

Final Workshop – Summary

Advanced scoping for technical capacity building on small hydropower in East Africa

11th June 2015, Sarova Panafric Hotel, Nairobi, Kenya

Background

Following a request from the East African Community (EAC), the Africa-EU Renewable Energy Cooperation Programme (RECP), a programme implemented by the EU Energy Initiative Partnership Dialogue Facility (EUEI PDF), is supporting the EAC with carrying out an **advanced scoping into the area of technical training gaps in the small hydropower sector in East Africa**. The objective of the project is to enhance the region's technical capacity on operations and maintenance for small hydropower. It is meant to trigger further support within EAC in building up a portfolio in renewable energy and energy efficiency within the region, and it is expected to complement the on-going efforts by the EAC, with support from the Government of Austria and UNIDO, in setting up the East African Centre for Renewable Energy and Energy Efficiency (EACREEE).

Based on scoping missions to each of the EAC's Partner States, including consultations with key stakeholders from government, development partners, academia, private sector and civil society on small hydropower, **the project's final report provides recommendations on how to build up technical capacities on small hydropower in the EAC region**. Moreover, it presents potentials interventions to be carried out under the umbrella of the proposed East African Centre for Renewable Energy and Energy Efficiency.

Final Workshop Objective

The objective of the workshop was to **present and discuss the final findings of the advanced scoping for technical capacity building on small hydropower in East Africa** with EAC Secretariat, EAC Partner States and energy development partners in the region, as well as identify and agree on next steps.

Date, Expected Participants and Further Information

The meeting was held on **Thursday 11th of June 2015 in Nairobi, Kenya**, at the Sarova Panafric Hotel from 9:00h to 17:00h.

Participants included representatives from **EAC Secretariat, EAC Partner States, African Union Commission, energy development partners in the region, as well as stakeholders from academia, private sector and civil society**. A detailed list of participants can be found below.

Contact Persons

If you do have any further questions, please do not hesitate to contact:

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Summary and key conclusions of the workshop

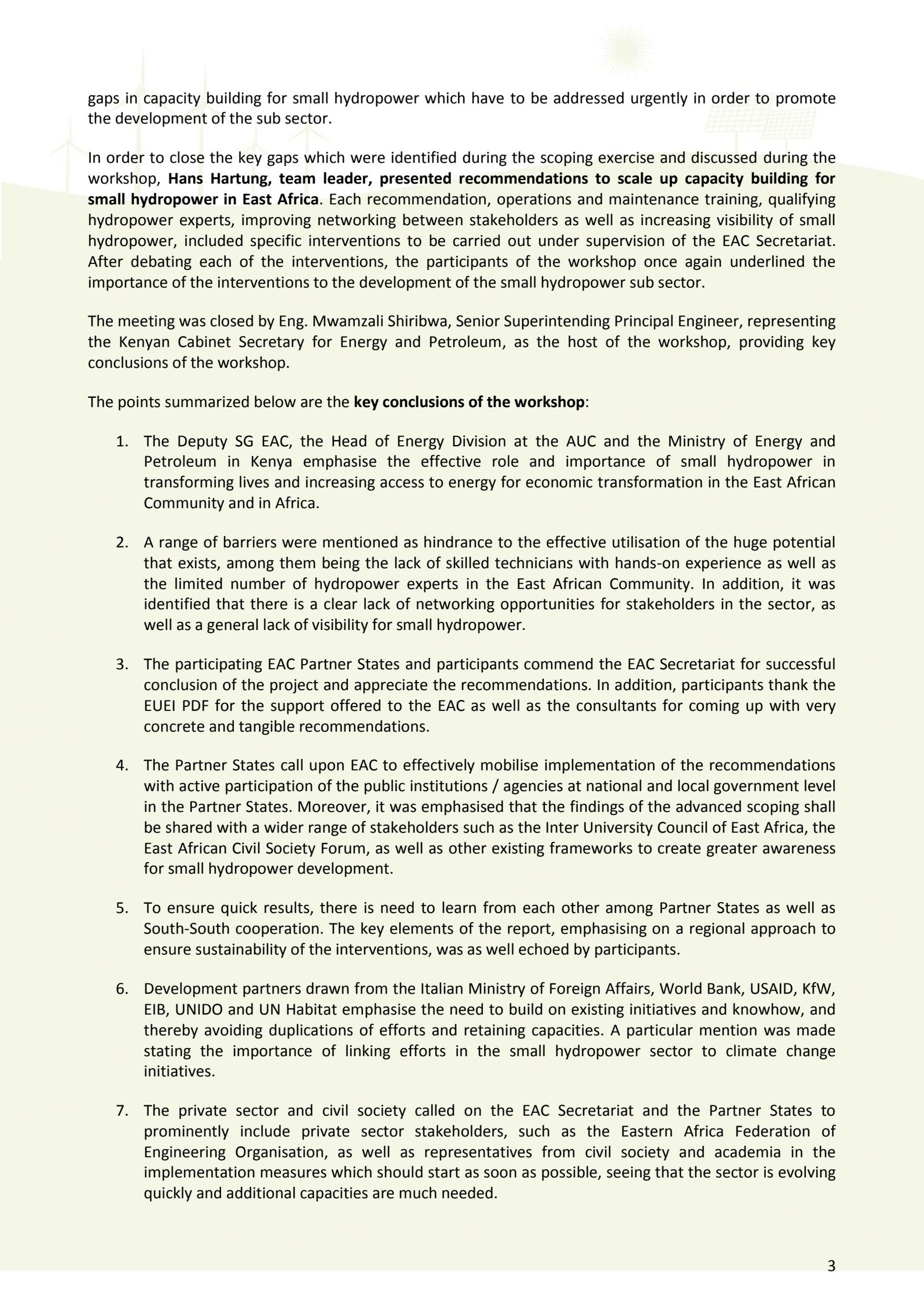
The final workshop of the **Advanced Scoping for Technical Capacity Building on Small Hydropower in East Africa** was held on 11th June 2015 in Nairobi at the Sarova Panafric. The workshop was officiated by Hon. Jesca Eriyo, Deputy Secretary General, Productive and Social Sectors, East African Community, Eng. Mwamzali Shiribwa, Senior Superintending Principal Engineer, representing the Kenyan Cabinet Secretary for Energy and Petroleum and Mr. Philippe Niyongabo, Head of Energy Division, Africa Union Commission. The workshop was attended by about 45 participants drawn from government representatives from EAC Partner States, as well as representatives from the private sector, civil society, academia and development partners working actively in the area of hydropower in East Africa.

