



For a sustainable Future

# TAREA

Tanzania Renewable Energy Association



## **RENEWABLE ENERGY WEEK 2024**

**Main Event Date: 6th – 7th June 2024**

**VENUE: JULIUS NYERERE INTERNATIONAL CONVENTION CENTRE (JNICC) DAR ES SALAAM, TANZANIA.**

**THEME: RENEWABLE ENERGY FOR INCLUSIVE AND GREEN ECONOMY**





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## ABBREVIATION

<b>AC</b>	Alternating Current
<b>AECF</b>	Africa Enterprise Challenge Fund
<b>AfDB</b>	African Development Bank
<b>BoT</b>	Bank of Tanzania
<b>BRT</b>	Bus Rapid Transit
<b>E-Mobility</b>	Electrical Mobility
<b>CRDB</b>	Cooperative Rural Development Bank
<b>DC</b>	Direct Current
<b>DIT</b>	Dar es Salaam Institute of Technology
<b>ELICO</b>	Energy and Livelihoods for Communities
<b>ENSOL</b>	Energy Solutions
<b>EU</b>	European Union
<b>EWURA</b>	Electricity and Water Utility Regulatory Authority
<b>IRENA</b>	International Renewable Energy Agency Association
<b>JNICC</b>	Julius Nyerere International Convention Centre
<b>MoA</b>	Ministry of Agriculture
<b>MoE</b>	Ministry of Energy
<b>MoH</b>	Ministry of Health
<b>NACTVET</b>	National Council for Technical and Vocational Education and Training
<b>NBC</b>	National Bank of Commerce
<b>NMB</b>	National Microfinance Bank
<b>PFI's</b>	Participating Financial Institutions
<b>NREAs</b>	National Renewable Energy Associations
<b>PAYGo</b>	Pay As You Go
<b>PPA</b>	Power Purchase Agreement
<b>PUE</b>	Productive Use of Energy
<b>PURE</b>	Productive Use of Renewable Energy

<b>REA</b>	Rural Energy Agency
<b>RECs</b>	Renewable Energy Companies
<b>REW</b>	Renewable Energy Week
<b>REW2024</b>	Renewable Energy Week 2024
<b>SDGs</b>	Sustainable Development Goals
<b>SESCOM</b>	Sustainable Energy Services Company
<b>SIDO</b>	Small Industries Development Organization
<b>SPPA</b>	Standardized Power Purchase Agreement
<b>TACCS</b>	Tanzania Association of Clean Cooking Stakeholders
<b>TANESCO</b>	Tanzania Electric Supply Company Limited
<b>TAREA</b>	Tanzania Renewable Energy Association
<b>TaTEDO</b>	Tanzania Traditional Energy Development Organization
<b>TBL</b>	Tanzania Breweries Limited
<b>TBS</b>	Tanzania Bureau of Standards
<b>TFRA</b>	Tanzania Fertilizer Regulatory Authority
<b>TFS</b>	Tanzania Forest Services
<b>TGDC</b>	Tanzania Geothermal Development Company Limited
<b>TIB</b>	Tanzania Investment Bank
<b>TIB</b>	Tanzania Investment Bank
<b>TIRDO</b>	Tanzania Industrial Research and Development Organization
<b>TREEP</b>	Tanzania Rural Electrification Expansion Program
<b>UDART</b>	Usafiri Dar es Salaam Rapid Transit
<b>UNCDF</b>	United Nations Capital Development Fund
<b>UNDP</b>	United Nations Development Program
<b>WB</b>	World Bank
<b>WRI</b>	World Resource Institute

## ACKNOWLEDGMENT

Tanzania Renewable Energy Association (TAREA) is grateful to the Ministry of Energy for cohosting and collaborating during the Renewable Energy Week Event 2024. TAREA acknowledges the Ministry of Energy's dedication to advancing renewable energy and energy efficiency and its role in various economic sectors.

TAREA would like to thank Gold Sponsor SUN KING.

TAREA extends gratitude to all the Silver Sponsors of the REW2024 Event.

Expertise France / European Union (EU), United Nations Development Program (UNDP), Tanzania Electric Supply Company Limited (TANESCO), Rural Energy Agency (REA) ENSOL (T) LTD, Global Off-GRID Lighting Association (GOGLA), Africa Enterprises Challenge Fund (AECF).

Sponsoring renewable energy initiatives is not only a responsible environmental choice but also a strategic investment in a cleaner, more resilient, sustainable, and prosperous future allowing all of us to join efforts in addressing cross-cutting issues, review policies, mobilize resources, establish partnerships and endless opportunities that we can leverage.

Much appreciation to the Organizing Committee, Exhibitors, supporting partners, renewable energy stakeholders, and all the participants for making this event a stepping stone towards a greener and more inclusive future for Tanzania. Together, we can power a sustainable tomorrow.



