



# TANZANIA RENEWABLE ENERGY ASSOCIATION (TAREA) ANNUAL REPORT IN THE PERIOD OF 1<sup>ST</sup> JANUARY TO 31<sup>ST</sup> DECEMBER, 2023

For a sustainable Future

# TAREA



Tanzania Renewable Energy Association



## Prepared by

Tanzania Renewable Energy Association  
P.O. Box 32643  
16106 Dar es Salaam  
Mandela Road, Plot 1080 Mabibo External  
Export Processing Zones Authority (EPZA)  
Shopping Arcade 17  
Email: [info@tarea-tz.org](mailto:info@tarea-tz.org) Tel: +255 765 098 462  
Website: [www.tarea-tz.org](http://www.tarea-tz.org)



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Tanzania Renewable Energy Association



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## Abbreviations

<b>AC</b>	Advisory Committee
<b>ACCESS</b>	Alliance of Civil Society Organizations for Clean Energy Access
<b>ARE</b>	Alliance for Rural Electrification
<b>CSOAP</b>	Civil Society Organization Advisory Platform
<b>CTCN</b>	Climate Technology Centre Network
<b>DTP</b>	Deutsch Tansanische Partnerschaft Verein
<b>e.V</b>	Verein (association)
<b>EAE</b>	Energy Access Explorer
<b>EAREF</b>	East Africa Renewable Energy Federation
<b>EC</b>	Executive Committee
<b>EE</b>	Energy Efficiency
<b>EELA</b>	Energy Efficient Lighting and Appliance
<b>ELCT-SD</b>	Evangelical Lutheran Church Tanzania-Southern Diocese
<b>EPZA</b>	Export Processing Zones Authority
<b>EWURA</b>	Energy and Water Utility Regulatory Authority
<b>Fis</b>	Financial Institutes
<b>GIZ</b>	Deutsche Gesellschaft für Internationale Zusammenarbeit
<b>GOGLA</b>	Global Off-Grid Lighting Association
<b>HA-ILE</b>	Haar-Ilembula
<b>IKI</b>	Internationale Klimaschutzinitiative
<b>KRETC</b>	Kikuletwa Renewable Energy Training and Research Centre
<b>kVA</b>	Kilo Volt Ampere
<b>kW</b>	Kilowatt
<b>LIFE</b>	Life International Foundation for Ecology
<b>m<sup>2</sup></b>	Metre square
<b>NACTVET</b>	National Commission for Technical and Vocational Training
<b>NGOs</b>	Non-Government Organizations
<b>PUE</b>	Productive Use of Energy
<b>PV</b>	Photovoltaic
<b>RE</b>	Renewable Energy
<b>REEEP</b>	Renewable Energy and Energy Efficiency Partnership

<b>RETs</b>	Renewable Energy Technologies
<b>RPLA</b>	Recognition Prior Learning Assessment
<b>RUDIA</b>	Rural and Urban Development Initiatives Agency
<b>SOARING</b>	Southern African Renewable Investment and Growth
<b>TANESCO</b>	Tanzania Electricity Supply Company
<b>TAREA</b>	Tanzania Renewable Energy Association
<b>TASEA</b>	Tanzania Solar Energy Association
<b>TBS</b>	Tanzania Bureau of Standards
<b>UNDP</b>	United Nations Development Program
<b>USAID</b>	United States Agency for International Development
<b>V<sub>ac</sub></b>	Alternating voltage
<b>VAT</b>	Value Added Tax
<b>VTCs</b>	Vocational Training Centres
<b>WRI</b>	World Resources Institute
<b>ZAREDO</b>	Zanzibar Renewable Energy Development Organization



## **1.0 Introduction**

2023 was the 22<sup>nd</sup> year for the Tanzania Renewable Energy Association (TAREA) since it was founded. TAREA is a non-profit making, member-based, non-government organization that brings together local and international stakeholders to promote the accessibility and use of renewable energy and energy efficiency in mainland Tanzania. It was established in 2000 and registered by the Ministry of Home Affairs on 7<sup>th</sup> May 2001 with Reg. No. SA10900. TAREA membership includes; corporate members (service providers/enterprises/NGOs); professional members (individuals), associate members (non-scientific individuals); dealer members (small enterprises/retailers); technician members (installation and maintenance artisans); and student members. To date, TAREA has a total of 404 active members (December 2023). Over the years, TAREA has been implementing promotional and capacity-building activities, research, knowledge exchange and sharing, awareness creation, quality control and advocacy/lobbying for a sound environment for the dissemination of renewable energy technologies. Also, it has been cooperating with local and international RE&EE players in implementing projects and programs.

