

Renewables For Growing Cities in Africa: Uganda

2nd September 2012, Naples, Italy

GIZ- PREEEP

and

**Biomass Energy Efficient Technologies – Uganda
(BEETA)**

Promotion of Renewable Energy and Energy Efficiency Programme - PREEEP

Objective:

“ increase the benefits of modern and efficient energy services for the population and economy of Uganda”

Our approach:

- National, district and community levels

Main fields of intervention

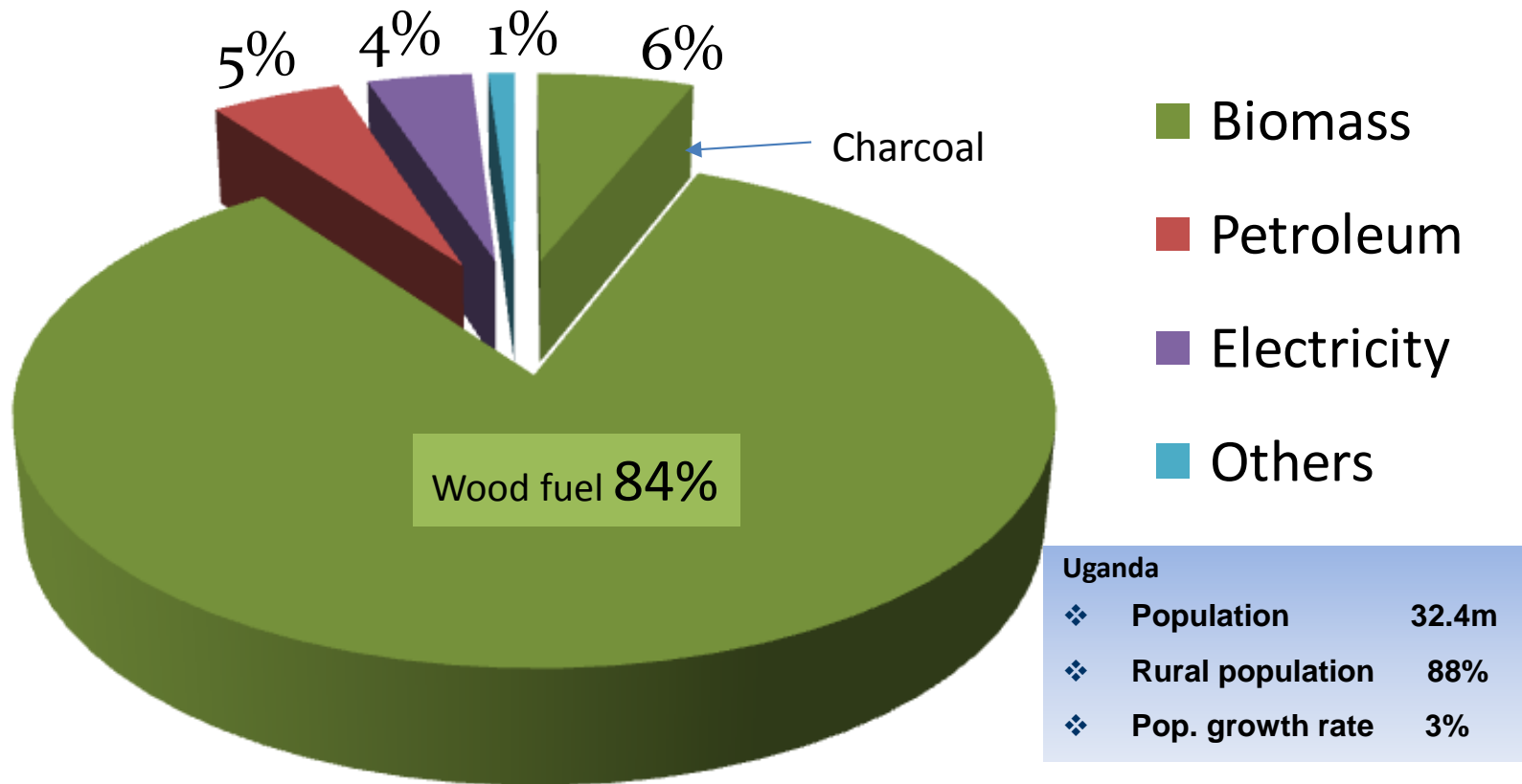
- Rural Electrification;
- Energy Efficiency; Biomass,
- Energy policy, Education,
- Cooperation with private sector

