



TANZANIA RENEWABLE ENERGY ASSOCIATION (TAREA) ANNUAL REPORT 1ST JANUARY TO 31ST DEC, 2021



Left, Deputy Minister of Energy Hon. Adv. Stephen Lujwahuka Byabato (MP) and right, Head of European Delegation His Excellency Manfred Fanti attending Public-Private Stakeholders' Conference and Workshop "Climate Resilience: Mitigation and Adaptation through Renewable Energy" in Dodoma on 13.12.2021

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08.01.2022



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ABBREVIATIONS

AC	Advisory Committee
ACCESS	Alliance of Civil Society Organizations for Clean Energy Access
AGM	Annual General Meeting
bfz gGmbH	Berufliche Fortbildungszentren der Bayerischen Wirtschaft (bfz) gGmbH
BMZ	German Federal Ministry of Economic Cooperation and Development
CO₂	Carbon Dioxide
COVID-19	Coronavirus disease of 2019
CTCN	Climate Technologies Centres Network
DTP	Deutsch Tansanische Partnerschaft Verein
e.V	Verein (association)
EAREF	East Africa Renewable Energy Federation
EC	Executive Committee
EELA	Energy Efficient Lighting and Appliance Association
EnDev	Energizing Development
ENERGIA	International Network on Gender and Sustainable Energy
EU	European Union
EWURA	Energy and Water Utility Regulatory Authority
FLnTF	Five Loaves & Two Fish Corporation
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
Hivos	Humanist Institute for Cooperation with Developing Countries
ICS	Improved Cook Stoves
KRETC	Kikuletwa Renewable Energy Training and Research Centre
kWh	Kilo Watt-hour
Ltd	Limited
m²	Metre square
MP	Member of the Parliament
MW	MegaWatt
NGO	Non-Governmental Organization

PUE	Productive Use of Energy
REA	Rural Energy Agency
REEEP	Renewable Energy and Energy Efficiency Partnership
REN	Renewable Energy Volunteer Program
RET	Renewable Energy Technology
RPLA	Recognition of Prior Learning Assessment
SIDO	Small Industries Development Organization
TANESCO	Tanzania Electricity Supply Company
TANESCO	Tanzania Electricity Supply Company
TAREA	Tanzania Renewable Energy Association
TASEA	Tanzania Solar Energy Association
TASEA	Tanzania Solar Energy Association
TBS	Tanzania Bureau of Standards
TBS	Tanzania Bureau of Standards
TZS	Tanzanian Shilling
Uk	United Kingdom
UNDP	United Nations Development Program
VAT	Value Added Tax
VETA	Vocational Education and Training Authority
VPO	Vice President Office



1.0 Introduction

2021 had been the 20th year for 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 Tanzania Mainland. It was established in 2000 and registered by the Ministry of Home Affairs on 7th 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 922 members (December 2021). Over the years, TAREA has been implementing promotional and capacity-building activities, research, knowledge exchange and sharing, awareness creation, and quality control and advocacy/lobbying for a sound environment for the dissemination of renewable energy technologies. Also, it has been cooperating with renewable energy and energy efficiency in implementing projects.

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.

Objectives of TAREA are:

- 1) To manage knowledge and information dissemination;
- 2) To network public and private renewable energy and energy efficiency stakeholders;
- 3) To support the creation of an enabling environment and framework for a sustainable renewable energy and energy efficiency market; and
- 4) To promote institutional capacity building

2.0 Management

2.1 Executive Committee

The Executive Committee (EC) continued with directing the implementation of TAREA activities through the Executive Secretary of the Association. The term of EC is three years. This committee was to retire in 2020 but due to COVID-19 it was not possible to hold elections and AGM requested members of the Executive Committee to continue for one more year until it is possible to do elections. The election was held on 3rd June 2021,

The Executive Committee consists 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) Mr. Leonard Pesambili (Member);
- (8) Mr. Godwin Msigwa (Member);
- (9) Eng. Lydia Mugarula (Member);
- (10) Eng. Restuta Kokushuliza (Member);
- (11) Ms. Lucy Kileo (Chairperson Northern Zone Branch);
- (12) Eng. Ellison Malyi (Chairperson Lake Victoria Zone Branch) and
- (13) Eng. Ngwisa Mpembe (Chairperson of Advisory Committee).