TAREA has two branches. The branches are the Northern Zone with an office in Arusha and the Lake Victoria Zone with an office in Mwanza,

### **Vision of TAREA**

To be a reputable umbrella association, supporting and enabling the sustainable growth of the Renewable Energy sector throughout mainland Tanzania.

### **Mission of TAREA**

The mission of TAREA is to promote and advocate for the increased use of renewable energy by developing an effective network of members and stakeholders, emphasizing the need for quality and best practices throughout the sector.

### **Objective of TAREA**

The objective of TAREA is to promote the sustainable development of Renewable Energy Technologies in mainland Tanzania.

## 2.0 Management of the Association

### 2.1 Executive Committee

The Executive Committee (EC) continued with directing the implementation of TAREA activities through the Secretariat of the Association. The term of EC is three years. The term of the current Executive Committee is from 2021 to 2024.

The Executive Committee consisted of:

- (1) Eng. Proper Magali (Chairperson);
- (2) Ms Brenda Kazimili (Vice-Chairperson);
- (3) Eng. Hamisi Mikate (Treasurer);
- (4) Prof.-Eng. Cuthbert Kimambo (Ex-Chairperson);
- (5) Prof.-Eng. Geoffrey Reuben John (Ex Chairperson);
- (6) Prof. Eng. Aminirabi Kweka (Ex Chairperson);
- (7) Dr.-Ing. Matthew Matimbwi (Executive Secretary);
- (8) Ms. Emma Laswai (Deputy Executive Secretary)
- (9) Mr Leonard Pesambili (Member);
- (10) Mr Godwin Msigwa (Member);
- (11) Eng. Lydia Mugarula (Member);
- (12) Eng. Restuta Kokushuliza (Member);
- (13) Eng. Daniel Ngwenya (Chairperson of Northern Zone Branch);
- (14) Eng. Ellison Malyi (Chairperson of Lake Victoria Zone Branch) and
- (15) Eng. Ngwisa Mpembe (Chairperson of Advisory Committee).

### 2.2 Advisory Committee

The Advisory Committee (AC) has a term of three years. The term of the current Advisory Committee is from 2021 to 2024. The Advisory Committee consisted of:

- (1) Eng. Ngwisa Mpembe Chairperson, Representing Mini-Grid Sector;
- (2) Dr Sara Ayeng'o Secretary, Cross-cutting renewable energy Sectors;
- (3) Eng. Arfaksad Ndilanha Member (Representing biomass technologies)
- (4) Eng. Burton Willilo Member (Representing hydro technologies)
- (5) Eng. Cynthia Eliceus Member (Representing geothermal and green hydrogen technologies)
- (6) Eng. Frank Tarimo Member (Representing wind power technologies)
- (7) Dr Gerd-Henning Vogel Technical Advisor

### 2.3 Staffing and Personnel

Daily implementations of activities were under the 5 full-time personnel and 3 volunteers. From time to time, the TAREA Secretariat has made use of its members for implementing workshops/meetings/seminars, advisory services, and technical capacity-building activities depending on specific needs.

## **2.4 Office Space**

TAREA Head Office is located at Mandela Road, Plot 1080 Mabibo External Area, and Export Processing Zones Authority-Shopping Arcade 17. The office floor is 70 m<sup>2</sup>. In the year 2021, the office space was extended from 35m<sup>2</sup> to 70m<sup>2</sup>.

## **2.5 Utilities and Equipment**

TAREA had managed to pay salaries, various fees, utilities, internet services, purchase of stationery, and maintenance fees required for the smooth running of the office.

## **3.0 TAREA Activities 2023**

Underneath are the major activities that were implemented in the period of 1<sup>st</sup> January 2023 to 31<sup>st</sup> December 2023.

### **3.1 Volunteer Programs**

TAREA implemented two volunteer programs.

#### **3.1.1 REN Volunteer Program**

REN Volunteer is a program that offers internships to Tanzanian young people to work at renewable energy organizations for one year. After completion of the internship, the intern can work independently. In the year 2023, two volunteers were placed at the TAREA head office (Dar es Salaam) to practice renewable energy financing. The interns were graduates of accounting and financing at the Tanzania Institute of Accountancy in Dar es Salaam. The program is financially contributed by the City of Hamburg through Deutsch-Tansanische Partnerschaft e.V (DTP) of Hamburg in Germany.

#### **3.1.2 University Students Internship**

It is the internship program in which TAREA hosts students who want to do an internship on renewable energy technologies while they are continuing with their studies or in their last semester at the university. In 2023, TAREA hosted 3 students from Ernst-Abbe Hochschule Jena, Germany and 2 local students from the Institute of Finance Management (Dar es Salaam) and the Dodoma Institute of Development and Entrepreneurship Studies.

