



Kingdom of the Netherlands

# Proceedings of the 14th Tanzania National Renewable Energy Day 29-30.11.2019 Mnazi Mmoja Grounds, Dar es Salaam



## **Cover Photo**

Minister for the Industry and Trade Hon. Innocent Lugha Bashungwa (MP) visiting the exhibition booth of the leading local company Envotec manufacturing household and institutional efficient clean improved cook stoves.

**17<sup>th</sup> December, 2019**

**Event Implementer**

Tanzania Renewable Energy Association (TAREA)

P.O. Box 32643

Dar es Salaam

Mandela Road, Plot 1080 Mabibo External, Export Processing Zones Authority (EPZA), Shopping Arcade 17

Email: info@tarea-tz.org      Tel: +255 765 098462

Website: www.tarea-tz.org

**Event Main Sponsor**

Embassy of the Kingdom of the Netherlands

P.O. Box 9534

Dar es Salaam

Umoja House, Hamburg Avenue

Email: dar@minbuza.nl      Tel: +255222194000

Website: <http://tanzania.nlembassy.org>



Kingdom of the Netherlands

# Table of Content

Abbreviations .....	ii
Acknowledgement.....	iii
1.0 Introduction.....	4
2.0 Organization and Implementation of the Event.....	5
2.1.0 Event Preparation .....	5
2.1.1 Mobilization of the Authorities.....	5
2.1.2 Mobilization of the Service Providers.....	5
2.1.3 Production of the Communication Materials .....	6
2.1.4 Event Publicity .....	6
2.1.5 Event Venues .....	7
2.2.0 Event Realization .....	7
2.2.1 Event Opening.....	7
2.2.2 Exhibitions .....	8
2.2.3 Workshop .....	13
2.2.4 Entertainment .....	17
2.2.5 Event Closing .....	17
3.0 Observations and Recommendations.....	20
3.1 Observations .....	20
3.2 Recommendations .....	20
Appendix 1: Exhibition Schedule .....	21
Appendix 2: Workshop Schedule .....	23
Appendix 3: Media Prints Extracts.....	25
Appendix 4: Contacts of Sponsors and Exhibitors .....	26

## Abbreviations

<b>ACCESS</b>	Alliance of Civil Society Organizations for Clean Energy Access
<b>AfdB</b>	African Development Bank
<b>CAMARTEC</b>	Centre for Agricultural Mechanization and Rural Technologies
<b>COSTECH</b>	Commission for Science and Technology
<b>DAAD</b>	Deutscher Akademischer Austauschdienst
<b>EIA</b>	Environment Impact Assessment
<b>EU</b>	European Union
<b>EWURA</b>	Electricity and Water Utility Regulatory Authority
<b>FM</b>	Frequency Modulation
<b>Hon.</b>	Honourable
<b>ITV</b>	Independent Television
<b>Ltd</b>	Limited
<b>MP</b>	Member of Parliament
<b>PORALG</b>	President Office Regional Administration and Local Government
<b>PPA</b>	Power Purchase Agreement
<b>REA</b>	Rural Energy Agency
<b>SE4ALL</b>	Sustainable Energy for All
<b>SPP</b>	Small Power Project
<b>SPPA</b>	Small Power Purchase Agreement
<b>TANESCO</b>	Tanzania Electricity Supply Company
<b>TAREA</b>	Tanzania Renewable Energy Association
<b>TBC</b>	Tanzania Broadcasting Corporation
<b>TBS</b>	Tanzania Bureau of Standards
<b>TEMDO</b>	Tanzania Engineering and Manufacturing Design Organization
<b>TIRDO</b>	Tanzania Industrial Research and Development Organization
<b>TRA</b>	Tanzania Revenue Authority
<b>UNIDO</b>	United Nations Industrial Development Organization
<b>VPO</b>	Vice President Office

## **Acknowledgement**

TAREA Secretariat wishes to extend appreciations to the: development partner Embassy of the Kingdom of the Netherlands; and exhibitors: Energy Plus Ltd; EWURA; Chloride Solar; and Consortium of Solar Sister & Brac Maendeleo Tanzania for providing financial contributions that at most facilitated the conduction of the 14<sup>th</sup> Tanzania National Renewable Energy Day at Mnazi Mmoja Grounds in Dar es Salaam from 29<sup>th</sup> to 30<sup>th</sup> November, 2019.

Further, TAREA Secretariat extends its appreciation to the government authorities of: Police Force; Ilala District Medical Officer; Ilala Municipal Council; Dar es Salaam Regional Commissioner that provided permissions and services to the event of 14<sup>th</sup> Tanzania National Renewable Energy Day.

