



# AIDE MEMOIRE

## Scaling-up Renewable Energy Program in Malawi

### Scoping Mission



11 to 13 April 2016

Lilongwe

Malawi

## I. Introduction and Background

1. In June 2014, Malawi was selected as one of the new pilot countries to participate in the Scaling-up Renewable Energy Program in Low Income Countries (SREP) based on the Expression of Interest submitted to the Climate Investment Fund Administration Unit (CIF AU). As a result, Malawi was invited to start preparing an Investment Plan (IP) to receive funding from the SREP. There was a first mission where the SREP National Focal Point of Malawi was invited to The Hague, in the Netherlands, to attend a SREP Pilot Countries Workshop in February 2015, which main objective was to assist SREP pilot countries in presenting and sharing experiences among new and existing pilot countries on progress and bottlenecks in the development and implementation of SREP IP.

Under the leadership of the Government of Malawi (GoM), a joint African Development Bank (AfDB), World Bank (WB) and International Finance Corporation (IFC) Mission Team<sup>1</sup> visited Lilongwe, from the 11<sup>th</sup> to the 13<sup>th</sup> April 2016, to support the GoM launch in the preparation of the SREP IP.

2. The objective of the Scoping Mission was to: (i) introduce the key features of the SREP program to the relevant ministries within the GoM, other development partners, and other key stakeholders who are expected to interact with the GoM in the development of the SREP Investment Plan (IP), (ii) hold preliminary consultations with key stakeholders about SREP implementation and consolidate necessary documentation, (iii) undertake an assessment of necessary technical assistance and resources required to develop the SREP IP based on the country readiness and available relevant studies and documents, (iv) prepare the TORs for the upcoming Joint Mission; and (v) agree on next steps and develop a detailed timeline for the preparation of the IP.

3. The GoM team was led by the SREP National Focal Point, Mr Joseph Kalowekamo, Deputy Director - Department of Energy Affairs, Ministry of Natural Resources, Energy and Mining (MoNREM),.

4. This Aide Memoire records the scoping mission's findings and recommendations. It was discussed at the wrap-up meeting chaired Mr James Ali, Chief Director (Energy) in his office on 13th April 2016 in presence of the SREP National Focal Point and Mr Lewis Mhango, Director of Energy affairs and the Mission Team. This Aide Memoire is subject to endorsement by the management of the AfDB as the lead Multilateral Development Bank (MDB) for the SREP Malawi. Finally, the team expresses its strong appreciation for the support and cooperation accorded to the mission by the management and staff of the ministries, public agencies and all stakeholders with whom the Mission interacted.

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<sup>1</sup> (i) AfDB: Joao Duarte Cunha (Chief Climate Finance Officer), Liezl Harmse (Energy Specialist), (ii) WB: Isabel Neto (Senior Energy Specialist) and (iii) IFC: Daniel Shepard (Regional Lead for Clean Energy).

## II. Scoping Mission Activities

5. The mission had extensive discussions and consultations with different stakeholders. These included: (i) a kick off meeting with the Chief Director of the Ministry of Natural Resources, Energy and Mining (ii) a meeting with the Director of Debt and Aid, Ms Madalo Nyambose, Assistant Directors of Debt and Aid, Ms. Betty Ngoma and Mr Alfred Kutengule at the Ministry of Finance, Economic Planning and Development (MoFEP&D)) (iii) meetings with the national task force for SREP, (iv) a meeting with NGOs and development partners, (v) a meeting with Private and Financial Sector representatives (vi) a meeting with the Green Climate Fund (GCF) Focal Point. A detailed list of stakeholders consulted during the Scoping Mission is provided in Annex I.

6. During the Scoping Mission, stakeholders discussed the main constraints hampering the development of Renewable Energy (RE) in Malawi which ranged from institutional, regulatory and legal constraints to technical/human capacities and economic and financial barriers. Potential areas of support/investment in the context of the SREP objectives were also discussed.