### **3.2 Masasi-Enzkreis Solar PV Project**

TAREA continued providing technical support to the project of Masasi-Enzkreis Solar PV Project which is implemented in the Masasi District. The project installed solar photovoltaic systems at Folks Development College, 2 health facilities and 8 secondary schools. One installation was not done. Installation at the Environment Centre will be done in 2024



### 3.3 HA-ILE Partnership Energy Project in Ilembula

Haar-Ilembula Partnership (HA-ILE) is the partnership of the Germans and the Tanzanians working to support the development of Ilembula in the Njombe region. TAREA provided technical support. In 2023, HA-ILE installed a 150kVA power-backup diesel generator for Ilembula Lutheran Hospital and a 2.2kW/220Vac grid-connected water pump for Mayale Primary School in Wanging'ombe District Council. The next step will be the extension of the storage facility.

### 3.4 Water Project at the Emmaberg Girls Secondary School

SchuPa is a German non-government organization that works with the ELCT-Southern Diocese to support secondary education within the Njombe region. SchuPa asked TAREA to provide technical support in developing solar water heating and photovoltaic systems at the Emmaberg Girls High School. The solar photovoltaic systems are for water pumping and 2 dormitories lighting. The two solar water heating plants with a total capacity of 4000 litres/day were developed for girls' showers. In 2024, end-users will be trained on the best practices of using solar systems. The project was funded by the Bavaria Chancellery and SchuPa e.V.



Photo 1: 2500 litres solar water heating plant at the Emmaberg Girls High School

### **3.5 Enabling NGOs Implement Solar Irrigation Projects**

Two NGOs of Zanzibar Renewable Energy Development Organization (ZAREDO) of Zanzibar and Rural and Urban Development Initiatives Agency (RUDIA) of Kasulu-Kigoma received financial support to enable small-holder farmers to access solar irrigation technologies. TAREA was asked to provide technical training on planning a smallholder solar irrigation scheme. The activity was supported by the URBIS Foundation of Bavaria, Germany.



Photo 2: Petrol pumping technology to be replaced by solar photovoltaic irrigation technologies in Kasulu, Tanzania

### **3.6 Advocate NACTVET on the Implementation of RPLA for RE**

TAREA continued with dialogue with NACTVET on the implementation of RPLA for the renewable energy artisans. TAREA had already developed assessment tools. The next step is training assessors. The implementation of RPLA will enable informally trained RE artisans to be accredited and allowed to apply for the electrical installation licence with EWURA.

In 2023, TAREA made 3 engagements with NACTVET to enable RPLA for the renewable energy artisans. The dialogues were financed by E4D-GIZ and through TAREA-owned resources.

### **3.7 Net Metering Scheme 2018 Dialogue**

The Energy and Water Utility Regulatory Authority (EWURA) enacted the Tanzania Net Metering Scheme of 2018. Since it was enacted, it has not yet been used.

To catalyse the implementation of the scheme, TAREA initiated a dialogue with TANESCO in December 2021 to enable the realization of the scheme.

The activity was not implemented in 2023 due to the lack of funds.

### 3.8 Sensitizing FIs Financing RETs

TAREA partnered with REEEP to conduct a forum on the financing of renewable energy. The forum aimed to sensitize the Financing Institutes in Tanzania to finance renewable energy technologies. The event resulted in some local banks being attracted to financing renewable energy. The forum was financed by the IKI SOARING Program through REEEP.

### 3.9 Supporting LIFE Academy Global Capacity Building Program

LIFE Academy of Sweden was implementing programs of Global Capacity Building on Renewable Energy and Uganda Capacity Building on Renewable Energy. The Global Capacity Building Program attracted experts from Kenya, Rwanda, Tanzania, Zambia and Uganda. TAREA supported the training in the role of the regional mentor. The programs were financed by Sida.

### 3.10 Training of Solar PV Trainers for the Moravian MVTCs

Moravian Church in Tanzania cooperates with the Herrnhuter Missionshilfe e.V of Germany in establishing solar photovoltaic training at the Moravian Vocational Training Centres in Mbeya, Kyela, Songea, Ileje, Namtumbo, Sadock Simwanza (Kakozi), Rungwe and Ibaba. TAREA participated in training the instructors. The training was planned to start in 2024. TAREA will continue providing technical support to the training centres till 2025 to ensure quality training.