Last but not least, TAREA Secretariat is appreciating development partners (EU; UNIDO; UNCDF, AfdB; SMEC), companies, NGOs and government agencies that participated in the exhibitions and workshop, namely: TBS; EWURA; REA; Prison Department; TIRDO; TEMDO; CAMARTEC; SNV Netherlands; Simu Solar Ltd; Baraka Solar Specialists Ltd; Envotec Ltd; Chloride Solar; Davis & Shirliff (T) Ltd; Ensol (T) Ltd; Wraptec Engineering Co. Ltd; d.light; CRDB; TIB Investment Bank; Bank of Tanzania; Ministry of Energy; Embassy of the Kingdom of the Netherlands

## 1.0 Introduction

National Renewable Energy Day is an annual event that is conducted with the purpose of advocating to the authorities and raising awareness to the communities on the potentials of the renewable energy technologies. 14<sup>th</sup> National Renewable Energy Day that was conducted at Mnazi Mmoja Grounds in Dar es Salaam from 29<sup>th</sup> to 30<sup>th</sup> of November, 2019 consisted major activities of technology exhibitions and workshop.

The theme of the 14th National Renewable Energy Day was “**Renewable Energy to Complement Tanzania Industrialization by 2025**”.

In the exhibitions, various technologies were presented. Renewable energy technologies that were presented are: solar photovoltaic technologies (pico-solar, solar home systems, solar plants, insect killers, solar water pumping, and solar street lights); solar water heaters; briquettes; bio gas; and improved cook stoves.

In addition to the technology exhibitions, there was a booth of EWURA at which visitors had opportunity of learning different regulations. EWURA distributed printed materials that gave directives on how electricity installers can obtain license from the regulator.

Workshop provided a platform for the public and private sectors to exchange knowledge on various matters related to the regulations, strategies and policies on the technologies of biomass for cooking and renewable energy electricity.

## **2.0 Organization and Implementation of the Event**

TAREA formed a committee consisting of members that supported the process of the event preparation to the implementation. Members of the committees supported with mobilization of the authorities; service providers; and implementation of the event. The membership of the committee attracted company and individual members.

### **2.1.0 Event Preparation**

Preparation of the event consisted of:

- (1) Developing the schedules of the event;
- (2) Inviting Ministries and Government Agencies in Dodoma and Dar es Salaam;
- (3) Inviting development partners in Dar es Salaam
- (4) Contacting Government Authorities in Dar es Salaam for permissions and services (use of public grounds; medical service; police gathering permission; police security; permission of installation of street banners and Public Audience advertisement)
- (5) Contacting private service providers like: hotel venue for the workshop; information materials printing; vehicle public event announcement; tents provider; Public Audio; event moderations; street banners' installation; and ground cleanness
- (6) Mobilization of media: blogs; radio, televisions and newspapers

#### **2.1.1 Mobilization of the Authorities**

Renewable Energy Day Committee worked on inviting the authorities. The invitations were sent to the following authorities: Hon. Prime Minister; VPO Minister Responsible for Environment and Union Affairs; EWURA; REA; Ministry of Energy; Ministry of Industry and Trade; Ministry of Agriculture; Livestock and fisheries; Ministry of Finance; Ministry of Home affairs; Ministry of Health; Ministry of Education; and PORALG, COSTECH; Tanzania Bureau of Standards (TBS); TIRDO; NEMC; Tanzania Revenue Authority (TRA); Bank of Tanzania; Dar es Salaam Regional Commissioner; European Union; Embassy of the Kingdom of the Netherlands; and Indian Embassy. Other invitees consisted of: Bank of Africa; CRDB; TIB Investment Bank; AfdB; SNV Netherlands; and FORUM Climate Change.

#### **2.1.2 Mobilization of the Service Providers**

Renewable Energy Day Committee mobilized different service providers. The service providers were for: printing communication materials; exhibition venue services (tents, electricity, furniture; cleaning; night security); first aid; day security; workshop venue and meals; music entertainment and Public Audience; street banners installation/removal; media; and street event announcement.

### 2.1.3 Production of the Communication Materials

Renewable Energy Day Committee organized printers of the communication materials. Communication materials was printed with messages to encourage the use of renewable energy technologies and logos of the major sponsors.



*Photo 1: His Excellency Ambassador Jeroen Verheul of the Kingdom of the Netherlands visiting TAREA booth*

The communication materials that were produced were: T-Shirts; cloth bags; notebooks; street banners; clutch pens; flag (drop) banners; and wall banners.

### 2.1.4 Event Publicity

Renewable Energy Day Committee publicized the event through: street banners; street public announcement; private and government newspapers (Mwananchi and Daily News), appendix 3; radio live talks (TBC FM, Wapo Radio); Television (TBC 1) and blogs (Global Publishers General Enterprises, The habari blogspot and Issa Michuzi blogspot). Further, TAREA used its social media handles to publicize the event, namely: Facebook; Twitter; LinkedIn; and enewsletter. The publicity of event was extended to other social media of ACCESS; Foundation for Civil Societies; and Tanzania DAAD Alumni.

The proceedings of the event were made public through media of: Habari Leo; Daily News; Sunday News; Majira; Nipashe; Mwananchi; Tanzania Daima; TBC 1 Television; Channel Ten Television; Radio Uhuru; ITV; Azam Television, Facebook; Twitter; TAREA enewsletter; and LinkedIn.

### **2.1.5 Event Venues**

Venues of the event were Mnazi Mmoja Grounds and Peacock Hotel. Technology exhibitions and speeches of the guest of honours were held at Mnazi Mmoja Grounds. Mnazi Mmoja Grounds were selected because they are at the heart of the City of Dar es Salaam where most of the people are available in a day time.

