

Promoting Sustainable Energy Access in the ECOWAS Region

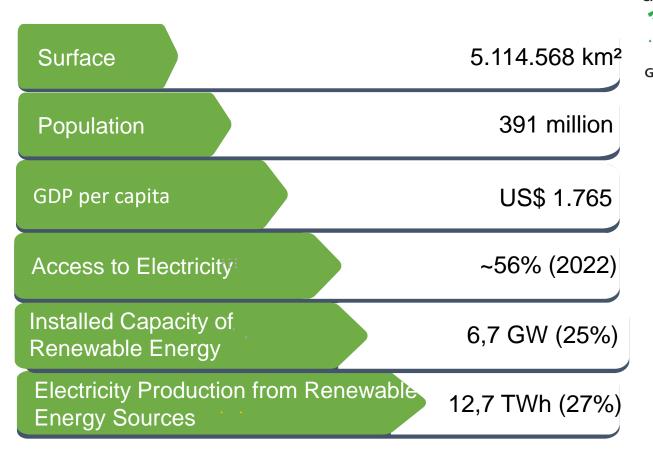
Water – Energy – Food Nexus & Circular Economy

www.ecreee.org

ECOWAS Centre for Renewable Energy and Energy Efficiency Centre pour les Énergies Renouvelables et l'Efficacité Energétique de la CEDEAO Centro para as Energias Renováveis e Eficiência Energética da CEDEAO



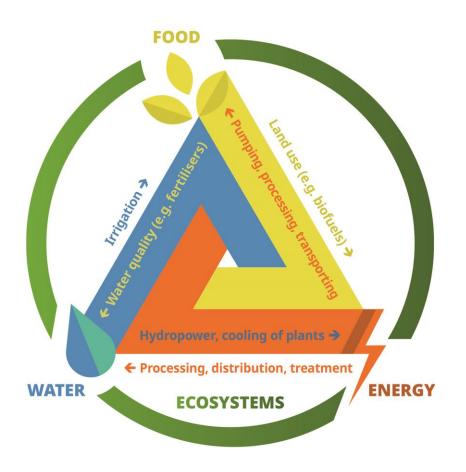
THE ECOWAS REGION. Energy Challenges







What is the WEF (Water-Energy-Food) Nexus for sustainable development?





THE ECOWAS REGION. Challenge for economic development

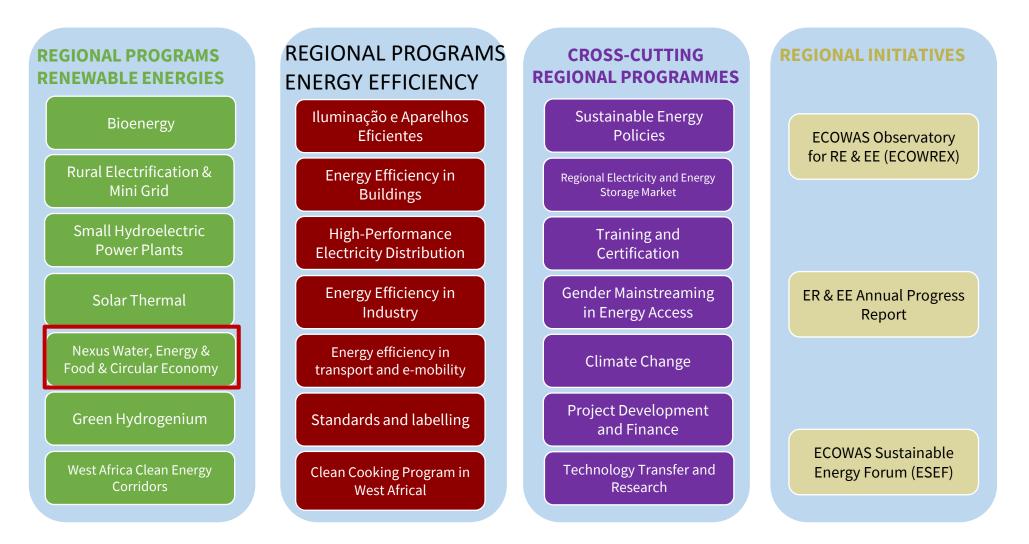
- The agricultural sector contributes to more than 35% of ECOWAS's GDP
- More than 60% of the ECOWAS population works in the agricultural sector
- Agriculture accounted for 31% of greenhouse gas emissions in West Africa
- Post-harvest losses also pose a significant problem
- Modernising agriculture through the introduction of RE and circular economy practices is necessary to:
 - ✓ Harnessing the full potential and meeting the needs of the population
 - ✓ Fostering inclusive growth
 - Promoting sustainable development