## EXECUTIVE SUMMARY

Tanzania Renewable Energy Association (TAREA) and the Ministry of Energy (MoE) hosted the Renewable Energy Week 2024 (REW2024) event at the Julius Nyerere International Convention Centre (JNICC) in Dar es Salaam, Tanzania, from June 6th to 7th. This event attracted over 200 participants from diverse sectors related to renewable energy and energy efficiency under the theme “Renewable Energy for Inclusive and Green Economy.”

The REW2024 event was a vibrant platform for stakeholders to engage with cutting-edge Renewable Energy Technologies through keynote speeches, panel discussions, and interactive workshops. Spanning two dynamic days, the agenda included exhibitions, workshops facilitating public-private dialogue, and extensive networking opportunities.

This event united policymakers, international and national industry experts, researchers, academicians’ entrepreneurs, students, and the broader public, focusing on opportunities, challenges, and innovations within the renewable energy sector.



*Photo 1 Participants of the REW2024*

The key highlight was the emphasis on the shift to clean energy technologies. The event featured eleven sessions that explored enhancing access and using the huge potential of renewable energy opportunities.



The success stories of the event were the commitments made by government representatives from the Ministry of Energy and Ministry of Agriculture, who pledged to foster a conducive environment for project development, encourage investments from developers, investors, financial institutions, and other stakeholders, all aiming at advancing the renewable energy and energy efficiency sectors.

Participants identified things to be dialogued with public authorities and agencies, and the private sector of mainland Tanzania as follows:

- i) REA to have an energy private sector representative on the Rural Energy Board.
- ii) REA to observe the regulations providing mini-grid investment security when the national grid encroaches on the mini-grid site.
- iii) TANESCO to implement the Net-Metering Scheme 2018.
- iv) Ministry of Finance to grant tax incentives on the solar irrigation pumps.
- v) Ministry of Energy to review the Energy Policy 2015.
- vi) Electric Pressure Cooker suppliers to introduce in the market the institutional products.
- vii) Ministry of Finance to grant tax incentives on clean cooking solutions.
- viii) EWURA to establish a framework for collecting data on the development of non-business off-grid renewable energy solutions.
- ix) EWURA to develop laws and guidelines regulating the investments in e-mobility.
- x) TBS to enforce standards on the PURE appliances.
- xi) TAREA to advocate for the financiers to develop and operate financial products for PURE.
- xii) TAREA to advocate NACTVET for the operationalization of the Prior Learning Recognition Assessment for renewable energy artisans.
- xiii) TAREA advocate for the increase of women's participation in the renewable energy and energy efficiency sector.

REW2024 emerged as an essential moment marking the development of a sustainable energy future while promoting inclusive economic growth and environmental stewardship.

# 1.0 INTRODUCTION

## 1.1 Background information

TAREA has been conducting National Renewable Energy Week events in alignment with its commitment to community engagement and sustainable development. The event provides a platform for stakeholders to freely explore Renewable Energy and Energy Efficiency Technologies and elevate awareness within communities and public authorities about the productive uses and potentials of renewable energy. The commitment has resulted in the 2024 Renewable Energy Week (REW) event, which was organized collaboratively with TAREA and the Ministry of Energy.

## 1.2 Objectives of REW2024

- i. **Raise awareness:** The event aims to amplify awareness of renewable energy's role in mitigating climate change, spotlight innovative solutions, and facilitate discussions on strategies to expedite the widespread adoption of renewable energy sources contributing to a green economy.
- ii. **Showcase Technology Innovations:** By providing a platform for exhibitors, Renewable Energy Week spotlights cutting-edge technologies, fostering collaboration and knowledge exchange among renewable energy and energy efficiency players and industry players.
- iii. **Policy Dialogue:** Engaging policymakers in thoughtful discussions, the event addresses regulatory challenges, gaps and advocates for policies that incentivize renewable energy adoption for productive use.
- iv. **Networking:** Facilitating connections between diverse stakeholders, including government representatives, industry experts, and entrepreneurs, Renewable Energy Week catalysis partnerships crucial for advancing sustainable initiatives.

## 1.3 Agenda Overview

The first day involved the following: the arrival of speakers, guest of honour, and other participants followed by the registration and networking breakfast;

- i. Setting the scene of day one plus one presentation session;
- ii. Health break (stretch)
- iii. Official opening ceremony of REW2024 plus press & media interview
- iv. Lunch break and tour exhibition;
- v. Two parallel presentation sessions; health break and tour exhibition
- vi. Evaluation and wrap up for day one, and finally networking cocktail.

The second day involved the following:

- i. Arrival of participants, tour exhibitions and breakfast;
- ii. Setting the scene for day two plus two parallel presentation sessions;
- iii. Health break and tour exhibition, one presentation session;
- iv. Networking lunch and tour the exhibition;
- v. Two parallel presentation sessions;
- vi. Official closing ceremony of REW2024;
- vii. Evaluation of day two, event realisation, and finally, end of REW2024.

