Energy Access
Investment Forum
2024

O Lagos, Nigeria

= 21-23 May 2024

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Konrad Adenauer Stiftung | Public-private dialogue on green job creation in West Africa



Moderator



Julia von FranzPolicy & Advocacy Officer
ARE

Panellists



Hon. Solomon Bulus Maren Consultant/National Coordinator, African Parliamentary Network on Climate Action



Cyprian Okolo Technical Sales Advisor -Western Africa, Fronius



Lukas Laible Deputy Resident Representative to Nigeria, KAS



Kai Forster Consultant TEA-LP



Monica Maduekwe
Resource Mobilisation and Project
Development, ECREEE



#EAIF2024 WiFi: ARE_2024



Catalysing Green Rural Job Creation with Decentralised Renewable Energies in West Africa

Julia von Franz
Policy & Advocacy Officer at ARE



Who we ARE

The Alliance for Rural Electrification (ARE) is the global association for the decentralised renewable energy (DRE) industry, catalysing private sectordriven markets for sustainable electricity services, creating jobs and powering equitable green economies.

Global

electrification association

200+

Members

Countries

Continents

ARE Members Systems





Standalone

Mini-grid

ARE Members Technologies

Wind











Bioenergy

Components

Storage

Catalysing Green Rural Job Creation with DRE in West Africa

With a focus on Ghana and Senegal



DRE Bridging the Employment Gap

- A push to achieve universal access in sub-Saharan Africa by 2030 would require 2.8 million jobs (IEA, 2022)
- Off-grid value chain could create at least 4.5 million jobs by 2030 (IRENA, 2021)
- Investing in renewable energies creates close to 3 times more jobs than fossil fuels do (IRENA, 2021)
- DRE creates more direct jobs than utility-scale renewables (PowerforAll, 2019)
- DRE can create an entry point for informal workers into the formal economy
- DRE enables an exponential number of derived jobs





KAS-ARE Study on Green Rural Job Creation

Objectives:

- Support the development of a global industry standard methodology for calculating direct jobs enabled by DRE
- Identify current and future direct job creation potential of DRE in Ghana and Senegal
- Present evidence on job creation through DRE as a core element of future employment and electrification policies
- Inspire others to conduct further research and collaborative actions to advance DRE





Ghana in numbers





15,465 direct jobs in DRE BAU Policy Scenario 2030 23,519 direct jobs in DRE Forward-Leaning Policy Scenario









85%

of the population are employed by micro, small and medium enterprises (MSMEs) who mainly operate in the informal sector



Senegal in numbers



12,269 direct jobs in **DRE BAU Policy Scenario** 2030

20,449 direct jobs in DRE Forward-Leaning Policy Scenario









10th in Africa RISE score: 54

Assesing policies & regulation for energy access, energy efficiency & renewable energy.

97% of companies work in the informal sector



DRE Impact on the Ground (1/3)

Case Study 1: Resilient Renewable Energy Mini-Grid - Ghana

The Challenge: population with no access to electricity and living in extreme poverty in the Ghanaian village of Ada Foah

The DRE Solution: 5 kW wind turbine and 40 kW PV solar array with 2 48 V battery storages

Project Outcome:

- 20 direct jobs created within the community (primarily in O&M of the DRE system)
- Capacity building: Trainings conducted on how to operate and maintain the system to ensure direct green job creation in the community and promote the transfer of technical skills
- 200 lives positively impacted







DRE Impact on the Ground (2/3)

Case Study 2: ASER300 – Rural Electrification Project – Senegal

The Challenge: Electrifying 300 remote rural villages with no access to electricity

The DRE Solution: Off-grid solar PV containerised systems (15 to 45 kW)

Project Outcome:

- **55 new direct jobs created** in the local Dakar subsidiary
- 95% full-time contracts
- **90%** permanent contracts
- 99% of employees are from Senegal and surrounding countries, including the CEO
- **12 women** above 25-years-old employed
- Wide range of employment levels: Managers, professionals, technicians and associate professionals, clerical support workers, plant and machine operators and assemblers and elementary occupations