Participants were **welcomed by Eng. Mwamzali Shiribwa, Senior Superintending Principal Engineer, representing the Kenyan Cabinet Secretary for Energy and Petroleum**, who acknowledged the workshop as an important forum for small hydropower stakeholders in the region. He further stated that Kenya was committed to utilize its small hydropower potential, but that additional capacities were crucial to develop the sector and that the EAC's initiative was warmly welcomed. **Philippe Niyongabo, Head of Energy Division at the African Union Commission**, then proceeded to highlight the importance of hydropower as a source of electricity and that in particular small hydropower plays a crucial role in providing access to energy in Africa. He further confirmed AUC's commitment to developing hydropower resources by showcasing the continental Hydropower 2020 initiative, and its links to the New Partnership for Africa's Development (NEPAD) and to the Programme for Infrastructure Development in Africa (PIDA), which brings together small hydropower stakeholders of the African continent to exchange knowledge and ideas. The workshop was officially opened by **Honourable Jesca Eriyo, Deputy Director General Productive and Social Sectors EAC**. She underlined the importance of energy for development, in particular in the East African Community, and that it is key to the EAC's mission to widen economic, political and cultural cooperation in East Africa. In addition, she pointed out that in order to attract investment and promote competitiveness, the EAC is welcoming the project and appreciates the support of RECP. She further urged the development partners to support the initiative, as it contributes to the EAC's strategy to scale up energy access in the region.

The meeting proceeded with a **Elsam Turyahabwe Byempaka, project development officer at the EAC Secretariat, giving the audience a brief overview of the energy development policies and strategies in EAC**, as well as providing the overall framework under which the advanced scoping for technical capacity building on small hydropower in East Africa was carried out by the EAC Secretariat and the Africa-EU Renewable Energy Cooperation Programme. It was followed by the **project presentation of Hans Hartung, team leader of the project**, who briefed the audience on the objectives of the project, involved stakeholders and the methodology used during the implementation of the project.

