

ENERGICA

Local energy communities in urban and rural Africa

ENERGY access and green transition collaboratively demonstrated in urban and rural areas in Africa



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

www.ecreee.org



African Association for Rural Electrification
Association Africaine pour l'Electrification Rurale



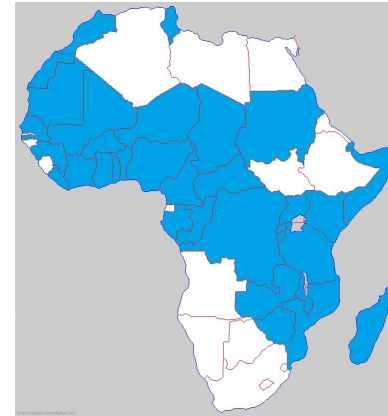
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CLUB-ER:

A technical network for **increasing access to modern, affordable and reliable electricity services in rural areas** through capacity building and knowledge management

Thematic activities:

- Impact
- Organisational aspects
- Planning and tools
- Standards and technical specifications
- Regulation, tariffs and financing



Members, 43 African national institutions: agencies, funds, regulators, departments of energy, utilities from 32 African countries.

+ private sectors (consulting firm, developer, ...)

HQ, Abidjan (Côte d'Ivoire)

General information:

- > Starting date: 01 Nov. 21
- > Duration: 48 months
- > Call identifier: Horizon 2020
- > Call: Building a low-carbon, climate resilient future
Research and innovation in support of the European Green Deal
(H2020-LC-GD-2020)
- > Topic: LC-GD-2-3-2020
Accelerating the green transition and energy access Partnership with Africa
- > Implementing partners: 11-African based partners
17 Europeans with offices or subsidiaries in Africa



Attributes:

- Project is ambitiously fostering the collaboration between partners of both continents on energy access and sustainable energy Development.
- Project addresses a wide range of issues and provides solutions: energy production → local renewable value chain development and e-mobility also providing flexibility services to the grid.
- Project is applicable to many different technical and socio-economic contexts.
- Project aims to reach a powerful market uptake and wide replication, with strong environmental and socioeconomic local benefits.
- Project promotes renewable energy
- Project contributes to fighting climate change as well as improving health and social conditions in the demonstration sites and beyond



Madagascar: Water-Food-Energy Nexus

> Developing innovative and tailored solutions on productive use systems through innovative nanogrids (WP₄);

+40 diesel equipment replaced with electric ones

+500 people (direct) beneficiaries to an enhanced access to water

+50% CO₂ emissions reduction



Sierra Leone: Biodigester & water purification system

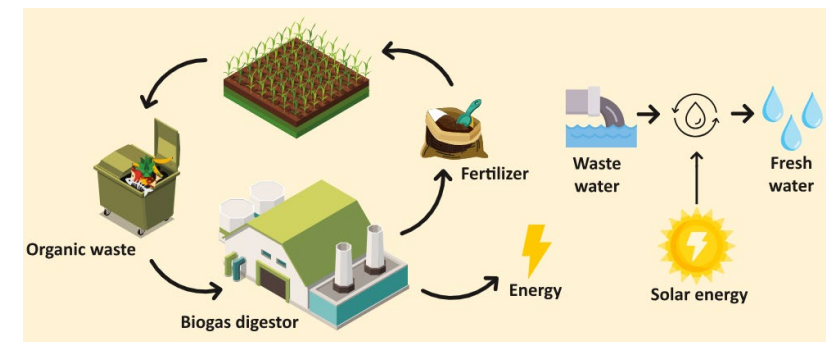
- > Low-tech efficient biogas system, coupled with water purification demonstrated in peri-urban (WP₅)

200 – 300L Water purification capacity per day

+100 jobs created in local waste transformer company

+20% capacity waste treatment capacity

+40% CO₂ emission reduction



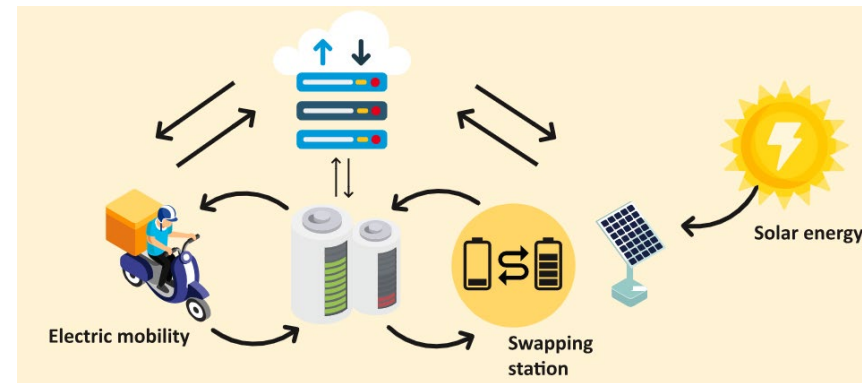
Kenya: E-mobility

- > Solar powered e-mobility solution for boda-boda in urban area (WP₆)

150 bikes made available

300 jobs creation in local e-mobility

+80% CO₂ emissions reduction



How?

The activities will work on connecting the right actors, understanding the local needs and complete context, and co-constructing adapted solutions

Project will establish with the local communities Energy Transition Boards (ETB) to animate Integrated Community Energy Systems (ICESs) at community-scale

Using this methodology is beneficial for positive social, environmental, technical, and economic impacts!





THANK YOU!