DRE Impact on the Ground (3/3)

Case Study 3: DESFER Economic and Social Development for Women - Senegal

The Challenge: Remote rural villages in the Kaolac and Ziguinchor regions of Senegal. No access to electricity before the project

The DRE Solution: 64 kWp of solar PV capacity and energy storage (30-50 kWh)

Project Outcome:

- **4,500 local entrepreneurial jobs created for women** in 5 years
- **Type of activities created:** crop transformation to final products, electricity products reseller, electricity operators, system integrators, electricians
- Capacity building: Over 5 years 7,000 women and 2,500 students were trained on entrepreneurial skills and advanced electricity skills (solar energy installation, industrial automation, etc.)
- Community involvement: The local bank supported the entrepreneurs with micro-loans so they could start their businesses
- 70-fold increase in induced jobs









Key Findings - study

- DRE is the least-cost electrification option to electrify the remaining 675 million people worldwide
- DRE is a key engine to drive green job creation and the clean energy transition in emerging market
- DRE can create an entry point for informal workers into the formal economy
- With the right policies, DRE could create as many as 40,000 direct jobs by 2030 in Senegal and Ghana





Key Findings – Public-Private Dialogues

Main needs

- Direct jobs
 - Training
 - Regulation
 - Cooperation
 - Funding
 - Data
- Indirect/induced jobs
 - Training
 - Funding

Opportunities

- Banks
- Private sector
- Community
- Local manufacturing
- Social inclusion
- Sustainability



Call to action

- More ambitious target
- Supporting regulatory environment
- Adequate training
- Facilitation of access to funding
- Planning data
- Awareness raising
- Social inclusion



Further **public-private dialogue and collaboration** enabling an upscaling of DRE to drive rural development and green job creation in West Africa.









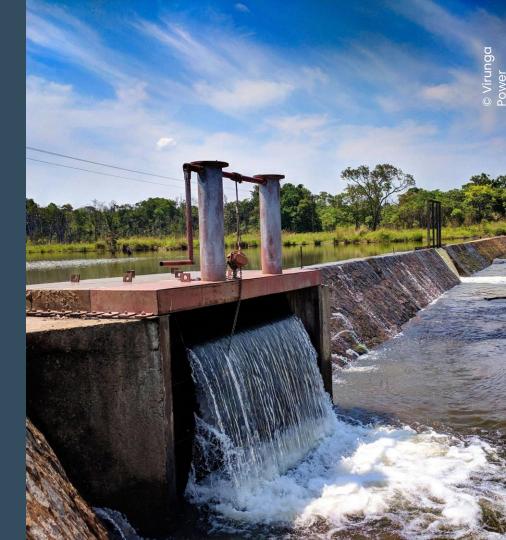
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Coffee break

We'll be back at 11:15 (WAT)



African Development Bank | Innovation and Collaboration in Technical Assistance for Mini-grids



Sustainable Energy Fund for Africa



Robert Aitken
Africa Mini-Grid Market Acceleration
Programme (AMAP) Officer, SEFA



Christelle Odongo
Africa Energy Access Specialist
UNDP



Bhoomika Tiwari Technical Advisor GET.transform / GIZ



Samuel Sebbowa Bunnaya
Project Coordinator
AFUR

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Innovation and collaboration: Technical assistance in the GMG sector

EAIF 2024



AMAP



EAIF PRESENTATION





AMAP context and response

The Africa Mini-grid Acceleration Programme (AMAP) provides TA support to several African countries

AMAP

The Africa Mini-Grid Market Acceleration Program (AMAP) is a technical assistance (TA) program funded and implemented by the Sustainable Energy Fund for Africa (SEFA)

7M

With \$7m in funding to be disbursed over 4 years, the main objective is to accelerate private-sector mini-grid investment on the African continent to accelerate the energy transition

