



ECOWAS SUSTAINABLE ENERGY WEEK

“Towards a Viable and Robust Energy Market in the ECOWAS Region”

17 - 19 October 2016

Accra – Ghana



SUSTAINABLE ENERGY WEEK

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The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE), the ECOWAS Regional Electricity Regulatory Authority (ERERA), the West Africa Power Pool (WAPP), the West African Gas Pipeline Authority (WAGPA) and the Department for Energy and Mines of the ECOWAS Commission, are jointly organizing the maiden edition of the ECOWAS Sustainable Energy Week from October 17th to 19th 2016 in Accra, Ghana.

The theme of the event is: «***Towards a Viable and Robust Energy Market in the ECOWAS Region***». It is supported by the Austrian Development Cooperation (ADC), the Spanish Agency for International Development Cooperation (AECID) and the United Nations Industrial Development Organization (UNIDO).

I. BACKGROUND

Despite the huge energy resources (both conventional and renewable) of the 15 Member States of the Economic Community of West African States (ECOWAS), energy challenges through out the region remain unresolved. The ECOWAS region is characterized by low access to electricity, low consumption of energy per capita (150 kWh per annum), energy insecurity, and a heavy reliance on biomass energy in the total final energy mix (80%). Climate changes also possess a major challenge to energy development and sustainable development. These factors intricately complicate the implementation of regional strategies aimed at fostering socio-economic development, attracting foreign investment and providing basic social services for citizens in the region.

The goal is develop a robust regional energy market to increase access to modern and sustainable energy services in West Africa yet an ambitious plan for achieving an integrated energy market is still unfulfilled. It requires a number of regional actions to be taken. Regional access to energy, energy security will not be achieved simultaneously in future decades without increasing regional power trade.

However, under the aegis of ECOWAS, West African countries are becoming more actively engaged in regional integration and cooperation in the area of cross-border infrastructure projects for electricity and gas supply. The gravitation towards a regional solution to the energy security challenges facing the region is borne out of the capital-intensive nature of energy projects and the fact that regional cooperation could help address the region's uneven distribution of energy resources and increase cross-boundary electricity trade.

Renewable energy is also taking centre stage with large scale solar playing an important role. Current decline in solar technology costs coupled with vast resources is making it a technology of choice in

region. The promotion of utility scale renewable energy could significantly address the regional energy deficit. One of such initiatives promoted by ECREEE is the West Africa Clean Energy Corridor (WACEC), which aims to develop utility scale renewable energy based power and integration of renewable energy sources into the West African power systems, building on the ongoing efforts of the countries and regional organizations, such as, WAPP and ERERA.

All these efforts require putting in place adequate regional policies and regulatory standards and adopting common rules that guide stakeholders in the power sector, in such a way that engenders investor-confidence.

II. HISTORICAL DEVELOPMENTS OF REGIONAL ENERGY INTEGRATION IN THE ECOWAS

Article 28 of the ECOWAS Treaty of 1975, revised in 1993 is concerned with the energy sector, and seeks to establish a common energy policy and appropriate cooperation mechanism for the resolution of energy development problems in member countries. In this regard, the ECOWAS Regional Energy Programme was embarked upon with a view to improving access to modern, clean and affordable energy services by developing regional resources and actively pursuing regional cooperation and integration, particularly in the area of cross-border infrastructure projects for electricity and gas supply.

The commitment of ECOWAS Member States for the pooling and sharing of energy resources and improving energy supply in the region, is therefore translated into action through the following:

- Establishment of the **West African Power Pool (WAPP)** and its Master Plan, aim at the creation of a robust regional electricity market by 2020/25, by promoting and developing power generation and transmission infrastructures and coordination of electricity exchanges between ECOWAS members states;
- Development of **West African Gas Pipeline (WAGP)**. The West African Gas Pipeline Project is a 681 km pipeline designed to transport natural gas from Nigeria to Ghana, Togo and Benin for electricity generation and industrial need;
- Establishment of the **ECOWAS Regional Electricity Regulatory Authority (ERERA)**. The establishment of ERERA was informed by the need to regulate regional cross-border trade of electricity in West Africa as well as promote the development of infrastructure, improve governance of the sector and attract significant private capital;
- Establishment of the **ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)** to promote renewable energy and energy efficiency markets, with the support of Austria, Spain and UNIDO;

Also, in line with Article 28 of the ECOWAS Treaty the following policies were adopted by the Authority of ECOWAS Heads of State and Government:

- **ECOWAS Energy Protocol**, in 2003, to reinforce cooperation within ECOWAS Member States and promote an attractive environment for investments in the regional energy sector;
- **ECOWAS / UEMOA White Paper**, in 2006, for access to energy services in rural and peri-urban populations in West Africa;
- **ECOWAS Master plan 2012-2025**, in 2012, for electricity Production and Transmission;
- **ECOWAS Renewable Energy Policy (EREP)** in July 2013, which aims to increase the share of renewable energy in the region's overall electricity mix to 35% in 2020 and 48% in 2030. The policy scenario is expected to complement other important conventional sources for power production (e.g. large hydro and natural gas);
- **ECOWAS Energy Efficiency Policy (EEEP)**, July 2013, which aims to implement measures that free 2000 MW of power generation capacity and in the long term, more than double the annual improvement in energy efficiency, so as to attain levels comparable to those of world leaders.

III. OBJECTIVE

The ECOWAS Sustainable Energy Week is organized to promote exchange of ideas and cooperation to support the acceleration of the implementation of a regional energy market and to improve the current policy and regulatory landscape for a sustainable regional energy sector among the 15 ECOWAS countries. The conference will facilitate interactions and forge partnerships between ECOWAS policy makers, the private sector and financial institutions.

Specifically, the Forum aims to:

- Assess the current status of the regional electricity market;
- Present the regional perspective of the national Renewable Energy and Energy Efficiency action plans;
- Present the status of the development of SE4ALL investment prospectuses in each country, including project portfolios
- Discuss on various on-going initiatives for energy efficiency promotion;
- Showcase available instruments by the partners and investment firms ;
- Discuss the acceleration in the implementation of grid connected renewable energy plants and the private sector involvement in rural electrification in West Africa;
- Present the Regional Bioenergy Policy and its role and benefits in achieving the ECOWAS Sustainable Energy Goals.

The conference also provides an excellent platform for the presentation of other regional initiatives undertaken by the various institutions. Various events are planned under the following initiatives:

- **Clean Cooking:** Launch of the West Africa Clean Cooking Alliance (WACCA) Awareness Campaign;
- **Climate Change:** Accelerating Implementation of Climate Resilient Projects in ECOWAS Member States;
- **Hydropower:** Presentation of the new GIS tool for hydropower resource mapping and potentials incl. climate change scenarios for the West African region.

IV. EXPECTED PARTICIPANTS

ECOWAS Commissioner responsible for Energy, ECOWAS Directors responsible for Energy and the Environment, ECOWAS Directors or President responsible for Energy Agencies, SE4ALL Focal Points, financial institutions, development partners active in the region's energy sector, investors, private sector players, civil society groups, academia, the Global Network of Sustainable Energy Centers.

VII. VENUE AND DATE

The event will hold from **17 - 19 October 2016** at FIESTA ROYALE HOTEL, Accra, Ghana. The provisional agenda is herein attached.

CONFERENCE PROGRAM

Day 1: 17 October 2016

Towards a Viable and Robust Energy Market in the ECOWAS region

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| 08:30 | Registration of participants |
| WELCOME SESSION | |
| 09:00 | Opening session <ul style="list-style-type: none"> • IRENA • AfDB • USAID • EU • AECID • ADA • ECOWAS Commissioner • Minister of Power, Ghana |
| 10:30 | <i>Group Picture and Coffee Break</i> |
| SESSION 1 – Progress Made in the Establishment of a Sustainable Regional Power Market Moderator: tbc | |
| 11:00 | <ul style="list-style-type: none"> • ECOWAS commitment to competitive regional power market - ECOWAS Commission • Rules and procedures for regional power trade –ERERA • Revision of the ECOWAS Electricity Transmission and Generation Master Plan and WAPP project pipeline - WAPP • West Africa Clean Energy Corridor WACEC - Mahama Kappiah (ECREEE) • Discussions and Q&A |
| SESSION 2 –Regional perspective of the National Action Plans and Investment prospectus Process Moderator: tbc | |
| 13:00 | <ul style="list-style-type: none"> • Presentation of the ECOWAS Consolidated Sustainable Energy Report – Nathalie Weisman (ECREEE) • Regional Monitoring Scheme of the implementation of the regional sustainable energy policies and national action plans – Hyacinth Elayo (ECREEE) |
| 13:30 | Lunch break |
| SESSION 3 – IP advancement per country and projects portfolios by ECOWAS Member States | |
| 14:30 | Presentation of the ECOWAS SE4ALL Investment Prospectus –Nathalie Weisman (ECREEE) |