## **2.0 CONFERENCE PROCEEDINGS**

### **2.1 Day One**

#### **Introduction and Opening Remarks**

The event kicked off with an introduction to the “Glue up” App for event management, followed by opening remarks from Emma Laswai, Deputy Secretary of TAREA, who set the scene for the discussions.

##### **2.1.1 Session 1: Setting the Scene: Renewable Energy Technologies Catalysing Inclusive & Green Economy**

The presentation aimed to elaborate on the REW 2024 and highlight the composition of the participants. It also provided event theme details, which was ‘Renewable Energy Technologies Catalysing Inclusive & Green Economy’. Finally, it provided room for TAREA to give gratitude to all who supported the implementation of the event.



*Photo 2: Ms. Emma Laswai TAREA Deputy Executive Secretary Setting the Scene*

The supporters were the co-host Ministry of Energy of mainland Tanzania, gold sponsor SUN KING, silver sponsors, exhibitors, and all participants. The presentation was followed by the documentary on Renewable Energy Productive Uses.



Photo 3 Co-Host Ministry of Energy booth

## Tanzania Renewable Energy Association

### 2.1.2 Session 2: Presentation: Current Country Priorities, Policies, Strategies, and Frameworks Governing the Energy Transition in Tanzania

Eng. Imani Mruma, the Assistant Commissioner for Renewable Energy, explained the institutional, legal, and regulatory framework in mainland Tanzania and the organizational structure of MoE. He stressed the policies supporting the advancement of Renewable Energy and Energy Efficiency in the country. Additionally, the role of the renewable energy sector, the energy situation in Tanzania, and the energy transition mechanism (Policy Perspectives, SPPAs & PPAs) were explained. Finally, the country's priorities for renewable energy development (Technology Advancements and Regulatory Intersection in Tanzania's Energy Sector) were presented.

The moderator was Eng. Finias Magessa.

The panelists were Eng. Victor Labaha (EWURA), Eng. Patrice Tsakhara (TANESCO), Eng. Hamisi Mikate from (ENSOL (T) LTD), Mr. Andrew Mponzi (ENGIE Energy Access), and Mr. Joseph Zikhali (JUMEME).

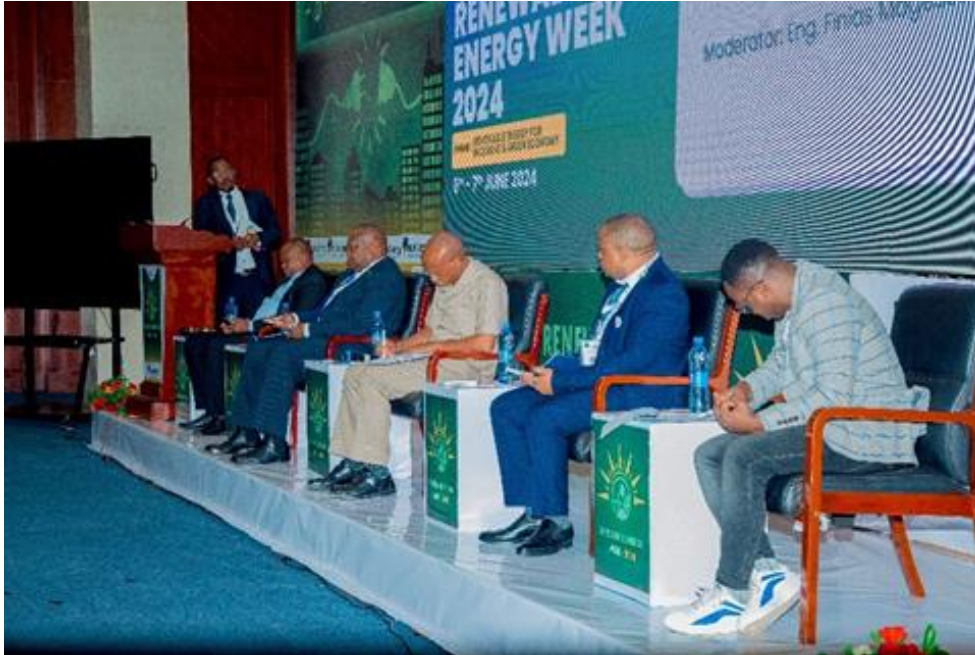


Photo 4 Moderator and Panelists for Session 2

### **Key Points Discussed**

Regulatory challenges were presented. These include abrupt changes of rules in the case of energy pricing for mini-grid, payment delays, and net metering. It was reported that it is not easy to change the rules as some procedure has to be followed.

Participants asked the government to address the tax hurdles related to imported lead-acid batteries and water pumps. The six-month notification to the mini-grid is not implemented and there are challenges of getting compensation on the arrival of the national grid in the min-grid sites.

### **Key Takeaways**

Some of the issues that were raised by the panelists that impend the renewable energy business have been dealt with by the government. The Ministry of Energy is currently addressing the remaining issues (net metering) and compensation to the investors when the grid reaches the mini-grid site.

