

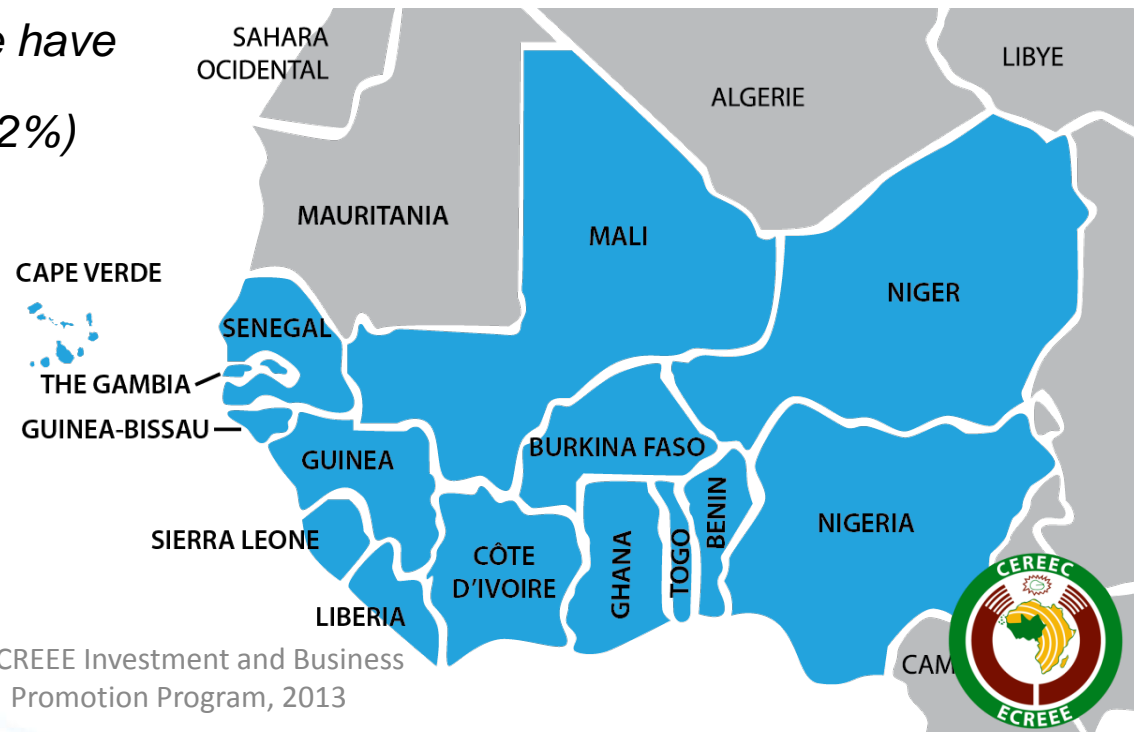


ECREEE INVESTMENT AND BUSINESS PROMOTION PROGRAMME

MID-TERM PROGRAMME

THE ECOWAS REGION

- 15 countries with a land area of 5 million m²
- Climate from semi-arid to humid tropical
- Population of with 300 million people
- 60% of population lives in rural areas
- Almost 176 million people have no access to electricity (52%)



RE&EE POTENTIAL IN THE ECOWAS REGION

RE & EE play an important role in simultaneously addressing the energy challenges in West Africa

RE potentials so far unexploited

- 23,000 MW of feasible **large and small hydropower potential** (16% exploited);
- Huge potential for **all forms of bioenergy** (e.g. biomass, biogas, biofuel);
- Average **solar radiation of 5-6 kWh/m²** per day throughout the year;
- Considerable **wind power potential** in some countries;
- RETs are particularly effective in combination with EE measures.

EE potentials so far unexploited

- Wide range of options to improve **supply and demand side efficiency** (including energy saving)
- e.g. **Equipment labeling and building standards**;
- e.g. **Cleaner production** in industry (e.g. process heat);
- e.g. **Technical and commercial losses** in the electricity system.



BARRIERS TO EXPLOITATION OF RE&EE POTENTIAL

- **Financial/Economics:**
 - High upfront costs of solar or wind compared with smaller scale conventional systems even where competitive;
 - Lack of large scale projects at regional level to take advantage of higher solar or wind resource endowments and economies of scale;
 - Lack of innovative financing mechanisms.
- **Policy and Institutional Issues:**
 - Absence of political targets for renewable energy in general and solar/wind in particular, in many countries;
 - Non-existent or weak policy measures for level playing field in many countries;
 - Weak national agencies with unclear responsibility for solar/wind in many countries.
- **Capacity Building & Technology Transfer**
 - Inadequate skilled technical manpower in many countries.
 - Limited or no local manufacturing due to small national markets.
 - Limited R&D with little or no linkages to entrepreneurial/ manufacturing sector.



