• New techniques for transmission line construction and stringing</li><li>• Key emerging tower designs/structures to optimise RoW</li><li>• Use of aerial technologies - drones, UAV and helicopters - in design and construction</li><li>• Q&amp;A with the panel</li></ul> | Utilities<br>EPC companies<br>Technology providers                             |
| Break                                       |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                |
| Advanced conductor technologies             | <ul style="list-style-type: none"><li>• New technologies to improve conductor performance</li><li>• Solutions for uprating and reconducturing the existing lines</li><li>• Project case studies</li><li>• Q&amp;A with the panel</li></ul>                                                                                                                                    | Utilities<br>Conductor manufacturers<br>Technology providers                   |
| Role of energy storage                      | <ul style="list-style-type: none"><li>• Role and relevance of energy storage for utilities</li><li>• Utility plans for energy storage to address network issues</li><li>• Q&amp;A with the panel</li></ul>                                                                                                                                                                    | Utilities<br>Technology providers<br>Energy storage companies                  |
| End of Day 1 and Networking                 |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                |

# DRAFT AGENDA

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Tentative Agenda: February 3, 2021

10:30-16:00 South Africa Time

| Session                                           | Topics                                                                                                                                                                                                                                                                                                                                                      | Speakers                                                      |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Recap of Day 1                                    | <ul style="list-style-type: none"><li>Recap of Day 1 and introduction to Day 2</li></ul>                                                                                                                                                                                                                                                                    | Global Transmission                                           |
| Transmission financing and role of private sector | <ul style="list-style-type: none"><li>PPP opportunities in transmission</li><li>Experience and lessons from other regions</li><li>Relevant business models for private investors</li><li>Role of development and financial institutions</li></ul>                                                                                                           | Utilities<br>Financial institutions<br>Regulatory authorities |
| Network upgrade and capacity enhancement          | <ul style="list-style-type: none"><li>Plans of utilities to upgrade the existing assets to meet new grid requirements</li><li>Technologies and solutions for capacity enhancement</li><li>Issues/Challenges in the adoption of these technologies/solutions</li><li>Q&amp;A with the panel</li></ul>                                                        | Utilities<br>Equipment manufacturers                          |
| Break                                             |                                                                                                                                                                                                                                                                                                                                                             |                                                               |
| Modern substation technologies                    | <ul style="list-style-type: none"><li>Emerging technologies (digital, smart, energy efficient, remote monitoring, etc.) in the high voltage substation segment</li><li>Utility experience and plans in the adoption of these technologies</li><li>Key drivers and challenges in the adoption of these technologies</li><li>Q&amp;A with the panel</li></ul> | Utilities<br>Equipment manufacturers<br>Technology providers  |
| New transformers and switchgear technologies      | <ul style="list-style-type: none"><li>New transformer and switchgear technologies to improve efficiency and performance</li><li>Utilities experience and plans in this regard</li><li>Project case studies</li><li>Q&amp;A with panel</li></ul>                                                                                                             | Utilities<br>Equipment manufacturers                          |
| Break                                             |                                                                                                                                                                                                                                                                                                                                                             |                                                               |
| Grid digitalisation and modernisation             | <ul style="list-style-type: none"><li>Digital solutions for modernising the grid</li><li>Utilities' plans for smart grids and their status</li><li>Project case studies</li><li>Q&amp;A with the panel</li></ul>                                                                                                                                            | Utilities<br>Technology providers                             |
| Asset management                                  | <ul style="list-style-type: none"><li>New technologies for increasing asset life and reliability</li><li>Technologies and solutions to help operators better manage their transmission assets</li><li>Best practices for management of transmission assets</li><li>Q&amp;A with the panel</li></ul>                                                         | Utilities<br>Technology providers                             |
| End of Conference and Networking                  |                                                                                                                                                                                                                                                                                                                                                             |                                                               |

# ABOUT THE ORGANISERS

**Global Transmission Research** 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](http://www.globaltransmission.info) (website) – keep you informed on key developments, trends and issues in the industry. Our industry-focused research reports provide decision-makers with the latest data, insights and analysis on policy, regulations, market size, projects, investment plans, market forces and drivers, players and the competitor landscape, as well as growth forecasts and the outlook for important industry segments. In addition, we undertake custom research mandates to serve the specific needs of our clients and help them identify definite opportunities and markets, and assess their competition. We track developments in over 100 countries across all regions to ensure reliable and actionable research.

We also publish industry-focused research studies such as the Global Electricity Transmission Report and the Global High Voltage Transmission Projects Report. The first report describes the existing state of, and the expected growth in, the electricity industry across the globe in terms of generation and transmission capacity. The second report features detailed profiles of key high voltage transmission projects either under construction or planned to be built by 2020 in over 90 countries across the globe.