Mini-grids and the grid complement each other, not the competitors. Ministry of Energy should improve the response time when dealing with its stakeholders, Private and Public partnerships are vital for fostering the energy sector in the country.

### 2.1.3 Opening Ceremony of the REW2024

The opening ceremony was done by the Commissioner for Electricity and Renewable Energy, Engineer Innocent Luoga, who was representing the Permanent Secretary of the Ministry of Energy, Eng. Felchesmi Mramba. The Guest of Honour was welcomed by the hosts of the event and he made a round tour of the Exhibitor's booths.



*Photo 5 Guest of Honor visiting the TAREA booth*

Dr.-Ing. Matthew Matimbwi, TAREA Executive Secretary gave the welcoming remarks while welcoming the Guest of Honour at the official inauguration of REW2024. The speech encouraged the participants to take advantage of the opportunities tied to the government initiative of renewable energy and energy efficiency and the importance of the standards of the appliances for ensuring renewable energy productive uses. TAREA supports the ongoing commitment to facilitate sustainable clean cooking through the promotion of renewable energy technologies for cooking that will contribute to Tanzania's forest conservation, improve environmental protection, and reduce carbon emissions.

TAREA asked the government through the MoE to consider reviewing the Energy Policy to enable other applications as it is now promoting the use of renewable energy for electricity generation only. In addition, TAREA asked the MoE to advise the Rural Energy Agency (REA) to appoint a private sector representative to the REA Board from among the - energy stakeholders.



*Photo 6: Eng. Matthew Matimbwi, TAREA Executive Secretary presenting welcoming remarks*

#### **2.1.4 Speech from Gold Sponsor**

The speech of the Gold Sponsor, SUN KING was given by Ms Emmaculate Shija. SUN KING was the only Gold Sponsor of the REW2024. She described the products, activities, and services of SUNKING.



*Photo 76 Speech from Ms. Immaculate Shija, SUN KING Country Training Manager*

Additionally, SUN KING expressed gratitude to the hosts of the event for their cooperation in enabling SUNKING gold sponsorship. SUN KING promised to continue to support the government initiatives geared toward improving the energy sector in the country

### **2.1.5 Speech from the TAREA Chairperson**

TAREA Chairperson, Eng. Prosper Magali, gave the speech to the audience of the REW2024 where he thanked all participants including sponsors, exhibitors, and development partners. Cordially, he thanked MoE for agreeing to co-host this year's Renewable Energy Week event. Furthermore, he thanked the TAREA secretariat and the REW2024 event committee for their effort to ensure the event was successful. Finally, Eng. Magali welcomed the Guest of Honor to officially inaugurate the REW2024 event.



*Photo 87 Speech from Eng. Prosper Magali TAREA Chairperson*

### **2.1.6 Opening Speech from Guest of Honor**

The Commissioner for Electricity and Renewable Energy, Eng. Innocent Luoga delivered the event's opening speech which clearly explained the intent of the government to foster the energy sector where all policies, regulations, and frameworks supporting the energy sector, particularly renewable energy were highlighted. Also, the Guest of Honour described the status of the energy sector in Tanzania where it was noted that renewable energy potential has not been used fully in the country. He pointed out that renewable energy contribution is not satisfactory, meaning there is a huge opportunity for investors in this subsector. According to the Eng. Luoga, to ensure reliable supply and access to modern energy for all by 2030, the government is preparing to launch a National Strategy



and Action Plan for Renewable Energy that will stimulate greater investment in renewable energy, which will better reflect Tanzania's Vision 2025; the 2015 Sustainable Development Goals; and other international and national agreements on climate change. The overall goal is to ensure access to affordable and reliable sustainable energy services for all citizens.



*Photo 9: Opening Speech from Guest of Honour*

"By moving away from the use of natural plants such as wood and charcoal for cooking, we are not only reducing emissions but also improving the climate and improving the lives of millions of people in the future. The implementation of the National Clean Cooking Strategy directly supports the Clean Cooking Assistance for African Women," he said. Furthermore, the clean cooking initiative was stressed by the Guest of Honour as this is a priority of the Country and it has the support of Her Excellency, President Dr. Samia Suluhu Hassan.

There is a significant initiative to increase the productive use of renewable energy especially, solar, wind, and geothermal. Besides, he emphasized the need for long-term renewable energy strategies and highlighted the ongoing grid modernization to incorporate solar and wind energy.

Additionally, he took the opportunity to announce the Geothermal Conference, to be held in the country, in October 2024. Having said that, Guest of Honour, officially opened the REW2024 event. The opening speech from the Guest of Honour was succeeded by a

Vote of thanks; Awards to Sponsors; a group photo session as well as press and media interviews.



Photo 10: Event Sponsors for REW2024 Event



Photo 81: SUN KING Country Training Manager, TAREA Chairperson, TAREA Executive Secretary, in a group photo with Guest of Honour along with his esteemed delegation from the Ministry of Energy

### 2.1.7 Session 3: Clean Cooking Journey in the Tanzanian Context

TaTEDO opened the session with a presentation on the Clean Cooking Journey in Tanzania. The presentation was built on the motto of cooking and living plus cooking sustainably. On the clean cooking initiatives, the discussion was centered on appliances and energy/fuels.