Emmanuel Michael-Biririza, hydropower expert from Tanzania and part of the implementing team, provided a **general background on small hydropower in the EAC** and proceeded to present the status of small hydropower and future projections, including available potential in East Africa, as well as current and planned installed capacities. Moreover, he outlined the policy and regulatory framework in each of the EAC Partner states in regard to small hydropower, as well as presented identified key stakeholders from public sector, private sector, academia, civil society and energy development partners. The presentation concluded with barriers to the development of the small hydropower sector in general.

Wycliff Jagwe, hydropower expert from Uganda, then moved on to present an **overview of technical capacity building specific to the small hydropower sector in the EAC**. He briefed the audience about the general situation of capacity building for small hydropower both in technical and vocational training and education, as well as in higher education in the EAC Partner States. He then proceeded to present identified key institutions who potentially could be involved in developing capacities in the small hydropower sub sector, as well as potential target groups who would benefit from training. Moreover, he pointed out the barriers specifically to small hydropower capacity building in EAC, which were compiled during the country visits to each of the EAC Partner States. The presentation was concluded by presenting the identified key



gaps in capacity building for small hydropower which have to be addressed urgently in order to promote the development of the sub sector.

In order to close the key gaps which were identified during the scoping exercise and discussed during the workshop, **Hans Hartung, team leader, presented recommendations to scale up capacity building for small hydropower in East Africa.** Each recommendation, operations and maintenance training, qualifying hydropower experts, improving networking between stakeholders as well as increasing visibility of small hydropower, included specific interventions to be carried out under supervision of the EAC Secretariat. After debating each of the interventions, the participants of the workshop once again underlined the importance of the interventions to the development of the small hydropower sub sector.

The meeting was closed by Eng. Mwamzali Shiribwa, Senior Superintending Principal Engineer, representing the Kenyan Cabinet Secretary for Energy and Petroleum, as the host of the workshop, providing key conclusions of the workshop.

The points summarized below are the **key conclusions of the workshop:**

1. The Deputy SG EAC, the Head of Energy Division at the AUC and the Ministry of Energy and Petroleum in Kenya emphasise the effective role and importance of small hydropower in transforming lives and increasing access to energy for economic transformation in the East African Community and in Africa.
2. A range of barriers were mentioned as hindrance to the effective utilisation of the huge potential that exists, among them being the lack of skilled technicians with hands-on experience as well as the limited number of hydropower experts in the East African Community. In addition, it was identified that there is a clear lack of networking opportunities for stakeholders in the sector, as well as a general lack of visibility for small hydropower.
3. The participating EAC Partner States and participants commend the EAC Secretariat for successful conclusion of the project and appreciate the recommendations. In addition, participants thank the EUEI PDF for the support offered to the EAC as well as the consultants for coming up with very concrete and tangible recommendations.
4. The Partner States call upon EAC to effectively mobilise implementation of the recommendations with active participation of the public institutions / agencies at national and local government level in the Partner States. Moreover, it was emphasised that the findings of the advanced scoping shall be shared with a wider range of stakeholders such as the Inter University Council of East Africa, the East African Civil Society Forum, as well as other existing frameworks to create greater awareness for small hydropower development.
5. To ensure quick results, there is need to learn from each other among Partner States as well as South-South cooperation. The key elements of the report, emphasising on a regional approach to ensure sustainability of the interventions, was as well echoed by participants.
6. Development partners drawn from the Italian Ministry of Foreign Affairs, World Bank, USAID, KfW, EIB, UNIDO and UN Habitat emphasise the need to build on existing initiatives and knowhow, and thereby avoiding duplications of efforts and retaining capacities. A particular mention was made stating the importance of linking efforts in the small hydropower sector to climate change initiatives.
7. The private sector and civil society called on the EAC Secretariat and the Partner States to prominently include private sector stakeholders, such as the Eastern Africa Federation of Engineering Organisation, as well as representatives from civil society and academia in the implementation measures which should start as soon as possible, seeing that the sector is evolving quickly and additional capacities are much needed.

8. In particular, Italy announced its commitment to support implementation of some selected aspects within the proposed recommendations already to begin this year 2015, and called upon other development partners to support the interventions. The Italian contribution to support interventions by EAC will be channelled through the African Union Commission. The RECP made a similar announcement, envisaging the possibility of supporting a follow-up intervention to be elaborated at a later stage.
9. The workshop noted the need for fast tracking of the establishment of the East African Centre for Renewable Energy and Energy Efficiency (EACREEE). It was noted that EACREEE will provide a platform for formulating common frameworks for the development of small hydropower, be a centre of excellence for promotion of renewable energy technologies including small hydropower and a central hub for networking.
10. The Final Report of the study is endorsed with comments to be taken into account by the consultants. The Final Report will form the basis for further work in the sector.
11. The Final report incorporating all the comments will be finalised and circulated to all the participants by end of June 2015.
12. The meeting ended at 17:00h.

