



ECREEE
Towards Sustainable Energy

Promoting Sustainable Energy Access in the ECOWAS Region

www.ecreee.org

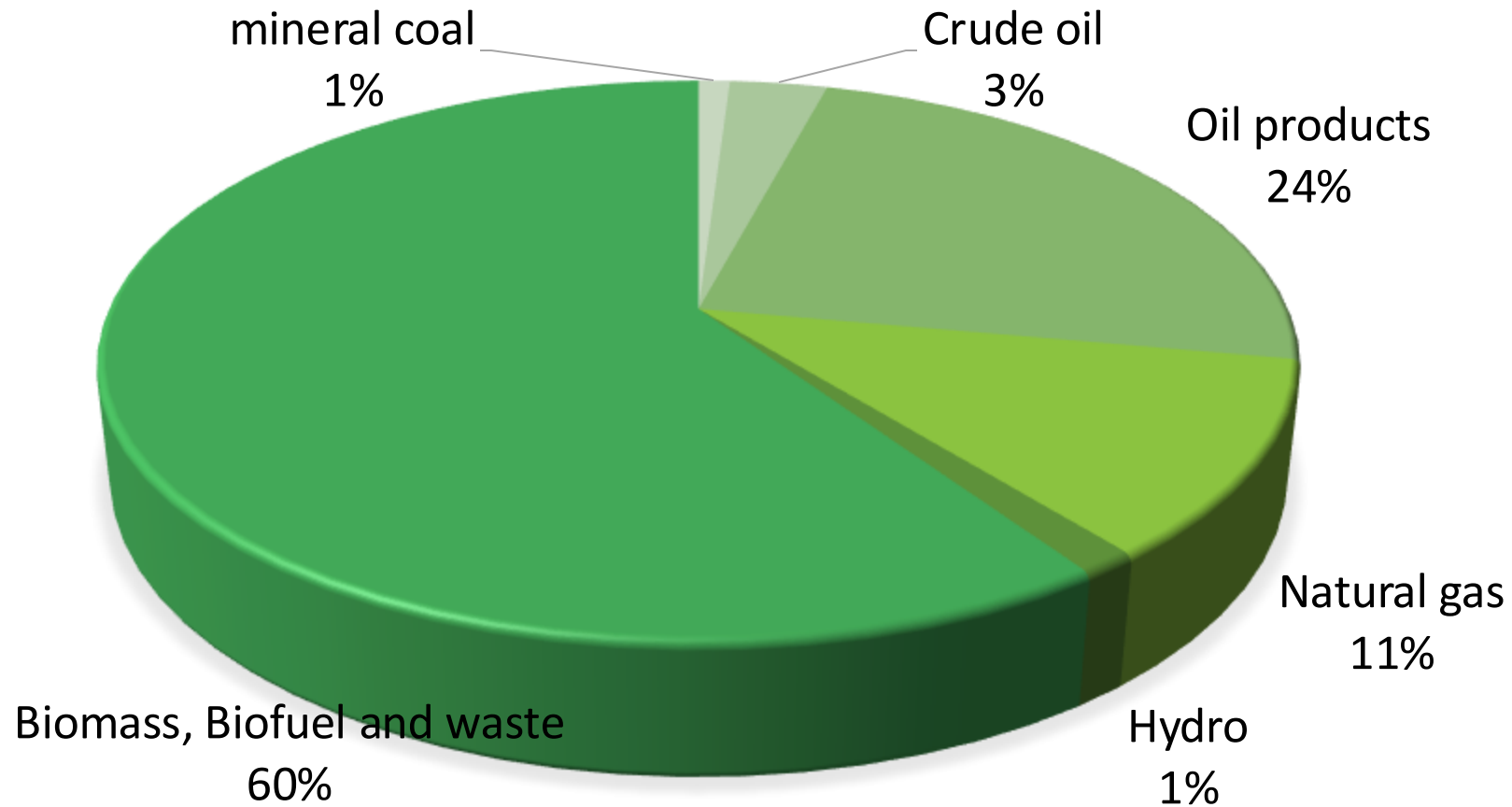
ECOWAS Centre for Renewable Energy and Energy Efficiency - ECREEE