The activity is financed by the URBIS Foundation of Germany through Herrnhuter Missionshilfe e.V. Tanzania Renewable Energy Association



Photo 3: Solar instructors for Moravian VTCs in Southern Highland Tanzania

### 3.11 Biomass Policy Dialogue

TAREA continued to implement the assignment of the Biomass Policy Dialogue. The assignment meant to dialogue with the policymakers on the building enabling environment for the sustainable use of biomass energy for cooking. The initiative resulted in the Ministry of Energy recognizing the sustainable use of biomass for

cooking. Biomass was added to the draft document of the clean cooking roadmap as one of the sources of energy for cooking.

The assignment was financed by the Endeavour through the SNV International Development Organization.

### **3.12 Installation of Solar PV System at Mbondo Secondary School**

Mbondo is an off-grid and remote rural village in Nachingwea District Council in the Lindi Region. The Mbondo Secondary School which is a boarding is not connected to the national grid. To improve the quality of education, TAREA developed a project for the school to enable a quality learning environment and demonstrate the potential of solar photovoltaic technology to the community. The solar photovoltaic system was installed to supply electricity to the classrooms and dormitories.

The project was financed by Shell Exploration and Development Tanzania Ltd.



Photo 4: Students at Mbondo Secondary School in the Evening Study

### **3.13 Climate Smart Agriculture**

TAREA continued with the activities of promoting Climate Smart Agriculture by encouraging the Ministry of Agriculture and the National Commission of Irrigation to use solar irrigation technologies. In 2023 TAREA conducted a learning event for the government authorities of the Ministry of Agriculture, National Irrigation Commission, Ministry of Energy, Ministry of Finance and Planning, Regional Administration and Local Government Authority and Ministry of Water. The learning event was implemented in Iringa (Lupembelwasenga) and Mafinga (Kibidula Farm).

The activity was financed by the Embassy of the Royal Kingdom of the Netherlands.



Photo 5: Government officers visiting Kibidula Farm in Mafinga

### **3.14 Improving Quality of Education at Matekwe Secondary School**

Matekwe village is located in the off-grid remote rural area of Nachingwea District Council in the Lindi region. The Matekwe Secondary School is off-grid. TAREA developed a project to support the school with a solar photovoltaic plant for lighting classrooms and dormitories.

The project is supported by the Embassy of Germany in Tanzania.

### **3.15 Review of the TAREA Constitution 2010**

In 2010 TAREA changed its constitution for the first time when the association changed its name from TASEA to TAREA. In the year 2021 members agreed to review the constitution to improve the association's governance and mainstream practised renewable energy technologies that are not covered by the constitution. In 2022, the Secretariat completed the exercise of collecting members' input and developed a draft document to be presented to the members in the year 2023 for voting. Members approved the draft reviewed constitution for presentation to the Registrar for adoption.

### **3.16 Promote Solar Fishing Lights on the Great Lakes**

TAREA promoted the adoption of solar fishing lights on Lake Victoria. The technology is well adapted. The initiative is also being done for the Lake Tanganyika. Fishermen on the Great Lakes are making solar fishing lights that do not meet the conditions set by the Solar Fishing Regulation endangering the solar fishing lights market. TAREA cooperated with the Ministry for Livestock and Fishery to sensitize the fishermen in Mwanza and Bukoba on the fishing lights regulations. The same actions will be implemented for the Lakes Tanganyika and Nyasa.

The activity was financed by the USAID through the Shell Foundation and GOGLA.

### **3.17 Youth Employability in Solar PV in Tanzania**

TAREA conducted the training of 200 youth on solar photovoltaic technology. The activity aimed at enabling youth employment in solar photovoltaic technology. The training was conducted in cooperation with Arusha Technical College.

The training was financed by the German Government through the program of E4D-GIZ.



Photo 6: Some of the graduates of the training program of E4D-GIZ

### **3.18 Update and Training on the Use of EAE**

TAREA partnered with the World Resources Institute (WRI) to update the Energy Access Explorer and train the renewable energy stakeholders on the use of the platform. TAREA and WRI develop the framework for ensuring the explorer updating. The Energy Access Explorer Tanzania working group was launched by the Assistant Commissioner of Renewable Energy with members from the public and private sectors together with Academics and Research institutions. This enabled the continuous process of ensuring the EAE is frequently updated and updates are validated.

The activity is being financed by the Mott Foundation through WRI.

### **3.19 Facilitation of the International Training**

TAREA Secretariat continued supporting members to access international training opportunities by providing information and recommendations.

Two members started the training which is conducted by LIFE Academy and financed by Sida.

3 members joined the Solar PV Master Degree course in New Delhi through the Ministry of Energy and were financed by the International Solar Alliance (ISA).