We have served over 300 clients since 2008. Our clients include leading organisations across the world such as 3M, ABB, AIC-USA, Alberta Electric System Operator, AltaLink, American Transmission Company, Anbaric, Apache Powerline Consulting, ATCO, Balfour Beatty, Bechtel, Berkshire Hathaway Energy, BKW FMB Energie AG, Boston Consulting Group, Brookfield BRP Canada, Brugg Kabel AG, Cardiff University, CH2M HILL, CIMA+, Cooper Power Systems, CTC Global, CTEEP, Doble Engineering, Dow Chemicals, EDF, EFACEC, El Sewedy Cables, Elia, Energinet.dk, Erickson, Ernst & Young, ESB International, Eskom, Esri, EU GIG OÜ, European Investment Bank, FirstEnergy, G&W Electric, GE Energy, GeoDigital International, Hatch, Hubbell Power, Hydro-Québec TransÉnergie, Hyosung, Hyundai Heavy Industries Co. Ltd., Iberdrola Ingeniería y Construcción, International Energy Agency, ISA Interconexion Eléctrica, J P Morgan, KEC International, KEMA, KfW IPEX-Bank GmbH, Kinectrics, L.E.K. CONSULTING, LOCWELD, LS Cable and System, MacLean Power, Maxwell Technologies, MidAmerican Energy Holdings Company, Mott MacDonald, MWB Shanghai, National Contracting Company, NATIONAL GRID, Nexans, Nexant, nkt Cables, North American Substation Services, PFISTERER, PJM Interconnection, PLC International, POSCO DAEWOO AMERICA, POWER Engineers, Power Grid Corporation of India, Pöyry, PPC Insulators, Preformed Lined Products, PwC LLP, Quanta Services, Red Eléctrica de España, Rede Eléctrica Nacional SA, Reliance Energy, SaskPower, SBB INTERNATIONAL, Sediver, SEL Inc., SGRI NORTH AMERICA, Siemens, Skadden Arps Slate Meagher & Flom LLP, SNC Lavalin, Southwire, State Grid International Development, Statnett, Sterlite Technologies, Swissgrid, Terna, Teshmont Consultants, The World Bank, Thomas & Betts, Timberland Equipment, Tokyo Electric & Power, Tractebel Engineering, Trade Wind, TSE INTERNATIONAL, Valmont Utility, Vattenfall, Worldenergy SA, Xcel, etc.

## PARTICIPANTS

Key participating organisations at our previous African conferences included: ABB, AECOM, African Development Bank, African Infrastructure Investment Managers, Altec, AT Kearney, AUDA-NEPAD, Avaco International, Boston Consulting Group, Bushveld Energy, City Power, COBRA INSTALACIONES Y SERVICIOS, Consolidated Power Projects Group SA, Council for Scientific and Industrial Research, CSL Silicone, CTC Global, Electricidade de Moçambique, European Investment Bank, Electricity Regulatory Authority of Uganda, Energys Cables, EPRI International Inc, Electricity Supply Corporation of Malawi Limited, Eskom Holdings SOC, Eskom Line Engineering Services, Eskom on CIGRE-World Bank Initiative, Electricity and Water Utilities Regulatory Authority of Tanzania, Fichtner GmbH & Co. KG, First National Battery, Ganges Internationale, General Electric, GIG Group, Global Transformers & Switchgears Fzco, GOPA - International Energy Consultants GmbH, Ghana Grid Company, GW Lifting and Engineering/Zeck GMBH, HOPS d.o.o., International Energy Agency, Investec, Kalpataru Power Transmission Limited, Kenya Electricity Transmission Company Limited, KfW Development Bank, L&T Construction, LAMCO Industries Private Limited, Lindsey, McKinsey & Company, Mitas Industry Inc., Nile Equatorial Lakes Subsidiary Action Program, National Energy Regulator of South Africa, Nile Basin Initiative, Norfund, OptiPower, PFISTERER Kontaktsysteme GmbH, Power Africa, Power Grid Corporation of India Limited, Proef, RIBE, Ricardo Energy & Environment, Southern African Power Pool, SEDIVER, SGB-Smit Power Matla, Siddhartha Engineering Limited, Skipper Limited, Sonelgaz Standard Bank South Africa, Sterlite Power Transmission Limited, Super Grid Institute, Terna Plus srl, Tesmec SA, Tokyo Rope International Inc, Tractebel, Transformers & Rectifiers India Limited, Tridelta Meidensha GmbH, Uganda Electricity Generation Company Limited, USAID, ZESCO Limited.

# DELEGATE REGISTRATION

|                             | Price before December 16 | Price before January 20 | Standard Price |
|-----------------------------|--------------------------|-------------------------|----------------|
| 1 Login                     | USD 245                  | USD 298                 | USD 350        |
| 2-3 Logins                  | USD 392                  | USD 476                 | USD 560        |
| 4-5 Logins                  | USD 539                  | USD 655                 | USD 770        |
| 6-9 Logins                  | USD 686                  | USD 833                 | USD 980        |
| 10-20 Logins                | USD 833                  | USD 1,012               | USD 1,190      |
| Special category delegates* | No fee                   |                         |                |

\*African government agencies, transmission corporations, utilities, regulatory authorities and academia and research institutions.

## SPONSORSHIP

As our sponsoring partner at the virtual event, you will receive the following benefits:

- A 10-15 minute presentation slot (presentation should be relevant and not just a sales-pitch)
- Company logo will be displayed on the event website and the registration page
- Company logo will be displayed in the opening and closing slide/waiting room
- Special mailer to our database announcing your participation with details about your company/products
- Sponsor company mentioned in each promotional mailer
- Mentions in social media posts including a post on the speaker from your company
- Mention in the virtual event opening and closing remarks
- 6-9 participant logins for the employees
- Opportunity to interact virtually with the top officials in the power transmission industry
- Available on a first-come, first-served basis.

The sponsorship fee is USD1,500 until December 16, 2020 and USD2,000 thereafter.

## PAYMENT OPTIONS

To make payments, please visit:

<https://cvent.me/MQ99rQ>

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

## TERMS AND CONDITIONS

### Payment Policy

- Full payment must be received prior to the conference in USD.

### Cancellations

- Cancellations received in writing 30 days (January 3, 2021) before the date of the conference will receive a full refund, minus a service charge/administration fee of USD35. We regret that no refunds will be made for any cancellations received less than 30 days prior to the conference.
- Substitutions/name changes are welcome at no extra charge. Please send these in writing at least two days prior to the conference.
- **Disclaimer:** \*Global Transmission 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. Global Transmission's responsibility is limited to return of the registration fee only and is not liable for any other cost.
- 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.

## CONTACT US

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