PHASE I

AMAP Phase I works to accelerate markets in the following countries; Mauritania, Cameroon, Mali, Angola, Chad, Mozambique and Madagascar



AMAP objectives

1

Removing market barriers

2

Providing strategic support to national agencies and institutions

3

Developing financial instruments, providing financia land legal structuring support to minigrid developers Enabling
regional-level
interventions
across the minigrid ecosystem

AMAP programme outline

Pillar 1

Public sector readiness

Pillar 2

Access to finance

Pillar 3

Developer support





AFRICA MINIGRIDS PROGRAM

Africa Minigrids Program (AMP)

EAIF 2024

Supported by:

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In partnership with:







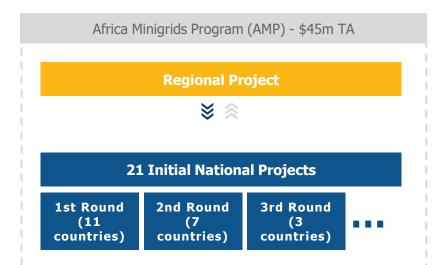


THE AFRICA MINIGRIDS PROGRAM (AMP)

AFRICA MINIGRIDS PROGRAM

The AMP is a Country-led technical assistance program for minigrids.

Its objective is to support access to clean energy by increasing the financial viability, and promoting scaled-up commercial investment, in renewable energy minigrids in Africa, with a **focus on cost-reduction levers and innovative business models.**



Comprised of **country-level interventions in an initial 21 countries in Africa** and complemented by a 'regional platform' acting as the advocacy, coordination and knowledge management hub for the program.

Implementation started in Q3 2022 and will continue until 2027.

- 1st Round fully designed started implementation in Q3 2022
- 2nd Round approved by the GEF Implementation start early 2024
- 3rd Round under preparation Implementation start in 2024

AMP CORE PROGRAM PARTNERS



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GEF - MAIN DONOR

- Total GEF-7 funding \$33.2 million (m)
- \$24.3m (1st Round, allocated in Dec. 2019)
- \$8.1m (2nd Round, allocated in Jun. 2021)
- \$0.8m (3rd Round, allocated in Jun. 2022)



UNDP - LEAD PARTNER

- Executing regional project
- Working with national government partners in executing majority of GEF-funded national projects
- Total co-financing \$9.8m (\$4.7m for 1st Round, \$2.8m for 2nd Round, \$2.4m for 3rd Round)



RMI - JOINT DESIGN/EXECUTION PARTNER

Joint partner with UNDP for program design and execution of AMP regional project



AFDB - PARTICIPATING PARTNER

- Executing/funding (\$2m) national projects in Madagascar (jointly with UNDP) and Angola
- Providing parallel financing for a sub-set of AMP projects (Benin, Ethiopia, Niger, Nigeria, STP, Zambia, Regional)



NATIONAL GOVERNMENTS - IMPLEMENTING PARTNERS

National implementation of all national projects (except Somalia and Madagascar)

AMP PARTICIPATING COUNTRIES

AFRICA MINIGRIDS PROGRAM

These 21 countries together host an estimated total of **396 million people without electricity**, or more than two thirds of the **567 million** total people without access to electricity in Sub-Saharan Africa (SDG7 Progress Report 2022).

