

4th annual **POWER TECH** **AFRICA**

30th - 31st January, 2020
Villa Rosa Kempinski, Nairobi, Kenya



"For every African,
cheap energy means health and food, education and production
that matches our energy and innovation"

Hon. Uhuru Kenyatta - President, Kenya





CHAIRPERSON

Prof. Gituro Wainaina
Kenya Vision 2030 Delivery Secretariat, Presidential Delivery Unit
Office of the President, Kenya

SPEAKERS

Eng. Benson Mlambo Mwakina, HSC
Chairperson, Board of Directors
The East African Centre of Excellence for Renewable
Energy and Efficiency (EACREEE), Uganda

Ms. Esther Wangombe
Senior Deputy Director Renewable Energy
Ministry of Energy, Kenya

Dr. Faith Wandera-Odongo
Senior Deputy Director of Renewable Energy
Ministry of Energy, Kenya

Eng. Godfrey H. Chibulunje
Director of Electricity
Energy & Water Utilities Regulatory Authority, Tanzania

Mr. Kato Vincent
Assistant Commissioner
Ministry of Energy & Mineral Development, Uganda

Dr. Fred Simiyu
Deputy Director - International Trade
Ministry of Industry, Trade & Cooperatives, Kenya

Mr. Mulaw Beyene Getachew
Energy Economist
Ministry of Water & Energy, Ethiopia

Eng. James Muriithi
Head of Department, Renewable Energy
Rural Electrification & Renewable Energy Corporation,
Kenya

Eng. Abel Rotich
Geothermal Development Director
Kenya Electricity Generating Company PLC (KenGen)

Prof. Sampson Mamphweli
Director
Centre for Renewable & Sustainable Energy Studies, South
Africa

Mr. Kevin Kinusu Kinyangi
Country Manager - Kenya Biogas Program
Hivos, Kenya

Ms. Carol Ofafa
System Operation And Power Management,
Operation And Maintenance,
Power Systems Protection And Control
Kenya Electricity Transmission Company (KETRACO)

Mr. Mbeo Ogeya
Research Fellow
Stockholm Environment Institute, Kenya

Ms. Anne Mbatia
Administrative and Finance Manager
Clean Energy Business Council

Mr. GD Prakash
Head Engg. R&D
Amara Raja Power Systems Ltd.

Mr. Steve Grant
Group Managing Director
Castor Vali Ltd

Mr. Fenwicks Musonye
Senior Energy Efficiency Officer
Energy & Petroleum Regulatory Authority, Kenya

Eng. Robert Nyamvumba
Director - Energy
Ministry of Infrastructure, Rwanda

Mr. Robert Bwire
General Manager - Research, Policy Advocacy and Planning
Kenya Investment Authority (KenInvest)

Mr. Kennedy Omutanyi
General Manager - Sales
Aggreko Kenya Energy Rentals Limited

Dr. Nicholas Obuya Mariita
Director
Geothermal Energy Training & Research Institute (GeTRI),
Kenya

Mr. Jeff Murage
Senior Program Coordinator (Energy Sector)
KFW German Development Bank, Kenya

Mr. Enoch Mwita
Trade Development Manager - Infrastructure, Oil & Gas Lead
Kenya Department for International Trade, British High
Commission

Mr. Carlo van Wageningen
Director
Lake Turkana Wind Power, Kenya

Mr. Gabriele Buccini
Manager, Business Development
Wärtsilä Energy Business

Mr. John Kimotho
Investment Manager
African Infrastructure Investment Managers (AIIM), Kenya

Ms. Eva Roesler
Head of the Competence Centre for German Export Finance
Delegation of German Industry and Commerce for Eastern
Africa (AHK Eastern Africa)

Mr. Zacharia Muna Munga
National Project Coordinator
United Nations Industrial Development Organization, Kenya

Ms. Susanne Hounsell
Sector Lead Energy - Kenya & Burundi
SNV Netherlands Development Organisation, Kenya