2.2 Advisory Committee

Advisory Committee (AC) has a term of three years. This committee was to retire in 2020 but due to COVID-19 it was not possible to hold elections and AGM (which was held virtually) requested them to continue for one year until it is possible to do elections. The election was held on 3rd June 2021. It consists 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 6 full-time personnel and 3 volunteers. From time to time, TAREA Secretariat has made use of its members for implementing workshop/meeting/seminar, advisory services, and technical capacity-building activities depending on specific needs.

2.4 Office Space

TAREA office is located at Mandela Road, Mabibo External Block 1080, and Export Processing Zones Authority-Shopping Arcade 17. The office floor is 70 m². In the year 2021, the office space was extended from 35m² to 70m².

2.5 Utilities and Equipment

TAREA had managed to pay salaries, various fees, utilities, internet services, purchase of stationery, maintenance of vehicles, and equipment required for the smooth running of the office. In 2021, TAREA managed to furnish the boarding room.

3.0 TAREA Activities 2021

Underneath are the major activities that were implemented in the period of 1st January 2021 to 31st December 2021.

3.1 Volunteer Programs

TAREA implemented one volunteer (internship) program. It implemented a volunteer program of Renewable Energy Volunteers.

It is the 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 2021 one volunteer was placed at TAREA head office (Dar es Salaam) to practice renewable energy financing. The intern was a graduate in Financing and Banking at the Institute of Finance Management Dar es Salaam. The program is financed by the City of Hamburg through Deutsch Tansanische Partnerschaft e.V (DTP) of Hamburg in Germany.

3.2 Advocacy on the Challenges of Mini-Grids

In July 2020, the Ministry of Energy, then Medard Kalimani, issued tariff directives that required all renewable energy mini-grids to adopt the tariff of TZS 100/kWh.

TAREA conducted the advocacy to the Ministry of Energy to find the solution to the tariff issue.

During the public-private conference workshop Climate Resilience: Adaptation and Mitigation through Renewable Energy that was conducted by TAREA, supported by the EU, on 13.12.2021 in Dodoma, the Ministry of Energy announced that it will resolve the issue of the tariff to make renewable energy mini-grid business viable.

3.3 Registration of East Africa Renewable Energy Federation (EAREF)

East African Renewable Energy Associations teamed to form a sectorial platform of East Africa Renewable Energy Federation (EAREF). The federation is formed by the renewable energy associations of the countries of Burundi, Kenya, Rwanda, Tanzania, and Uganda. TAREA was appointed by the partners to lead the registration in Tanzania.

EAREF was registered on 14.12.2021 by the Ministry of Home Affairs. The activity was implemented with the support of bfz gGmbH of Bayern in Germany.

3.4 Install Institutional Improved Biomass Stoves in Malinyi District

Secondary Schools in Malinyi District were found to consume a lot of firewood for cooking students' meals. The rate of the fuelwood was found to be 360Kg/day/school (0.9Kg/head/day). Each school spends TZS 300,000/month on the firewood.

TAREA conducted a pilot project at Kipingo and Malinyi Day Secondary School to introduce the use of the improved biomass stoves. Each school received 2 stoves, 200 liters each.

The results of the pilot intervention were reduced wood consumption and financial expenditure by 50%. The project was implemented in cooperation with the partner URBIS Foundation of Bayern, Germany.

3.5 Policy Dialogue on the Solar Irrigation for the Smallholder Agriculture

Climate change has affected smallholder agriculture in Tanzania. Rainy seasons are not reliable and the dry season is much extended.

To help farmers mitigate the situation, TAREA conducted a dialogue with the Government of Tanzania to create enabling environment for the smallholder farmers to access solar irrigation technologies. TAREA dialogued with the Ministry of Agriculture and National Commission of Irrigation to adopt solar irrigation pumps technologies for the implementation of the Irrigation Master Plan and mainstream the technology in the extension services. TAREA worked with the Tanzania Bureau of Standards to adopt solar pumps standards to ensure that farmers access quality pumps in the market. Also, TAREA advocated the Ministry of Finance and Planning for the solar irrigation pumps VAT exemptions. Members ENGIE Mobisol Uk Ltd and Simusolar Tanzania Ltd contributed to the demonstration installations of solar irrigation pumps at Nane-Nane Grounds in Dodoma that will be used for awareness-raising.

The project resulted in the Ministry of Agriculture and the National Commission for Irrigation adopting the solar irrigation technologies and agreeing to add the solar irrigation technology into the extension programs. The advocacy of VAT exemption on the solar irrigation pumps was not successful. TAREA plans to resubmit the request. The project was implemented in cooperation with the Embassy of the Kingdom of the Netherlands through Energy Transition Facility-Netherlands.