1st ROUND: 11 GEF Dec 2019

Angola**
Burkina Faso
Comoros
Djibouti

Eswatini Ethiopia Madagascar** Malawi Nigeria

Somalia Sudan

** (third-party-funded)

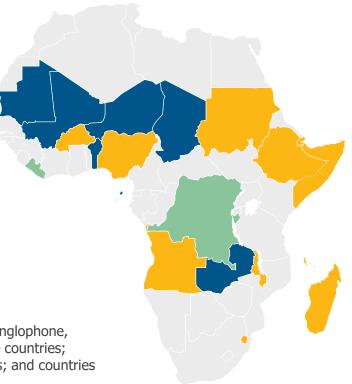
2nd ROUND: 7 GEF June 2021

Benin Chad** Niger Mali

Mauritania**
Sao Tome e
Principe
Zambia

3rd ROUND: 3 GEF June 2022

DRC Burundi** Liberia**

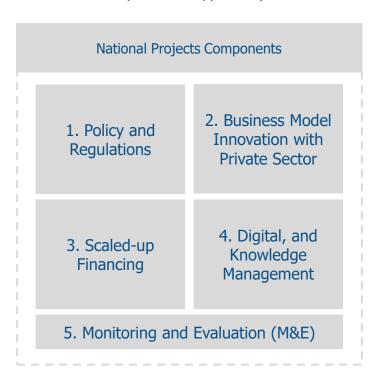


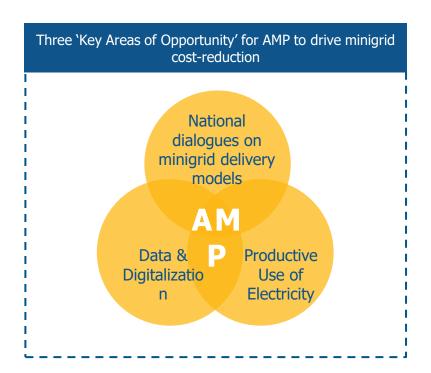
Large and smaller markets; Anglophone, Francophone, and Lusophone countries; Small island developing states; and countries in post-crisis context.

AMP - PROGRAMMATIC FOCUS/VALUE-ADD



AMP's objective of reducing minigrids costs is achieved via country-level activities across four thematic areas (components) with a focus on three Key Areas of Opportunity





PROGRAM DELIVERY FRAMEWORK



The AMP will have a country-based focus, while also maximizing opportunities for South-South/Triangular Cooperation and providing backstopping through an organized "chapeau" project which will be implemented by UNDP and PMT

Minigrids ecosystem

Disseminate existing knowledge and tools with participating AMP countries





Systematically engage with and disseminate knowledge with broader minigrids sector in Africa



Regional Project - Knowledge & Coordination Platform

Component 1

Knowledge Tools

Component 2

Tailored Technical & Operational Assistance to National Child Project Implementation

Component 3

Communities of Practice

Component 4

Digital tools and solutions for minigrid cost-reduction

Component 5

Monitoring and Evaluation (M&E)

Support to national project implementation





Harnessing data and insights from national project implementation to share with minigrids ecosystem



PRESENTATION

Energy Access Investment Forum (EAIF)

2024

AFUR – WHO ARE WE?

- AFUR A Pan African Intergovernmental organization established on the basis of Clause 110 of the Framework Document of the New Partnership for Africa's Development (NEPAD) now AUDA.
 - AFUR has 36 Energy Regulator Members and 5 Energy Regulator Observers
 - AFUR works to support the development of effective utility regulation across the African Continent

AFUR – WHO ARE WE?

ENERGY SECTOR

ERA Uganda – Sector Chair

TRANSPORT SECTOR

LATRA Tanzania – Sector Chair

COMMUNICATION SECTOR

TBD - Sector Chair

WATER & SANITATION SECTOR

PURC Ghana – Sector Chair

CROSS-CUTTING SECTOR

MERA Malawi – Sector Chair

PROJECTS AND INNOVATIONS OF AFUR

- Phase One Mini-grids Project; Mainstreaming Mini-grid Tariff Settlement Tools and Methodologies Across African Regulators
 - Enhanced Mini-grid Tariff Settlement Tool
 - Model Mini-grid Regulations Guidelines
- Electric Vehicle Regulations Project
- Maritime Regulations for Africa Project
- Infrastructure Asset Management Project
- Phase Two Mini-grids Project; The Africa Mini-Grid Electrification Drive

Merci beaucoup
Thank You
CONTACT AFUR:
https://afurnet.org/

BHOOMIKA TIWARI Technical Advisor

Innovation and Collaboration

New approaches to technical assistance

GET.transform is supported by













Systematic Approach to Scaling Impact







Why a Policy Catalyst?

