

PowerTech Africa Edition 8TH

15th & 16th December, 2025 | Protea Hotel, Entebbe - Uganda

We must continue working together to build an energy sector that powers industries, lights every home and positions Uganda as a regional leader in energy-led transformation

- *Hon. Dr. Ruth Nankabirwa Ssentamu*
Minister of Energy and Mineral Development, Uganda



Speakers



Dr. Brian E. Isabirye (Ph.D.)
Commissioner for Renewable Energy
Ministry of Energy and Mineral Development (MEMD) – Uganda



Eng. Ziria Tibalwa Waako
Chief Executive Officer
Electricity Regulatory Authority (ERA) – Uganda



Ms. Esther Wang'ombe, OGW
Director, Energy Conservation and Climate Change
Renewable Energy Directorate – State Department for Energy
Ministry of Energy and Petroleum – Kenya



Eng. Kipkemoi Kibias
Ag. Managing Director & CEO
Kenya Electricity Transmission Co. Ltd. (KETRACO) – Kenya



Ms. Loy Florence Kyozaire
Chief Executive Officer
Sendea Institute for Energy and Management – Uganda



Ms. Salamatu Baba Tunzwang
Team Lead
Regional Off-Grid Electricity Access Project (ROGEAP) – Nigeria



Eng. Zelalem Gebrehiwot
Technical Director
Eastern Africa Power Pool (EAPP) – Ethiopia



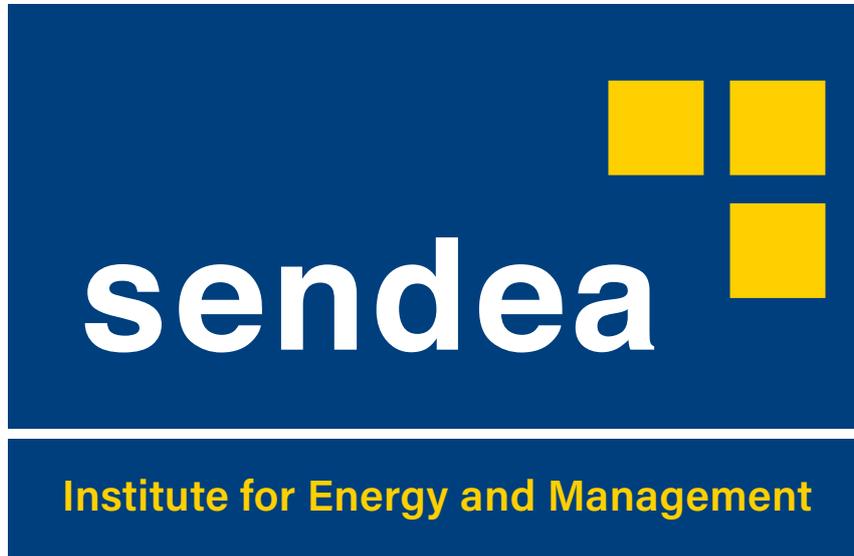
Mr. Humphrey Asiimwe
Chief Executive Officer
Uganda Chamber of Energy and Minerals – Uganda



Mr. Aggrey Ashaba
Country Manager, Uganda
Alliad – Uganda

Partners

Knowledge Partner



Endorsement Partners



**Alliance for Rural
Electrification**



Day 1 | 15th December, 2025

08:30 Registration & Morning Coffee

08:50 Opening and Welcome remarks from Chairperson

09:00 Revised Energy Policy for Uganda, 2023 under Vision 2040

- Proposed Integrated Energy Resource Master Plan (IERMP)
- Electricity Connections Policy (2018-2027)
- National Electrification Strategy (2021-2030)
- The Grid Development Plan and Generation Development Plan

09:30 Uganda - Electricity Access Scale-up Project update

- Environmental and Social Management Framework
- World Bank funded project worth US\$ 638.00 million
- Focus on Grid Expansion and Connectivity, last mile connections, network expansion and financial intermediation through participating financial institutions
- Project due for completion in 2027

10:00 The Uganda Energy Transition Plan (ETP) – released at COP28 Dubai

- Achieving net zero emissions by 2065 and USD 8 billion in clean energy investments in Uganda by 2030
- Accessible grid expansion as it is already 99% powered by renewables
- Electricity generation growth at 14% per year maintaining positive overall electricity mix
- Creating 220 000 additional jobs in energy sector by 2030