3.6 Enabling the Employability of Young Women in Masasi

Masasi district is one of the districts that experience high rates of school girls' dropouts due to pregnancy and family poverty. Some girls are married underage making marriage be a burden to them. Others end up being housemaids, barmaids and prostitutes to get daily bread.

Since there is a high potential for the solar photovoltaic market in Masasi District, TAREA initiated a project of enabling the livelihood of the disadvantaged girls to become solar photovoltaic artisans that they can employ themselves. The project runs from 01.05.2021 to 30.04.2022. The intervention included community awareness on the ability of girls to become

solar artisans, and training girls on the theory and practice of solar photovoltaic technology at the level of the solar home systems. Then followed by a two months internship working under experienced solar photovoltaic artisans. The girls have been provided with an electrical toolbox that they can start working on after training. There are 20 trainees. The total number of interested girls were 77.

The project was well received by the girls of Masasi District as there were 55 girls that TAREA could not enrol. After the completion of the ongoing training, TAREA will scale up the program to support the remaining girls.

The intervention is implemented by the cooperation of TAREA and the Humanist Institute for Co-operation with Developing Countries (Hivos) through the International Network on Gender and Sustainable Energy (ENERGIA) of the Netherlands, Other funders are the Energising Development Strategic Partnership (EnDev) and Modern Energy Cooking Services (MECS).

3.7 Print and distribute TAREA Success Stories

2021 was the 20th anniversary of TAREA. TAREA planned to print a booklet that presents selected activities implemented in 20 years.

TAREA printed and distributed 2,500 of the booklet. The booklet was distributed in Tanzania and partner countries.

The Success Stories increased visibility that new organizations are contacting TAREA for the partnership in scaling up the adoption of renewable energy and energy efficiency. The booklet was printed and distributed in cooperation with the partner bfz gGmbH of Bayern, Germany.

3.8 Net Metering Scheme 2018 Dialogue

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 installation of the solar photovoltaic systems of or equal to 1MW, TAREA initiated the dialogue with TANESCO in December 2021 to enable the realization of the scheme.

3.9 VETA Developing RPLA for Solar Artisans

In 2015 EWURA enacted a law that requires electricity installers to hold a licence from the authority. Most of the solar photovoltaic artisans were trained informally as Vocational Education and Training Authority (VETA) is not training artisans on renewable energy technologies. Therefore, making them not possible to apply for the license as do not hold recognized certificates.

In 2019, TAREA initiated the dialogue with VETA to implement the Recognition of Prior Learning Assessment (RPLA) to the renewable energy artisans to enable them to apply for the electricity installation license with EWURA.

There are two steps to be completed before solar photovoltaic artisans go under RPLA. The first step is developing the tools, and the second step is training the assessors. In May 2021, TAREA facilitated developing renewable energy assessment tools covering technologies of solar photovoltaic, solar water heater, mini-hydro, wind, biomass stove, biogas and wind. TAREA facilitated the development of RPLA tools in cooperation with a partner bfz gGmbH of Bayern, Germany.

TAREA is working to mobilize resources for training VETA RPLA assessors.

3.10 Supporting LIFE Academy Capacity Building Program

LIFE Academy of Sweden is implementing a program of Global Capacity Building on Renewable Energy. The first two batches attracted 60 high-level experts from Ethiopia, Kenya, Tanzania, Mozambique, Zambia, and Zimbabwe. The third batch attracted 30 experts from Ethiopia, Kenya, Tanzania, Rwanda, Uganda, and Zimbabwe. TAREA is supporting the training providing services of hosting and mentoring. The program is financed by Sida.

3.11 Supporting Enzkreis Works in Masasi District

The German District of Enz (Enzkreis) has partnered with Masasi District Council and Masasi Town Council to implement the project “Promotion of education and training through the use of renewable energies, the establishment of an environmental education centre and CO₂ compensation measures in Masasi” from 01.01.2021 to 31.12.2023. TAREA participates in the project as the third part partner providing technical support.

The project impacts will be increased secondary school performance and increased knowledge on practices that reverse the climate change trend.

The project is financed by BMZ through Engagement Global and Enzkreis.

3.12 Conduct Public-Private Dialogue on Climate Resilience

TAREA conducts National Renewable Energy Day annually. In the year 2021, instead of the National Renewable Energy Day, TAREA conducted the event of Public-Private Stakeholders’ Conference and Workshop “Climate Resilience: Mitigation and Adaptation through Renewable Energy”. The conference was conducted in person and virtually. It attracted more than 130 participants.

