

# Power Tech Africa 2017

30<sup>th</sup> – 31<sup>st</sup> January, 2017

Nairobi, Kenya | Crowne Plaza

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

Hon. Uhuru Kenyatta - President, Kenya



## Highlights of Power Tech Africa 2017 :

- Identifying the potential of renewable sources in the Sub-Saharan Regions
- Implementation of Smart Grid / Off-Grid technologies 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 energy market

An event by:



# Bricsa Consulting

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## Confirmed Speakers at the conference include:

Mr. Julius Korir, *Principal Secretary – State Department of Industry and Enterprise Development,*  
**Ministry of Industry, Trade and Co-operatives, Kenya**

Chief Anita Nana Okuribido, *National President,*  
**Council for Renewable Energy Nigeria**

Dr. Juliette Biao Koudenoukpo, *Director & Regional Representative, Regional Office for Africa,*  
**United Nations Environmental Program,**

Ms. Zulandi van der Westhuizen, *Deputy Director Scenarios and Resources,*  
**World Energy Council**

Mr. Robert Pavel Oimeke, *Director – Renewable Energy,*  
**Energy Regulatory Commission, Kenya**

Mr. Jonathan Lodompui, *Director – Enablers & Macro Directorate,*  
**Kenya Vision 2030**

Mr. Daniel Nyakundi Osiemo, *Chief Executive Officer,*  
**New Partnerships for Africa's Development Kenya (NEPAD)**

Dr. Isaac P. Kalua, *Founder/ Chairperson,*  
**Green Africa Foundation**

Mr. Chris Wilson, *Director - Energy and Climate Change,*  
**Kenya Private Sector Alliance (KEPSA)**

Mr. Alex Marshall, *Group Marketing & Compliance Director,*  
**Clarke Energy**

Mr. Thomas Garner, *Business Development Manager : Energy*  
**Exxaro**

Mark Carrato, *Chief - USAID Kenya,*  
**Team Leader- Power Africa**

Dr. Ayub Macharia, *Director – Environmental Education and Public Participation,*  
**National Environment Management Authority (NEMA)**

Eng. Julius Riungu, *President Elect,*  
**Federation of African Engineering Organization (FAEO)**

Mr. Yohane Mukabe, *Director – Infrastructure and Operation Regulation,*  
**Energy Regulation Board, Zambia**

Senior Representative,  
**Kenya Renewable Energy Association (KEREAA)**

Mr. Andreas Kaiser, *Head of Energy Desk,*  
**Delegation of German Industry and Commerce in Kenya**

Prof. Izael Da Silva, *Deputy Vice-Chancellor Research and Innovation,*  
**Strathmore University**

Mr. George Aluru, *Managing Director,*  
**SOWITEC Kenya**

Ms. Sabita Thapa, *Climate Change Advisor, Deputy Head Sustainable Economic Development Section,*  
**Department of International Development Kenya**

Mr. Pierre Telep, *Lead Advisor,*  
**GIZ**

Ms. Catherine Collin, *Head of Regional Representation – East and Central Africa,*  
**European Investment Bank**

Associate Partners:



SUPPORTING ASSOCIATIONS :



Media Partners:



08:00 Registration

08:45 Welcome remarks by BricSA Consulting

08:55 Opening address by Chairman of the conference

## Gaining an overview from the government stakeholders on the prospects for power in Africa

### 09:00 Identifying the effects on African economies due to the current power scenario in the region

- Understanding the key relation between energy, food and water
- Impact of timely execution of the power projects
- Importance of clean energy while producing power

Dr. Juliette Biao Koudonoukpo, *Director and Regional Representative, Regional Office for Africa, United Nations Environmental Program*

### 09:30 Evaluating important criteria for Power Generation in the African countries

Mr. Robert Pavel Oimeke, *Director - Renewable Energy, Energy Regulatory Commission, Kenya*

### 10:00 Reviving investment opportunities for the private sector companies in Africa

- Understanding the return on investments by capitalizing the renewable power sources in the eastern African region
- Role of international financial institutions and private financial organizations
- Opportunities for privatizing the regulatory bodies

Ms. Catherine Collin, *Head of Regional Representation - East and Central Africa, European Investment Bank*

### 10:30 Discussing the role of FDI policies in operating the power system in the Eastern African region

- Understanding the effectiveness of the policies for the supply of imported raw materials required in producing and transmitting the power in Eastern African Region
- Policies for the manufacturing of raw materials for the generation and transmission of power within Africa
- Focusing on the FDI framework for the Gas markets in eastern African economies with a focus on Kenya, Tanzania and Uganda

Mr. Julius Korir, *Principal Secretary - State Department of Industry and Enterprise Development, Ministry of Industry, Trade and Co-operatives, Kenya*

11:00 Morning refreshments and networking break

### 11:30 An insight of the institutional framework for a better understanding of the power sector in the Sub-Saharan region

- An overview of Kenya's vision 2030 and Second Medium Plan 2013-2017
- Discussing the policies that support power generation using renewable energy sources
- Outlining the opportunities in eastern African countries for exploring natural gas as a power producing resource

Mr. Jonathan Lodompui, *Director - Enablers & Macro Directorate, Kenya Vision 2030*

### 12:00 Important role in addressing the African Continent's Energy

- Investing in longer term generation capacity
- Energy provision remains a key area where public private partnerships (PPPs) can flourish
- Policy reforms in energy sectors to improve business climates, to attract and leverage private sector resources to increase the continent's energy supply.