Centre pour les Energies Renouvelables et l'Efficacité Energétique de la CEDEAO - CEREEC

Centro para as Energias Renováveis e Eficiência Energética da CEDEAO - CEREEC



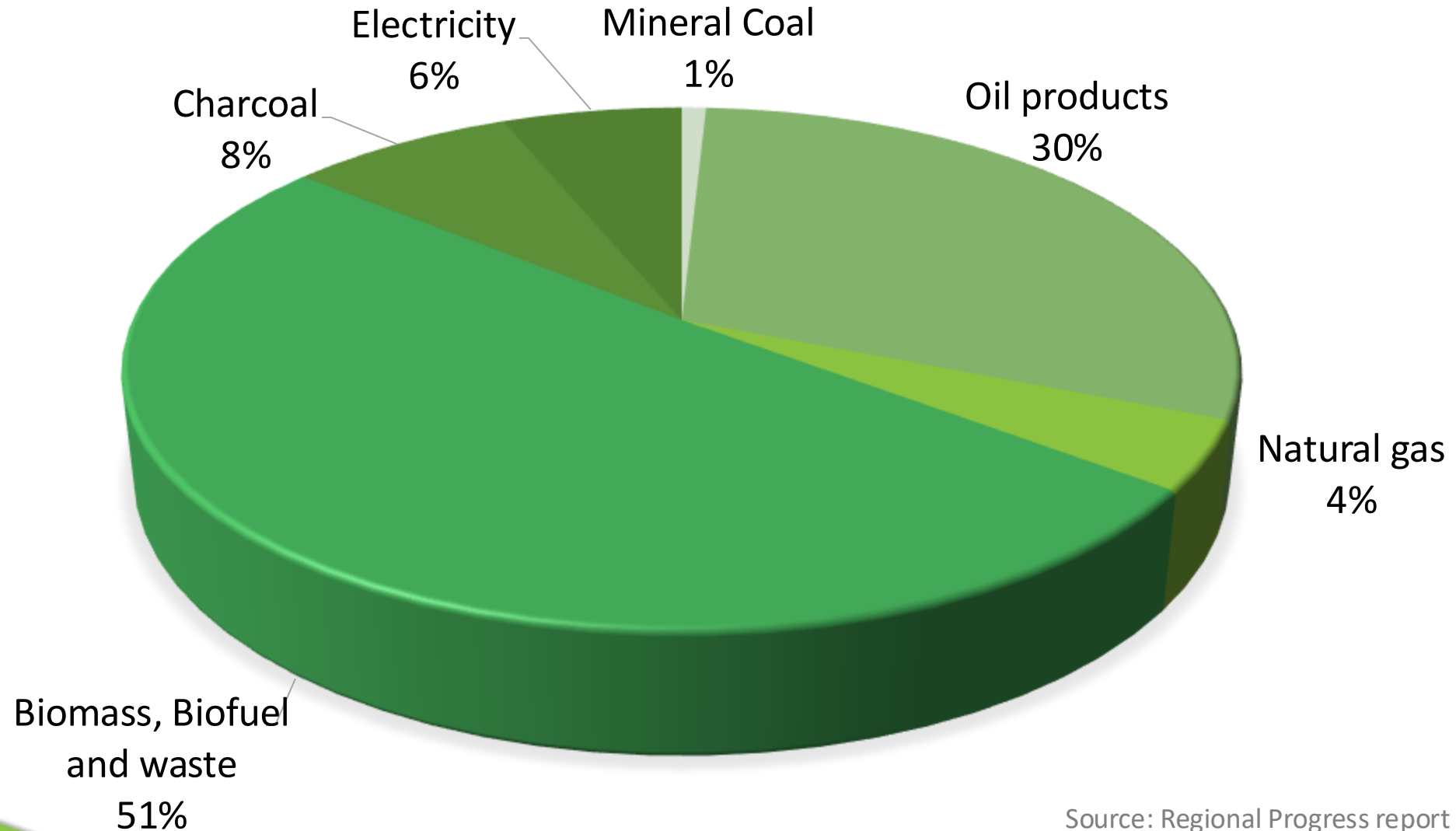
Total primary Energy Supply = 148,459 ktoe - 2020