### **3.20 Tax Incentives Advocacy**

TAREA submitted 3 requests for tax exemptions to the Ministry of Finance and Planning. The requests were on the VAT exemptions for the solar pumps and solar fishing lights. The third submission was on the exemption of the Excise Duty on solar lead acid batteries. No submission was successful.

The initiatives were financially contributed by USAID through Shell Foundation GOGLA, and the Embassy for the Royal Kingdom of the Netherlands.

### **3.21 Customer Advisory Service**

TAREA continued providing free advisory services to customers who requested information on the renewable energy services providers. TAREA made references to renewable energy service providers and helped clients who faced challenges with service providers.

### **3.22 Participation in Government Engagement**

TAREA participated in the meetings and workshops that were called by the Government authorities as follows.

- i) Development of the Strategy and Roadmap of the Renewable Energy Strategy (Ministry of Energy).
- ii) Development of the Minimum Energy Performance Standards and Labels for fans, refrigerators, televisions, air conditioners and industrial motors (Ministry of Energy).
- iii) Development of Strategy and Roadmap for Energy Efficiency (Ministry of Energy).
- iv) Development of the Vision and Roadmap for the Clean Cooking (Ministry of Energy),
- v) Request the Tanzania Parliament to approve Tanzania joining the International Renewable Energy Agency (Ministry of Energy).
- vi) Participation in the Conference of Parties (COP28) in Dubai financed by GOGLA (Vice-President's Office, Environment).

### **3.23 Learning Event in India**

TAREA participated in the learning event in India (Mumbai and Puna) on the potential of Compressed Biogas and ethanol-blended Petrol in the decarbonizing economy.

The learned lessons will be used to replicate the technologies in mainland Tanzania.

The learning event was financed by the Government of India through the High Commission of India in Dar es Salaam and the Indian Oil Corporation.

### **2.24 Installation of Solar PV System for Matekwe Secondary School**

TAREA with the financial support of the German Foreign Minister through the German Embassy in Dar es Salaam installed two solar photovoltaic systems for the Matekwe Secondary School in Nachingwea District Council. The school is located in the wild animals' passage. Due to the conservation rules, it does not qualify to be connected to the national grid.



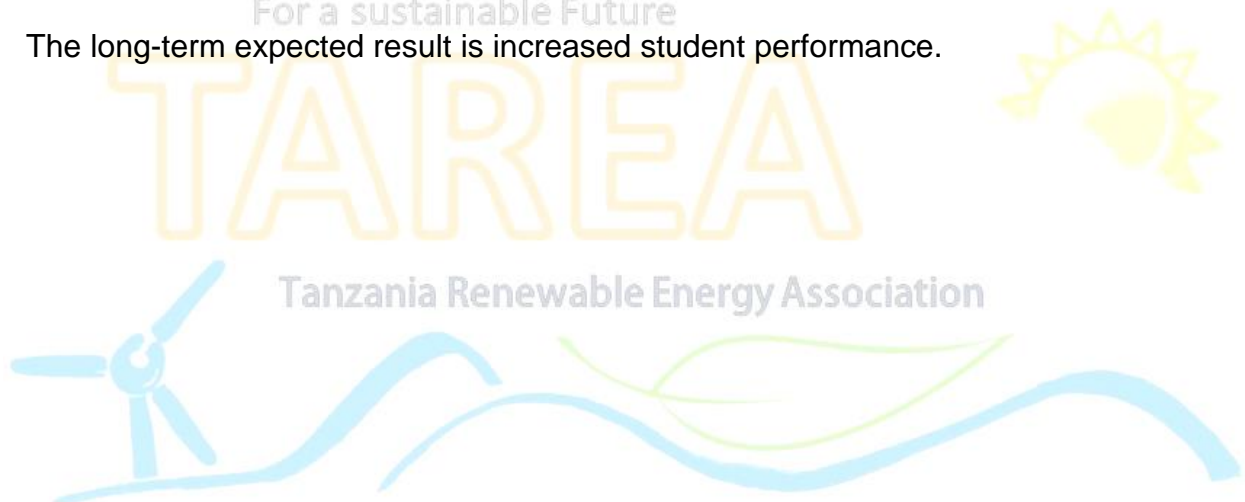
Photo 7: Solar panels for the school compound

The two solar photovoltaic systems supply electricity to the classrooms, dormitories and teachers' offices.

Solar photovoltaic systems have enabled an extended time of learning (evening preparation), increased students' safety and enabled the use of the television.

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The long-term expected result is increased student performance.