Project PAC-SOLAR Implemented by ECREEE



ECREE'S PROGRAMMES Operacionalization of Strategic Orientations 2023-2027





- Increase food production along the value chain through more sustainable and efficient use of energy

Waste reduction

- Increase yields

Agriculture

- Develop innovative solutions to address the challenges associated with the **WE4F Nexus**
- Promoting climate and **environmental resilience**



Ongoing projects



Water and Energy for the Improvement of Food Security and Socio-Economic Development Promotion of Clean Cooking Solutions and Solar Technologies

î,

Regional Pilot Project on Circular Economy.

SUPPORT FOR THE PREPARATION OF A NEW MULTIANNUAL FRAMEWORK DOCUMENT FOR SPANISH AND ECOWAS COOPERATION

Projects focused on Clean Cooking and the Water-Energy-Food Nexus are considered a priority. Transition to a Clean Energy Circular Economy by Optimising

High Energy Value Chains in High Impact Sectors









Ongoing projects



Pilot Project on Circular Economy through the Water-Energy-Food Nexus in West Africa

Phase 1 - Scoping Exercise to Establish the Database



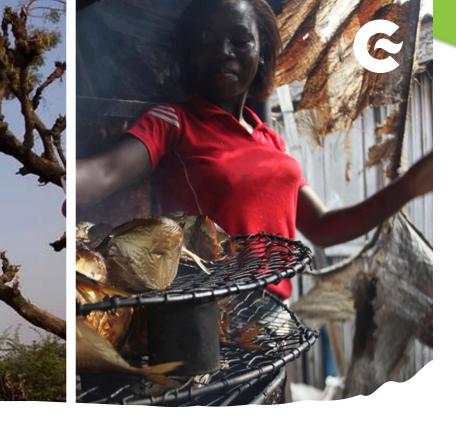




Specific Objectives

- Economic: Improve energy efficiency to prevent losses and optimize performance.
- Social: Strengthening the capacity of stakeholders and promoting job creation.
- Environmental: Moving towards clean energy and recycling waste to reduce greenhouse gas emissions.
- Community development: Improving people's livelihoods by providing them with access to productive activities.
- **Gender:** Ensuring a balanced representation of women and youth.





Adoption of technologies that promote the use of water and energy to improve food security and socioeconomic development.

SOLAR

SOLUTIONS FOR CLEAN COOKING

aecid

USE OF WASTE





Water and Energy for the Improvement of Food Security and Socio-Economic Development

Promotion of Clean Cooking Solutions and Solar Technologies

PLANNED ACTIVITIES

- I. Conducting BASELINE STUDIES / COMMUNITY SELECTION
- 2. Stakeholder CONSULTATIONS
- 3. Providing CLEAN ENERGY SOLUTIONS
- 4. TRAINING in the use of clean technologies.
- 5. AWARENESS on alternative energies and energy efficiency.
- 6. COMMUNICATION materials for the expansion and reproduction of the project.