This session was focused on the following: technological innovations and adoption for institutions & households; impacts on health and environment; policy frameworks and regulatory challenges; community engagement and behavioral change; energy efficiency: the importance of clean cooking standards development and implementation.

The moderator was Dr.-Ing. Matthew Matimbwi (TAREA)

The panelists were Ms. Joyce Msangi (MoE), Eng Albina Minja (SESCOM), Mr Sylvester Mwambije (ENVOTEC Services), Mr. Atupele Kilindu (TIRDO), and Mr. Godfrey Seleman (AECF).



Photo 92: Panelists for Session 3. From Left to Right. Ms. Joyce Msangi (MoE), Eng. Albina Minja (SESCOM), Mr. Sylvester Mwambije (ENVOTEC) Mr. Atupele Kilindu (TIRDO) and Mr. Godfrey Seleman (AECF)

#### Key Points Discussed

High cost of developing biogas projects; research on the technologies useful for clean cooking; electrical cooker advantages and awareness; and government efforts to support clean cooking. It was argued that SIDO has to be supported strongly for the sustainability of clean cooking. TaTEDO who champion e-cooking expressed their effort toward clean cooking and they were urged to increase the size of the Electrical Pressure Cookers to cater to the demand for cooking done by institutions, e.g., schools. It was reported that efforts to address those challenges are in place.

On the other hand, it was reported that e-cooking is being subsidized in Uganda. The issue of limited accessibility of emission analysers for the Tanzania Bureau of Standards (TBS) in the country to support the certification of cooking technologies was raised. Furthermore, the government supporting mechanism of the clean cooking initiative through tax exemptions, subsidies, and improvement of the legal and regulatory frameworks was highlighted.

**Key Takeaways:** Some stakeholders have already started working on certifying their cooking technologies although they face challenges requiring them to seek support outside the country. Additionally, there is the importance of improving the cooking technology to meet the market demand as in the case of e-cooking by SESCO. It was requested the MoE replicate the e-cooking subsidy being implemented in Uganda by Umeme Ltd. The emission analyzer for TBS is in the procurement process hence will be available soon as per the MoE representative.

#### **2.1.8 Session 4: The Crucial Role of Data and Statistics in Planning Renewable Energy Investments in Tanzania**

This session was based on the following: data-driven decision-making; data collection and monitoring techniques; market trends and investment opportunities, and energy planning tools for development.

The moderator was Dr. Ing Matthew Matimbwi (TAREA) Panelists were Festo Mwemutsi (NBS), Eng. Shukurani Rugaimukamu (MoE), Douglas Ronoh (WRI), Mr Collin Gumbu (GOGLA)



*Photo 13 Panelist during Session 5 The Crucial Role of Data & Statistics*

**Key Points Discussed:** The useful data can be obtained from the Geospatial Apps, which is an open source. The app is Energy Access Explorer. This service is supported by WRI. GOGLA has an initiative of data collection on off-grid solar photovoltaic technologies. The data is published every six months. The quality of data, the issue of publication rights, and privacy security were discussed during this session.

**Key Takeaways:** The audience urged that data collection should involve all stakeholders for the reliability of data. NBS and TAREA should be involved. NBS has already started to engage TAREA in preparation of the tools for data collection.

### **2.1.9 Session 5: Environmental Sustainability & E-Mobility**

The session focused on creating an enabling environment for e-mobility; opportunities for e-mobility in agriculture, energy, and transportation sectors; and financing land e-mobility like e-tricycle and e-bike.

The moderator was Mr. Michael Onesimo

Panelists were Mercy Kitomari (GrowTri) Eng. Mussa Ibrahim (AG Energies) Marsha Yambi (Global Compact) Felistas Coutinho (TUJIJENGE Tanzania)

**Key Points Discussed:** Discussions based on market challenges, potential partnerships, and the need for reliable charging infrastructure and supportive financial models. Global Compact presented on the E-mobility: enabling policy frameworks, regulation & guidelines towards environmental sustainability.

**Key Takeaways:** Operating electric vehicles not only contributes to job creation in the transportation sector but also reduces operational costs. Compared to traditional gasoline-powered vehicles, electric vehicles have lower maintenance costs, don't require fuel, and contribute to environmental sustainability.

By investing in an electric 2 and 3-wheeler tax business, you are not only embracing renewable energy practices but also actively participating in climate action and supporting sustainable development goals joining the movement towards a cleaner and greener future.



*Photo 14 Electric 3-wheeler bikes from Tri*

## **Networking Cocktail Gala**

Wrapping up day one with an Evening of Synergy and Sips, the Networking Cocktail powered and sponsored by NMB with drinks supported by TBL through Global Compact. Day one was closed by a Networking Cocktail Gala. The event was supported by the National Microfinance Bank (NMB) and Tanzania Breweries Limited (TBL).