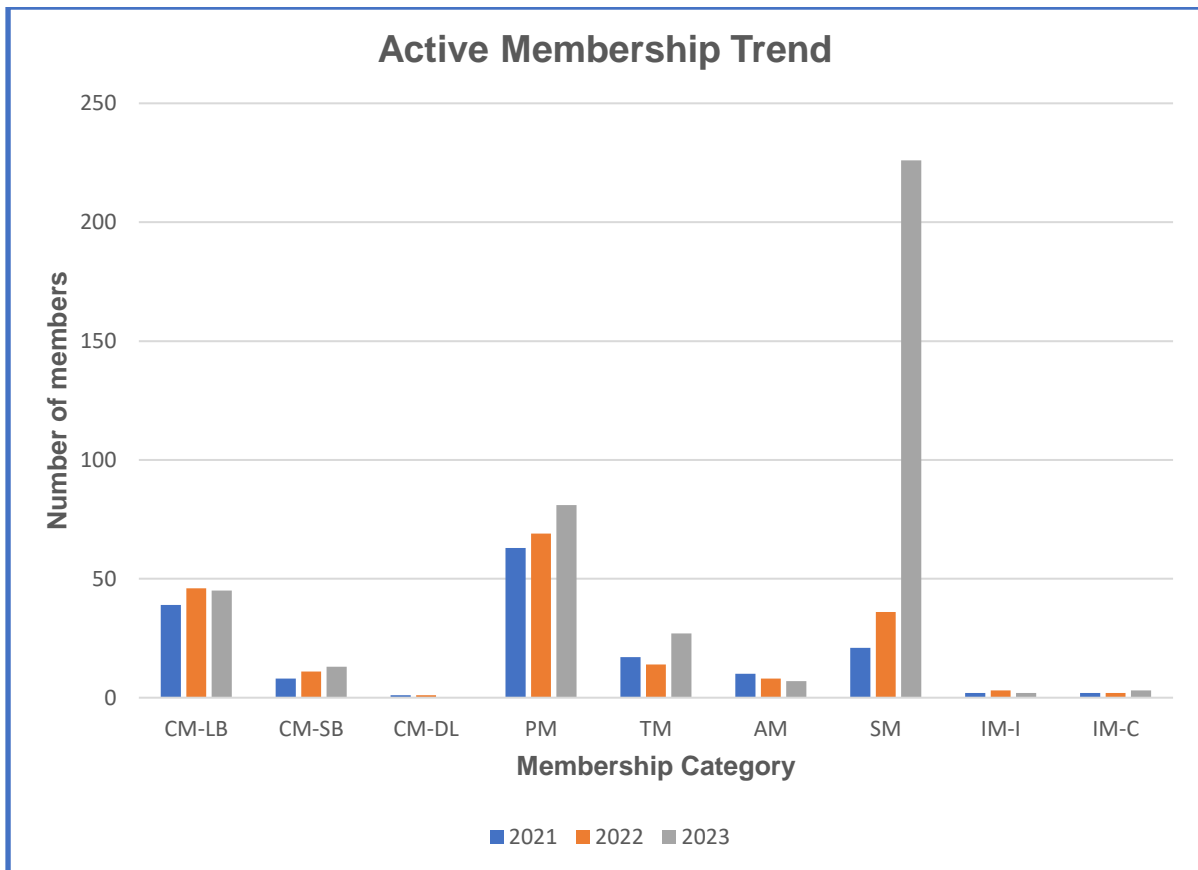


### 3.26 TAREA Membership Recruitment

TAREA has recruited 244 new members in the year 2023. The membership recruitment was at in-country and international levels. The number of active members increased from 190 in the year 2022 to 404 by 31 December 2023.