POLICY CATALYST

HARMONISATION

Hamonise approaches across countries and regions

SCALING

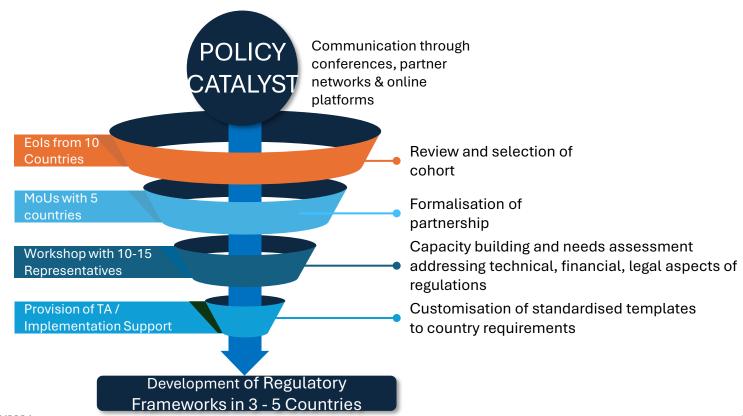
Scale GET.transform's impact beyond country windows

SYNERGIES

Complement sector knowledge and enhance collaborative action

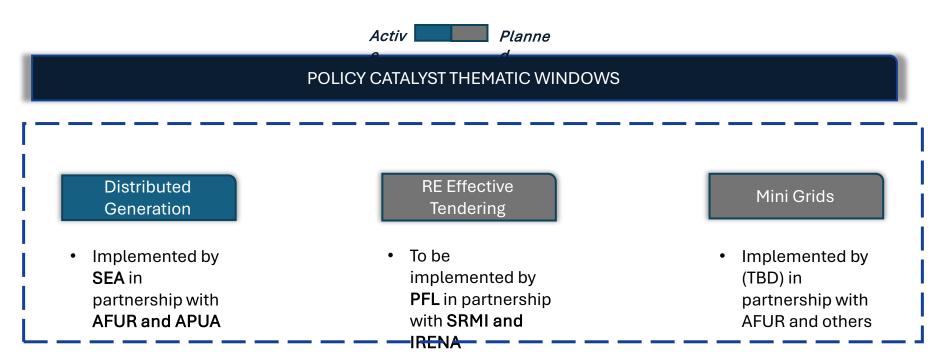
26/06/2024

GET.transform Policy Catalyst



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Current Look of Policy Catalyst



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Policy Catalyst

Partnership Modalities

Implementing Partners •

Training Organisations, Grantees
Policy Catalyst Consulting Pool
GET.transform Expert Pool
E.g.: SEA, ASR, PFL

Promotional Partners •

Endorsing, Referring Bodies GET.pro Instruments Regional Organisations Sectoral Programmes Donors

Industry Associations

POLICY

CATALYST

E.g.: EUD, GET.invest, AFUR, AUC

Knowledge Partners

Co-Owners/co-sponsors of Studies and Templates
Repositories of Regulatory
Templates/Models
Academia

E.g.: AFUR, RETA, SRMI, IFC, AfDB

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Thank You for Your Attention!

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Thank you!

Panel discussions

EAIF 2024

African Development Bank | Innovation and Collaboration in Technical Assistance for Mini-grids



Sustainable Energy Fund for Africa



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Samuel Sebbowa Bunnaya
Project Coordinator
AFUR

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Lunch Break

We'll be back at 14:30 (WAT)

Yellow lanyards: Red Restaurant (1st floor)

Grey lanayards: Sky Restaurant (lift next to reception – top floor)

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GET.invest | Scaling up Finance for E-Mobility