Source: Regional Progress report 2020



Total Final Consumption = 133,719 ktoe - 2020



Source: Regional Progress report 2020



History of ECOWAS Center for Renewable Energy and Energy Efficiency (ECREEE)

ECREEE : Specialized Agency of ECOWAS Commission responsible for the development and promotion of Renewable Energy and Energy Efficiency

2008

The ECOWAS Council of Ministers at its 61st session adopted the regulation C/REG.23/11/08 on the establishment of ECREEE

2020

- 1.Regulation establishing the ECOWAS-Donor Consultative Committee of ECREEE
2. Regulation PC/REX.5/06/2020, on the Organization and Functioning of ECREEE

Headquarters Agreement between ECOWAS and the Government of Cabo Verde: ECREEE inaugurated by then Prime Minister & now President of Cabo Verde, Jose Maria Neves, and President of the ECOWAS Commission, H. E. James Gbeho, on the 6th of July **2010**



ECREEE Objectives: Regulation PC/REX.5/06/2020

Promotion & Development of RE, Increase EE to access modern and secure energy services

Objective 1

Sensitization and Capacity Building in the Region on RE & EE

Objective 2

Policy Harmonization and Quality Assurance of RE & EE Services

Objective 3

Energy Research and Technology Transfer

Objective 4

Program Development and Resource Mobilization

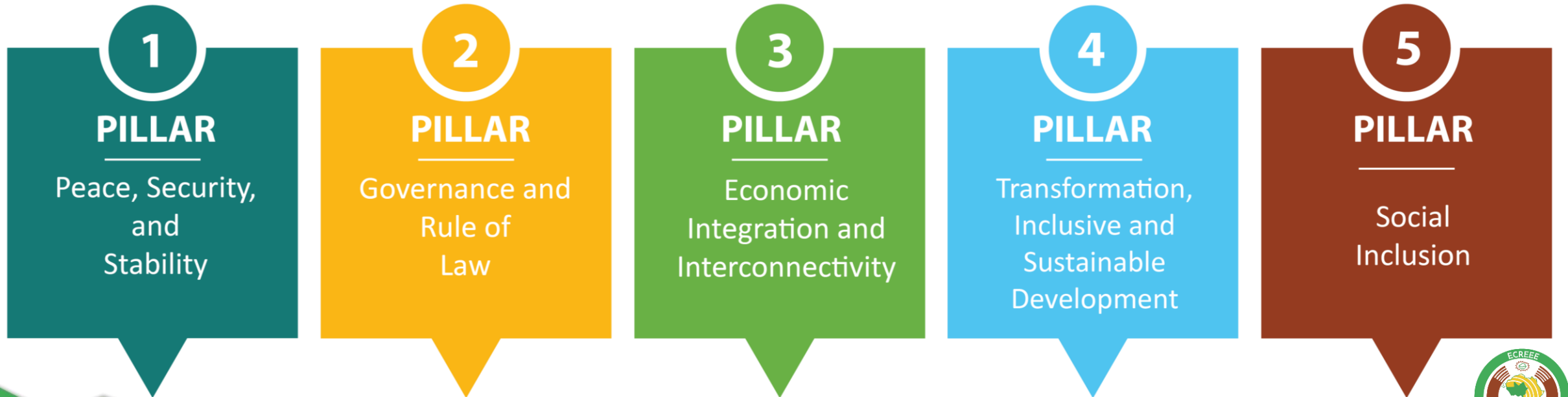
Objective 5



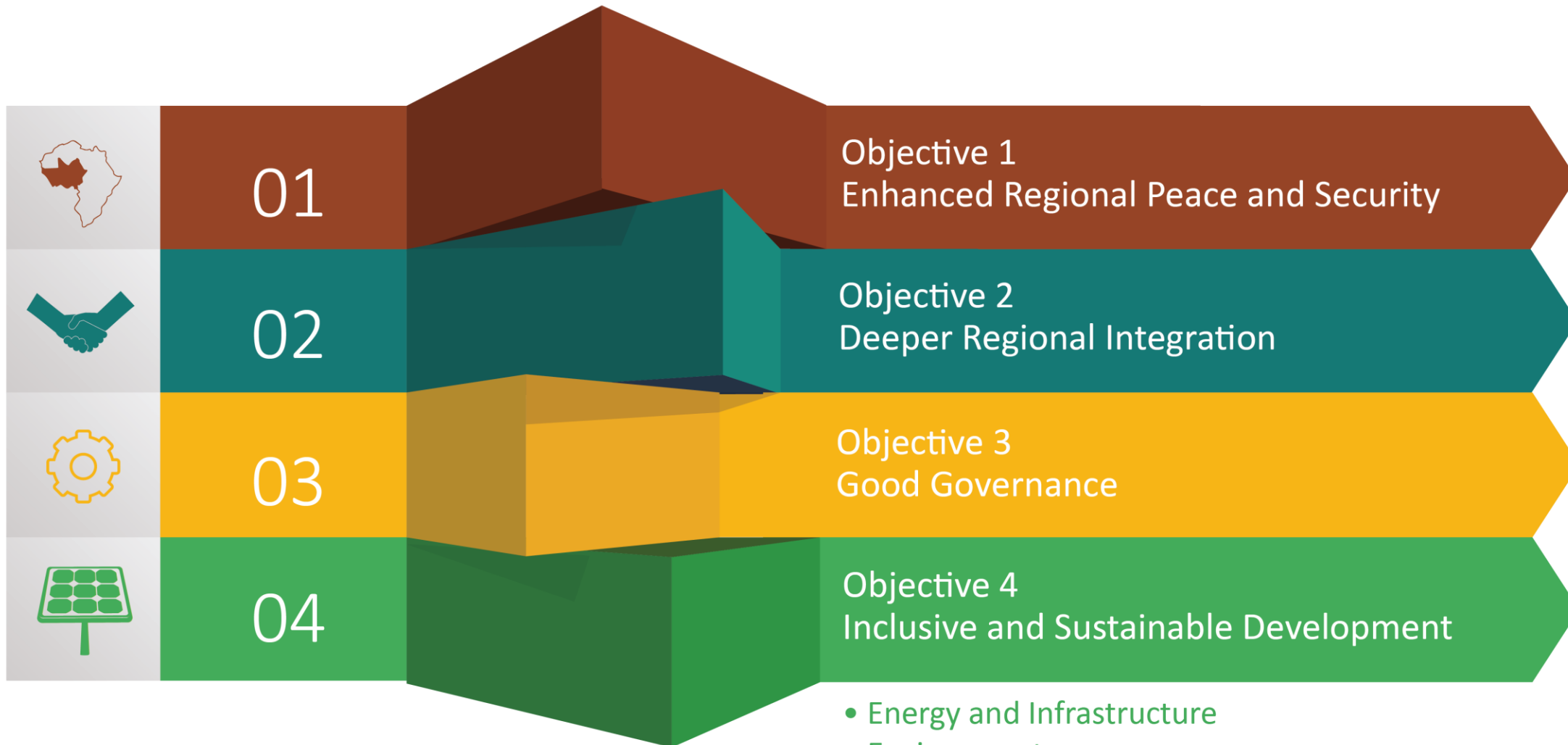
ECREEE's contribution to the ECOWAS Vision 2050

"A fully integrated community of peoples, living in a peaceful and prosperous region, with strong institutions and respect for fundamental rights and freedoms, striving for inclusive and sustainable development".