ECREEE

- ECREEE's mandate is to contribute to the sustainable economic, social and environmental development of West Africa by improving access to modern, reliable and affordable energy services, energy security and reduction of energy related greenhouse gases emissions (GHG) emissions and climate change impacts on the energy system.

Towards Sustainable Energy for All in West Africa



ECREEE (2)

- The centre's action has as objectives to:
 - Create an enabling regulatory and legal framework for stakeholders involved in the clean energy business (energy efficiency and renewable energy;
 - Build capacity for stakeholders to intervene efficiently in the RE&EE industry and implement activities to sustain markets growth.;
 - Communicate on the multiple actions on RE&EE actually implemented by actors on the ground with leading by example activities and knowledge sharing.;
 - Attract investment for RE&EE projects and businesses to be implemented in the region.



ECREEE RESULT AREAS

key activities in the scope of five result areas are implemented to directly respond to the RE&EE barriers in the ECOWAS region.

**RESULT AREA
1: Effective
regional
RE&EE
promotion
agency
sustainably
financed**

**RESULT AREA
2: Tailored
policy, legal
and regulatory
frameworks
developed
and
implemented**

**RESULT AREA
3: Capacities
strengthened
and applied**

**RESULT AREA
4: Knowledge
management,
awareness
raising,
advocacy and
networks
strengthened**

**RESULT AREA
5: Business
and
investment in
RE&EE
promoted**

CREATION OF AN ENABLING ENVIRONMENT

In 2012, ECREEE undertook the development of the ECOWAS Energy Efficiency and Renewable Energy Policy.

- Policies were validated by Experts in Dakar, in June 2012;
- Policies were adopted by Ministers for Energy in Accra, in October 2012;
- Policies were finally adopted by the Authority of ECOWAS Heads of State and Governments, in July 2013 in Abuja, Nigeria



CREATION OF AN ENABLING ENVIRONMENT (2)

EE policy and RE policy are action plan for attainment of the two main objectives:

- Conservation of 200 MW electricity with implementation of efficient measures: efficient lighting, efficient cooking, efficiency in building, high performance electricity distribution, standards and labeling.
- 19% RE penetration rate in the ECOWAS region by 2030 with additional power generation using RE resources: small scale hydropower solar PV and thermal, wind and.



CREATION OF AN ENABLING ENVIRONMENT (3)

- ECREEE developed also programmes to support the deployment of specific RE technologies in the region:
 - Bioenergy programme validated by experts in 2012 (Mali) and adopted by ECOWAS Ministers for Energy
 - Small scale hydropower programme validated by experts in April 2012 (Liberia) and adopted by ECOWAS Ministers for Energy
 - Sustainable Energy Access for West Africa (SEEA-WA) programme on-going with AEA, AERE, Copper Institute and Energia
 - West Africa Clean Cooking Alliance Action plan validated by experts in April 2013 (Burkina Faso)



CAPACITY BUILDING

- Several training for trainers workshops organized since 2011: RETScreen, Homer, SAM, MESSAGE, Grid stability with RE penetration, CSP technologies and potential for the region etc.
- Support to national follow-up trainings;
- Capacity building programme developed in collaboration with ECOWAS universities based on a stalktaking mission in the 15 ECOWAS Member countries.



KNOWLEDGE MANAGEMENT

- Leading by example action with demonstration projects implemented:
 - Solar heating system in Cape Verde parliament,
 - Solar PV panels in ECREEE Headquarters,
 - UN Building in Cape
-and planned
 - Solar PV panels for the ECOWAS Headquarters in Abuja,
 - Bioethanol for cooking in Senegal



KNOWLEDGE MANAGEMENT (2)

- RE&EE market data for investors and developers
- GIS Maps on RE potentials, and other planning data (e.g. lines, roads, existing and planned stations and systems)
- Country profiles and statistics
- Document library (e.g. studies, policies, project documents)
- ECOWREX Investment portal
- www.ecowrex.org