Moderator



Ibidun Oludipe Advisor GET.invest

Panellists



João Duarte Cunha Head of Division, Renewable Energy & SEFA, AfDB



Nico Peterschmidt CEO INENSUS



Sunnie Omeiza-Michael Director, Research & Advocacy Lagos Chamber of Commerce & Industry



Adetayo Bamiduro Co-founder MAX



Koye AlabaDirector, Financial Analysis,
GreenMax Capital Advisors



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Powering Electric Mobility in Nigeria

Market Insights Package EAIF 2024

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Contents



- Introduction to GET.invest and its services
- Presentation on the Market Insights Package in Nigeria

22.05.2 024

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8

GET.invest: Overview



- Leading European programme mobilising investment in renewable energy, building a pipeline of investment-ready projects
- Team Europe One Stop Shop for Green Energy Investments
- Supports all relevant delivery models, incl. on- and off-grid electricity, clean cooking, productive use
- Broad partner network incl. financiers and associations
- Active in Sub-Sahara Africa, the Caribbean & the Pacific
 - Implemented by **GIZ**, hosted on the multi-donor platform GET.pro, and supported by the **European Union**, **Germany**, **Norway**, **the Netherlands**, **Sweden**, and **Austria**.



GET.invest Scope of Services



Information

(countries, markets, financing solutions)

Mobilisation

(conferences, coop. with associations, finding projects)

Finance Systems Advisory

(mobilisation of domestic financiers)

Finance Access Advisory

Finance Catalyst

Finance Readiness Support

(coaching and advisory as "honest broker")



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ine 2023 Market Insights Packages

GET.invest

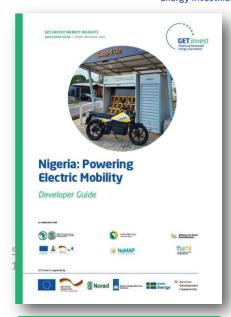
Mobilising Renewable
Energy Investments

- Each package consists of
 - A Developer Guide

Two Model BusinessCases

- 5 Market Insights packages:
 - 1. Burundi (Small Hydropower and Rural Development)
 - Uganda (Renewable Energy Cooling and Processing for the Food Industry)
 - 3. Mozambique (Commercial and Industrial (C&I) Solar Applications

- Mozambique (Renewable Energy Independent Power Producer (IPP) Projects)
- Nigeria (Powering Electric Mobility)







iviarket Insights Package: Nigeria



Powering Electric Mobility

The Developer Guide: A manual for the private sector to set up a business.

Sub-Saharan Africa

- Policy and regulatory framework
- Regional market characteristics
- E-Mobility Business Models
 - Financing E-Mobility

Nigeria				
		Route-to-Market		
Electricity Sector Profile		Investment opportunities		
Market Development		 Market sizing 		
• E-mobility as a		 Business registration 		
Productive Use		• Challenges for Project		
opportunity		Developers		
E-Mobility company profiles		Financing landscape		



ື້ neak Peek into the Developer Guide



E-Mobility Company Profiles

26 sub-Saharan Africa and 16 Nigerian companies



Financing Rounds





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Investment Opportunities

TABLE 9. Investment opportunities for e-mobility in Nigeria

SEGMENT EV manufacturing and

assembly

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MARKET

DESCRIPTION Establishing or partnering with local EV manufacturing

or assembly plants

INVESTMENT OPPORTUNITY

- In 2023, the National Automotive Design and Development Company (NADDC) adopted a new 10-year Nigerian Automotive Industry Development Plan (NAIDP), which includes incentives for automotive industry manufacturers, investors and developers to scale up EV adoption in Nigeria. The plan also promotes local EV production, with tax relief for EV manufactures and licensing requirements established for auto assembly plants in the country. 137
- The plan aims to position Nigeria as a regional EV market leader and includes a target of achieving at least 30% local EV production by 2030.138
- Additional fiscal incentives are under development, including import duty and tax exemptions for EVs and their components - measures that could significantly reduce costs for e-mobility operators in Nigeria. 139
- In July 2023, the NADDC announced that an Electric Vehicle Development Plan has entered the final stages for ratification and implementation (the plan has yet to be adopted as of mid-2024).140

