
26 & 27 February 2015, Dar es Salaam

Photo Gallery
About this photo gallery

This photo gallery captures key moments during the event:

“National workshop for exploring the evidence, mapping the way forward, and planning for future actions for developing the biomass energy sector in Tanzania”

The photos presented were taken by: Tuyeni H Mwampamba, Elida Fundi, Bettie Luwuge and Emil Grevas
the **objectives** of the workshop were to:

1. Explore the **Evidence** for a sustainable charcoal/biomass energy sector
2. Identify and prioritise **shared challenges** across the sector
3. Identify a **way forward** for BE Sector & for TTCS Phase 2
4. Embark on future **actions**
More than 60 key stakeholders from the national biomass energy sector attended the workshop across the two days.
The workshop was organized by: Tanzania Forest Conservation Group (TFCG), Tanzania Network for Community Forest Management (MJUMITA), and Tanzania Traditional Energy Development Organization (TaTEDO)
It was an important output for the Project: Transforming Tanzania’s Charcoal Sector

financed by the Swiss Agency for Development and Cooperation
Welcome remarks were given by the Executive Director of the Tanzania Forest Conservation Group (TFCG), Mr. Charles Meshack
They were followed by a keynote speech delivered by Prof. Ishengoma: *National trends in biomass energy in Tanzania*

- A policy and legal framework is required to guide the sustainable development and growth of this sector
Remarks from the Government of Switzerland, his Excellency Ambassador Olivier Chave
Opening Speech by the Guest of Honor: Minister of Energy & Minerals, Hon. George Simbachawene
Participants meeting and interacting with Hon. Simbachawene

Prof. Ishengoma discussing with the Minister

Ms. Elida Fundi, TTCS Project Advocacy & Communications Officer meeting the Minister

Mr. Meshack, Director of TFCG and Mr. Sawe Director of TaTEDO interacting with the Minister
Hon. Minister Simbachawene being interviewed by the media
Members of parliament in the Natural Resources and Environment, and Energy sectors also participated and provided their insights and commitments to workshop outcomes.

Hon. James Lembeli, MP Kahama and Chair of the Parliamentary Committee on Natural Resources and Environment

Hon. Muhtaza Ally Mangungu, MP Kilwa, Representing the Chair of the Parliamentary Committee on Energy and Minerals Sector
Mr. Paul Kiwele, Representing the Assistant Commissioner Assistant Commissioner for the Renewable Energy Sector, MEM delivering a talk on BEST and its recommendations

Why is Biomass Energy Important?

- **Principal fuel of the rural and urban population**
- Biomass is a versatile energy source that can be used for production of heat, power, transport fuels and biomaterials, apart from making a significant contribution to climate change mitigation.
- Biomass fuel sources are readily available in rural and urban areas of all countries.
- Biomass-based industries can provide appreciable employment opportunities and promote biomass re-growth through sustainable land management practices.
- **When improved & and used more efficiently**
  - Reduces expenditure on fuel
  - Its production, transformation & distribution generates jobs and creates micro, small & medium scale enterprises

Development of Tanzania BEST

- It is anticipated that the outputs from the BEST Tanzania Project will be used primarily by all relevant stakeholders: Central and local governments, NGOs and the private sector active in the biomass energy sector.
Marketplace presenting style was applied for getting to know other initiatives in Tanzania related to biomass energy supply, demand and substitutes.

Edwin Nssoko, Project Manager of the UNDP Miombo Charcoal Project Tabora presented their experiences. This project served as a useful alternative model to explore for sustainable charcoal production.

Jasper Makala, Chief Executive Officer of the Mpingo Conservation and Development Initiative (MCDI) sharing their experiences, which were useful for demonstrating management of natural Miombo forests for extraction, and the benefits and challenges of working with standards.
Marketplace presentations for getting to know other initiatives in Tanzania related to biomass energy supply, demand and substitutes

Executive Director of TaTEDO, Mr. Estomiah Sawe, discusses with participants the experiences that TatEDO has had with building and training on improved cookstoves (ICS), improved kilns and briquettes

Ms. Manon Lelieuvre, Program Officer of ARTI Energy spoke specifically about the charcoal briquette program (Mkaa Mkombozi) and the challenges and impacts the initiative has had
Group work activity to discuss and analyze the experiences of ongoing biomass energy initiatives in the country
Example of output from group work Activity 2. Participants analyzed the contribution of existing initiatives to BEST and the challenges faced by the Sector