### 12:30 Future of Africa's power - Untapped renewable energy sources

- Defining the needs for increasing renewable energy sourced power projects
- Selection of an appropriate renewable energy source for power generation
- Understanding the regulations and norms while generating power using renewable sources

Chief Anita Nana Okuribido, *National President, Council for Renewable Energy Nigeria*

## 13:00 Networking Lunch

Planning, resource availability and allocation for the power projects

## 14:00 Promoting the use of wind energy as a sustainable source of energy to produce power in sparsely populated regions of Africa

- Assessing the geographical feasibility of wind power projects
- The intermittence of projects fuelled by wind energy
- Reviewing the installation and operational costs for setting up off-grid projects using wind energy

Mr. George Aluru, *Managing Director*, **SOWITEC Kenya**

## 14:30 Trapping the solar energy to generate reliable power

- Evaluating the need and supply for backup power to the power generated by solar energy
- Operational analysis of the Solar Powered projects for optimization in power quality and reliability
- Understanding the infrastructural and financial challenges involved in the performance of solar fuelled power projects

Mr. Andreas Kaiser, *Head of Energy Desk*, **Delegation of German Industry and Commerce in Kenya**

15:00 Refreshments and networking break

## 15:30 Geothermal Energy Development - Steam Field Development

- Feasibility and exploration
- Design, Construction and Financing options
- Operation & Maintenance
- Sustainability as a renewable source of Energy
- Critical Factors for a Strong Enabling Environment

## 16:00 Gas to power for Africa

- High efficiency captive power for industry
- Technology to improving the availability of gas on the continent
- Creating gas from waste

Mr. Alex Marshall, *Group Marketing & Compliance Director*, **Clarke Energy**

## 16:30 Hydropower holds the key to the country's energy future

- Hydro power projects provide abundant clean energy for years with less maintenance producing continuous power.
- Energy from the dam will mitigate deforestation by providing an alternative to fuels such as charcoal and wood
- Hydroelectric power produces fewer carbon emissions than other energy sources, including fossil fuels and biofuels

## 17:00 Panel Discussion – Exploring investment opportunities for decentralized clean energy systems and sustainable industrialization in Africa: Policy and technological options towards implementation

- Discussing the potential of agro-industrialization in Africa
- Opportunities for fresh EPC power projects in Kenya towards actualizing rural agro-industrialization powered by clean energy
- Outlining the methods of enabling and financing the development in infrastructure beyond energy

Dr. Juliette Biao Koudenoukpo, *Director & Regional Representative*, *Regional Office for Africa*,

**United Nations Environmental Program**

Mr. Julius Korir, *Principal Secretary – State Department of Industry and Enterprise Development*,

**Ministry of Industry, Trade and Co-operatives, Kenya**

Mr. Andreas Kaiser, *Head of Energy Desk*, **Delegation of German Industry and Commerce in Kenya**

Mr. Pierre Telep, *Lead Advisor*, **GIZ**

Ms. Catherine Collin, *Head of Regional Representation – East and Central Africa*, **European Investment Bank**

Mark Carrato, *Chief - USAID Kenya, Team Leader - Power Africa*

18:00 End of Day one and Networking Reception

08:30 Registration and Morning Coffee

## Enhancing the existing power systems in Africa

### 09:00 The growth potential of Sub-Saharan Africa's electricity sector

- How power demand will evolve in the region
- How much it will cost to supply the needed power
- What is required to ensure that the new capacity gets built
- Sub-Saharan Africa has an extraordinary opportunity but will have to do a lot of work to take advantage of it.

### 09:30 Overcoming challenges with regards to the development of power sector in Africa

- Discussing the influence of associations, renewable energy centre and research and development institutes in the growth of the power sector
- Outlining the legal aspects with regards to approvals and sanctions of the power projects
- Creating a stable environment for the growth of the power sector

### 10:00 Structured Finance and Investment

- Reducing Non-Technical Distribution Losses in T&D & Implementing New Utility Revenue Streams
- Project Partner Experiences and Power Purchase Agreement (PPA) Solutions in Energy sector projects
- Catalysing public as well as private investment by regional integration
- Improving access to Equity and other funding sources for long term investment

### 10:30 Reviewing policies and the legal framework for independent power producers to expand their reach across the East African region

- Understanding the land acquisition, operational and taxation policies for international power developers to venture in eastern African market
- Highlighting a imperative schemes for IPP's to captivate them towards African nations
- Ensuring power security for a regulated and transparent power system in Kenya