M max



















Innovation Opportunities

BOX 8. Nigeria Energy Support Programme (NESP): MAX-Rubitec EV-mini-grid pilot project









The Nigerian Energy Support Programme (NESP) is co-funded by the EU and the German Federal Ministry for Economic Development and Cooperation (BMZ) and is jointly implemented by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in collaboration with the Federal Ministry of Power. Under the first phase of the programme, six (6) solar PV mini-grids were developed and are providing sustainable electricity to more than 15,000 people. It is expected that NESP II will reach another 100,000 people under the Mini-grid Acceleration Scheme (MAS).

Under the NESP, the REA explored opportunities to advance the use of EVs and sustainable transport solutions in rural and peri-urban communities to ensure that the benefits of e-mobility extend beyond urban centres and reach rural areas, where over 70% of Nigerians live. In 2020, a pilot project was launched in Gbamu-Gbamu, Ogun State (one of the mini-grid sites supported by NESP during the first phase of the programme) to assess the potential for EVs to support rural economic development while also stimulating electricity demand for solar mini-grids. The pilot project involved a battery-swapping business model whereby Nigerian e-mobility company, MAX, leased electric two-wheel EVs to certified local drivers in the community, who used the vehicles to transport people and goods to hubs within a 20-km radius, using a solar mini-grid operated by Rubitec Nigeria Limited to charge the EV batteries (and consuming about 1 kWh of mini-grid electricity per daily rental). The battery swap charging model concentrated charging loads during daylight hours, which correlated well with surplus solar electricity generated by the mini-grid system. The pilot successfully demonstrated that the two clean technology solutions can complement each other to address both transportation and electrification needs in rural communities. An important finding of the study was that high vehicle utilisation is the key to strong revenues and to realising the EVs' operating cost advantage over ICE vehicles - even at the electricity prices required to sustain Isolated rural mini-grids. 127 The accompanying Model Business Case on MiniGrid-Powered Rural E-Mobility Project is loosely based on this pilot and elaborates further on the financial viability of such a business model.



E-Mobility and Energy Transition



Challenges

The Transport Sector:

- Accounts for ~25% of GHG emissions
- Causes high levels of pollution ☐ serious health risks to population

Motorcycles

 Are the fastest-growing mode of transportation

22.05.2 024

- Emit 3X more particulate matter than cars
- Are the largest source of emissions and local pollutants

Opportunities

- Emission reductions: Reduced reliance on fossil fuels

 improved air quality, public health
- Economics: Lower life-cycle cost of EV ownership for end users
- Job creation: Motorcycles support the livelihoods of over 100 million people in sub-Saharan Africa
- Market opportunity: Global investments in electrified transport was USD 1.8 trillion in 2023 (up 17% on the previous year)

Catalysing E-Mobility Market Growth



Barriers



Absence of a roadmap to guide EV development



Limited access to financing

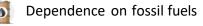


Limited charging infrastructure



Unreliable electricity supply

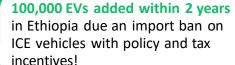
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Poor road networks/transportation infrastructure

Drivers





Integrated, long-term EV sector planning/roadmap



Enabling policies, regulations and incentives, tax exemptions for EVs and batteries



Mechanisms to promote access to financing, especially asset financing solutions



Policies to limit the importation of ICE vehicles



Trade policies and regulations to encourage domestic EV manufacturing



Consumer awareness raising of benefits of e-mobility and cost savings of switching to an EV

ngoing Efforts for an inproved Enabling Environment



- Energy Transition Plan
- 10-year Nigerian Automotive Industry Development Plan (NAIDP)
- Electric Vehicle Development Plan (under development)
- MAX–Rubitec EV Mini-Grid Pilot Project, Ogun State
- Husk Power motorcycle leasing/battery swapping pilot, Nasarawa State