7. The mission introduced the objectives, scope, and type of investments supported under the SREP program, as well as the activities involved in the country-led SREP process. Financing from SREP is guided by a number of principles. The SREP financing is expected to: (i) address the additional costs and risks associated with renewable energy technologies, which adversely affect the viability of investments in the renewable energy space, (ii) meet the specific requirements of removing financial and institutional barriers and to leverage additional public and private financing, (iii) “crowd-in” the private sector, (iv) finance investments and capacity building for both public and private sector entities, (v) increase the installed renewable energy capacity in a country’s energy supply in line with relevant national strategies and policies plans, and (vi) support proven renewable technologies.

8. The Mission also informed that SREP financing could be provided to various renewable energy technologies including solar, geothermal, wind, hydropower (below 10MW per site), and biomass. The funding could be deployed in the form of technical assistance grants, concessional loans for both public and private sector investments (in the latter, senior debt or mezzanine finance). The use of SREP funding for financial intermediation could also be an option to address issues and challenges faced by small and medium enterprises and households in accessing finance for renewable energy technologies.

9. The Mission indicated that the SREP Sub-Committee has agreed to an indicative envelope of up to USD 50 million in SREP funding distributed between grants and

loans depending on the country risk debt distress at the time of endorsement of the IP. The amount includes a grant of up to USD 300,000 available for the preparation of the Country Investment Plan (IP).

10. The Mission also clarified that recent pledges made to the SREP are insufficient to cover the implementation of projects/programs proposed in the IPs for the new countries, including Malawi, and that at present additional pledges/contributions to the SREP will be needed to enable the projects identified in the investment plan for Malawi to enter the SREP pipeline for funding consideration. However, the SREP Sub-Committee will consider endorsing IPs from all new pilot countries on a first-come first-served basis taking into account the quality of the IP regardless of funding availability. The Government of Malawi is encouraged to work with MDBs to also explore other sources of funding for the projects identified in the investment plan, including from the Green Climate Fund, among others.

### **III. Mission Findings and Agreements**

11. The main findings and agreements from the discussions that the Mission held with Government and relevant stakeholders, including representatives from development partners and the private sector are summarized hereunder.

12. National Task Team: The SREP Focal Point confirmed that an inter-ministerial National Task Force is set up to prepare the IP which will include representatives from:

- i) Department of Energy Affairs
- ii) Tertiary Education services (Mzuzu University & the Polytechnic)
- iii) Malawi Investment and Trade Centre
- iv) Ministry of Finance, Economic Planning and development.
- v) Ministry of Industry and Trade
- vi) Department of Water Resources
- vii) Electricity Supply Commission of Malawi (ESCOM)
- viii) National Commission for Science and Technology (NCST)
- ix) Renewable Energy Industries Association of Malawi (REIAMA)

Refer to Annex IV for a list of NTF members.

13. Potential Areas of Engagement: The GoM and MDB partners will work to align the SREP IP with all relevant national strategies and policies without prejudice to the SREP investment criteria and to ongoing activities in the sector. The National Task Force will also consult further with bilateral development partners in the country to build synergies and avoid duplication of efforts. The IP will demonstrate how the proposed activities will lead to the reduction of barriers for renewable energy development and market transformation. Potential areas of SREP intervention might include: (i) in the on-grid space, utility-scale solar PV IPP programme, wind, small-scale hydro and geothermal project development programmes; (ii) in the off-grid space,

market development programmes on clean energy mini-grids (using mini-hydro, solar, biomass, hybrid technologies) and solar home systems (solar PV); energy for thermal use: sustainable use of biomass for cooking. Cross-cutting to all interventions is an interest in enabling private sector participation.

14. The GoM has agreed to develop a first draft of the IP as well as a list of concept notes ahead of the Joint Mission and in sufficient time to allow all interested stakeholders to review and provide their inputs. These concept notes should include an estimate of the resources required by the GoM not only to address policy and governance issues hindering the deployment of specific renewable energy technologies, but also an indicative financing plan for the preparation of the SREP projects.