Main sources of finance

BMZ ,EnDev, BMU and EU

Promotion of Modern Biomass Energy Technologies

Biomass in Uganda's Energy Mix



Source: MEMD Energy Balance Report 2010

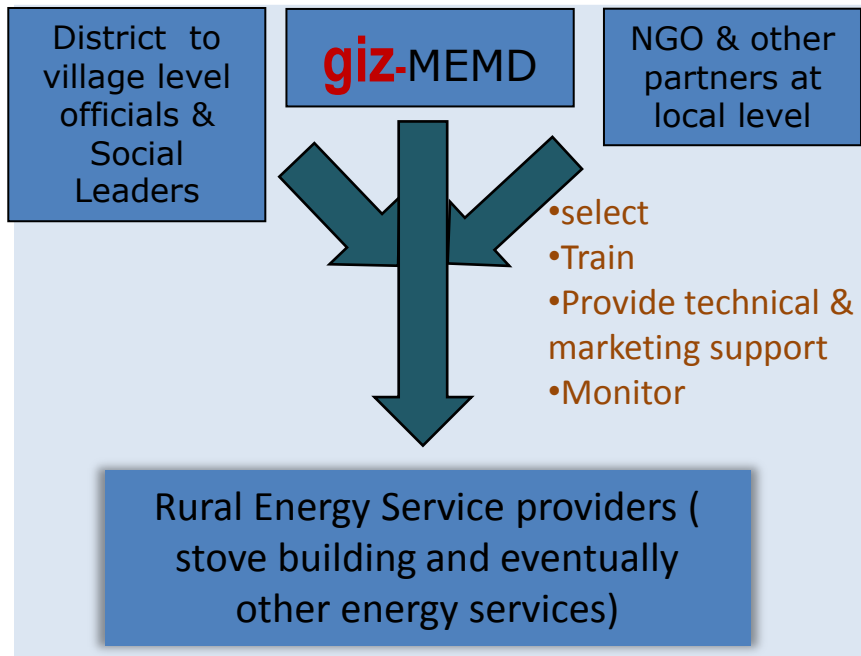
Promotion of Modern Biomass Energy Technologies

To promote efficient biomass usage to reduce fuel wood consumption through the use of energy efficient household stoves, baking ovens and institutional stoves

Strategy

Social Marketing
For all rural and Peri-urban areas

Purely commercialized
Mainly in urban centers and for institutional stoves



- Training and skill development for stakeholders In the sector
- Promotional Support (EEW,...), market linkages
- Awareness creation and initiation of large scale adoption measures
- Monitoring and technical support
- Supporting standards , testing and verification capacity development (Supporting CREEC)
- Technical and organizational support to BEETA

Promotion of Modern Biomass Energy Technologies

Technologies



Impacts on income and on forest coverage

	fuel saving kg per month /Unit	Fuel saving kg per year/ Unit	currently using stoves	Total annual fuel saving in Tonnage	forest coverage @ 20 tons per hectare	price of fuel UGX per kg	Monitory saving per annum per entity UGX	Monitory saving per annum in Euros @ 3156UGX/Euro (030712)	overall annual saving in Euro
HH	122.6	1471	400,000	588,400	29,420	232	341,272	108	43,253,739
Institution	2068	18612	300	5,584	279		4,317,984	1,368	410,455
SME	1447.6	13028	120	1,563	78		3,022,589	958	114,927
Totals				595,547	29,777				43,779,121

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Promoting Efficient Biomass Energy Technologies!

- Biomass Energy Efficient Technology Association BEETA was formed in 2009 and registered on 29th September 2010
- Registration certificate number is 123546
- Has MOU and Articles of Association in place
- Has over 50 registered members
- Completed strategic planning meeting and draft strategic plan is in place
- Currently supported by MEMD and GIZ/PREEEP
- E-mail: beeta.tec@gmail.com
- Website: www.beeta.net

Activities Implemented by BEETA

- Mobilizing, recruitment and mapping of members
- Planning and coordinating biomass programs
- Fundraising / resource mobilization for planned activities
- Organizing workshops for capacity building for its members
- Organize and holds planning meetings
- Information and networking
- Promoting quality assurance on promoted renewable energy technologies
- Marketing of renewable energy technologies – EEW, etc.
- Linking up with other development partners
- Monitoring of its programs and members projects

**PROMOTED RENEWABLE
ENERGY TECHNOLOGIES FOR
NEW AND GROWING
CITIES IN UGANDA**

Improved charcoal stove and a Portable shielded firewood stove .



Charcoal and portable firewood stoves



Mud firewood stove and an Institutional stove.



Institutional stoves promoted for schools.



Oven promoted for SME



Biomass technology reducing indoor air pollution and smoke related diseases



Cooking on an improved stove with provision of water heater using biomass technologies.