Estimated Average Annual e-motorcycles Sales by 2030 = **215,000**

Nigeria Specific Challenges

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- Lack of defined roadmap/incentives
- Outdated infrastructure, unreliable power grid
- Relatively low fuel price
- Limited access to financing, FX risks

- Conflict and security concerns
- Lack of Awareness
- Limited indigenous technical expertise



Cost Comparison Analysis







	Total Annualized Cost	€734	€959
024	Insurance Cost	€36	€21
- - 22.0	Maintenance Cost	€118	€236
	Fuel/Charging Cost	€102	€525
	Capital Cost	€478	€177
	ANNUALIZED COST	E-MOTORCYCLE	ICE MOTORCYCLE

Over the average fouryear life of a motorcycle, switching to an emotorcycle results in annualised cost savings of €224, or 23% per year



iviarket Insights Package: Nigeria



Powering Electric Mobility

1. Urban E-Mobility Business Model Business Cases: A financial feasibility analysis of the below businesses:

A hypothetical company that offers two-wheel electric vehicle (EV) rental and operates a network of smart EV battery swapping stations in urban areas in Nigeria

2. Mini-grid Powered Rural E-Mobility Project

A hypothetical project deploying two-wheeled electric vehicles (EVs) for mobility in a rural community in Nigeria powered by a solar minigrid

22.05.2

Each MBC contains:

9

- 1. A **Financial Analysis** comparing NGN and EUR denominated debts
- 2. A **Sensitivity Analysis** varying rental fees against grant levels, vehicle utilisation rates, debt interest rates, CAPEX/OPEX, local currency depreciation and iInflation.





Key Takeaways

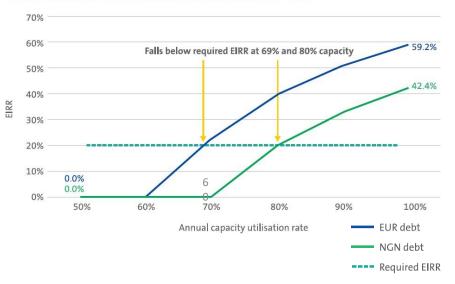
The viability of the Company will depend on:

- A consistent vehicle utilisation rate of > 69%
- Periodically increasing its daily rental fees to cushion currency depreciation
- Managing capital and operating costs

 $^{22.05,2}_{024}$ In terms of funding, the Company will require:

- Grant funding in the early years; and
- Patient capital due to the long period before achieving positive cash flows.

FIGURE 2. Equity IRR at various daily vehicle utilisation rates





1odel Business Case 2

Mini-grid Powered Rural E-Mobility Project

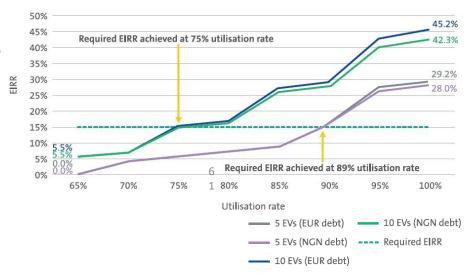


Key Takeaways

The viability of the Company will depend on:

- A consistent vehicle utilisation rate of > 75%
- A maximum mini-grid tariff of EUR 0.19 (NGN 255) per kWh
- Grant funding to charge rental fees that drivers will be willing to pay
- 22.05.2 024 Stability of the NGN
 - The ability of the EV operator to increase rental fees
 - Managing capital and operating costs

FIGURE 3. Equity IRR at various utilisation rate and fleet size levels



Thank You For Your Attention!





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GET.invest | Scaling up Finance for E-Mobility



Moderator



Ibidun Oludipe Advisor GET.invest

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Sunnie Omeiza-Michael Director, Research & Advocacy Lagos Chamber of Commerce & Industry



Adetayo Bamiduro Co-founder MAX



Koye Alaba Director, Financial Analysis, GreenMax Capital Advisors



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Thank you!

See you at 18.00 by the pool for the reception!