Workshop was held at Peacock Hotel. The hotel is located at a walking distance to the exhibition grounds of Mnazi Mmoja.

### **2.2.0 Event Realization**

The event realization consisted of workshop for one day and technology exhibitions for two days.

#### **2.2.1 Event Opening**



*Photo 2: Hon. George Simbachawene, VPO Minister for Environment and Union Affairs, in the presence of the Ambassador for the Kingdom of the Netherlands, opening the event of National Renewable Energy Day 2019*

The event was officialised by Minister in the Vice Presided Office Responsible for Environment and Union Affairs Hon. George Simbachawene (MB) in the presence of Chief Commander of Fire Brigade; His Excellence Ambassador for the Kingdom of the Netherlands Mr. Jeroen Verheul; and representatives of the Ministry of Energy.

Hon. Simbachawene visited all exhibitions before delivering the event opening speech to the public.

The speech of Honourable Minister was preceded by a word from His Excellence Ambassador of the Kingdom of the Netherlands Mr. Jeroen Verheul. The Ambassador presented the scenario of involvement of his country in the sector of the renewable energy. He said that the Kingdom of the Netherlands has been using renewable energy technologies for the past 500 years. He recommended the Government of Tanzania to come with good enabling environment regulations for the use of renewable energy in Tanzania.

Welcoming the Minister in the Vice President Office Responsible for Environment and Union Affairs, TAREA Vice Chairperson Eng. Prosper Magali presented a speech. In his speech, he remarked underneath issues:

- (1) Government of Tanzania to develop policy and guidelines that will promote the sustainable use of biomass energy for cooking to reverse the environment degradation;
- (2) Government of Tanzania to develop regulations on e-waste management to protect environment; and
- (3) Thanks to the Government of Tanzania on reviewing EIA procedure for the small solar projects; instituting the Checklist instead of the Full EIA.

Hon. Simbachawene remarked the following issues:

- (1) Strengthening efforts of changing behaviours of Tanzanians using dirty sources of energy for cooking and switching to the environmental friendly technologies like using briquettes;
- (2) Initiating and strengthening manufacturing of renewable energy products locally as to decrease costs and increase availability, being impressed by locally manufactured clean cooking stoves;
- (3) Reducing importation of second hand products to reduce wastes in our environment;
- (4) Government of Tanzania is developing regulations on the management of the electronic wastes in the efforts of protecting environment; and
- (5) Private sector working with the Government of Tanzania in decreasing the use of charcoal and firewood to save forestry.

## **2.2.2 Exhibitions**

The exhibitions consisted of the technology shows and information dissemination. The exhibitors consisted of the following actors:

(1) Tanzania Renewable Energy Association (TAREA)

TAREA provided information to the visitors on: how to recognize substandard solar modules; the roles of advising the end users on how to procure/access quality renewable energy services; and advocacy on the enabling environment for scaling up the use of renewable energy technologies. Further, TAREA distributed free of charge a booklet “Mafunzo ya Umeme Jua” to the interested visitors. The book is written in Swahili to enable majority Tanzanians to access the knowledge.



*Photo 3: TAREA booth disseminating information on renewable energy technologies*

(2) d.light

d.light is the company that sales pico solar products. It presented its range of products including solar powered television.

(3) Brac & Solar Sisters

It was the consortium of Brac Maendeleo Tanzania and Solar Sister. The consortium presented the pico solar products and financing scheme. The consortium works to disseminate pico solar products while promoting female entrepreneurship.

(4) Tanzania Engineering Manufacturing Design Organization (TEMDO)

It is a state owned organization that works to innovate and develop modern technologies. TEMDO presented hybrid renewable energy system consisting technologies of solar and wind that operates in Ngorongoro National Park. The hybrid system provides clean electricity to the national park.

(5) Tanzania Industrial Research and Development Organization (TIRDO)

TORDO presented its involvement in the development of clean cooking fuel of briquettes. TIRDO is involved in the development of the uses of other renewable energy technologies like solar agricultural products drying.



*Photo 4: His Excellency Jeroen Verheul visiting booth of Brac & Solar Sisters*

- (6) Centre for Agricultural Mechanization and Rural Technologies (CAMARTEC)  
CAMARTEC presented biogas technologies. The technologies presented are the ones using agricultural wastes like animal/human wastes. The Centre also promotes the use of improved cook stoves.
- (7) Electricity and Water Utility Regulatory Authority  
EWURA provided the information to the visitors on the necessity of and how to register for the individual license of electricity installation.
- (8) Baraka Solar Specialists Ltd  
Baraka Solar demonstrated solar photovoltaic technologies from small ones, like insect killers to the captive power systems. Further it presented solar street lights.
- (9) Chloride Solar Ltd  
It is the company that distributes solar home and captive power systems. It also distributes solar water heaters. The companies presented its range of products on the technologies mentioned above.
- (10) Simu Solar Company Ltd  
It is the company that supplies and installs solar water pumps. Simu Solar demonstrated range of solar water pumps for the use of smallholder and large holder agriculture, household, institution and community.