15. Preparation of the Investment Plan: The GoM has requested support from the MDBs by accessing resources under the available IP Preparation Grant (up to USD 300,000). The GoM will directly implement the grant and make use of its capacity and expertise linked to the implementation of AfDB and WB projects. The TOR for the consulting services will be developed by the GoM and cleared by the MDBs. The mission highlighted that the preparation of the IP should be done through a participatory process and called upon the National Task Force to show the highest level of commitment in developing and finalizing the IP.

16. The IP is to be owned by the Government as a whole and should be developed in consultation with the various national stakeholders for the development of renewable energy in the country. Therefore, it is important that various partners, including Government representatives, private sector, commercial and development banks, and Non-Governmental Organizations (NGOs) be invited to contribute to the discussion and final selections of projects / programmes for the IP. In order to get the IP development work under way, the GoM has agreed to: (i) develop comprehensive and detailed TORs for the work of the consultant to be recruited; (ii) prepare the background sections of the IP, encompassing country, sector and renewable energy contexts, with reference to key policies, strategies and plans in force and under preparation; (iii) organize internal consultations to define clear objectives for RE development and a prioritization methodology in order to narrow down the set of potential projects/programmes to be developed under the SREP; (iv) continue consultations with bilateral/development partners with a view to explore gaps, synergies and complementarities with on-going and up-coming programmes (e.g. MCC IPP framework and sector unbundling, DfID Energy Access Compact, GIZ EnDev, etc.); and (vi) prepare a detailed timeline with disaggregated tasks and responsibilities, to be updated periodically.

17. A number of relevant studies are currently in process and should be used to supplement/inform the development of the SREP IP, e.g. the i) Integrated resource plan (funded through ESSP), ii) Renewable energy strategy, iii) Energy policy and iv) the IPP

framework, v) the mapping exercises on solar and wind; vi) feasibility/pre-feasibility studies on bagasse co-generation and geothermal; vii) the inventory and studies being carried out in the framework of SE4ALL in Malawi.

18. Renewable Resources. There is significant renewable energy potential in Malawi, though very little has been harnessed so far. This potential includes:

➤ *Hydroelectricity:*

Up to 900MW of potential across a number of perennial rivers, with potential sites ranging from 40MW to 200MW. A number of feasibility studies for some projects are already underway.

➤ *Biomass:*

Potential is high from forest resources and crop waste (biomass), sugar cane (bioethanol) and animal waste (biogas). MoNREM is in the process of finalizing a feasibility study for a bagasse co-generation facility.

➤ *Solar:*

Average estimated horizontal irradiation of 5.2 - 5.4 kWh/m<sup>2</sup>/day. There is currently one grid-connected solar PV plant of 850 kW providing power to the Lilongwe Airport and injecting the excess into the grid. The MoNREM is currently developing a mapping exercise for solar potential in the country, an activity funded under ESMAP. Preliminary maps are already available and will be fine-tuned using actual measurements from stations installed across Malawi.

➤ *Wind:*

The potential resource is estimated in the range of 3-7 m/s and currently being further assessed from actual measurements from 6 sites across Malawi – an activity which is part of the World Bank-funded Energy Sector Support Project (ESSP)

➤ *Geothermal:*

Due to its geographical location bordering the Rift Valley, the presence of various hot springs, and initial surface measurements there may be potential for geothermal generation. A more detailed assessment is just starting (funded through ESSP) and is expected to perform technical,

economic and financial pre-feasibility study on the two most potential sites in the country

#### **IV. The Way Forward**

19. Annex II includes a comprehensive table with all the actions required and respective timelines up to endorsement of the SREP IP. This timeline, actions, roles and responsibilities of each of the parties was discussed with and agreed to between the Mission and GoM as the roadmap for submission of the IP to the SREP Sub-Committee.

20. The mission shared some example documents from other countries with the SREP Focal Point. These can be used to give the National Task Force a better idea as to what is needed.