10:30 Morning Refreshment and Networking Break

11:00 Developing a Robust Regulatory Framework and Feed-in Tariff (FiT) Policy for Renewable Energy Development in Uganda

- Ongoing reforms and innovations in Uganda's energy regulatory environment
- Implementation of the Renewable Energy Feed-in Tariff (REFIT) and its role in promoting investment
- Lessons learned from the GETFIT and other renewable energy support programmes
- The integration of regulatory approaches to support sustainable, inclusive energy transition

Eng. Ziria Tibalwa Waako

Chief Executive Officer

Electricity Regulatory Authority (ERA) - Uganda

11:30 Pro Mini Grids project : Promoting Mini-grid development in rural electrification in Uganda

- EU and GIZ to support mini grid expansion as a viable solution to insufficient access to electricity
- In line with global energy access targets under UN SDG7, mini grids to support socio economic growth
- Mini grid is also capital intensive and requires long-term commitment creating opportunity for private sector investment

12:00 Leveraging Public-Private Partnerships (PPPs) in energy sector projects

- Government-backed capital subsidies or land provision makes investment feasible
- Co-investment from development finance institutions (DFIs) and donors
- Long term benefits with anchor clients like schools and hospitals
- Community-Led Planning and Ownership creating social values and responsible usage

12:30 Developing a Robust Regulatory Framework for Renewable Energy Auctions

- Design and viability of an auction system tailored to Uganda's needs
- Drawing on learnings from successful GETFiT and REFiT programmes
- Focus on building institutional capacity, managing risks and ensuring coordination
- To create favourable conditions for FDI and safe environment for sustainable energy

13:00 Lunch Break

14:00 Kenya Vision 2030 In Line With Expansion of Renewable Energy Sector

- Backed by \$70 million from Climate Investment Fund (CIF) to achieve the government's Kenya Vision 2030 strategy in a bid to achieve universal access to clean energy by 2030
- Geothermal accounts for 48.4% or nearly half of Kenya's energy mix while 90% is renewable
- Rural electrification and power distribution with emphasis on off-grid solar
- Projected 20% increase in FDI inflow for renewable energies

14:30 Kenya Energy Transition & Investment Plan 2023–2050

- \$38 billion investment opportunities in renewable energy sector until 2035
- Achieving universal energy access and 100% renewable power by 2030 and Net zero emissions by 2050
- Overall investment in energy technologies is projected to grow by 7x between 2025 and 2050 in Kenya
- \$165 billion additional capital investment is needed for the Energy Transition

Ms. Esther Wang'ombe, OGW

Director, Energy Conservation and Climate Change

Renewable Energy Directorate – State Department for Energy

Ministry of Energy and Petroleum – Kenya

15:00 Rural Electrification and Renewable Energy Corporation strategic plan 2023–2027

- Increase Clean Energy: Grow capacity from 60MW to 78MW by 2027
- Expand Clean Access: Boost clean cooking, heating, and connect 1M new customers
- Strengthen Partnerships & Innovation: Foster collaborations and drive research
- Enhance Governance & Sustainability: Improve governance, ICT, and financial health

15:30 Evening Refreshment and Networking Break

16:00 Update on Last Mile Connectivity Project – Kenya Power and Lighting Company (KPLC)

- Electricity Growth: Increased connections due to new government policies
- New Payment Model: Customers can receive connections before paying, contributing \$116 for single-phase connections, and payable in instalments
- Project Funding: Funded by the African Development Fund and IDA
- Infrastructure Expansion: Plans to build 12,000 km of low voltage lines to connect 314,200 customers, benefiting over 1.5 million Kenyans

16:30 Exploring Energy Export Business of Ethiopia

- Ethiopian Electric Power (EEP) has sold more than USD 118 million from the sale of electricity in 2025
- Energy Export accounts for 20% of EEP revenue with USD 427 million export target for 2025/26
- Ethiopia currently supplies power to Tanzania, Djibouti, Sudan, and Kenya, and aims to extend its power grid to South Sudan and Somaliland, enhancing its regional energy connections
- Ethiopia is investing in hydropower and wind, to boost its energy production capacity, which will further enhance its export potential and contribute to regional sustainability efforts

17:00 Panel Discussion :
Strengthening Power Transmission Infrastructure for Sustainable Growth

- Integrating renewable energy into existing grids
- Challenges in power distribution in rural and urban areas
- Expansion of cross-border power trading under The African Continental Free Trade Area (AfCFTA)
- Role of public-private partnerships in power transmission sector development