The conference was officiated by the Deputy Minister for Energy Hon. Adv. Stephen Lujwahuka Byabato (MP). The conference was honoured by the Head of European Delegation to Tanzania His Excellency Manfredo Fanti. The main topics of the conference were:

- 1) Private Sector Roles on Off-grid Electrification: Policies, Regulations, Opportunities, Challenges and Proposed Solutions.
- 2) Productive Use of Energy in the Rural Settings, Agriculture, Business and Small Industries, possible strategies to increase productive use of electricity.
- 3) Clean Cooking: How can Tanzania Halve Usage of Unsustainable Biomass for Cooking by 2030.
- 4) Large Scale Grid-Connected Renewable Energy Producers: Challenges and Opportunities.

The outcomes of the conference were:

- 1) Government of Tanzania revisiting the agenda of the renewable energy mini-grids electricity tariffs
- 2) Government of Tanzania increasing opportunities of Public-Private Dialogues. The private sector was requested to be transparent.
- 3) To increase public-private partnership in enabling productive use of energy.
- 4) Government of Tanzania to increase involvement in clean cooking technologies. It is preparing a cooking energy action plan.
- 5) Government of Tanzania to increase the renewable energy share in the energy mix.

TAREA cooperated with the European Union Delegation to Tanzania in realizing the conference.

3.13 Biomass Policy Dialogue

The uptake of clean and efficient biomass cooking technologies is still very low in Tanzania. TAREA partnered with member SNV Netherlands to implement the program of biomass policy dialogue that aimed at creating enabling environment that promotes efficient and clean biomass cooking technologies. The engagement started in February 2020 to January 2022.

The outputs to date of the dialogue are:

- 1) Finding coordinating authority of the biomass cooking technologies, Vice President Office.
- 2) Ministry of Energy through REA developing Cooking Energy Action Plan.
- 3) Disseminated TBS Cookstove Standards in 4 zonal training.
- 4) Developed Improved Cookstove manufacturers database
- 5) Conducted a workshop to determine the formation of a clean cooking platform
- 6) Dialogued with the Ministry of Health on establishing data on the impacts of the indoor air pollution
- 7) Dialogued with REA on adding the component of cooking appliances when assessing the uptake of energy for cooking
- 8) Submitted stakeholders' proposals of incentives to clean cooking technologies that have been included in the draft Energy Cooking Action Plan.
- 9) Dialogued with SIDO on supporting the ICS producers.
- 10) Worked with TBS to develop enabling environment for ICS producers to test their products.

The engagement is implemented through the financial contribution of GIZ through EnDev.

3.14 Development of MEPs for Refrigerators and Distribution Transformers

TAREA cooperates with CLASP that works to develop Minimum Energy Performance Standards for the refrigerators and distribution transformers for Tanzania. The program runs from 1 March 2021 to 31 July 2022.

The program aims at establishing the framework of the use of energy-efficient refrigerators and distribution transformers and reducing negative impacts that are caused by the use of refrigerators and distributions transformers.

The program is financed by the Green Climate Fund of the United Nations.

3.15 Introducing Solar Fishing Light on the Lake Tanganyika

After the successful introduction of the marketing of solar fishing light on Lake Victoria, shallow water lake, TAREA initiated the activity of replicating the success on Lake Victoria to the Lake Tanganyika. If the mission to the Lake Tanganyika, with deep water, is successful the solar fishing light will be also introduced to Lake Nyasa that has also deep water.

In 2021 TAREA conducted a public and private stakeholders' workshop in Kigoma to introduce the activity and ask for the stakeholders' support. The public stakeholders promised to provide support when they are requested to do so.

TAREA cooperates with bfz gmbH and Five Loaves & Two Fish Corporation (FLnTF), of Germany and South Korea, respectively.

3.16 Rehabilitation of Water Supply at Catholic Mbingu Centre

Catholic Mbingu Centre is a development centre run by Franciscan Sisters of Charity of the Diocese of Mahenge. The centre runs children care centre, animal husbandry farm, fish farm, crops farm, girls secondary school, health centre and conference centre. The centre is supplied with gravity water from a catchment on the Udzungwa Mountains. In the year 2020, the heavy rains washed away the catchment and pipes.

Franciscan Sisters of Charity received support from Balderg Sisters of Switzerland and Nord-Süd Initiative e.V of Berlin, Germany to carry out rehabilitation of the water supply system. The support from Nord- Süd Initiative e.V was provided through Power4Africa e.V of Dresden, Germany.