Challenges to address

- Supply lagging behind Demand due to inadequate production capacity
- *Few Incentive programmes for RE and also for R&D, training, awareness building among clients needed by enterprises (members, non-members)*
- Inadequate quality control services for better RE technologies promoted and efficient utilization of renewable energies
- Low access to finance

Challenges.....

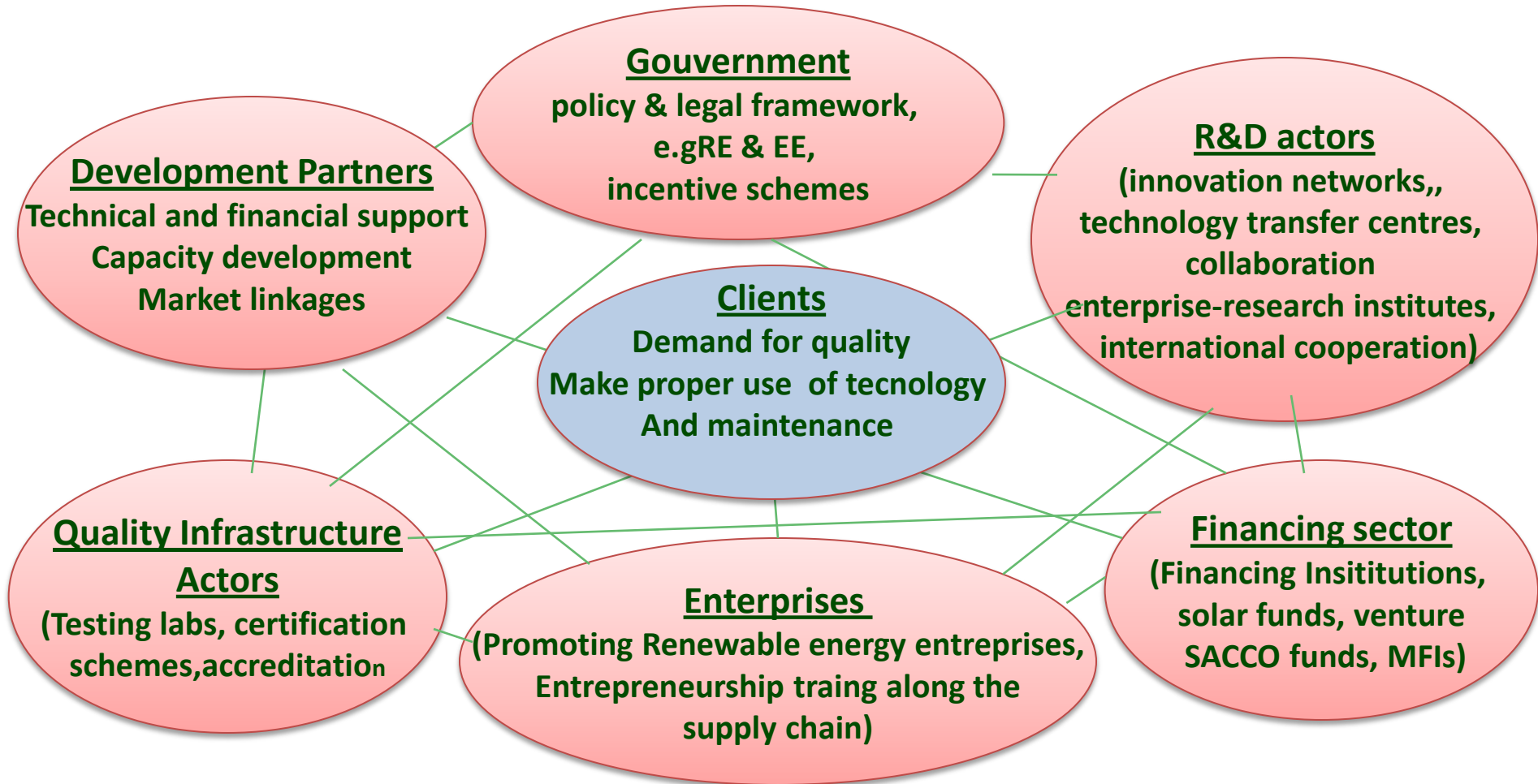
- Community members are slow in adjusting from traditional stoves to new renewable energy saving stoves
- Retailers slow to take on efficient renewable energy saving stoves to replace the traditional stoves

Way forward

- Linking up with development partners and financing entities for support
- Capacity development of members in relevant skills technologies and information
- Awareness raising to boost demand for RE products and services
- Standard setting, testing , monitoring of technologies being promoted
- Recruitment of new members into the association
- Lobbying and advocating for government to functionalize the renewable energy policy
- Setting centers of excellence

The Role of Stakeholders

Possible interventions/ approaches for RE in
New & growing cities of Uganda



End

Thank You
For your attention!