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>ACTION GROUP</th>
<th>ACTION ITEM</th>
<th>PROJECT IMPACT</th>
<th>SCALABILITY</th>
<th>BARRIERS/CHALLENGES</th>
<th>OTHER SIMILAR EXPERIENCES</th>
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<tbody>
<tr>
<td>TTCS</td>
<td>2. Biomass Energy Supply</td>
<td>2.1 VFM Plans</td>
<td>6000 ha VLFR Ext. and Continued</td>
<td>High Scalability in Miombo Woodland</td>
<td>Conflict of interest (CBM vs REDD+)</td>
<td>Similar project in Monga</td>
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<td></td>
<td>(2.1, 2.3, 2.5, 2.6, 2.7)</td>
<td>2.3 LAFM Plans/Guides</td>
<td>-6000 ha under SCP.</td>
<td>- Improved rev. collector (v.g. producer districts)</td>
<td>Skepticism (new?) from some stakeholders</td>
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<td></td>
<td></td>
<td>2.5 Prof. of charcoal producers</td>
<td></td>
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<td></td>
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<td>2.6 Sust. charcoal pur. and cert.</td>
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<td></td>
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<td>2.7 Coll. of Forest E. fac.</td>
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<td>TATEO</td>
<td>3. Biomass Energy Demand</td>
<td>3.1 Improved Gok stove</td>
<td>Reduced rate of increasing charcoal consumption</td>
<td>High</td>
<td>Inadequate policy support</td>
<td>Inadequate funding</td>
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<td>ARTI-72</td>
<td>4. Commercially viable</td>
<td>4.1 Biomass Briquettes</td>
<td>Increased adoption</td>
<td>High</td>
<td>Inadequate financial resources</td>
<td>SIDO</td>
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<td></td>
<td>Biomass E. subst.</td>
<td>4.3 Forest residues</td>
<td>40 t/ly - 30 t/ha</td>
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<td>- TATEO</td>
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<td>Small informal group</td>
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<td>Individuals</td>
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Outcome from discussions and analyses of the biomass sector

Analysis and discussions on existing biomass energy projects in Tanzania was centered around recommended actions in the draft National Biomass Energy Strategy (BEST). This schematic captures the logic behind BEST. Green boxes relate to biomass supply actions; blue boxes relate to Policy & Measures actions; Pink refers to demand or user-end actions; yellow boxes are actions related to supply of biomass energy substitutes; and white are actions related to the supply of non-biomass energy substitutes.
Plenary discussions after presentations and group work activities enriched the discussions, provided the space to hear individual and sector opinions.
Participants contributing their knowledge, experiences, insights into plenary discussions
Group work activity: Prioritization of challenges faced by the sector
Group work: output from prioritizing shared challenges
Consolidation of priority (very important and urgent) challenges

All challenges that were identified as highly urgent (i.e., requiring action within the next 12 to 24 months) in group work were consolidated into this diagram which was discussed in plenary. Similar challenges were grouped. Five priority challenges were identified (circled challenges), for which immediate action is needed. The five challenges are:

1. Unsupportive policy environment;
2. Low investment in the sector
3. Misconceptions & Lack of awareness about charcoal
4. Complex & expensive land use planning (LUP) process, and
5. Informality of the sector.
Groups presenting in plenary the actions they deem most necessary to undertake in the next 12 months to address priority challenges
An important additional workshop objective was to provide the space and time for stakeholders to interact and build their networks.
Honorable Minister of Energy and Minerals and his Excellency the Ambassador of Switzerland exchanging business cards and a joke after the opening ceremony
Building networks: participants meeting and discussing
Sharing a joke, or two... most people indicated in the evaluations that they enjoyed themselves
Strengthening existing stakeholder relations
Charcoal producers from the TTCS Kilosa Project attended the workshop to display their sustainably produced charcoal.
Also on display: Charcoal briquettes and briquette stoves
Display of improved cookstoves from TaTEDO, charcoal briquettes from ARTI, and sustainable charcoal (in brown paper bags) produced by the TTCS Project
Each participant left the workshop with a gift bag containing sustainable charcoal produced by communities in Kilosa under the TTCS Project.
Evaluating the workshop and interacting with each other before official close
Multi-criteria evaluation of the workshop
Way forward and Closing remarks by SDC, MEM & MNRT
Organizers, facilitators, and support staff

Organizer & Lead facilitator: Dr. Tuyeni H Mwampamba, UNAM
Organizer: Ms. Bettie Luwuge, TFCG
Organizer: Mr. Jensen Shuma, TaTEDO

Time keeper: Ms. Elida Fundi, MJUMITA

Rapporteur: Mr. Ewald E. Gervas, TFCG