21. The National Task Force is to convene a kick-off meeting during May 2016 to formalize their approach, roles and responsibilities and to define the Country SREP objectives. Among the first activities is the development of the terms of reference for the consultancy to support the preparation of the IP.

22. The Scoping Mission would like to thank all stakeholders that participated in the Scoping Mission for their valuable inputs and collaborative spirit.

## V. Annexes

### Annex I – List of Stakeholders Met

# Attendance Register for the SREP Kick-off Meeting with Ministry of Natural Resources, Energy and Mining (MNREM), at MoNREM Conference Hall, on 11th April, 2016, at 16:00hrs

No	Name	Institution	Designation	Email
1	James Ali	Ministry of Natural Resources, Energy and Mining	Chief Director for Energy Affairs	jameschibwana@yahoo.com
2	Joseph kalowekamo	Department of Energy Affairs	Deputy Director (Alternative Sources of Energy)	<a href="mailto:jkalowek@gmail.com">jkalowek@gmail.com</a>
3	Joao Cunha	AfDB	SREP coordinator	<a href="mailto:j.cunha@afdb.org">j.cunha@afdb.org</a>
4	Khumbolawo Lungu	Department of Energy Affairs	Assistant Director(MAREP)	<a href="mailto:khumbolungu@gmail.com">khumbolungu@gmail.com</a>
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6	Daniel Shepherd	IFC	Senior Operations Officer	<a href="mailto:dshepherd@ifc.org">dshepherd@ifc.org</a>
7	Isabel Neto	World Bank	Senior Operations Officer	<a href="mailto:ineto@worldbank.org">ineto@worldbank.org</a>
8	Jonathan Banda	AfDB	Senior PSD Officer	<a href="mailto:j.banda@afdb.org">j.banda@afdb.org</a>
9	Liezl Harmse	AfDB	Power engineer-Malawi TTL	<a href="mailto:l.harmse@afdb.org">l.harmse@afdb.org</a>



## Attendance Register for the SREP Kick-off Meeting with Ministry of Finance, Economic Planning and Development (MoFE&D),at MoFE&D Conference Hall (Capital Hill),on 11th April,2016,at 17:15hrs

No	Name	Institution	Designation	Email
1	Mrs.Betty Ngoma	Ministry of Finance,Economic Planning and development.	Assistant Director,Debt and Aid Management	<a href="mailto:ngomab@finance.gov.mw">ngomab@finance.gov.mw</a>
2	Mr.Kutengule	Ministry of Finance,Economic Planning and development.	Assistant Director,Debt and Aid Management	<a href="mailto:akutengule@finance.gov.mw">akutengule@finance.gov.mw</a>
3	Tayani Banda	Ministry of Finance,Economic Planning and development.	World Bank Desk Officer	<a href="mailto:tanibanda@gmail.com">tanibanda@gmail.com</a>
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5	Joseph kalowekamo	Department of Energy Affairs	Deputy Director (Alternative Sources of Energy)	<a href="mailto:jkalowek@gmail.com">jkalowek@gmail.com</a>
6	Thokozani Malunga	Department of Energy Affairs	Energy Officer	<a href="mailto:tnmalunga@yahoo.com">tnmalunga@yahoo.com</a>
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11	Liezl Harmse	AfdDB	Power engineer-Malawi TTL	<a href="mailto:i.harmse@afdb.org">i.harmse@afdb.org</a>

## Attendance Register for the SREP Working Session with Ministry of Natural Resources, Energy and Mining (MNREM) and related Agencies, at Department of Energy Conference Hall, on 12th April, 2016, at 09:00hrs

