

# **EELA Stakeholder Forum – EmPowering Efficient Appliances for Greater Livelihoods in EAC and SADC**

## **New EELA Off-grid Initiative**

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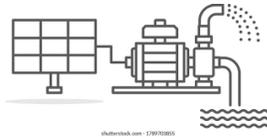
**Mr. Steven Bihinda, Senior Renewable Energy Engineer, Ministry of Infrastructure (Rwanda)**



## Rationale for an EELA off-grid initiative (1/2)



Majority of the population in the EAC, 78%, and SADC, 54%, live in rural areas where access to energy is still very low



Global demand for PUE is on the rise in the global off-grid appliances and equipment market. There is a large market potential for off-grid PUE products but the market is still at a nascent stage

Agriculture is the main source of income and employment in rural areas, and combined with agri-food industries a large contributor to GDP in EAC and SADC



Food insecurity is still high in EAC and SADC, and the current agriculture sector is characterised by low production and productivity



## Rationale for an EELA off-grid initiative (2/2)

- 1) There is a strong need to go beyond initiatives targeting access to electricity in the off-grid space and target **interventions that create sustainable markets for EE PUE appliances and equipment and stimulate the uptake of these products**. Otherwise, there is a risk that electricity is used for outdated and inefficient products lacking a sustainable impact.
- 2) **PUE appliances and equipment help maximise the developmental impacts of electrification for bottom of the pyramid communities** by improving livelihoods, strengthening agricultural value chains, keeping families safe and healthy, and improving quality of life.
- 3) **Energy efficiency is crucial to support the operation of PUE appliances and equipment in off-grid energy systems**. They require smaller batteries and solar panels which reduces costs to off-grid users and allow them to run their appliances for longer.
- 4) For people living in poverty, off-grid PUE products that improve their livelihoods represent a major investment. **Acquiring poor-quality PUE products can be damaging, not only for those directly involved but potentially also for wider market confidence and uptake**.

## Main findings of the market assessment for PUE products

EE off-grid PUE appliances and equipment are central to the agri-food system transformation in EAC and SADC, along the value chain.

Region	Country	Oil pressing equip	Grain milling	Cold storage	Egg incubators	Refrigerat ion (Milk)	Refrigerati on (Fish)	Solar water pumps	EVs (2 and 3 wheelers)
EAC	Rwanda		X	X	X	X		X	X
EAC & SADC	Tanzania	X	X	X	X			X	X
SADC	Zimbabwe		X	X	X	X	X	X	X
	Zambia		X	X	X	X	X	X	X
	Malawi		X	X	X		X	X	X
	Mozambique		X	X	X		X	X	X

There is a massive addressable market of \$5,238M across the six countries that is significantly reduced to USD \$93M. Affordability is the first and most significant barrier to PUE adoption.

# Key aspects of the EELA off-grid initiative

Overall objective: Accelerate the uptake of EE, quality and affordable PUE appliances and equipment to increase food security, climate resilient agriculture, and improve livelihoods in rural off-grid areas in the EAC and SADC regions.



## 1. POLICY AND REGULATORY INTERVENTIONS FOR OFF-GRID PUE PRODUCTS

- 1.1 Establish a **Regional Multi-Stakeholder Platform** and hold regular meetings to guide policy interventions for the creation of markets for EE off-grid PUE in EAC and SADC regions
- 1.2 Develop **test methods for lab and field testing** and **quality standards** for key off-grid PUE products, and facilitate **IEC adoption**

## 2. CAPACITY BUILDING AND AWARENESS RAISING ON OFF-GRID PUE PRODUCTS

- 2.1 Strengthen the **testing capacity** for off-grid PUE products (and subsidise testing and certification for new off-grid products)
- 2.2 Conduct regional **awareness raising and capacity building activities** to promote quality assurance for EE off-grid PUE in policy and business decisions across member states



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# THANK YOU

## UNIDO

Ms. Karin Reiss-Haimbala, email: [K.REISS@unido.org](mailto:K.REISS@unido.org)

Ms. Evita Moawad, email: [E.MOAWAD@unido.org](mailto:E.MOAWAD@unido.org)

Mr. Ndivhuho Tshikovhi: [N.TSHIKOVHI@unido.org](mailto:N.TSHIKOVHI@unido.org)

## EACREEE

Mr. Denis Ariho, email: [d.ariho@eacreee.org](mailto:d.ariho@eacreee.org)

Ms. Mary Bwabye, email: [m.bwabye@unido.org](mailto:m.bwabye@unido.org)

## SACREEE

Mr. Readlay Makaliki, email: [readlay.Makaliki@sacreee.org](mailto:readlay.Makaliki@sacreee.org)

Ms. Asteria Markus, email: [Asteria.markus@sacreee.org](mailto:Asteria.markus@sacreee.org)

For further information, visit the EELA website  
[www.eela-project.org](http://www.eela-project.org)