SAHARA

SENEGAL

SIERRA LEONE

CAPE VERDE

GUINEA-BISSAU

Sec. 1

THE GAMBIA

MAURITANIA

GUINEA

LIBERIA

CÔT

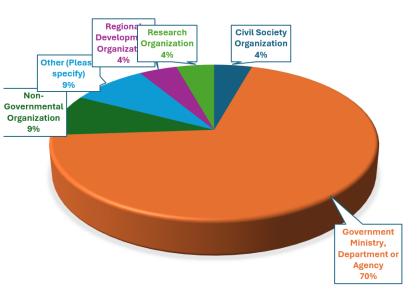
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Participants in the national stakeholder workshop on May 29, 2024 in Praia, Cape Verde

National Stakeholder Consultation Workshop on Renewable Energy for Productive Use

38 participants



Questioned

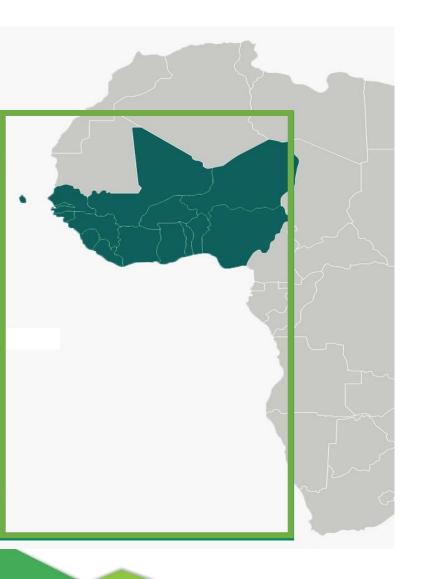
Fish	# of inquired
Mackerel	16
Tuna	14
Grouper	6
Main grand	
Main crops	# of inquired
Cassava	# of inquired 18
Cassava	18

RECOMMENDATIONS

- Introduction of solar-powered refrigeration units for fish preservation
- Promoting energy-efficient agricultural equipment, such as irrigation pumps
- Improving market access for agricultural products and fish through improved transport and storage infrastructure
- Training programmes on sustainable energy use and business development for local producers
- Harnessing solar energy for agricultural production, processing and yield improvement
- Promoting energy-efficient post-harvest equipment to reduce food loss and increase yields
- Modernising agricultural practices and expanding livestock production on fertile land
- Improving market infrastructure and cold storage for fisheries to increase economic resilience

VALUE CHAINS	RECOMMENDATIONS
Tomato	Tomato production under controlled conditions in a greenhouse with drip irrigation
	Promotion of tomato processing through solar technologies
	Integrating tomatoes into tourism growth initiatives
Tuna, mackerel,	Freezing, chilling and processing for preservation and access to the best national and
grouper	regional markets
Cassava	Combined/fire cooked cassava flour using biogas energy from cassava waste.

STRATEGY AND ROADMAP FOR COLLABORATION









ECOWAS Sustainable Energy Forum (ESEF 2024)



ECOWAS SUSTAINABLE ENERGY FORUM ESEF 2024

Towards a Just Energy Transition in West Africa

Parc des Expositions - Abidjan, Côte d'Ivoire

November 28 - 29, 2024

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24. ECOWAS Sustainable Energy Forum (ESEF)

- Ministerial Dialogue: WEF Nexus
- Water Energy and Food Nexus & Circular Economy
- Water Energy and Food Nexus Private Sector





Policies, action plans
Research – Academy
Private sector interventions
Capacity building
Data and digitalization
Financing

DIALOGUE BETWEEN STAKEHOLDERS



Policies, action plans
Research – Academy
Private sector interventions
Capacity building
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Financing

Energy projects for productive use

DIALOGUE BETWEEN STAKEHOLDERS



Policies, action plans
Research – Academy
Private sector interventions
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Financing

DIALOGUE BETWEEI STAKEHOLDERS

Modelling projects



Policies, action plans
Research – Academy
Private sector interventions
Capacity building
Data and digitalization
Financing

Inter-agency collaboration

DIALOGUE BETWEEN STAKEHOLDERS





Thank you - Merci - Obrigado

ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) e-mail: info@ecreee.org

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Acompanhe-nos nas nossas redes sociais