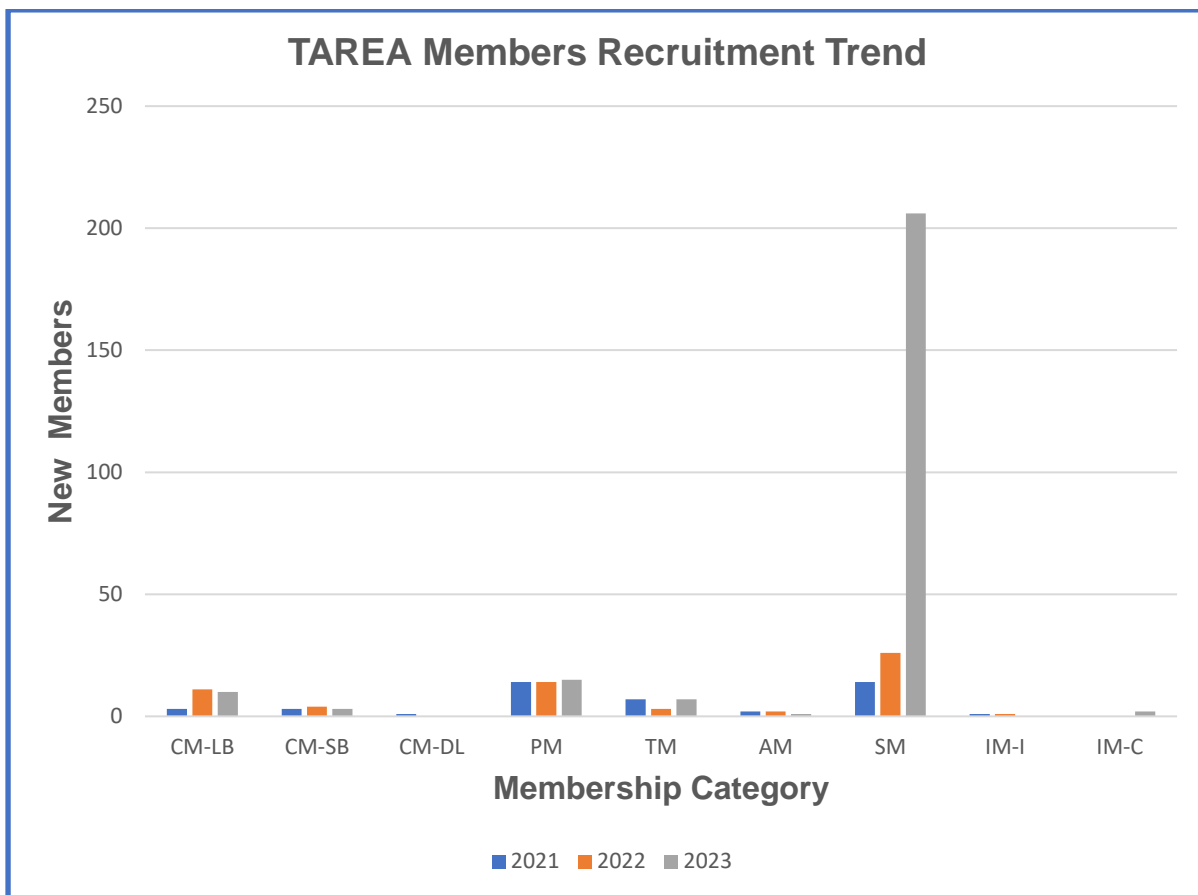
Member category	2021		2022		2023	
	New members	Active members	New members	Active members	New members	Active members
Corporate Member Large Business	3	39	11	46	10	45
Corporate Member Small Business	3	8	4	11	3	13
Corporate Member Dealer	1	1	0	1	-	
Professional Member	14	63	14	69	15	81
Technician Member	7	17	3	14	7	27
Associate Member	2	10	2	8	1	7
Student Member	14	21	26	36	206	226
International Member Individual	1	2	1	3	-	2
International Member Corporate	0	2	0	2	2	3
<b>Total</b>	<b>45</b>	<b>163</b>	<b>61</b>	<b>190</b>	<b>244</b>	<b>404</b>

**Table 1: New members recruitment and active members 2021-2023**



- CM-LB Corporate Member – Larger Corporate
- CM-SB Corporate Member – Small Business
- CM-DL Corporate Member – Dealer
- PM Professional Member
- TM Technician Member
- AM Associate Member
- SM Student Member
- IM-I International Member – Individual
- IM-C International Member - Corporate

**Graph 1: TAREA active membership trend 2021-2023**



- CM-LB Corporate Member – Larger Corporate
- CM-SB Corporate Member – Small Business
- CM-DL Corporate Member – Dealer
- PM Professional Member
- TM Technician Member
- AM Associate Member
- SM Student Member
- IM-I International Member – Individual
- IM-C International Member - Corporate

**Graph 2: TAREA Membership Recruitment 2021-2023**

## 2.27 New Partnership

In 2023, TAREA forged new partnerships. The new partnerships were formed with:

- i) German Embassy in Dar es Salaam to support Matekwe Secondary School in Nachingwea District Council, Lindi Region with solar photovoltaic systems.
- ii) SchuPa Partnerschaft e.V to develop solar photovoltaic and heating systems at Emmaberg Girls High School in Njombe, and
- iii) Herrnhuter Missionswerk e.V to establish solar photovoltaic training at the Moravian Vocational Training Centres in Southern Highland Tanzania
- iv) International Solar Energy Society (ISES): International network for the promotion of renewable energy.

## 3.28 Participation in the National and International Committees

TAREA served the following national and international committees.