Photo 5: Booth of EWURA that offered information on the electricity installation law

(11) Davis & Shirliff

Davis & Shirliff is one of the leading companies in solar water pumping solutions. It presented technologies of solar water pumping in the range of household, agriculture, institution to the large community. They also demonstrated the products of solar street lights

(12) Wraptec Engineering Limited

The company installs: battery based backup systems; solar home systems; solar captive power systems; solar water pumps for agricultural and community schemes; and solar street lights. The company demonstrated systems mentioned above.

(13) SNV Netherlands

SNV Netherlands sponsored 2 improved cook stoves entrepreneurs that presented products of household cooking. The entrepreneurs presented charcoal, firewood and briquettes stoves.

(14) Envotec Tanzania Ltd

Envotec is the Tanzania high level company that manufactures clean and improved cooking stoves. It presented the range of products from domestic to the institutional ones. The stoves presented use firewood, charcoal, Liquefied Petroleum Gas (LPG) and biogas.



Photo 6: Minister for Industry and Trade Hon. Innocent Lugha Bashungwa (MP) visiting products on cooking solutions presented by the company Envotec

(15) Energy Plus Tanzania Limited

Energy Plus is the one of the largest one-stop centre of solar parts procurement. Energy Plus supplies and it demonstrated following solar photovoltaic products: small to large high energy intensity storage accumulators; street lights; solar modules for household to the on-grid applications; inverters; charge-inverters; charge controllers; and smallholder agricultural water pumps.



Photo 7: Booth of the Energy Plus, supplier of solar energy intensive storage solutions

(16) Ensol Tanzania Limited

Ensol presented solar photovoltaic products for: solar pumping (household, smallholder agriculture and community); street lights; solar home systems; captive power; and solar mini grid.

### 2.2.3 Workshop

A half day workshop was held at Peacock Hotel on 29<sup>th</sup> November, 2019. The workshop was held in the format of panel discussion. Each session was preceded by the introductory speech being moderated by Dr. Abdalla Henku.

The workshop attracted the following participants: students; renewable energy companies; individual renewable energy players; Bank of Tanzania; TIB Investment Bank; CRDB; Embassy of the Kingdom of the Netherlands; Ministry of Energy; EWURA; Tanzania Bureau of Standards; EU; UNIDO; UNCDF; Media; AfdB; and NGOs.



*Photo 8: Section of the participants to the workshop*

The workshop covered three topics of:

(1) Financing to Scale Renewable Energy Projects in Tanzania

The discussion aimed at showing different funds and financial platforms that can help scaling up renewable energy projects in Tanzania.

The introductory speech was presented by Ms. Grace Malle.

Andrew Mbunda from CRDB addressed on accreditation of Green Climate Fund (GCF) November 2019 Korea. CRDB is supporting the green project however they are facing some challenges in terms of capital and capacity building. They are

getting support from REA and World Bank. Malimu Musero represented UNCDF which has financial instruments and provide rights to CRDB. Kenneth Lusesa from TIB Development Bank emphasized supporting number of Renewable energy projects through CRDB and others from their own balance. Some of project were in process but still some challenges like knowledge gap. Few banks like CRDB, Stanbic and NBC were identified to have capacity and knowledge. It was suggested to start to equip knowledge to the banks however challenge still on collateral and equity as they don't provide a 100% loan. The representative of the Embassy of the Kingdom of the Netherlands stressed on the policy and regulations to be in place to avoid uncertainty and minimize the investment risks. Mohamed A. Sauko from AfdB also presented a commitment to support renewable energy projects through Rural Energy Agency (REA). AfdB has fund for market survey.

The audience had underneath remarks:

- i. The participants pointed out up-front costs as a major issue in the renewable energy investment and access to fund had been a long process and sometime conditions do tie up developers. This was addressed by financial institution that they are getting money from different angles which sometime do not touch renewable energy. Also, to finance energy project depend on the relevant debts policy of a particular bank. It was added that all debts are controlled by Bank of Tanzania (BoT) according to financial Act.
- ii. Participants were interested to know, following the number of hydro projects funded by CRDB in Iringa, Njombe, Ruvuma and Manyara, and if the bank will also fund the wind projects. It was followed by the question if the funded projects are connected to TANESCO.
- iii. The condition for Performance Guarantee to developers requesting for a loan is also a big challenge to access the loan, however this was addressed by financial institutions as one of the measures to control risks. The issue of performance guarantee went in parallel with a question from one participant regarding financial support only for up scaling project and not start up project. The participant questioned as how can Tanzania realize industrialization strategy if start up projects are not supported? The response was the same to minimize risks and developers were advised to build up the capital base as sometime the loans are subjected to equity and collateral.
- iv. There was a demand from developers to acquire direct loan from funders without using this intermediate procedure through financial institutions. It was responded that direct finance is not allowed, they need administrator to lead the process.

The outputs of the workshop were:

- i. Need of capacity building to developers on issue related to finance
- ii. Professionalism across the sectors to be under one umbrella (Financier and technical personnel)
- iii. Enabling environment is needed to create smooth financial mechanism and
- iv. Development Partners are able to finance the project however need an assurance

(2) Updates on Regulatory Framework Supporting Renewable Energy Projects in Tanzania

The discussion aimed at sensitizing the renewable energy stakeholders on the small power projects regulatory scheme reviewed in 2019.