Mr. Erik Westerberg
Business Development Manager - Africa
Turboden S.p.A. Italy

Mr. Dennis Waweru Nderitu
Advisor
Energy 4 Impact, Kenya

Mr. Fred Ishugah
Sustainable Energy Expert
The East African Center of Excellence for Renewable
Energy & Efficiency (EACREEE), Kenya



PARTNERS

CO HOST



ASSOCIATE PARTNERS



ENDORSEMENT PARTNERS



MEDIA PARTNERS





08:00 Registration

08:20 Opening and Welcome remarks from the Chairperson Prof. Gituro Wainaina

08:30 Achieving the Big 4 agenda on clean energy driven economy

- Positive effect of renewable energy to the big 4 manufacturing agenda
- Importance of sustainable energy in the Vision 2030

Dr. Fred Simiyu, *Deputy Director – International Trade*
Ministry of Industry, Trade and Cooperatives, Kenya

09:00 Renewable Energy and Environmental conservation

Ms. Esther Wangombe, *Senior Deputy Director Renewable Energy*,
Ministry of Energy, Kenya

09:30 Renewable energy sector in Rwanda and the future

Eng. Robert Nyamvumba, *Director – Energy*,
Ministry of Infrastructure, Rwanda

10:00 Opportunities of the Geothermal energy sector in Uganda

- Current developments and turnkey projects
- Innovation and technology planning in the renewable sector
- Scope and future of the sector in the region

Mr. Kato Vincent, *Assistant Commissioner*,
Ministry of Energy and Mineral Development, Uganda

10:30 Morning Refreshments and Networking Break

11:00 Wind Energy Potential and Opportunities in Kenya

- Overcoming land acquisition challenges and securing funds
- Security concerns and grid connectivity
- Overcoming Transmission & Distribution (T&D) challenges

11:30 Decentralized electrification using renewable energy systems or hybrids – Kenya's roadmap experiences & challenges

Eng. James Muriithi, *Head of Department, Renewable Energy*
Rural Electrification and Renewable Energy Corporation, Kenya

12:00 Regulatory aspects of Renewable Energy – Government Initiatives, developments and future

Mr. Fenwicks Musonye, *Senior Energy Efficiency Officer*
Energy and Petroleum Regulatory Authority, Kenya

12:30 Transforming Regional Renewable Energy Markets through Policy Harmonization

Mr. Fred Ishugah, *Sustainable Energy Expert*
The East African Center of Excellence for Renewable Energy & Efficiency (EACREEE), Kenya

13:00 Networking Lunch



- 14:00 Existing investment opportunities for the private sector in renewable projects in sub-saharan Africa**
- Understanding RoI by capitalising on opportunities in the renewables sector in East African market
 - Role of International Financial Institutions and Private Finance
 - Privatisation and regulatory affairs' role and responsibilities
- Mr. Carlo van Wageningen, Director**
Lake Turkana Wind Power, Kenya
- 14:30 Battery Energy Storage Supporting Renewables Penetration**
- Market drivers
 - Battery Energy Storage Systems' key features
 - Applications and case studies
- Mr. Gabriele Buccini, Business Development Manager**
Wärtsilä Energy Business
- 15:00 Refreshments and Networking Break**
- 15:30 Panel Discussion**
Renewable Energy and harnessing the true potential in Kenya
- Regulatory framework and policies around the renewable energy sector
 - Off-grid solar sector and productive use
 - Financing and sustaining large projects and Government initiatives
 - Role of upcoming technology to achieve the Vision for energy and electrification
- Ms. Susanne Hounsell, Sector Lead Energy - Kenya & Burundi**
SNV Netherlands Development Organisation, Kenya
- Mr. Kevin Kinusu Kinyangi, Country Manager - Kenya Biogas Program**
Hivos, Kenya
- Mr. Dennis Waweru Nderitu, Advisor**
Energy 4 Impact, Kenya
- Mr. Zacharia Muna Munga, National Project Coordinator**
United Nations Industrial Development Organization, Kenya
- 16:30 South Africa's Renewable Energy Independent Power Producers Program, an example for the Africa power market**
- Prof. Sampson Mamphweli, Director**
Centre for Renewable and Sustainable Energy Studies, South Africa
- 17:00 Work of German Development Bank/KFW in the energy sector in Kenya**
- Upcoming developments and the future plans
 - Energy sector statistics
- Mr. Jeff Murage, Senior Program Coordinator**
KFW (Kreditanstalt für Wiederaufbau) / German Development Bank (Energy Sector), Kenya
- 17:30 Challenges on training on Green Energy in Africa**
- Global scale availability of Green Energy Resources
 - Challenges of access to power in Africa
 - Proposals in addressing Development Challenges
- Dr. Nicholas Obuya Mariita, Director**
Geothermal Energy Training and Research Institute (GeTRI), Kenya
- 18:00 Closing Remarks and End of Day 1**