No	Name	Institution	Designation	Email
1	Wilfred kasakula	Malawi Energy Regulatory Authority (MERA)	Senior Renewable Energy expert	<a href="mailto:wkasakula@meramalawi.mw">wkasakula@meramalawi.mw</a>
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7	Liezl Harmse	AfDB	Power engineer-Malawi TTL	i.harmse@afdb.org
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21	Liezl Harmse	AfdDB	Power engineer-Malawi TTL	<a href="mailto:i.harmse@afdb.org">i.harmse@afdb.org</a>
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23	Mr. Francis Gondwe	MERA	lincasing officer	<a href="mailto:fgondwe@meramalawi.mw">fgondwe@meramalawi.mw</a>
24	Francis R.wadi	Department of Irrigation	Senior Irrigation Engineer	<a href="mailto:frncswadi@yahoo.co.uk">frncswadi@yahoo.co.uk</a>
25	Joao Cunha	AfDB	SREP coordinator	<a href="mailto:j.cunha@afdb.org">j.cunha@afdb.org</a>

# Attendance Register for the SREP Meeting with - Meeting with Development Partners (DPs) from the Energy Sector Group, at Department of Energy Conference Hall, on 12th April, 2016, at 11.30-12.30hrs

No	Name	Institution	Designation	Email
1	Ezig Basar	GIZ	Advisor	<a href="mailto:ezgi.basar@giz.de">ezgi.basar@giz.de</a>
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## Attendance Register for the SREP Meeting with Private sector, Financial Sector and NGOs ,at Department of Energy Conference Hall, on 12th April,2016,at 14.00-15.00hrs

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18	Thokozani Malunga	Department of Energy Affairs	Energy Officer	tnmalunga@yahoo.com
19	Daniel Shepherd	IFC	Senior Operations Officer	dshepherd@ifc.org
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21	Jonathan Banda	AfDB	Senior PSD Officer	j.banda@afdb.org
22	Joao Cunha	AfDB	SREP coordinator	j.cunha@afdb.org

**Attendance Register for the SREP - Meeting with Green Climate Fund (GCF) Focal Point (environmental department) ,at Environmental affairs Department Conference Hall, on 14th April,2016,at 08:00 - 09:00hrs**

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**Attendance Register for the Meeting with Malawi SREP  
National Task force, held on 13th April, 2016, at  
Department of Energy Conference Hall, From 09.00-  
12.00hrs**

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9	Liezl Harmse	AfDDB	Power engineer-Malawi TTL	i.harmse@afdb.org
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16	Daniel Shepherd	IFC	Senior Operations Officer	dshepherd@ifc.org
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## Annex II – Indicative Timeline

#	ACTIONS	DEADLINE	RESPONSIBLE	COMMENTS
1	Send the Preparation Grant form to AfDB to circulate with CIF for approval	April 2016	SREP Focal Point	
	Final TOR for consultant	Mid-May 2016	NTF,	Interim draft by end April
3	Consultant recruited	End July 2016	SREP Focal Point	
	Background sections / notes / write-ups / Govt Prioritization	Early August 2016	FP, NTF	Based on inputs from SE4All, IRP, further internal consultations
4	First draft IP with concept notes of projects (including Prioritization of Technology exercise against SREP/National criterion)	End September 2016	SREP Focal Point and National Task Force	
5	TORs for the Joint Mission sent to the CIF AU for circulation to SREP SC	Early October 2016	AfDB	4 weeks prior the Joint mission
6	MDB Joint Mission and stakeholder consultations to review the First draft IP with its concept notes and way forward	November 2016	MDBs/National Task Force, other Stakeholders	
7	Finalization of the Second draft of IP	December 2016	SREP Focal Point and Task Force (MDBs can be involved as well)	

8	MDB review of Second draft of IP	January 2017	MDBs	
9	Disclosure of IP for public consultations (online posting on MoE website for 2 weeks)	February 2017	MoE	
10	SREP Expert quality review of the IP	March 2017	Independent Expert / MDBs / SREP Focal Point	In parallel with online posting
11	Revision of the IP based on comments received from SREP Expert and Public consultations	March 2017	SREP Focal Point and Task Force / MDBs	
12	Submission of the IP to the SREP Sub-Committee	April 2017	SREP Focal Point	1 month before the SREP Sub-Committee meeting
13	Endorsement by SREP Sub-Committee	May 2017	SREP Focal Point	To be determined by the CIF AU (usually in April/May and November)