The introductory speech was presented by Eng. Arthur Karomba.

Representative of Ministry of Energy highlighted some important policies and acts which create conducive environment for renewable energy investment. Ministry of Energy is implementing SE4ALL program and it is developing renewable energy and energy efficiency strategies in cooperation with European Union. Swahili versions will be developed so that documents can be accessed by the majority. All these initiatives aim at scaling up uptake of renewable energy. Without such tools' investors cannot make an investment. Further, Ministry of Energy informed the audience that Ministry of Energy is developing Geothermal Act.

Representative of EWURA explained the importance of SPP Framework on guiding generations and distribution of the renewable energy electricity. Despite having the guiding rules and regulations, still there is a challenge of Utility signing PPA. It was stated that 4 PPAs have been approved and they are in the process of reviewing some clauses to align to the SPPA regulations.

Representative of TBS who is responsible for quality assurance explained the role played by TBS in promoting renewable energy technologies. TBS has a Technical Committee, which is responsible for development of renewable energy technologies standards. TBS is also doing market surveillance for substandard products.



Photo 9: Section of workshop audience

Remarks from the participants:

- i. One of the participant appreciated the work done by EWURA as SPP rules were published in the government gazette in June 2019. However, it was surprising why TANESCO as part of potential stakeholders does not accept some clauses after EWURA's approval. Unfortunately, there was no representative from TANESCO. Representative of EWURA responded on behalf that TANESCO do respect the law however seller and buyer can agree on terms and send their proposal to EWURA. EWURA can say Yes or No depending on the agreement reached by seller and buyer.
- ii. There was an issue raised regarding unfair competition of charcoal versus briquetting, as charcoal is sold at a low price which accelerate deforestation. One of the participants requested EWURA to regulate the price of briquettes. Unfortunately, EWURA is not responsible on briquettes but does regulate the price for water, electricity, petroleum and natural gas. Representative from EWURA said probably in future they will take care of briquettes.
- iii. There was a question from the end user regarding poor service of the system after making payment. This was responded by one of the company representatives that it is always due to the misuse or abuse of the system where end user tends to keep on increasing the load on the system beyond designed capacity. TAREA Vice Chairperson also elaborated that if it was a TAREA member who designed the system and misbehaved, end user can send the enquiries to TAREA for follow up.
- iv. Most of the developers had been facing the challenge on getting supporting letters despite of the costs incurred on feasibility study. This issue was responded by representatives from Ministry of Energy and EWURA that developer should not do the feasibility study before getting support letter

(3) Clean Cooking and Improved Cook Stoves: What needs to be done to uplift the sector?

The discussion aimed at uncovering challenges and bottlenecks that hinder rapid uptake of clean cooking technologies in Tanzania and proposing the strategies of increasing the use of clean and improved cook stoves and fuels.

The introductory speech was presented by Mr. Sylvester Mwambije.

Rosalia Moshi, Energy Advisor from SNV explained the challenge on Biomass sector on policy interventions. Despite Biomass being used at more than 90% as fuel for cooking, no priority is given at ministerial level and biomass does not have a responsible direct ministry. Rosalia also highlighted on material transport cost for making improved cooking stove as they have to be transported from Dar es Salaam. Further, awareness of the public on the negative impacts of non-improved cook stoves is low that leads to low uptake of the improved cook stoves.

A representative from Envotec reinforced on the question of the line Ministry for biomass. Is it Ministry of Energy, Ministry of Health, and Vice President Office

Ministry responsible for the environment, or Ministry of Natural Resources and Tourism?

TBS is the agency that cuts across several sectors. TBS has developed standards for cooking stoves awaiting to be published in the government gazette. TBS is currently developing some standards with UNIDO on Bioethanol.

UNIDO on the fight against deforestation, it is promoting bioethanol stoves.

Ministry of Energy is developing Biomass Energy Strategy to govern sector. In the Energy Efficiency Strategy there are some clauses on the biomass strategy.

TBS has members of technical committees involving non-staff. The issue of technical team consisting non-employees of TBS rose another question for TBS if they have real enough capacity. It was clarified by TBS that it has enough and professional staff to work on the sector but it does include few sectorial actors to draw experience from the real life.

In the workshop, some opportunities in the sector of biomass were revealed:

- i. Prison Department showed interest of changing their cooking habits from wood and charcoal to the improved cooking technologies (stoves and fuels);
- ii. Biomass Energy Strategy to be supported by UNIDO 30 Mil Euro to be approved by Ministry of Energy; and
- iii. Fund for local NGO to work with producer for wood and charcoal on awareness raising supported by European Union.

Lessons learned in the panel are listed below.

- i. Public awareness is needed to educate end users about improved cooking stoves;
- ii. Need assessment is important before supplying improved cooking stoves over a certain locality so as to meet the needs; and
- iii. The joint efforts between government and private should be strengthened in promoting biomass clean cooking.