ECREEE 's efforts are aligned with the 3rd ECOWAS Pillar of the Vision



ECREEE's contribution to the ECOWAS 4x4 Objectives 2022 - 2026



- Energy and Infrastructure
- Environment
- Gender and Social Programs



ECREEE Strategic Orientations, 2023-2027

1

Strengthened
Institutional,
Administrative,
Financial & Digital
Governance

2

Improved
Implementation of
Programs and
Projects

3

Strengthened
Partnerships &
Resource
Mobilization



Operationalization ECREEE Strategic Plan 2023-2027

Regional Renewable Energy Program

Bioenergy

Rural Electrification & Mini Grids

Small Hydroelectric

Solar Thermal

Nexus Energy Water Food & Circular Economy

Green Hydrogen

West African Clean Energy Corridor

Regional Energy Efficiency Program

Efficient Lighting and Appliances

Energy Efficiency in Buildings

High-Performance Distribution of Electricity

Energy Efficiency in Industry

Energy Efficiency in transport and e-Mobility

Energy Efficiency Standards and Labeling

West Africa Clean Cooking

Regional Cross-Cutting Program

Sustainable Energy Policies

Regional Electricity Market and Energy Storage

Capacity Building and Certification

Gender Mainstreaming in Energy Access

Climate Change

Project Development and Finance

Technology Transfer and Research

Regional Initiatives

ECOWAS Observatory for RE & EE (ECOWREX)

RE & EE Annual Progress Report

ECOWAS Sustainable Energy Forum (ESEF)



Sustainable Energy Policies

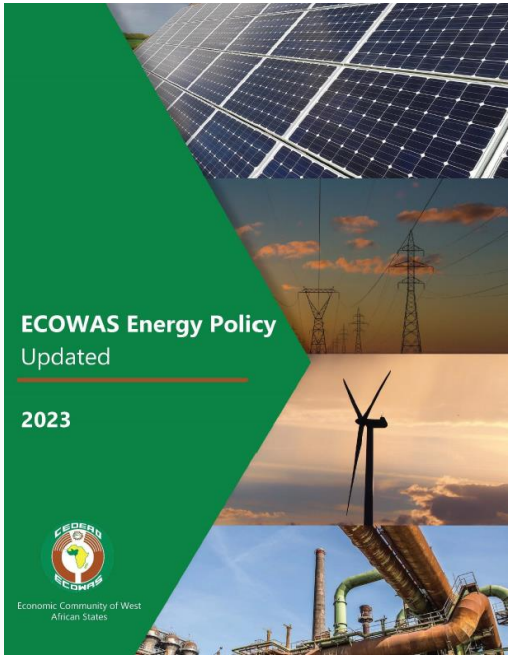
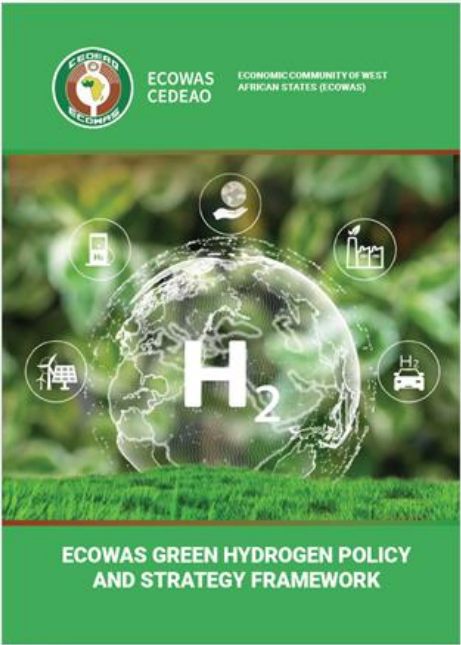
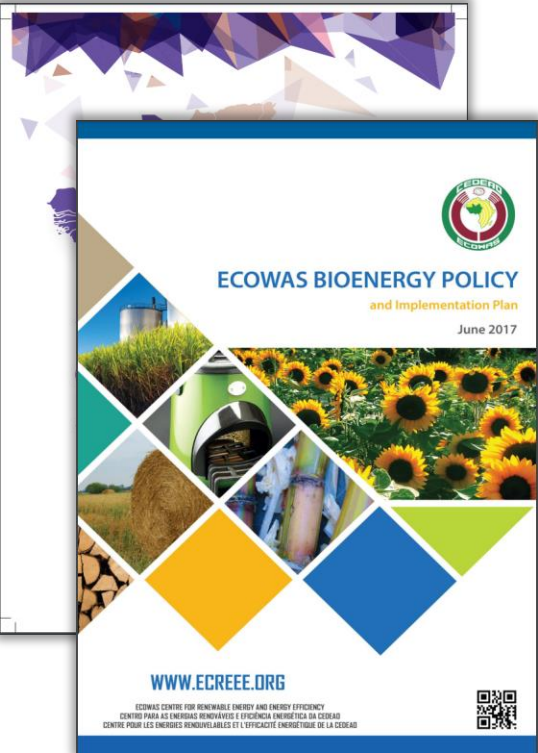
To coordinate and monitor the implementation of the ECOWAS Sustainable Energy Policies at the regional and national levels