## **2.2 Day Two**

### **2.2.1 Session 6: Energizing Growth: Harnessing Renewable Energy for Climate Smart Agriculture Livestock and Fishing Industry**

This session was focused on small- & large-scale renewable energy irrigation; animal watering; agricultural products conservation (solar drying, cold storage, ice making for fishing, milk chilling, and milling); post-harvest management & processing, and policy frameworks and finance.

The moderator was Mr. Sisty Basil (ELICO Foundation).

Panelists were Mr. Patrick Tonui (GOGLA), Mr. Hobokela Mwakanyamale (Simusolar), Ms. Saada Mandari (Davis & Shirliff), Eng. Swaleh Hassan (Gadgetronix.Net), Eng. Diana Mbogo (Millenium Engineering)

**Key Points Discussed:** A presentation was made by GOGLA regarding the Overview of the Global Context on the Productive Use of Energy. Productive Uses of (Renewable) Energy (PUE/PURE) solutions are renewable energy-based efficiency products, appliances, or services that improve livelihoods and income generation. PURE is often categorized by its end impact (pumping, cooling, drying...) rather than by the origin of the electricity (Stand-alone system / Mini-grid / Grid). PURE solutions are designed for off-grid areas under DC, but more often now also under hybrid AC/DC for (weak) grid areas, targeting agricultural, commercial, and industrial segments. PURE plays a relevant role in advancing also social services (health and education). Building and scaling an enabling ecosystem for the Productive Use of Renewable Energy (PURE) depends on Policy and regulations, through intergovernmental coordination, multi-stakeholder engagement, integrated planning, public/private finance, and investment.

**Key Takeaways:** Strengthen national inter-ministerial coordination and facilitate multi-stakeholder engagement and mainstream Productive Use of Renewable Energy (PURE). Establish consumer protection mechanisms that improve the quality of imported PURE products and components and reduce counterfeit, i.e., standards & after-sales services. Mobilization of smart public financing (i.e., RBF-based supply, demand side subsidies & R&D funds), guarantees, and delivery of tax reform studies. Increase knowledge and adoption via NREAs / cooperatives/companies through innovative partnerships and demand creation campaigns. Increasing consumer credit, including access to PAYGo for near-to-market PURE technologies, and assets finance (for bigger systems, e.g., cold rooms). Capacity building and sensitization to government and financial institution representatives.



*Photo 15 Moderator and Panelist during Session 6*

## 2.2.2 Session 7: Enhancing Professional Skills for Effective Energy Efficiency Strategies

This session was based on essential technical skills for energy efficiency professionals, training and certification opportunities; the role of policies and regulations in energy efficiency, and promoting energy-efficient behaviors: and incentives.

The moderator was Mr Aaron Cunningham (UNDP).

The panelists were Dr. Malogo Kongola (UNDP) Eng. Victor Labaa (EWURA), Dr. Mwaka Juma (DIT) Sayuni Mbwilo (UNDP), Atupele Kilindu (TIRDO), Eng. Mawazo Masuka (DIT).



Photo 16 Panelist during Session 7

**Key Points Discussed** The discussion focus was on the integration of renewable energy in energy efficiency strategies; real-world examples of successful and innovative energy efficiency initiatives; collaboration for advancing energy efficiency goals, and future trends and challenges in energy efficiency. The roles of certified energy managers and auditors; and the involvement of educational institutions in training future experts were highlighted.

**Key Takeaways:** The expected results for the Implementation of the Tanzania Energy Efficiency Plan were analyzed as follows: The Legal, Regulatory, and Institutional set-up, including administrative actions, will be strengthened to support the implementation and introduction of Energy Efficiency actions. Quantifiable Investments in Energy Efficiency identified and implemented by large energy users.



Capacity and skills developed, jobs created, and employability increased, particularly for women and youth in the Energy Efficiency and Renewable Energy services and technology sector. Public Relations and awareness, access to information, stakeholder dialogue and visibility of financial, economic, and societal benefits of Energy Efficiency and renewable energy increased.

### **2.2.3 Session 8: Financing the Future: Financing & Investments in Large Scale/Commercial Renewable Energy Projects Innovative Financing Models**

The session was based on opportunities for the private sector: investment in utility and commercial scale renewable energies; financing of utility & commercial scale & budget allocation for renewable energy.

The moderators were Mr. Francis Rwebogora (Amshaamsha Foundation) and Ms. Pamela Mushi (Interfini).

Panelists were Mr. Joseph Zikhali (JUMEME), Eng. Matthew Mwangomba (TGDC), Eng. David Malima (REA), Mr. Kenneth Lusesa (TIB), Mr. Hailo Kibiki (CRDB), Mr. Nelson Karawa (NMB)

**Key Points Discussed:** The speaker from TIB discussed innovative financing models and investment opportunities. Key points included the need for capacity building and stakeholder engagement. In August 2016, REA contracted TIB to administer the Tanzania Rural Electrification Expansion Program (TREEP). The TREEP Credit Line Fund on behalf of the Government as a program administrator. TREEP program has a fund size of USD 15 million for supporting Small Power Producers (SPPs) and Renewable energy companies (RECs): The main purpose of the fund is to support the Renewable Energy Sector through private sector involvement.