#### **2.2.4 Entertainment**

Entertainment was done using modern music and traditional dance.

#### **2.2.5 Event Closing**

The event of Tanzania National Renewable Energy Day was closed on 30<sup>th</sup> November, 2019 by the Minister of Industry and Trade Hon. Innocent Lugha Bashungwa (MP) that represented Minister for Energy Hon. Dr. Medard Kalimani (MP), in the presence of: Director General of REA Eng. Amos Maganga; Prof.-Eng. Cuthbert Kimambo Ex-Chairperson and Founder of TAREA; Mr. Rogier Verstraeten Representative of the Embassy of the Kingdom of the Netherlands; Chief Commander of Fire Brigade and Representatives of the Ministry of Energy.

Mr. Rogier Verstraeten, representing His Excellency Ambassador of the Kingdom of the Netherlands, insisted on the advice of the Government of Tanzania putting in place the enabling environment that will facilitate private sector increase its involvement in scaling up the uptake of the renewable energy.

Welcoming Honourable Minister for Industry and Trade, Vice Chairperson of TAREA Eng. Proper Magali made underneath remarks:

- (1) TAREA thanks the Government of Tanzania for putting in place enabling environment such as: National Energy Policy 2015; Revised SPP Framework 2019; Electricity Act 2008 etc. that enable private sector participation in increasing access to the sustainable modern energy;
- (2) TAREA thanks National Parliament for accepting Tanzania joining to the International Solar Alliance;
- (3) REA to identify the locations that private developers have to develop renewable energy networks to avoid interference between private networks and the national grid;
- (4) The tariffs of renewable electricity, especially solar photovoltaic technology, are high. It is proposed Government and private developers to dialogue in finding tangible solutions;
- (5) Local investors have challenges of accessing feasible finances for developing renewable energy schemes. It is prayed for the Government to develop special windows to enable local investors to access finance with smooth conditions. The available finances in the local finance institutes are not easily accessible.
- (6) TAREA will continue working with Government of Tanzania in the efforts of making our country a middle income through industrialization by the year 2025.



*Photo 10: Hon. Innocent Lugha Bashungwa (MP), Minister for Industry and Trade speaking to the media*

Hon. Minister for Industry and Trade made the following remarks:

- (1) Renewable energy actors to increase their involvement in rural off-grid areas;
- (2) Renewable energy actors to promote local manufacturing;
- (3) Awareness on the use of clean technologies for cooking should be scaled up;
- (4) Representative of the Embassy of the Kingdom of the Netherlands to encourage other development partners to support the use of renewable energy in Tanzania;
- (5) Government of Tanzania has to work together with private sector in scaling up clean cooking and thus decreasing environment degradation. In order to manage this aim; Hon. Minister of Industry and Trade, directed Director General of REA to take a lead position and together with TAREA, TEMDO, CAMARTEC, EWURA, TBS, COSTECH and TIRDO to come up with a proposal as what is needed to be done to effect the uptake of clean cooking technologies in Tanzania. The proposal will have to be submitted to the Minister of Industry and Trade who will share it with Ministers for the Ministry of Energy and VPO Minister Responsible for the Environment and Union Affairs.



Photo 11: Improved Cookstoves manufactured by local entrepreneurs.

### **3.0 Observations and Recommendations**

Stakeholders that participated in the event of the National Renewable Energy Day 2019 made observations and recommendations that are summarized below.

#### **3.1 Observations**

The observations made during the event of 14<sup>th</sup> National Renewable Energy Day are listed below.

- (1) Government of Tanzania is very much concerned on the environment degradation caused by unsustainable use of biomass energy;
- (2) Government of Tanzania is very much concerned on protecting the environment from e-wastes;
- (3) Private sector is working to increase its involvement in enabling Tanzanians accessing sustainable modern energies;
- (4) Uptake of clean cooking technologies is still very low;
- (5) Tariffs of electricity from renewable energy are relatively high;

#### **3.2 Recommendations**

Recommendations on the observations made during 14<sup>th</sup> Renewable Energy Day are listed below.

- (1) TAREA should work with other stakeholders under the leadership of REA in developing proposal paper to be presented to the Ministries of Energy, VPO Ministry Responsible for Environment and Union Affairs, and Industry and Trade;
- (2) TAREA should advocate VPO Ministry Responsible for Environment and Union Affairs for enactment of the developed regulations on e-wastes;
- (3) TAREA should advocate to the energy strategic ministries that the Governments provides incentives that will result lowering of the tariffs of the electricity from renewable energy; and
- (4) Tanzania companies should work to develop local manufacturing of renewable energy/clean energy products.