ECOWAS OBSERVATORY FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY



ABOUT

COUNTRY PROFILES

MAPS

ANALYSIS & TRENDS

EXPLORE

FEEDBACK



COUNTRY
PROFILES



MAPS
VIEWER



ANALYSIS &
TRENDS



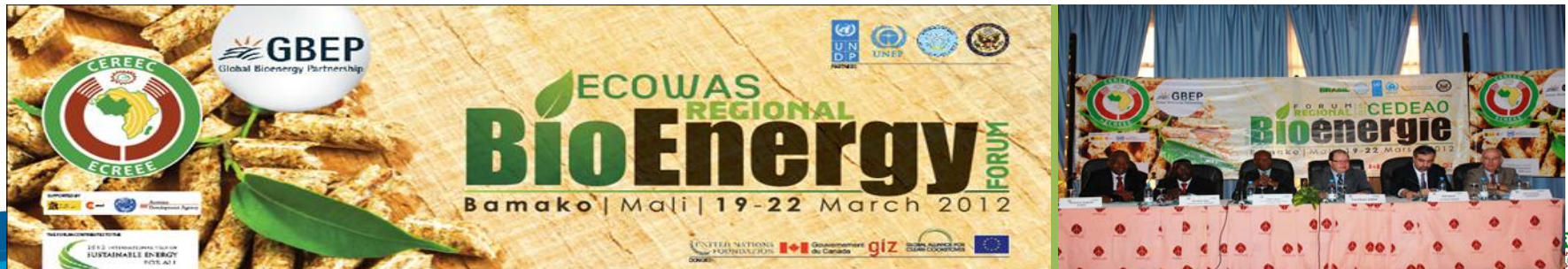
ECREEE PROGRAMS

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Promotion Program, 2013



BIOENERGY PROGRAM

- **The overall objective of the Regional Bioenergy Strategy** is to improve food and energy security through the deployment of sustainability criteria in the production and utilization of resources.
- Regional Forum held 19 to 21 March in Bamako, Mali with assistance of GBEP Partners: UNDO, USA UNIDO, UNEP and GACC
- Regional Bioenergy Strategy Framework was elaborated & validated
- Adopted by Ministers at the ECOWAS HLM Meeting in Accra, Ghana
- Capacity building started end of 2012
- policy development started in 2013



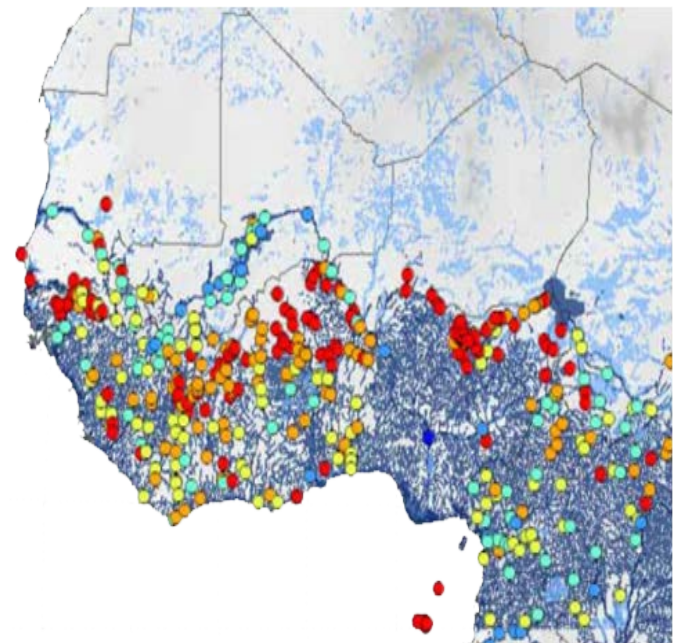
ENERGY EFFICIENCY PROGRAM (SEEA-WA)

- Managed by ECREEE
- Technical support of the Austrian Energy Agency (AEA), AERE, Copper Institute and Energia
- Co-funded by ACP-EU Energy Facility, ADEME, UNDP
- Standard and Labeling Initiative
- Initiative to reduce grid losses in cooperation with the West African Power Pool (WAPP)



SMALL SCALE HYDROPOWER PROGRAM

- Regional workshop from 16 to 20 April 2012, in Monrovia, Liberia, with assistance of UNIDO and ESMAP
- The Five- Year SSHP Program Proposal with a volume of 15m Euro was validated by 80 ECOWAS experts
- Adopted by Ministers at the ECOWAS HLM Meeting in Accra, Ghana
- Program execution is envisaged to start in 2013
- ECREEE-UNIDO Partnership



ORGANIZED BY / ORGANISÉ PAR:



ECOWAS Regional Workshop on SMALL SCALE HYDRO POWER Atelier Regional de la CEDEAO sur la PETITE HYDROELECTRICITE

SUPPORTED BY / SOUTIENÉ PAR:



WEST AFRICA CLEAN COOKING ALLIANCE



The objective of WACCA is to improve living conditions of the ECOWAS population through an increased access to cleaner and more efficient cooking devices, sustainable biomass fuels and other modern fuels, while reducing local and global environmental impacts of cooking activities

Strategies
Policies
& Targets

Governance
&
Coordination

Capacity
Building

Awareness
Raising

Standards,
monitoring
Control &
Research

Financing



INVESTMENT AND BUSINESS PROMOTION PROGRAMME

- ECOWAS Renewable Energy Initiative
 - Portfolio of projects annually updated
 - Support to selected priority projects
 - Creation of a network of stakeholders grouping project promoters and financiers
 - Communication through the ECOWREX Investment portal
- ECOWAS Renewable Energy Facility
 - Call for proposals of projects
 - Capital grant to small sized RE&EE projects
 - Technical assistance of projects implementation



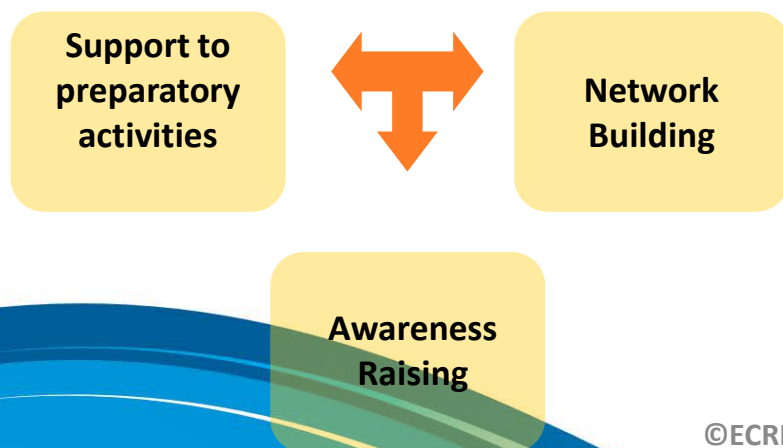
ECREEE INDICATIVE BUDGET (2012-2016)

- The indicative budget of ECREEE for achievement of the five result areas is EUR 34.5 million. EUR 21.6 million are mobilized from ECOWAS Commission and various partners (Austria, European Commission, Spain, UNIDO, USAID).
- To close the existing funding gap, ECREEE envisages signing at least five funding agreements with new partners and three funding agreements with ECOWAS member states by the end of 2016.
- 41% of the budget will be used for result area 5 – investment and business promotion.



MID-TERM INVESTMENT AND BUSINESS PROMOTION PROGRAMME

The overall objective of the investment and business promotion program is power generation from sustainable, clean and affordable RE resources, contributing simultaneously to regional energy access and global climate change mitigation.



Towards sustainable energy for all in West Africa

MID-TERM INVESTMENT AND BUSINESS PROMOTION PROGRAM (2)

The 2013/2014 agenda of the mid term I&B Program is:

- **Support to priority projects**
 - Presentation to financiers
 - Feasibility study for the CSP Project
 - Support to procedures for fulfilling in-country requirements for power generation from RE resources
- **Program for five selected sites within the ECOWAS Resource Assessment**
 - Feasibility studies for selected sites
 - Support to procedures for fulfilling in-country requirements for power generation from RE resources
- **Special programme for selected countries**
 - Feasibility study
 - Procedures for fulfilling in-country requirements for power generation from RE resources
- **EREF second call for proposals**
- **General study on rural electrification schemes**



THE INVESTMENT AND BUSINESS PROMOTION PROGRAM (3)

By end 2014, results expected within implementation of the I&B program are:

- 23 ready for implementation medium and large sized power generation projects using RE resources within EREI;
- 5-10 small sized projects under implementation within EREF;
- Rural electrification programme for the ECOWAS region



FUNDING

- The requisite funding for 2013 is EUR 1.348 million fully mobilized.
- The requisite funding for the Investment and Business Promotion Program is 1.7 million a part is to be mobilized from partners and a part is included in the workplan subject to approval by the ECREEE Executive Board by end of October.



PARTNERS

CORE



Austrian
Development Cooperation



NEW



USAID
FROM THE AMERICAN PEOPLE



INVESTMENT



TECHNICAL



INTERNATIONAL
RENEWABLE
ENERGY AGENCY



renewable
energy & energy
efficiency
partnership



AUSTRIAN ENERGY AGENCY



Agence de l'Environnement
et de la Maîtrise de l'Énergie



Alliance for
Rural
Electrification



OTHER



Thank You! Merci! Obrigado!

ECREEE Investment and Business Promotion Programme

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