*Adopted July 2013 in Abuja-
ECOWAS Renewable Energy
Policy and ECOWAS Energy
Efficiency Policy*

*Adopted June 2017 in
Monrovia - ECOWAS
Bioenergy Policy and
Policy for
Gender Mainstreaming in
Energy Access*

*Adopted July 2023 in
Bissau – ECOWAS Green
Hydrogen Policy and
Strategy Framework*

*Adopted July 2023 in
Bissau – ECOWAS
Updated Energy Policy*



Sustainable Energy Policies (Objectives in link Bioenergy)

Renewable Energy Policy

- Promote the sustainable production and use of bioenergy to reduce dependence on traditional biomass and mitigate environmental impacts.
- Enhance energy security and foster economic development through the integration of bioenergy solutions.
- Support the production of sustainable biofuels (e.g., ethanol and biodiesel) to reduce greenhouse gas emissions and dependence on imported fossil fuels.
- Encourage the use of modern technologies for the efficient production and utilization of bioenergy.
- Promote sustainable forest management to ensure the long-term availability of biomass resources while reducing deforestation.

Energy Efficiency Policy

- Promote safe, sustainable, and affordable cooking through the use of clean and efficient stoves.
- Ensure access to adequate and sustainable fuels for the ECOWAS population.
- Improve energy efficiency in cooking by optimizing the use of biomass and conserving forest resources.



Sustainable Energy Policies (Objectives in link Bioenergy)

Bioenergy Policy

- Promote a modern, sustainable, and vibrant bioenergy sector in the ECOWAS region.
- Transition to sustainable production, transformation, and utilization of biomass to ensure universal access to modern energy services.
- Create added value, jobs, increase food security, mitigate environmental impacts, and contribute to sustainable development.

Updated Energy Policy

- Promote the efficient and sustainable production of biomass energy fuels.
- Transition to modern and improved biomass energy production technologies.
- Ensure sustainable management and utilization of biomass resources to reduce deforestation and land degradation.
- Professionalize the value chain for biomass energy fuels, from production to distribution.
- Enhance access to cleaner and improved cooking solutions using biomass energy.

Indicators and Targets for Bioenergy

- **Efficient Charcoal Production:**

- 2020 Target: **60%** efficient charcoal production.
- 2030 Target: **100%** efficient charcoal production.

- **Modern Fuels for Cooking:**

- 2020 Target: **36%** of the population using alternative modern fuels for cooking.
- 2030 Target: **41%** of the population using alternative modern fuels for cooking.