08:00 Registration

08:20 Opening and Welcome remarks from the Chairperson

08:30 Renewable Energy Directorate Initiatives in Kenya

- Alternative Energy Technologies
- Promoting international co-operation on programmes focusing on renewable energy sources
- Off-Grid and decentralized electrification using renewable energy systems or hybrids
- Development and promotion of local manufacturing capacity and assembly of plant, equipment and appliances

Eng. Benson Mlambo Mwakina, HSC, Chairperson, Board of Directors

The East African Centre of Excellence for Renewable Energy and Efficiency (EACREEE), Uganda

09:00 Solar, Technology Revolution - Africa perspective

- Scaling up solar technologies
- Trends setting on the continent in renewable energy
- Support from the government to achieve the vision of electrification.

09:30 Current regulatory norms in the electricity generation sector with focus on renewable generation

- Work of EWURA in regulation of the sector
- Initiatives and current projects in the renewable energy sector

Eng. Godfrey H. Chibulunje, Director of Electricity

Energy and Water Utilities Regulatory Authority, Tanzania

10:00 Ethiopia's Transformational Approach to Universal Electrification

- Policies and regulations
- Transmission and distribution network
- Strengthening the capacity of the sector and institutional reform

Mr. Mulaw Beyene Getachew, Energy Economist

Ministry of Water and Energy, Ethiopia

10:30 Morning Refreshments and Networking Break

11:00 Geothermal Development in Kenya - A KenGen perspective

Eng. Abel Rotich, Geothermal Development Director

Kenya Electricity Generating Company PLC (KenGen)

11:30 Large scale hybrid power plants: renewable energy supply for industries and large businesses:

- Operational feedback from the largest solar-diesel plant of Africa
- When is the right time to go solar for industries and large businesses
- Auto production vs. externalized energy supply for industries and large businesses

12:00 The role of transmission utilities in renewable energy integration

**Ms. Carol Ofafa, System Operation And Power Management, Operation And Maintenance,
Power Systems Protection And Control**

Kenya Electricity Transmission Company (KETRACO)

12:30 Identifying the potential of renewable energy resources in the sub-saharan Africa

- Need based approach keeping the geographical perspective in mind
- Available business models - need for reform
- Reaching the bottom of the pyramid in terms of energy requirement
- Progress along the energy ladder and financing using PAYGo

13:00 Networking Lunch



14:00 Why small wind turbines for electricity generation are not diffused in Kenya
Ms. Faith Wandera-Odongo(PhD), *Senior Deputy Director of Renewable Energy*
Ministry of Energy, Kenya

14:30 The East Africa power sector: Tracking the achievement of NDCs with case examples of Kenya and Rwanda
Mr. Mbeo Ogeya, *Research Fellow*
Stockholm Environment Institute, Kenya

15:00 Refreshments and Networking Break

15:30 Panel Discussion
Designing, Financing and Delivering Large Scale Infrastructure Projects in Renewable Energy sector

- Challenges faced in local market – Land Acquisition
- Finding right local partner to guarantee funding
- Getting relevant government support for executing project timely
- Ensuring correct design for optimum land-use and scalability
- Technology transfer and project sustainability of the large renewable projects
- Long-term/Blending financing on the large scale renewable energy

Mr. Erik Westerberg, *Business Development Manager – Africa*
Turboden S.p.A. Italy

Mr. John Kimotho, *Investment Manager*
African Infrastructure Investment Managers (AIIM), Kenya