TAREA participated in the implementation of the project to do monitoring representing the partner Power4Africa e.V

The project outputs were rehabilitated catchment and pipe network and constructed new water tank with the water treatment plant.

3.17 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 governance and mainstream practised renewable energy technologies that are not covered by the constitution.

TAREA initiated the exercise by forming a constitutional task force and collecting the member opinions. The activity was financed by bfz gmbH.

The output was the draft reviewed constitution.

3.18 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 Bio Fuel 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; and
- 9) EELA Steering Committee.

3.19 TAREA Membership

Secretariat has recruited 45 new members. The membership recruitment was in-country and international levels. The number of members increased from 877 of the year 2020 to 922 by 31 December 2021.

Member category	2020		2021	
	New registration	Members Total	New registration	Members Total
Corporate Member Large Business	4	93	3	96
Corporate Member Small Business	3	67	3	70
Corporate Member Dealer	0	8	1	9
Professional Member	16	196	14	210
Technician Member	9	187	7	194
Associate Member	1	64	2	66
Student Member	12	243	14	257
International Member Individual	0	7	1	8
International Member Corporate	0	11	0	11
Total	45	877	45	921

In the year 2021 TAREA lost 1 member of death, Eng. Leo Msanga.

3.20 New Partnership

In 2021, TAREA forged the new partnerships. The new partnerships were formed with:

- 1) Elektriiker ohne Grenzen (EoG).
EoG is the German NGO formed by young electricians to implement solar energy projects for community support around the world.

TAREA will cooperate with EoG to develop solar systems at Baga Secondary School, Baga Village in Lushoto District.

- 2) Institute of World Research (IWR)
World Resources Institute is a non-profit organization organized under the laws of Delaware, with its offices located at 10 G Street NE Suite 800, Washington, DC 20002

TAREA will cooperate with IWR in the activities on Scaling renewable energy markets in Tanzania with geospatial data and analysis.

3.21 Internship

In the year 2021, TAREA hosted one professional intern from France. Mr. Anas Daframe came to learn about the market of renewable energy in Tanzania.

4.0 Membership to the Forums and Networks

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

- (1) Alliance of Civil Society Organizations for Clean Energy Access (ACCESS);
- (2) Climate Technology Centre and Network (CTCN);
- (3) Renewable Energy and Energy Efficiency Partnership (REEEP);
- (4) Wind Empowerment;
- (5) Spix e.V Netzkraft Movement;
- (6) Clean Cooking Alliance;
- (7) East Africa Renewable Energy Federation (EAREF);
- (8) Global Offgrid Lighting Association (GOGLA) and
- (9) Association of Association Executives.
- (10) PowerforAll

5.0 Partners

In 2021, TAREA worked with the following partners.

- (1) Alliance for Rural Electrification (ARE)
- (2) Arusha Technical College (ATC)
- (3) Associazione Microfinanza e Sviluppo Onlus
- (4) bfz gGmbH
- (5) Deutsch-Tansanische Partnerschaft e.V (DTP)
- (6) Elekriker ohne Grenzen e.V (EoG)
- (7) Landratsamt Enzkreis
- (8) Hivos Netherlands
- (9) LIFE Academy
- (10) Embassy of the Kingdom of the Netherlands in Tanzania
- (11) Masasi District Council
- (12) Masasi Town Council
- (13) Malinyi District Council
- (16) Power4Africa e.V
- (17) SNV-Netherlands
- (18) Sida
- (19) URBIS Foundation
- (20) European Delegation to Tanzania

6.0 Financial Report



TANZANIA RENEWABLE ENERGY ASSOCIATION
FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2021
STATEMENT OF COMPREHENSIVE INCOME

	Notes	31/12/2021 TZS	31/12/2020 TZS
INCOME	10.0	401,805,451	242,275,626
Expenditure			
Members General Meeting		3,740,000	300,000
Executive committee Expenses		1,715,500	3,111,800
Volunteer Allowances		9,342,000	5,040,000
Seminars Energy Workshops		1,265,800	1,427,300
Projects Implementation Expenses		251,671,567	100,336,826
Consulting Fees Payments		900,000	1,000,000
Printing (TAREA Magazine Brochures)		2,355,944	1,050,000
Depreciation		12,141,662	8,918,849
Salaries		95,945,100	61,415,875
NSSF Pension Contributions		9,593,760	7,912,290
Skills and Development Levy		1,918,752	3,587,960
Housing Allowance		0	14,370,000
Workers Compensation Fund		831,018	746,442
Staff Transport Allowance		7,000,000	7,000,000
Staff Health Insurance		0	8,516,100
Office Rent		9,978,605	6,876,660
Equipment Maintenance		360,000	550,000
Communication Costs		7,970,000	7,890,000
Audit Fees		2,950,000	2,950,000
Bank charges		1,164,820	1,144,506
General Office Expenses		5,099,265	2,271,696
Motor Vehicle Repairs and Maintenance		3,331,000	2,922,220
Total Expenditure		429,274,793	249,338,524
Surplus/(Deficit) for the Year		(27,469,342)	(7,062,898)
Accumulated Surplus Brought Forward		85,571,905	92,634,803
Accumulated Surplus Carried Forward		58,102,563	85,571,905