### Annex III – Scoping Mission Agenda

Date	Time	Activities	Responsible	Place
<b>Mon 11/4</b>				
	14.30 - 15.30	- MDB's internal Meeting (Resident Rep /CPO or Country Economist)	MDBs	AfDB office
	16.00 - 17.00	- Kick-off Meeting with Ministry of Natural Resources, Energy and Mining (MNREM)	MDBs, SREP national focal point	MNREM Conference Room, Capital Hill, Lilongwe
	17.15 - 18.15	- Kick-off Meeting with the Ministry of Finance, Economic Planning and Development (MoFEP&D)	MDBs, SREP national focal point	MFEP&D Conference Room, Capital Hill, Lilongwe
<b>Tues 12/4</b>	9.00- 11.00	- Working session with Ministry of Natural Resources, Energy and Mining and related agencies : <b>Presentation of SREP modalities and discussions on the sector, Opportunities and Challenges</b>	MDBs, SREP national focal point, NTF	Department of Energy Affairs Conference Room, City Centre, Lilongwe
	11.30- 12.30	- Meeting with Development Partners (DPs) from the Energy Sector Group <b>to discuss Energy Sector Issues, Opportunities &amp; Challenges</b>	MDBs, DP, SREP national focal point, NTF	Department of Energy Affairs Conference Room
	14.00- 15.00	- Meeting with private sector, financial sector and NGOs <b>to discuss Energy Sector Issues, Opportunities &amp; Challenges</b>	MDBs, SREP national focal point, NTF	Department of Energy Affairs Conference Room, City Centre, Lilongwe
	15:30- 16:30	- Meeting with Green Climate Fund (GCF) Focal Point (environmental department)	MDBs, SREP national focal point, NTF	
<b>Wed 13/4</b>	09:00- 12:00	- Meeting with SREP National Task Force (NTF) to discuss roadmap for the preparation of the investment plan & Joint Mission: outline of the IP (ii) confirm the task force (iii) consolidate all the required information (iv) discuss the preparation grant and (v) government priorities for the sector	MDBs, SREP national focal point, NTF	Department of Energy Affairs Conference Room, City Centre, Lilongwe
	14 :00- 16 :00	- Draft Aide-Mémoire	MDBs,	AfDB, Kang'ombe House, City Centre, Lilongwe
	16:30- 17:30	- Wrap up meeting with MNREM	- MDBs, SREP national focal point,	- MNREM Conference Room, Capital Hill, Lilongwe
<b>Thurs 14/4</b>	09:00- 10:00	- Wrap up MDB Internal	- MDBs	- AfDB office
<b>Day 4</b>				

## Annex IV – SREP Malawi - National Task Force

SREP NATIONAL COMMITTEE Members			
No	Name	Institution	Designation
1	Joseph kalowekamo	Department of Energy Affairs	Deputy Director
2	Thokozani Malunga	Department of Energy Affairs	Energy Officer
3	Joss Blomire	Department of Energy Affairs	Senior renewable Energy Advisor
4	Khumbolawo Lungu	Department of Energy Affairs	Ast Deputy Director
5	Diliza Nyasulu local Consultant	SE4ALL	Principal Energy Specialist
6	Mr.Fredrick Munthali	National Commission for science and Technology	Chief Research services officer.
7	Kondwani Gondwe	Mzuzu University	Lecturer
8	Dominick Chanyenga	Malawi Investment and Trade Centre	Investors Service officer
9	Emmanuel Muleso	Malawi Investment and Trade Centre	Planning and Research officer
10	Daudi Chinong`one	Ministry of Finance, Economic Planning and development.	Economist(Planning Section)
11	Mr. Francis Gondwe	MERA	Lincesing officer
12	Gift Khwimba	Ministry of Industry and Trade	Investment promotion Officer
13	Mr. Peter Kadewere	Department of Water Resources	