



**Promotion of a Climate-friendly
Interconnected Power System
in West Africa**

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ZUSAMMENARBEIT DEUTSCHLAND – ECOWAS



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Key Information

- Joint programme of **GIZ** (Technical Cooperation) and **KfW** (Financial Cooperation)
- Lead executing agency: ECOWAS Commission located in Abuja (Nigeria)
- Duration: 11/2013 - 12/2016 (1st phase of the programme)
- Financial resources: EUR 6 million
- Close cooperation with KfW, EU, USAID, World Bank and other bilateral and multilateral donors
- Regional approach with three regional institutions:
 - WAPP (West African Power Pool)
 - **ECREEE (Ecowas Centre for Renewable Energy and Energy Efficiency)**
 - ERERA (Ecowas Regional Electricity Regulatory Authority)



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Programme objective
“Key conditions for a climate-friendly
interconnected power system in the ECOWAS
region have been created”

Electricity Generation

Improvement of framework
conditions for Renewable
Energy (RE)

Support- advice to regional
policy for RE, energy
efficiency and access to
energy

Support- advice to identify
new projects (RE flagship
projects)

Electricity Transmission

Training of employees of the
Information and
Coordination Center (CIC)

Support– advice to create
the five areas control centres

Electricity Distribution

Support- advice to energy
providers: reduction of power
distribution losses

Support– advice to develop
electric system plan

Support– advice to study on
market regulation

Capacity development for energy providers
Support– advice to the development of regional Centres of Excellence

Areas of Interventions



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Main Activities

WAPP

- *Capacity building for the staff of ICC and Area Control Centers (ACCs)
- * Study on the development of distribution network for loss reduction
- * Support for the development of 5 centres of excellence for regional training of utility staff
- * Review of the WAPP Capacity Building Programme Initiative (CBPI)

ECREEE

- *TA for creating an enabling environment for grid-connected RE in selected member states
- *Support for the development of potential new RE flagship projects
- *Documentation and dissemination of experience with RE flagship projects

ERERA

- *Monitoring of the implementation of the ECOWAS directive related to the organisation of the regional electricity market
- *Support for Capacity Building activities



Trends and Opportunities

Continuing development of hydropower capacity as a major source of baseload generation

Solar PV is in the process of becoming the second pillar of RE-based power generation in the region

Strong private sector interest especially in solar PV, wind and biomass energy projects

Competitive bidding is becoming the most important policy instrument for promoting private investment in power generation from solar PV and other technologies; grid-connected distributed generation of solar PV is also gaining importance

Regional integration of power systems will improve the capacity of national grids to absorb variable RE generation



Challenges

The legal and regulatory framework for private investment in RE is still inadequate in some countries, lack of enforcement

Lack of risk mitigation (e.g. off-taker risk) is holding back investment

Challenges of intermittent power generation from solar PV and wind energy need to be addressed