- (1) TBS Battery Standards Committee;
- (2) TBS Biomass Standards Committee;
- (3) TBS Biofuels Standards Committee;
- (4) TBS Electrical Energy Standards Committee;
- (5) TBS Electronics Standards Committee;
- (6) TBS Renewable Energy Standards;
- (7) UNDP National Small Projects Steering Committee;
- (8) KRETC Industrial Technical Committee;
- (9) CookFund Project Technical Committee;
- (10) Tanzania Energy Statistics Steering Committee;
- (11) Tanzania Energy Statistics Technical Committee; and
- (12) EELA Steering Committee.

## 4.0 Membership in the Forums and Networks

TAREA is a member of the following national and international forums and networks;

- (1) Alliance of Civil Society Organizations for Clean Energy Access (ACCESS);
- (2) Alliance for Rural Electrification (ARE) Energy Access Investment Forum
- (3) Association of Association Executives;
- (4) Clean Cooking Alliance;
- (5) Climate Technology Centre and Network (CTCN);
- (6) East Africa Renewable Energy Federation (EAREF);
- (7) International Solar Energy Society (ISES);
- (8) PREVENT Waste Alliance;
- (9) Renewable Energy and Energy Efficiency Partnership (REEEP);
- (10) Spix e.V Netzkraft Movement;
- (11) UNDP CSO Advisory Platform (CSOAP); and
- (12) Wind Empowerment;

## 5.0 Audited Accounts for the Year Ending 31.12. 2023

The document of audited accounts for the year ending 31.12.2023 can be accessed [online](#).

## 6.0 Lessons Learned

The following lessons were learned from the implementation of the TAREA activities in 2023:

- (1) Public-private dialogue is a strong tool in the private sector finding its role in the government development plans;
- (2) Gender mainstreaming in renewable energy should be strengthened;
- (3) TAREA should continue to actively participate in the energy transition to ensure the decarbonization of the economy;
- (4) There is increased environmental concern, electronic wastes generated by the renewable energy industry being among the polluters;
- (5) Renewable energy-independent power producers should promote energy for productive uses to strengthen the purchasing power and contribute to the Human Development Index;
- (6) There is a huge potential for renewable energy powering economic activities such as agriculture through irrigation (pumps) hence increasing food production and food availability to the country as well as for export;
- (7) The Government of Tanzania has set the target of an increasing share of renewable energy in the energy mix. It is an opportunity for the private sector to increase renewable electricity fed to the national grid; and
- (8) The Government of Tanzania is considering clean cooking technologies as an important agenda. The private sector has to use this opportunity to scale up the uptake of clean cooking solutions.
- (9) Most of the fossil fuel (oil and gas) companies in Tanzania have energy transitioning targets and have deployed various renewable energy solutions in realizing the need to decarbonize the sector. TAREA to continue seeking forums to sensitize the potentials of renewable energy technologies in the transitioning journey for mainland Tanzania

## 7.0 Future Perspectives

TAREA and its partners should continue to promote the use of renewable, energy-efficient and clean energy technologies as alternative sources of energy for Tanzanian Communities. Efficient energy use and gender should be mainstreamed in all renewable energy programs. Environmental concerns due to electronic waste should be made a high-level agenda. TAREA and partners should increase the promotion of gender mainstreaming in the Continued RE&EE sectors. The awareness campaigns of renewable energy potentials among all the stakeholders from the decision-makers, and policymakers as well as the communities who are the consumers and beneficiaries of the clean renewable energy technologies should be scaled up.

TAREA has to strengthen the networking of all renewable energy actors all over Tanzania to ensure the large population especially rural communities' access to modern renewable and clean energy technologies mainstreaming energy efficiency practices.

## 8.0 Conclusion and Recommendation

TAREA has well positioned itself to join the initiatives of the energy transition.

TAREA will:

- (1) Continue with technical training and information dissemination on renewable energy technologies and services especially Productive Use of Energy (PUE);
- (2) Advocate energy efficiency technologies for buildings and appliances.
- (3) Advocate for the specific technology financial/tax incentives;
- (4) Promote direct use of geothermal heat, green hydrogen/ammonia, biofuel including ethanol blended petrol and diesel, low pressure and compressed biogas plants, wind generators and mills, efficient and clean biomass conversation, mini-hydro and all renewable energy clean cooking solutions;
- (5) Conduct the data collection and updating for the development of renewable energy technologies;
- (6) Ensure the updating of the Energy Access Explore; and
- (7) Strengthen cooperation with partners at local and international levels to implement the objectives of the association.

For a sustainable Future

Signed

TAREA



**Dr.-Ing. Matthew MATIMBWI**  
**Executive Secretary**

Tanzania Renewable Energy Association

Date: 10<sup>th</sup> June 2024

Place: Dar es Salaam