- **Improved Cookstoves (ICS):**

- 2020 Target: **60%** of the population using ICS.
- 2030 Target: **100%** of the population using ICS or sustainable biomass fuels

- **Biodiesel and Bioethanol Use:**

- 2020 Target: **5%** share of biodiesel and bioethanol in fossil fuel consumption.
- 2030 Target: **10%** share of biodiesel; bioethanol in fossil fuel consumption and Ethanol to account for **15%** of gasoline consumption.

- **Bioelectricity:**

- 2020 Target: **634 MW** of bioelectricity generated from biomass residues or plantations.
- 2030 Target: **2008 MW** of bioelectricity generation.

- **LPG Penetration:**

- 2020 Target: **20%** penetration at the household level.
- 2030 Target: **26%** penetration at the household level.



Bioenergy

Objective

- To promote the transition from the inefficient and unsustainable use of the biomass resources towards the sustainable production, transformation and use of renewable biomass for cooking, heating and power generation to meet the energy needs of the population in West Africa

Ongoing Activities & Perspectives

- Support development of NBEAPs for Cabo Verde, Gambia, Guinea, Guinea Bissau, Liberia, Niger, Nigeria and Sierra Leone
- Support the development of feasibility study and biogas program in Benin
- Process of Harmonization ECOWAS standard of bioethanol for transportation and adoption by the Council of Ministers of ECOWAS
- Support the development and implementation of public and private Waste to Energy Projects in West Africa

Achievements

- Adoption of a regional Bioenergy policy and implementation plan
- Supported the development and validation of National bioenergy Action Plans (NBEAP) for Ghana, Benin, Togo, Cote d'Ivoire, Senegal and Mali in 2021 and Guinea 2022
- Capacities enhanced in Bioenergy Service delivery 2018, 2019 in Porto Novo, Benin
- Development of ECOWAS standards of bioethanol for transportation in 2021
- Feasibility study for the installation of 04 biomass gasification plants for the production of electricity based on renewable energies for the benefit of the energy mix in Benin



Nexus Energy Water Food & Circular Economy

Objective

- To support the region's agricultural businesses to produce more through the affordable and reliable option of harnessing its abundant RE resources towards providing a stable supply of water for irrigation and other agricultural purposes.

Ongoing Activities & Perspectives

- Demonstration projects being implemented in other 7 countries, additional interventions planned
- Working to support EU Regional Actions Plan for Clean Cooking
- WE4F Nexus Model for Niger Basin in Mali being developed

Achievements

- Four demonstration projects implemented in Benin, the Gambia, Niger, and Senegal.
- 4000 rural women farmers gaining access to a steady supply of water for agricultural irrigation.
- 230 women engaged in clean the solar PV installations.
- Additional land areas now under cultivation due to water supply.

Partners: AECID, ADA, EU



West Africa Clean Cooking Program

Objective

To promote the adoption of clean and efficient cooking devices and the dissemination of sustainable biomass and modern fuels to ensure the universal access of the ECOWAS population by 2030

Ongoing Activities

- Project Water & Energy for Increased Food Security and Socio- Economic Development - *Promoting Clean Cooking Solutions and Solar Technologies* (Cabo Verde, The Gambia and Guinea Bissau)
- Process of Harmonization of the ECOWAS standard of bioethanol for cooking & the ECOWAS standard of biomass cookstoves and adoption by the Council of Ministers of ECOWAS
- Support Togo MoE on the realisation of baseline studies of clean cooking sector to support elaboration of strategy
- Provision of 400 Clean Cookstoves to Rural and Peri-urban Communities in Togo



Perspectives

Implementation Regional Clean Cooking Action in West Africa (ReCCAWA) funded by EU

Activities related and opportunities:

- Enabling Environment (NAPs, S&L, Testing Centers)
- Promotion of Supply (SME Finance Facilitator and Capacity Building)
- Demand Incentivation (Demand Side Subsidies and Smoke Free Villages)



Partners

CORE



ACTUAL



INVESTMENT



TECHNICAL



NEW





Thank you - Merci - Obrigado

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