Note 1 to 12 form an integral part of these accounts

Chairperson Paul Date 25th May 2022 Executive Secretary M. M. M. M. M.

10.0 INCOME

Receipts - Membership Fees	21,770,579	20,874,684
Project Support operational cost	40,626,528	50,966,565
Grant Receipts	325,118,344	136,706,825
Advert on Web Page	800,000	800,000
Sale of T-Shirts/Used Items	0	1,555,000
Contributions Income	6,490,000	26,372,552
Exhibition Fees	2,000,000	0
TAREA- Motor Vehicle running cost contribution	5,000,000	5,000,000
Total Income	401,805,451	242,275,626

7.0 Lessons Learned

The following lessons were learned from the implementation of the TAREA activities in 2021:

- (1) Public-Private Dialogue is strong in the private sector finding its roles in the government development plans.
- (2) Gender mainstreaming in renewable energy should be strengthened;
- (3) Financial constraints hinder the implementation of TAREA activities and the outbreak of pandemic COVID-19 has increased the constrain;
- (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 of 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 in increasing renewable electricity fed to the national grid; and
- (8) The Government of Tanzania is considering clean cooking technologies as important agenda as it is in the process of developing a Cooking Energy Action Plan.

8.0 Future Perspectives

TAREA and the partners have the obligation of continuing to promote the use of renewable, energy-efficient and clean energy technologies as alternative sources of energy for Tanzanian Communities. Efficient energy use should be mainstreamed in all renewable energy programs. Environmental concern due to the electronic wastes should be made a high-level agenda. Continued strengthening the awareness campaigns of renewable energy potentials throughout all the stakeholders from the decision-makers, policymakers as well as the communities who are the consumers and beneficiaries of the clean renewable energy technologies.

TAREA has to strengthen the networking of all renewable energy actors all over Tanzania to ensure the large population especially rural communities access modern renewable and

clean energy technologies. TAREA has to design proper coping strategies for enduring its implementation specifically during critical times for instance pandemic times such as the COVID-19

9.0 Conclusion and Recommendation

TAREA has been hit hard by the pandemic COVID-19 financially as well as socially. Despite that TAREA strive its way and managed to perform its activities as planned although many activities could not be able to secure funds as foreseen during planning. As COVID-19 might be there to stay TAREA should design ways of implementing its activities in a safe environment and work to accomplish activities that could not be implemented.

As such the previous recommendations still 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 of building and appliances.
- (3) Advocate for the specific technology financial/tax incentives;
- (4) Promote geothermal, hydrogen, small scale biofuel, biogas plants, wind generators, efficient biomass stoves and fuels, and mini-hydro;
- (5) Conduct the data collection to establish the development trend of RE technologies;
- (6) Strengthen cooperation with partners at local and international levels to implement the objectives of the association.

Signed

Tanzania Renewable Energy Association



Dr.-Ing. Matthew MATIMBWI
Executive Secretary

Date: 08th January 2022 Place: Dar es Salaam

Appendix 1: Partnerships, Memberships and Forums

ACCESS



Alliance for Rural Electrification



Arusha Technical College



Association of Association Executives



Associazione Microfinanza e Sviluppo Onlus



bfz gGmbH



Climate Technologies Centre and Networks (CTCN)



Deutsch-Tansanische Partnerschaft e.V



Elektriker ohne Grenzen e.V



Enzkreis



GOGLA



Hivos



LIFE Academy



Masasi District Council



Masasi Town Council for a sustainable Future



Mutina Group GmbH



OffgridSun Srl



Power4Africa e.V



PowerforAll



Renewable Energy and Energy Efficiency Partnership



SNV-The Netherlands International Development Organization

Spix e.V Netzkraft Movement



Swedish International Development Agency



URBIS Foundation



WindEmpowerment



World Research Institute