**Key Takeaways:** The fund is accessible to Participating Financial Institutions (PFIs) for on-lending to Small Power Producers (SPPs) and Renewable Energy Companies (RECs). The fund will cover long-term financing for up to 15 years as well as short-term financing for up to 5 years. The nature of the fund is refinancing package arrangement to PFIs. To disburse and ensure timely loan re-payment from PFIs.

The fund is accessible only to Participating Financial Institutions (PFIs) that have been vetted by the central bank (BoT). Under the TREEP program, a total of eight (8) PFI's have been vetted and approved by BoT to be in the program. These include CRDB Bank, Azania Bank, TIB Development Bank, NBC Bank, NMB Bank, ABSA Bank, Maendeleo Bank and Stanbic Bank.



*Photo 17: Mr. Francis Rwebogora (Amshaamsha Foundation), moderating Session 8*

#### **2.2.4 Session 9: Youth & Women's Voices in Renewable Energy for Inclusive & Green Economy**

This session began with a brilliant and interesting poem, *A Fervent Call*, recited by Ms. Jackline Christopher Mjema. It was a platform to voice thoughts on young girls and women's involvement in the renewable energy sector.



*Photo 18 Miss Jackline Mjema reciting A Fervent Call Poem*

The moderator was Ms. Theresia Mcha (Amshaamsha Foundation).

Panelists were Ms. Cecilia Manu (HETA), Ms. Jacqueline Ngulla (Up Energy), Eng. Sayuni Mbwilo (UNDP), Ms. Sylvia Kimambo (Interfini), and Mr. Seth Mathemu (SUN KING) Ms. Gisella Ngowo (Women Chapter-TACCS)



*Photo 19: Panelist during Session 9*

**Key Points Discussed:** Youth, characterized by their innovation, adaptability, and forward-thinking mindset, are pivotal in the renewable energy sector. With their acute awareness of climate issues and a vested interest in the future, young people are often at the forefront of advocating for sustainable practices. Youth bring fresh perspectives to old problems, leveraging technology and social media to mobilize communities and influence policy. Programs and initiatives that engage youth in renewable energy projects harness their potential and equip them with the skills and knowledge necessary for green jobs.

Women's participation in the renewable energy sector is essential for achieving gender equity and maximizing the sector's potential. Initiatives that support women in renewable energy include mentorship programs, targeted scholarships, and policies that promote work-life balance. Organizations like the International Renewable Energy Agency (IRENA) provide platforms for women to connect, share knowledge, and advocate for gender-inclusive policies.

**Key Takeaways:** The transition to a green economy, centred on sustainability and renewable energy, presents an unparalleled opportunity to foster inclusivity and empowerment. Integral to this transition are the voices of youth and women, whose participation and leadership are crucial in driving innovative solutions and ensuring a just and equitable energy future. An inclusive green economy requires policies and practices that ensure equal opportunities for all, regardless of age or gender. Governments and organizations must prioritize investments in education and training programs that are accessible to youth and women.

Additionally, policies that address barriers to entry, such as gender bias and lack of access to finance, are critical. Collaboration between the public and private sectors can further enhance inclusivity. For example, public-private partnerships can develop community-based renewable energy projects that create jobs and improve local economies, while also reducing carbon footprints. The voices of youth and women are indispensable in the journey towards a renewable energy-driven, inclusive green economy.

### 2.2.5 Closing Ceremony of the REW2024

The closing ceremony was preceded by the arrival of the Guest of Honour, a representative from the Ministry of Agriculture, Chief Executive Officer of Tanzania Fertilizer Regulatory Authority; Mr. Joel Laurent. The Guest of Honour was welcomed by the hosts of the event and he made a round tour of the Exhibitors' Booths.



*Photo 20: Guest of Honour Mr Joel Laurent visiting the REA booth*

### **i) Closing Remarks from Gold Sponsor**

The speech of the Gold Sponsor was given by the SUNKING representative, Mr. Seth Matemu, who emphasized again the promise to continue to support the government initiatives increasing access to sustainable energy in the country. Sun King, through commitment to innovation, sustainability, and social impact will continue to lead the expansion of energy access, transforming lives not only on Tanzanian soil but worldwide. Sun King is dedicated to providing reliable, affordable, and sustainable solar photovoltaic energy solutions and positions as a leader in the off-grid solar industry and a catalyst for global change.

### **ii) Closing Remarks from TAREA**

TAREA Executive Secretary, Dr.-Ing. Matthew Matimbwi gave the TAREA concluding remarks. The remarks were about thanking the organizing committee and all participants, sponsors, exhibitors, and development partners as well as the Guest of Honor for making the REW 2024 a vibrant and useful event.