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| | <ul style="list-style-type: none"> • Benin • Burkina Faso • Cape Verde • Cote D'Ivoire • The Gambia <p>Q&A</p> |
| 16:00 | Coffee Break |
| SESSION 4- Regional Energy Efficiency initiatives Moderator: tbc | |
| 16:30 | <ul style="list-style-type: none"> • Report on the consolidated Energy Efficiency National Action Plans - Ibrahim Soumaila (ECREEE) • Energy efficiency initiatives in the ECOWAS region: buildings, Minimum Energy Performance Standards - MEPS - Ibrahim Soumaila (ECREEE) • Reduction Losses in the interconnected system: case studies – WAPP, utilities (CIE, ECG) • Role of Solar Water heating in increasing power reserves in National Grids – Hannes Bauer (ECREEE) • Role of national regulators to promote energy efficiency – National regulator <p>Launch ECREEE/NREL Energy Efficiency collaboration (tbc)</p> |
| 18:30 | End of day One |
| 18:30 | Launch of the West African Clean Cooking Alliance-WACCA, Awareness Campaign and cocktail |

Day 2 : 18 October 2016

Towards a Viable and Robust Energy Market in the ECOWAS region

| SESSION 5 – IP advancement per country and projects portfolios by ECOWAS Member States | | |
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| 09:00 | <p>Ghana</p> <p>Guinea</p> <p>Guinea-Bissau</p> <p>Liberia</p> <p>Mali</p> <p>Q&A</p> | <p>Side Event: Climate Change</p> <p>For Directors of Environment and climate change focal points only</p> <p>Regional Forum Regional Forum for Accelerating Implementation of Low Carbon Climate Resilient Projects in ECOWAS Member States.</p> |
| 10:00 | Coffee Break | |

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| | <p>Niger</p> <p>Nigeria</p> <p>Senegal</p> <p>Sierra Leone</p> <p>Togo</p> <p>Q&A</p> |
| SESSION 6- Experiences in mobilizing and using Instruments by Partners Moderator: tbc | |
| 11:30 | <ul style="list-style-type: none"> • Technical Assistance Facility for Grid-Connected RE Projects - ECREEE and GIZ • Different instruments by IRENA – IRENA (tbc) • Different instruments by EU – EU (tbc) |
| 13:30 | Lunch break |
| SESSION 7- Perspective of the regional electricity market development Presentation on the ElectrIFI initiative of the European Union, representative of the EU (tbc) | |
| 14:30 | <ul style="list-style-type: none"> • ERERA • WAPP |
| 15:30 | <i>Coffee Break</i> |
| SESSION 8- Sharing experiences in the promotion of private investment in clean energy mini-grids and standalone systems | |
| 16:00 | <p>Panel Discussion</p> <p>Launch of EREF3 (tbc)</p> |
| 17:30 | End of day 2 |

Day 3 : 19 October 2016

Towards a Viable and Robust Energy Market in the ECOWAS region

SESSION 9 - The acceleration of the grid connected renewable energy market in West Africa
Moderator_ tbc

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| 09:00 | <u>Panel Discussion on utility scale power generation</u> <ul style="list-style-type: none">• From unsolicited proposals to 100 MW solar PV competitive bidding in Senegal- Senegal (tbc)• Solar PV tender in Mali – Ministry of Energy and Water, Mali (tbc)• Private promoter experience – IPP (tbc) <u>Panel Discussion on distributed generation</u> <ul style="list-style-type: none">• The solar rooftops initiative in Ghana- Energy Commission (tbc)• The operationalization of the distributed generation framework in Cabo Verde– Ministry of economy and employment, Cabo Verde (tbc)• Private promoter experience – (tbc) |
| 9:50 | |
| 10:40 | Launch of the collaboration between ECREEE and the EU Energy Initiative Partnership Dialogue Facility (EUEI PDF) on the development of and training on a toolbox for renewable energy tariff design in West African countries – ECREEE, EUEI PDF (tbc) |
| 11:00 | <i>Coffee Break</i> |
| SESSION 10: Regional Bioenergy Policy: Role and benefits in achieving the ECOWAS Sustainable Energy Goals | |
| 11:30 | Presentation and Q&A |
| SESSION 11: Results of the GIS Hydropower potential mapping and climate change prospects | |
| 12:30 | Presentation and Q&A |
| 13:30 | Lunch break |
| SESSION 12: Making Climate finance work for the ECOWAS region Presentation on the ElectrIFI initiative of the European Union, representative of the EU (tbc) | |
| 14:30 | Panel Discussion SEFA GCF CAMCO |
| 16:30 | <i>Coffee Break</i> |
| 17:00 | Closing ceremony |
| 17:30 | Signature of the new collaboration between, ECREEE, WAPP and ERERA and cocktail and Closing Cocktail/ Dinner |

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