List of Participants

Balla; Patrick	World Bank	Kenya	Energy Specialist
Barasa; Murefu	EED Advisory	Kenya	Partner
Biryomumaisho; Jonan	Ministry of Infrastructure	Rwanda	SCBI Energy Delivery Local Counterpart
Chege; John Mana	Institute of Energy Studies and Research - Kenya Power	Kenya	Head of Division - Renewable Energy
Denning; Kyle	Viability Africa	Kenya	Managing Director
du Preez; Jaap	USAID Power Africa	East Africa	East African Regional Advisor for Power Africa
Eriyo; Jesca	East African Community	East Africa	Deputy Secretary General
Ferrini; Luca	EUEI PDF	Italy	Advisor
Gachugi; Nathan	Viability Africa	Kenya	Head of Project Management
Gitahi; Titus Ndonga	Ministry of Energy	Kenya	Principal Superintending Engineer
Hartung; Hans	hydrophil	Germany	Team Leader (Consultant)
Jagwe; Wycliff	Aster Integral Private Ltd	Uganda	Regional Expert (Consultant)
Jaoko; Hancox	USAID	Uganda	
Kabira; Stella	Strathmore Energy Research Centre	Kenya	



Kimathi; Caroline	Energy Regulatory Commission	Kenya	
Kinuthia; Peter	EAC East African Community	East Africa	Senior Energy Officer
Kitio; Vincent	UNHABITAT	Kenya	Chief, Urban Energy Unit
Lenz; Florian	EUEI PDF	Germany	Consultant
Michael; Emmanuel	Nishati Associates Ltd	Tanzania	Regional Expert (Consultant)
Mugwe; Kiragu	European Investment Bank	Kenya	Energy Sector Engineer
Muthoni; Olive	Kreditanstalt für Wiederaufbau	Kenya	Project Officer, Energy
Muthoni; Jack	Icon Point Technologies	Kenya	Managing Partner
Mwangi; Luke	KTDA Power Company	Kenya	
Ndomba; Preksedis	University of Dar es salaam, College of Engineering & Technology	Tanzania	Professor
Ngugi; Beatrice	KTDA Power Company	Kenya	
Niyongabo; Philippe	African Union Commission	Africa	Head of Energy Division
Njihia; Richard	Jomo Kenyatta University of Agriculture and Technology	Kenya	Researcher Renewable Energies
Njoba; Andrew	DFID Renewable Energy Promotion Program	Kenya	Team Leader
Njugi; David	Kenya Association of Manufacturers	Kenya	Project Coordinator
Nyanda; Emilian	Ministry of Energy and Minerals	Tanzania	Energy Officer, Renewable Energy
Odete; Eve	Multitrack Policy consultants	Kenya	Director
Omwenga; Violet	Viability Africa	Kenya	Project Manager
Onyari; Richard	KTDA Power Company	Kenya	
Onyiro; Milton	Nottawasaga Institute	Kenya	Associate Consultant
Otaki; Katsuhiko	Renewable Energy Consultant	Japan	
Otieno; David	EUEI PDF	Kenya	Project Manager
Rotili; Paolo	Italian Ministry of Foreign Affairs	Italy	
Sanga; Godfrey	GVEP International	Kenya	Engineer

Sebbit; Adam	Makerere University - Department of Mechanical Engineering	Uganda	Senior Lecturer, Energy Specialist
Semaganda; Henry	Rural Electrification Agency	Uganda	
Shiribwa;	Ministry of Energy and Petroleum	Kenya	Superintending Principal Engineer
Songela; Francis	Mapembasi Hydropower Company Limited	Tanzania	Project coordinator
Turyahabwe; Elsam Byempaka	EAC East African Community	East Africa	Project Development Officer
Tuyishime; Yves	Rwanda Development Board	Rwanda	Energy Investment promoter
Vlahakis; Panos	IFC Worldbank - Dev Grp	Kenya	
Wamala; Julius	Ministry of Energy and Mineral Development	Uganda	Energy Officer
Wanjiku; Pauline	UNIDO	Kenya	Project Cordinator - LCET