## Appendix 1: Exhibition Schedule



**NATIONAL RENEWABLE ENERGY EXHIBITION 29<sup>TH</sup>- 30<sup>TH</sup> NOVEMBER; 2019**

**THEME: RENEWABLE ENERGY TO COMPLIMENT TANZANIA  
INDUSTRIALIZATION BY 2025**

**PROGRAM: EXHIBITIONS AT MNAZI MMOJA GROUNDS 29.11.2019**

TIME	EVENT	RESPONSIBLE
<b>0800-0900</b>	Registration and setting up Exhibition ground	Exhibitors
	Stakeholders Panel session at Peacock Hotel (Parallel session)	Panellists
<b>0900-1300</b>	Start Exhibition	Exhibitors
	Exhibition Continues	Exhibitors
	Stakeholders Panel session at Peacock Hotel (Parallel session)	Panellists
<b>1300-1400</b>	Lunch	All
<b>1400-1600</b>	Guest of Honour Arrival	MC
	Guest of Honour Visiting Exhibitions	TAREA
	Greetings & Introduction	TAREA
	Speech from Embassy of Netherlands	Embassy of Netherlands
	Speech from TAREA	
	Awards & Prizes	Minister of State in Vice President's Office, Union and Environment
	Speech from Guest of Honour	
	Official Opening	
<b>1600-1630</b>	Photo session	
<b>1630-1800</b>	Exhibition continues	Exhibitors
<b>1800</b>	<b>Closing Day 1</b>	



**NATIONAL RENEWABLE ENERGY EXHIBITION 29<sup>TH</sup>- 30<sup>TH</sup> NOVEMBER; 2019**

**THEME: RENEWABLE ENERGY TO COMPLIMENT TANZANIA  
INDUSTRIALIZATION BY 2025**

**PROGRAM: EXHIBITIONS AT MNAZI MMOJA GROUNDS 30.11.2019**

<b>TIME</b>	<b>EVENT</b>	<b>RESPONSIBLE</b>
<b>0800-0900</b>	Registration Exhibition continues	Mnazi Mmoja
<b>0900-1300</b>	Exhibition Continues	Mnazi Mmoja
<b>1300-1400</b>	Lunch Time	
<b>1400-1600</b>	Guest of Honour Arrival	MC
	Guest of Honour Visiting booths	TAREA
	Greetings & Introduction	TAREA
	Speech from Embassy of Netherlands	Embassy of Netherlands
	Speech from TAREA	TAREA
	Awards & Prizes	Prime Minister
	Speech from Guest of Honour	
	Official Closing	
<b>1600-1630</b>	Photo session	
<b>1600-1800</b>	Exhibition continues	Exhibitors
<b>1800</b>	<b>Closing Day 2</b>	
<b>1800-2000</b>	<b>Evaluation &amp; Wrap up Peacock Hotel</b>	<b>Event committee, Exhibitors and TAREA Secretariat</b>



## Appendix 2: Workshop Schedule



**NATIONAL RENEWABLE ENERGY EXHIBITION 29<sup>TH</sup>- 30<sup>TH</sup> NOVEMBER; 2019**  
**THEME: RENEWABLE ENERGY TO COMPLIMENT TANZANIA**  
**INDUSTRIALIZATION BY 2025**  
**PROGRAM: STAKEHOLDERS' WORKSHOP AT PEACOCK HOTEL**  
**29<sup>TH</sup> NOVEMBER; 2019**

TIME	EVENT	RESPONSIBLE
0800 - 0830	Registration at workshop	TAREA
0830- 0845	Introduction of participants	Moderator: Dr. Abdallah Henku
0845-0915	Opening Remarks	Chairperson TAREA Ministry of Energy Ministry of Natural Resource and Tourism Embassy of Netherlands
0915 - 0930	Overview of Program	Moderator: Dr. Abdallah Henku
<b>SESSION 1:</b>	<b>Financing to Scale Renewable Energy Projects in Tanzania.</b> <b>Objective:</b> To showcase different funds and financial platforms that can help scale-up renewable energy projects in Tanzania. Introductory presentation: Ms. Grace Malle	
0930 - 1000	Panel session discussion <ul style="list-style-type: none"> <li>▪ REA</li> <li>▪ TIB</li> <li>▪ Bank of Africa</li> <li>▪ Sunfunder</li> <li>▪ UNCDF</li> <li>▪ AfdB</li> <li>▪ TAREA</li> </ul>	Moderator: Dr. Abdallah Henku Questions: 1.0 What can be done to make available credit lines accessible by the developers? 2.0 What should be done to attract more foreign investment in renewable energy? 3.0 What improvements should be done on the Government financing to the private renewable energy projects?
1000 -1030	Q&A	All