Mr. Enoch Mwita, *Trade Development Manager - Infrastructure, Oil & Gas Lead*
Kenya Department for International Trade, British High Commission

Ms. Eva Roesler, *Head of the Competence Centre for German Export Finance*
Delegation of German Industry and Commerce for Eastern Africa (AHK Eastern Africa)

Mr. Steve Grant, *Group Managing Director*
Castor Vali Ltd

16:00 Sources of capitalizing renewable power projects & exploring Foreign Direct Investment policies for better project implementation
Ms. Anne Mbatia, *Administrative and Finance Manager*
Clean Energy Business Council

16:15 Status of financing RE & EE in East Africa

- Presentation of the baseline report on financing RE&EE projects in the EAC
- Presentation of the RE Portfolio of the East Africa Banks;
- Opportunities and challenges faced by the private sector in financing RE & EE projects
- Case study of best practice – models, financial instruments and funding mechanism

16:45 Off-Grid market potentials and challenges

- Supply chain challenges in executing Renewable Energy projects in Africa
- Environmental and social management framework
- Off-grid technology for remote electrification
- Leveraging on private sector investment and PPP initiatives
- EPC and O&M contracts with PPAs to add value

17:15 Closing Remarks and End of Conference



Overview

The 2018 global trends indicated that investing in renewable energy is investing in a future profitable to all. The investments in renewable energy in 2018 were three folds higher than the amounts invested in coal and gas fired generators. According to the report from International Renewable Energy Agency, at the end of 2018, global renewable generation capacity amounted to 2351 GW of which hydro accounted for the largest share of the total, with an installed capacity of 1172 GW, followed by wind and solar energy that accounted capacities of 564 GW and 486 GW respectively. As per the World Bank Group, roughly 1 billion people or 13% of the world's population live without electricity. Between 2014 and 2018, the World Bank provided more than \$11.5 billion in financing for renewable energy and energy efficiency in Africa. They could meet nearly a quarter of the energy needs from indigenous and clean renewable energy by 2030.

With this insight and the ensuing opportunities in the neighbouring countries of Uganda, Rwanda, Ethiopia and Tanzania, BricSA Consulting is committed to host the 4th Annual PowerTech Africa, a 2 day 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:

- Identifying the potential of renewable sources in the Sub-Saharan Africa Regions - Wind, Solar, Geothermal & Gas
- Implementation of Smart Grid/Off-Grid technology projects using renewable energy for a better and reliable power transmission
- Sources of capitalizing renewable power projects & exploring Foreign Direct Investment policies for better project implementation
- Hybrid Energy System: Spurring opportunities for the energy market in Africa

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: www.bricsaconsulting.com

Prospective Delegation that you can meet

- Independent Power Producers
- Power Developing Companies
- Power Transmission Companies
- Power Distribution Companies
- Regulatory Board
- Ministry of Works and Infrastructure
- Ministry of Energy
- Consulting Engineer Association
- Technical and Financial consultancies
- Legal Advisories
- Project Management Firms

Solution Providers:

- Project Management
- Energy Consultants
- Companies providing electrical solutions
- Renewable Energy Solution provider
- Financial Consultancies
- Legal advisories
- Solar and Wind energy product's suppliers
- Technological service provider
- Construction Companies
- Engineering Procurement and Construction firms
- Operations management companies

Who Should Attend ?

- Top level decision makers such as CEOs, COOs, Heads, Presidents, VPs, SVPs
- Directors, GMs and Senior Personnels:
- Ministries
- Energy
- Commerce and Investment
- Environment
- Planning and Devolution
- Foreign Affairs
- Construction Companies
- Engineering Procurement and Construction firms
- Project planning firms
- Operations management companies
- Procurement Firms

Financial Institutions:

- Banks
- Investment Banks
- Investment firms providing funds for the projects
- International Financial Institutions
- Designation
- Head of Regional Representation

Other organizations:

- Research Institutes and Universities
- Renewable Energy Associations
- Chamber of Trade and Commerce for different countries
- Investment associations

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 :

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