11:00 Morning Refreshments and Networking break

## Development for better power transmission, distribution and regulation

### 11:30 Infrastructure of the existing Power Systems & Challenges in Quality of Supply of Electricity

- Distribution issues and disruptions limit the extent to which the general population benefit from increasing capacity
- Electricity disruptions have detrimental effects on industry and contribute to overall uncertainty in the business environment
- Inadequate transmission and distribution networks in most African countries only allow electrification in urban centres, and in many countries the majority of the population still has no access to electricity

### 12:00 Discussing regulatory issues related to utilization of renewable resources for power generation and transmission

- Significance of a transparent regulatory body in the sub-Saharan African countries
- Focusing and determining solutions for issues like power theft and ways to improve the power security
- Reviewing the feed-in tariff (FIT) policies for industrial programs in the sub-Saharan region

Dr. Ayub Macharia, *Director – Environmental Education & Public Participation,*  
**National Environment Management Authority (NEMA)**

### 12:30 Adapting decentralized power generation system in the rural area

- Importance of decentralized power generation system
- Identifying the power transmission challenges faced by decentralizing the power generating system
- Distinguishing the financial mechanism of the centralised and decentralised power generating system

Ms. Zulandi van der Westhuizen, *Deputy Director Scenarios and Resources,* **World Energy Council**

13:00 Networking Lunch

## 14:00 Implementation of off – grid technology projects using renewable energy for reliable power generation and better power transmission

- Reviewing regulatory policy mechanism and technical aspect for the implementation of off-grid projects
- Analysing the feasibility for off – grid projects in integration with renewable energy sources like solar and wind
- Discussing the infrastructural requirements and challenges for an off – grid project

Mr. Pierre Telep, *Lead Advisor*, **GIZ**

## 14:30 Exploring the natural gas markets in the sub-Saharan African regions such Tanzania, Mozambique, Nigeria and Equatorial Guinea

- Understanding the policies related to transporting the gas to neighbouring countries like Kenya and Uganda in the eastern African region and Ghana in the western African region
- Reviewing the financial structure necessary for transport modelling
- Discussing the scope of using CNG/LPG for transport, cooking and other industrial applications

15:00 Refreshments and networking break

## 15:30 Energy efficiency technologies application to help Kenyan industries to become competitive

- Discussing energy efficiency with reference to the Energy Bill 2016
- Understanding the ways in which the industry can be made aware of energy saving opportunities in their operation
- Apart from designing policy mechanism, role of the government and utilities in facilitating capacity building in demand side management.

Prof. Izael Da Silva, *Deputy Vice-Chancellor Research and Innovation*, **Strathmore University**

## 16:00 Environmental and Social Sustainability - Minimum Sustainability Standards for New Power Projects

- Identifying and Evaluating Environmental, Social and Economic Implications of an Intended Project
- Promoting and Monitoring Improved Environmental, Social and Economic Performance
- Assessing and Avoiding Potential Adverse Impacts and Risks

## 16:30 Grid-friendly Renewable Energy Generation

- Assessing grid connection locations, capacity and potential reinforcements
- Maintaining system reliability and stability
- Technological developments making Renewable Energy more grid friendly (Predictable, Controllable & Dispatchable)

## 17:00 Power Plants Automation

- Improving efficiency of the system for Optimizing, Supervising and Controlling the generation and Transmission Systems
- Greater system reliability and stability for Integrated Grid Operation
- Usage of Improved Technology to reduce Energy Loss and maximise output

## 17:30 Assessing and integrating renewable energy resources for efficient and effective power production

- Identifying the need for the Integration of Renewable Resources
- Reviewing the methodology for an Implementation plan to Integrate the power generation from wind or solar resources with gas power
- Overcoming the challenges faced in the Integration of resources

18:00 End of the Conference

# More About This Conference –

## 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](http://www.bricsaconsulting.com)

## Highlights of Power Tech Africa Conference 2017:

- Identifying the potential of renewable sources in the Sub-Saharan Regions
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- Hybrid Energy System : Spurting opportunities for energy market

## Key Growth Indicators:

- Utilization of renewable energy for producing power was 17% in 2009 and is expected increase by 50% in 2030 and by 75% in 2050
- The potential of generating power using gas is about 400 GWs from Mozambique, Tanzania and Nigeria representing 60% of the total capacity
- With remarkable availability of solar energy resources, the costs of the photo voltaic module have almost dropped by 60%
- The total current technical potential of generating power using wind energy is around 7000 GW's

## Investment opportunities

- Generation of energy using renewable sources such as wind, geothermal and solar sources - Feed in Tariff (FIT) is a policy strategy which aims to increase investment in renewable energy technologies. The country plans to increase electricity installed capacity by 5,538 MW by 2017
- Development of diesel plants and hydropower
- Drilling and Steam Field Development of Wells for geothermal
- Construction of Pipeline and Storage Facilities for petroleum products
- Exploration of petroleum deposits in other potential regions of the country

## 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
- Directores, 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 :

Sushrit Dange

Conference Producer

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