17:30 Closing Remarks and End of Day 1

Day 2 | 16th December, 2025

08:30 Registration & Morning Coffee

08:50 Opening and Welcome remarks from Chairperson

09:00 A review of renewable off-grid mini-grids in Sub-Saharan Africa

- Target of SDG7 to “achieve universal access to affordable, reliable and modern energy services by 2030”
- Assessing deployment levels of off-grid mini-grids in sub-saharan africa
- Multi-criteria decision-making models for optimizing engineering, economics and management in mini-grid design
- The mini-grid market is projected to impact 111 million households by 2030
- Around 4,000 mini-grid facilities are in the planning stage on the African continent

09:30 Harnessing Kenya’s Geothermal Power Potential for Sustainable Development

- Geothermal power: A key pillar in Kenya’s energy mix
- Latest developments in geothermal exploration and generation
- Public-private partnerships in geothermal energy
- Overcoming environmental and technical challenges

10:00 KETRACO Strategic Plan 2023–2027

- KETRACO has built over 5,476 km of transmission lines, 39 substations, and increased its asset base to \$2 billion by 2025
- Future plans include constructing 4,600 km of lines, 36 substations, and developing a National System Control Centre, with \$2.7 billion in funding from internal sources and partnerships like PPPs
- KETRACO's expansion efforts are aimed at reducing transmission losses and improving the reliability of power supply across Kenya
- The construction of new transmission lines and substations will facilitate the integration of renewable energy sources, enhancing the country's energy mix

Eng. Kipkemoi Kibias

Ag. Managing Director & CEO

Kenya Electricity Transmission Co. Ltd. (KETRACO), Kenya

10:30 Morning Refreshment and Networking Break

- 11:00 Inauguration update - Grand Ethiopian Renaissance Dam (GERD) – biggest Hydropower project in Africa
- It took 14 years and more than 25,000 workers to complete the project
 - An installed production capacity of over 5,200 MW
 - An expected annual output of 15,700 GWh
 - Reservoir stretches 280 kilometers, able to hold up to 74 billion cubic meters of water
- 11:30 Increasing The Share of Solar Energy in Kenya's Renewable Energy Mix
- Using solar tracking technology to optimize energy capture throughout the day, increasing overall efficiency
 - Incorporating battery storage systems to store excess energy for use during non-sunny periods, ensuring reliable supply
 - Explore the use of thin-film solar panels, which are lightweight and flexible, making them suitable for various applications and installations
 - Upgrading the grid infrastructure to accommodate increased solar generation and improve transmission efficiency, minimizing energy loss
- 12:00 Challenges in Implementing Smart Grid Technology and How to Overcome Them
- Identify technological barriers such as interoperability and cybersecurity concerns
 - Discuss the importance of stakeholder collaboration between utilities, government, and consumers
 - Review financing challenges and explore innovative funding models for smart grid projects
 - Analyse public perception and resistance to change in energy consumption behaviour
- 12:30 Offshore Wind Energy Capabilities, Implementation
- Review global best practices in offshore wind farm development and maintenance
 - Assess the environmental impact and mitigation strategies for offshore installations
 - Explore financing models and partnerships that have led to successful offshore projects
 - Investigate the technological advancements in turbine efficiency and energy capture
- 13:00 Lunch Break

14:00 Coupling Solar & Geothermal energy

- Storage of solar heat inter-seasonally
- Market size for this technology
- Chasing maximum energy efficiency through this mix
- Further advancements & implementation

14:30 Mobilising investments in East Africa's energy sector for sustainable development

- Investment trends and dynamics in East Africa
- Contribution of investments to GDP growth
- Components of economic growth and sources of financing in East Africa
- Barriers hampering the growth of the renewable energy market

15:00 Solar Energy Transformation for Universal Access (SET4UA) project

- World Bank approved a \$12.5 million financing package coming from GCF and ESMAP
- Solar project expands electricity access for 1.4 million people
- To support the installation of solar mini-grids in off-grid areas
- To be implemented for achieving universal access to electricity in Uganda by 2030

15:30 Evening Refreshment and Networking Break

16:00 Rwanda Renewable Energy update 2025

- 60% of generation mix to be powered by renewables by 2030
- Renewable energy at 53% in energy mix with hydro power generating 94% electricity
- Over 42% energy access rate with grid providing 30% and off grid at 12%
- PPP projects in energy sector as key priority