<b>SESSION 2:</b>	<b>Updates on Regulatory Framework Supporting Renewable Energy Projects in Tanzania.</b> <b>Objective:</b> To provide insights and updates on regulatory environment and planning for Renewable Energy projects. Introductory presentation: Eng. Arthur Karomba	
<b>1030 -1100</b>	Panel session discussion <ul style="list-style-type: none"> <li>▪ Ministry of Energy (MoE)</li> <li>▪ EWURA</li> <li>▪ Tanzania Bureau of Standards (TBS)</li> <li>▪ NEMC</li> <li>▪ REA</li> <li>▪ TRA</li> <li>▪ BOT</li> </ul>	Moderator: Dr. Abdallah Henku Questions 1.0 What should Government do in order to enable increased development of off-grid renewable energy solutions? 2.0 What support can the Government offer to the private sectors mini grid schemes to result decreased electricity tariffs?
<b>1100 -1130</b>	Q&A	All
<b>SESSION 3:</b>	<b>Clean Cooking and Improved Cook stoves: What needs to be done to uplift the sector.</b> <b>Objective:</b> To uncover challenges and bottlenecks that hinders growth of the clean cooking sector in Tanzania. Introductory presentation: Sylvester Mwambije	
<b>1130-1200</b>	Panel session discussion <ul style="list-style-type: none"> <li>▪ Envotec</li> <li>▪ SNV</li> <li>▪ UNIDO</li> <li>▪ TATEDO</li> <li>▪ European Union</li> <li>▪ COSTECH</li> <li>▪ MoE</li> <li>▪ TBS</li> <li>▪ Ministry of Natural Resource and Tourism (MNRT)</li> </ul>	Moderator: Dr. Abdallah Henku Questions: 1.0 What are the Government trends to support this industry? 2.0 Which Government Department has a clear cut responsibility for development of this clean cooking sector? 3.0 Is there any clear cut policy on clean cooking 4.0 What are the opportunities to financial institutions?
<b>1200 -1300</b>	Q&A	All
<b>1300 -1400</b>	<b>LUNCH</b>	
<b>1400 -1600</b>	Official Opening of Exhibition 2019 at Mnazi Mmoja Grounds	Minister of State in Vice President's Office for Union Affairs and Environment



## Appendix 3: Media Prints Extracts

# TANZANIA RENEWABLE ENERGY ASSOCIATION

For a sustainable Future



TAREA  
Tanzania Renewable Energy Association

1049540006

---

## INVITATION TO THE 14th NATIONAL RENEWABLE ENERGY DAY, MNAZI MMOJA GROUNDS, DAR ES SALAAM, NOVEMBER 29 -30, 2019

**Tanzania Renewable Energy Association (TAREA)**, the biggest renewable energy network invites the public to the Tanzania National Renewable Energy Day that will take place at Mnazi Mmoja Grounds, Dar es Salaam on **Friday 29th November and Saturday 30th November, 2019.**

The event aims at showing the public how renewable energy technologies can contribute to the initiatives of making Tanzania Industrial Country by 2025. The main theme is: **"RENEWABLE ENERGY TO COMPLEMENT TANZANIA INDUSTRIALIZATION BY 2025."**

The event will consist of showcasing renewable energy technology; panel discussion workshop, and operating renewable energy site visits.

Technologies such as Solar, Biomass, and Wind shall be showcased from companies, institutions both public and private.

The event will be opened on Friday by **the Minister of State in the Office of the Vice President-(Environment and Union), Hon. George Simbachawene**, and closed by **the Minister for Energy, Dr. Medard Kalemani, on behalf of the Prime Minister.**

**NO ENTRY FEE. YOU ARE ALL WELCOME.**

FOR FURTHER INFORMATION AND PHOTOS click this link:  
<https://sites.google.com/site/tareatzevents/red2019>

**TAREA,  
P.O.BOX 32643.  
DAR ES SALAAM.  
Email: [info@tarea-tz.org](mailto:info@tarea-tz.org)  
Website: <http://www.tarea-tz.org>  
Mob: +255-755086462  
+255-784993755  
+255- 714560566**



Kingdom of the Netherlands



## Appendix 4: Contacts of Sponsors and Exhibitors

Baraka Solar	Dar es Salaam Email: walteze89@yahoo.com Tel:+255 765 495436, +255 753 649710
Brac & Solar Sisters	Dar es Salaam Email: alamin.s@brac.net Tel:+255 754 908960, +255 621 135525
CAMARTEC	Arusha Email: dg@camartec.go.tz Tel:+255 754 832281
Chloride Solar	Dar es Salaam Email: ahmed@chlorideexide.com Tel: +255 679 689054
Davis & Shirliff	Dar es Salaam Email: felister.assenga@dayliff.com Tel:+255 717 254098
d.light	Dar es Salaam Email: glorytarimo@hotmail.com Tel:+255 682 191596
Embassy of the Kingdom of the Netherlands	Dar es Salaam Email: dar@minbuza.nl Tel:+255 22 2194000
Energy Plus Ltd	Dar es Salaam Email: said.mbemba@yahoo.com Tel:+255 715 827532
Ensol (T) Ltd	Dar es Salaam Email: h.mikate@ensol.co.tz Tel:+255 754 694413
Envotec	Dar es Salaam Email: envotec@gmail.com Tel:+255 713 605137
EWURA	Dodoma Email: info@ewura.go.tz Tel:+255 26 2329002
Simu Solar	Dar es Salaam Email: mwalpert@simusolar.com Tel:+255 682 048424

SNV Netherlands

Dar es Salaam  
Email: hbussiga@snv.org  
Tel:+255 788 212320

TEMDO

Dar es Salaam  
Email:temdo@habari .co.tz  
Tel:+255 27 250 8058

TIRDO

Dar es Salaam  
Email:luganowilson@yahoo.com  
Tel:+255 766 771056

Wraptec Engineering

Dar es Salaam  
Email:sama@wraptecengineering.co.tz  
Tel:+255 752 630066

## TAREA ORGANIZATION CHART