TAREA Chairperson, Eng. Prosper Magalli, gave the speech to the audience of the REW2024. He thanked all participants including sponsors, exhibitors, development partners, co-hosts, the TAREA Secretariat, and the REW2024 Event Committee for their effort to ensure the event is successful. Finally, Eng. Magalli welcomed the Guest of Honor to officially close the remarkable REW 2024 event.



*Photo 21: TAREA Secretariat Team with Guest of Honor Mr. Joel Laurent*

### iii) Closing Remarks from Guest of Honor

The Guest of Honor, a representative from the Ministry of Agriculture, Chief Executive Officer of Tanzania Fertilizer Regulatory Authority; Mr. Joel Laurent highlighted the importance of renewable energy in achieving Sustainable Development Goals (SDGs) by 2030 and announced the official closing of REW 2024.



*Photo 22 Closing Remarks from Guest of Honour Mr. Joel Laurent*

### 3.0 RECOMMENDATIONS

The following were recommendations made in the conference which will have to be followed up.

- i) REA to have an energy private sector representative on the Rural Energy Board.
- ii) REA to observe the regulations providing mini-grid investment security when the national grid encroaches on the mini-grid site.
- iii) TANESCO to implement the Net-Metering Scheme 2018.
- iv) Ministry of Finance to grant tax incentives on the solar irrigation pumps.
- v) Ministry of Energy to review the Energy Policy 2015.
- vi) Electric Pressure Cooker suppliers to introduce in the market the institutional products.
- vii) Ministry of Finance to grant tax incentives on clean cooking solutions.
- viii) EWURA to establish a framework for collecting data on the development of non-business off-grid renewable energy solutions.
- ix) EWURA to develop laws and guidelines regulating the investments in e-mobility.
- x) TBS to enforce standards on the PURE appliances.
- xi) TAREA to advocate for the financiers to develop and operate financial products for PURE.
- xii) TAREA to advocate NACTVET for the operationalization of the Prior Learning Recognition Assessment for renewable energy artisans.
- xiii) TAREA advocate for the increase of women's participation in the renewable energy and energy efficiency sector.

## 4.0 CONCLUSION

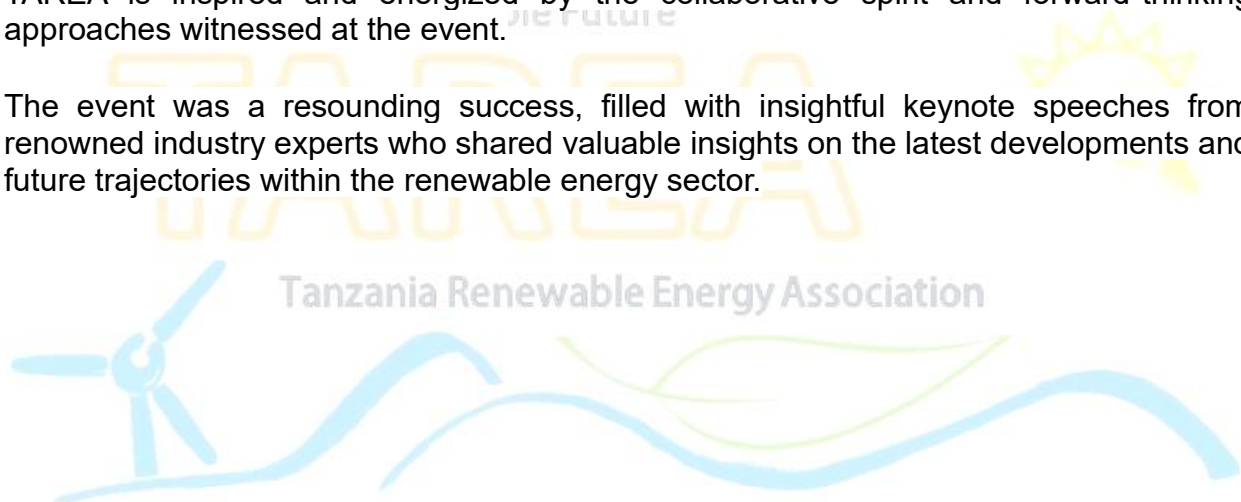
REW2024 successfully brought together diverse stakeholders to discuss and promote renewable energy solutions in Tanzania.

The event highlighted the need for regulatory clarity, innovative financing, professional training, and stronger public-private partnerships to drive energy transition.

The exhibitions showcased innovative technologies, providing participants with hands-on experiences to interact with cutting-edge solutions shaping the future of renewable energy.

The networking sessions were valuable, offering a platform to connect with professionals from various sectors including finance, innovation, and renewable energy. TAREA is inspired and energized by the collaborative spirit and forward-thinking approaches witnessed at the event.

The event was a resounding success, filled with insightful keynote speeches from renowned industry experts who shared valuable insights on the latest developments and future trajectories within the renewable energy sector.





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