



# 10th Annual Meeting and General Assembly **THEMATIC SESSION**



## **Access to Energy for All in Rural Areas in Africa**

Progress and perspectives within the CLUB-ER:

### **The Experience of Uganda**

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# CONTENT

- Overview of Access to Energy in Uganda
- Strategies to Increase Access
- Rural Electrification Achievements
- Access Targets
- Lessons Learnt



# OVERVIEW OF ACCESS TO ENERGY IN UGANDA

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- Population in Uganda was projected to be about 34.1 million by mid 2012, with a total of 6.5 million households of which 85% are rural.
- National electricity access is estimated at approximately 12%. Rural access in Uganda is estimated at approximately 7%.



## **STRATEGIES TO INCREASE ACCESS**

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- Service territories – Country divided into 13 distribution service territories.
- Implementing a special program to increase connections – Output Based Aid Project.
- Currently, connection cost is embedded in all new construction projects.
- Support development of mini hydros



## **STRATEGIES CONTINUED**

- Grid extension targeting viable/potential load centres like district headquarters, health centers, schools, agricultural farms.
- Use of low cost technologies in house wiring e.g. ready boards
- Use of prepaid metering systems
- Provision of subsidies for solar PV for isolated communities.
- Provision of subsidies to community / enterprise schemes



## RE ACHIEVEMENTS

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### Grid Extension

- Over 3000km of MV and 2500km of LV lines have been constructed.
- 2100km of MV and 1000km of LV are under construction to be commissioned by the end of Financial 2013/2014.
- Developed the Indicative Rural Electrification Master Plan to guide selection of projects to be constructed.



## ACHIEVEMENTS CONTINUED

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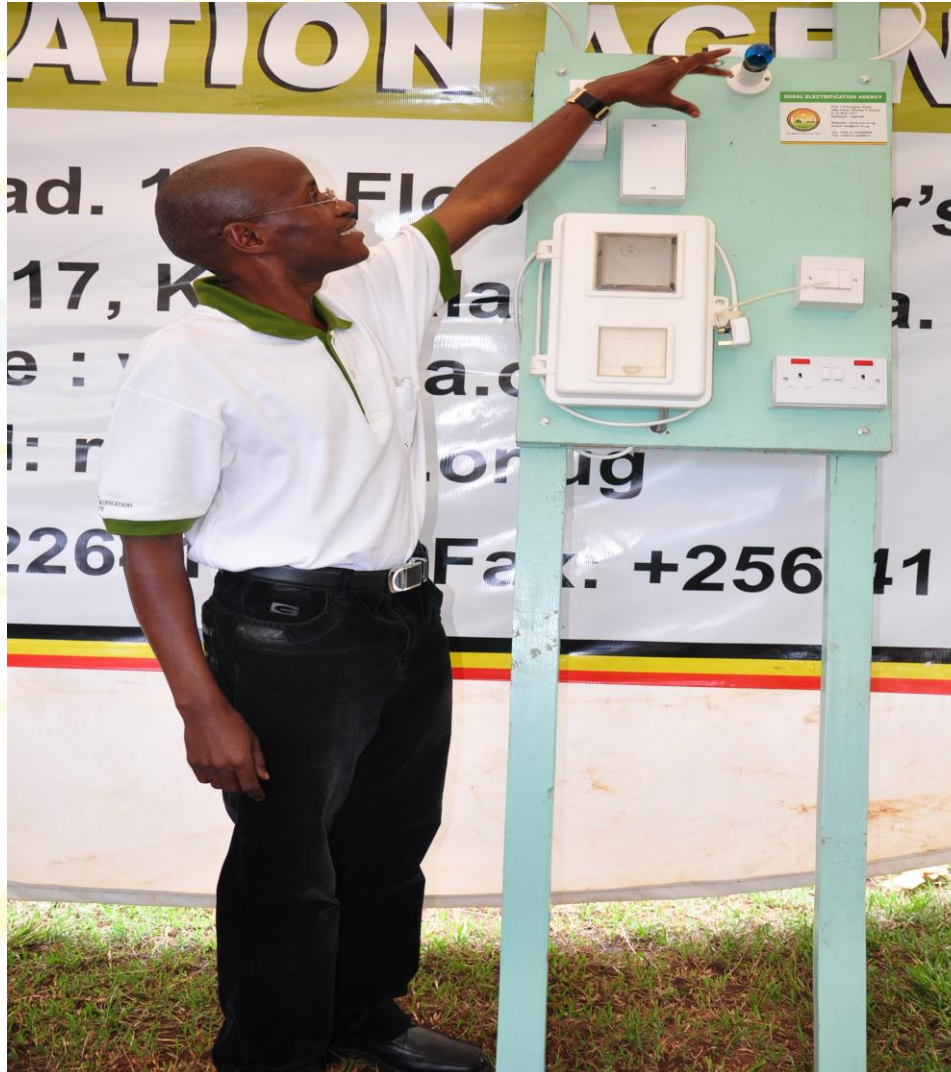
- To facilitate connection of poor rural households Ready Boards have been introduced.
- Developed and sustained 3 User Based Energy Cooperatives.

### **Solar PV Systems**

Over 20,000 Solar systems have been installed using subsidies.



# Ready Board







# Nyadri Solar Water Supply System







## **ACHIEVEMENTS CONTINUED**

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### **Mini hydros**

5 mini hydros producing about 40MW have been supported.

### **Bagasse Co-generation Projects**

2 Bagasse projects generating about 30MW have been supported



# Nyagak Mini Hydro – 3.5MW







# Customer recharging energy using a card







## ACCESS TARGETS

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The Rural Electrification Strategy and Plan 2013 – 2022 has set a rural electrification access target of 26% by the year 2022.

The National Development Plan target is to achieve Universal Access by 2040.



## LESSONS LEARNT

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- Planning and management for RE should be centralised with one lead agency.
- Investing in RE infrastructure has to be Government led instead of Private Sector that focuses on short-term profits.
- Service territories need to be large enough to generate adequate revenues to finance capital developments & operational costs.



# LESSONS LEARNT – CONT..D

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- Development Partners & Political will are key to successful investment in RE
- Difficult to attract the private sector to undertake investments in RE particularly distribution power lines.
- Construction of power lines should include a component for connections.

# Thanks for your attention

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## Rural Electrification Agency, Uganda



*"The Peoples Electricity Link"*