



OVERVIEW OF SE4ALL ACTIONS IN UGANDA

Simon KALANZI, SE4ALL National Focal Point, Uganda

Pépin TCHOUATE HETEU, EU SE4ALL TA Team leader, Uganda

3rd Annual Workshop on Advancing SE4ALL country action in Africa
9 – 10 February 2016 - Abidjan

Overview of SE4ALL initiative in Uganda

- Opted-in 2012
- Steering Committee (MEMD, REA, EU, UNDP, and KfW) with monthly meetings
- SE4ALL Secretariat under MEMD (2014)
- SE4ALL Action Agenda (validated June 2015) endorsement by Cabinet in progress
- SE4ALL Investment Prospectus (02/2016)
- Piloting SE4ALL in 3 selected districts (05/2015 – 02/2016)
- Communication strategy (ongoing)
- SE4ALL Energy Database and M&E Framework (ongoing)
- Project portfolio for increased electricity access (ongoing)

SE4ALL goals for Uganda by 2030

Universal access to modern energy services	Doubling global rate of improvement of energy efficiency	Doubling share of renewable energy in global energy mix
<p>Electricity access: >98% of population</p> <p>Access to modern cooking solutions: >99% of population</p>	<p>Reduce national wood consumption by 40%</p> <p>Improve energy efficiency of specific power users by min 20%</p>	<p>Renewable energy share: >90% of Total Final power consumption</p> <p>>36% of Total Final thermal energy consumption</p>



This project is funded by the European Union ³

Priority actions: Access to modern energy services

Households 2014 7,416,343	Access to electricity			Access to clean cookstoves		
		households	rate		households	rate
Baseline	2014	1,953,018	26.1%	2014	535,000	7.2%
Existings plans	2028	4,320,154	45.9%	2022	5,535,000	62.4%
Gap by 2030		7,636,482			6,421,636	
Households 2030 11,956,636 Population 56,196,190	SHS	2,925,924		LPG	1,000,000	
	Minigrids	130,000		Biogas	60,000	
	Microgrids	120,000				
	on-grid	4,460,558		improved wood/charcoal	5,361,636	

Market for wood /charcoal ICS	~ 20 millions towards 2030
Need for ICS production	1,3 million per annum
Current ICS production capacity in Uganda	240 – 300,000 units per annum

Priority Energy efficiency actions: Electricity

Suggested actions	Sector	Estimated savings
Energy efficiency actions in 100 most energy intensive industries	Multiple	200 – 400 GWh/year
Dissemination of 3,000,000 LED and efficient appliances	1 million urban households	1000 - 1600 GWh/year



This project is funded by the
European Union 6

Priority Energy efficiency actions: Biomass

Suggested actions	Sector	Expected savings
Dissemination of improved kilns	Bricks making, Small scale lime production Fish smoking	2400 ktons wood/year
Using wood chips or briquettes instead of wood logs	Tea industry	14.2 ktons wood/year
Using briquettes and new burner technology	Vegetable oil processing	61 ktons wood/year
Replacing inefficient technologies	Local distilleries	120 ktons wood/year
Dissemination of improved cookstoves	Hotels restaurants	80 ktons wood/year
Dissemination of improved cookstoves	Households (5.36 million by 2030)	1520 ktons wood 2890 ktons charcoal/year
Dissemination of improved charcoal	Charcoal production (30 000 units by 2030)	420–720 ktons wood/year

Selection from USE4ALL Investment Prospectus

SE4ALL goals addressed	Contact organisation	Project description	estimated investment cost	Financing status
Access	UETCL	Construction of 445 km of 132 kV lines	125.34 mUS\$	Gap 125.34mUS\$
Access	REA	Electrification of 364 rural towns and trading centres	3,500 mUS\$	Gap 2,500 mUS\$
Access	WESGAS	Construction and operation of 4 LPG storage and refilling stations	1.6 mUS\$	Gap 1.6 mUS\$
RE Generation	MEMD	HPP: AYAGO 840MW, KIBA 300MW, UHURU 300MW, ORIANG 392MW, AGAGO-83MW	6,000 mUS\$	Gap 6000 mUS\$
RE generation	Multiple	Construction of 13 small scale HEP totalling 64.7 MW	232.5 mUS\$	Gap 232.5 mUS\$
Access, RE generation	MEMD	PV based rural electrification (minigrids, SHS and on-grid) and water supply and productive uses	20 mUS\$	Gap 20 mUS\$
Energy Efficiency	HIMA Cement	Implementing EE measures	5.4 mUS\$	Gap 5.4 mUS\$
Energy Efficiency	MEMD	Construction of 4000 institutional woodstoves and 1000 biolatrines in schools, prisons and health centres	7.25 mUS\$	Gap 7.25 mUS\$
Access, Energy Efficiency	MEMD	Developing the production and market of domestic improved cookstoves	70 mUS\$	Gap 70 mUS\$

Lessons learnt from AA/IP development process

- **Data collection & Monitoring is a challenge**
- **Stakeholders are reluctant of Long term planning**
- **Capacity for project development is highly needed**
- **SE4ALL AA @ district level is a realistic approach of tackling energy issues**
 - » **Replicable, collaborative, inclusive and more effective**
- **Collaboration with DP, public and private, agencies, local administrations and Ministries is a must**



This project is funded by the
European Union ⁹

Support needed for implementation?

- **Piloting Database and M&E Tool**
- **Integration of SE4ALL Database in the MEMD Database and support to proper energy balance**
- **Development of Action Agenda in districts**
- **Pre & Feasibility studies of mini/micro grids**
- **Capacity Building of District Local Governments and implementing agencies**
- **Funding of projects**
- **Operationalisation of the SE4ALL Secretariat**



This project is funded by the
European Union

**We would like to thank
support**



for its continuous

and invite you all to come on board.

Contact: Simon Kalanzi, SE4ALL National Focal Point, Uganda
kalanzi@energy.go.ug Tel: +256 702602285