16:30 Rwanda Renewable Energy Developments

- US \$49 million Rwanda Renewable Energy Fund (REF) update
- To provide low-cost debt financing for off grid and renewable mini grids
- US \$800 million Rusizi III Hydropower (145MW) project
- IFC, EIB, AFD and KfW considering investment under PPP scheme

17:00 Qualified Human Capital and Opportunities in Localisation

- Establishing Technical and Vocational Education and Training (TVET)
- Training professionals - creating jobs and stimulating local economies
- Building private sector capabilities to efficiently plan, install, and operate mini grids
- Investing in human capital for sustainable growth and bright future

17:30 Closing Remarks and End of Day 2

More about the conference

Overview

Uganda has one of the lowest grid-electricity connection rates in the world at around 20% in 2020, although a further 27% of the population has access to various off-grid solutions ranging from solar home systems to solar lanterns (MEMD). The Vision 2040 aims at 80% connectivity by year 2040.

As per recent data, some 600 million people or around 43% of the total African population lacks access to electricity and most of them are in sub-Saharan Africa. Countries such as Uganda, Kenya and Rwanda are on track for full access by 2030, offering success stories other countries can follow.

Tanzania has achieved one of the fastest energy access expansion rates in Sub-Saharan Africa over the past decade through the Tanzania Rural Electrification Expansion Program (TREP).

With this insight and the ensuing opportunities in the neighbouring countries of Kenya, Rwanda, Ethiopia and Tanzania, [Bricsa Consulting](#) is committed to host the **8th Edition of PowerTech Africa**, scheduled to be held on **15th & 16th of December 2025** an exclusive closed-door gathering of senior renewable practitioners from both public and private sectors across the world with a keen interest to participate in the growth and development opportunities in the region.

We look forward to welcoming the interested participants to share the platform and be a part of the elite gathering looking towards a positive outcome.

Highlights of the Program:

- East Africa's Potential for Renewable Energy: Emphasis on Wind, Solar, Geothermal, and Gas.
- Smart Grid & Off-Grid Solutions: Investigating cutting-edge technological applications for efficient transmission of electricity.
- Finance and Foreign Direct Investment: Strategies for Investing in Renewable Energy Projects.
- Exploring Hybrid & New developments in energy systems
- Upcoming Renewable Energy projects update across East African region

About us:

[Bricsa Consulting](#) has been conducting successful business conferences in the Asia, Africa and Middle East Region. We are a business intelligence company which has conceptualized and executed high level gathering in the Infrastructure, Banking and Transportation domains across emerging markets in various geographies. More comprehensive information on our company can be found on our website :

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Prospective Delegation that you can meet:

- Independent Power Producers (IPPs)
- Power Developing Companies
- Power Transmission Companies
- Ministry of Energy
- Geothermal Development Companies
- East African Power Pool (EAPP) Representatives
- Renewable Energy Regulatory Boards
- Green Energy Associations
- Clean Energy Innovators
- Public-Private Partnership (PPP) Advisory Firms

Solution Providers:

- Renewable Energy Solution Providers
- Energy Storage Solution Providers
- Battery and Grid Integration Companies
- Smart Grid and Off-Grid Technology Providers
- Solar and Wind Energy Suppliers
- Energy Fintech Solutions for Project Financing
- Green Hydrogen Solution Providers
- Technological service providers
- Energy Efficiency Experts

Who Should Attend?

- Environment and Climate Action Organisations
- Foreign Direct Investment Departments
- Sustainability Planning and Development
- Renewable Energy Project Developers
- Innovators in Smart Grid and Storage Technologies
- Marketers/Manufacturers of Renewable Energy equipment
- Procurement and Project Financing Firms

Financial Institutions:

- Development Banks
- Impact Investment Funds
- Sustainable Investment Firms
- Multilateral Development Agencies
- Regional Investment Authorities
- Carbon Financing and Green Bond Issuers

Other organizations:

- Energy Research Institutes and Think Tanks
- Renewable Energy Associations
- Environmental Policy Institutes
- Technology and Innovation Hubs
- Sustainability and Climate Advocacy Groups

Promotion of your company begins as soon as you commit to sponsorship, so the sooner you sign up, the more visibility you get!

Contact us to discuss further:

If you wish to speak at this conference; please email us your details and a topic outline at :

Mr. Ahmed Mobashshir

ahmed@bricsaconsulting.com