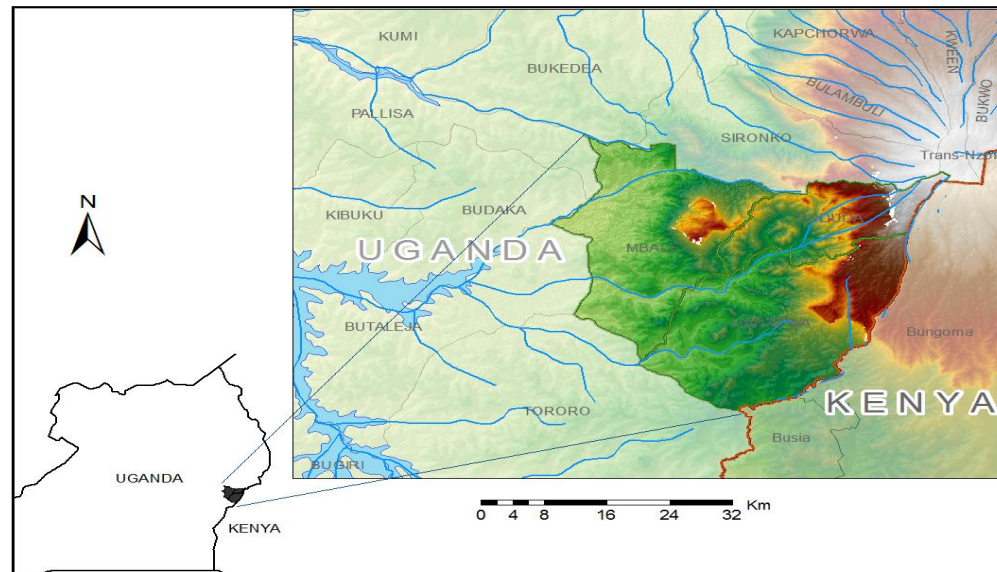




Climate Change Mitigation Activities for Mbale Region of Uganda Presented at the UNFCCC COP 18 Conference – nrg4SD Side Event - DOHA, QATAR



Llywodraeth Cymru
Welsh Government



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Climate Change Challenges in Mbale Region



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Mbale region can be divided into two agro- ecological zones

i. **Mountainous areas**

Characterized by:

- High rainfall
- Highly erodible but fertile soils
- High population densities
(600 persons per square km)
- Unsustainable production
activities



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Agro- ecological zones- cont..



ii. Gentle-sloping to flat areas

Characterised by:

- Low rainfall
- Less fertile soils than in high elevation areas
- Susceptibility to crop and livestock diseases
- Rain Shadow areas - some areas in this case receive very little rainfall



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Climate Change impacts in Mbale Region



- High rainfall and nature of the hilly terrain leads to high risks of landslides.
- Socio-economic impacts of climate change -
Extreme weather events and climate related hazards:
Drought, floods, hailstorms



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Climate Change impacts



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- Reduction in agricultural yield and livestock production
- Reduction in incomes
- Adverse effects on people's health – high malaria incidence due to floods, rise in temperatures



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Climate Change mitigation opportunities for Mbale region



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i. Agriculture: Crop Farming

- Coffee- Banana production system
- Mbale region is the second largest producing region in Uganda
- This farming system provides two key Opportunities:



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Opportunities for coffee-banana & agro-forestry



- Provides adequate tree cover – soil nutrients got from falling leaves
- Enhances coffee yield
- Improves coffee quality leading to high premium
- Contributes to control of soil erosion
- Improves banana yields
- Promotes Sustainable land management practices





Mitigation opportunities cont..



- **Livestock farming:**
- Biogas production that provides energy for lighting and cooking for poor h/holds
- It brings huge social benefits to communities e.g.
 - ✓ Saves on amount of firewood and charcoal required
 - ✓ Saves trees
 - ✓ Saves time for collecting firewood
 - ✓ Providing clean energy



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Mitigation opportunities cont..



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- **Renewable energy:**
- Energy saving cook stoves –
Thru small grants scheme,
carbon financing.
- Solar systems
- Hydro power potential
- **Benefits:**
- Reduced firewood/ charcoal
use
- Reduced emissions





Mitigation opportunities cont..



- **Waste Management:**
 - ✓ Scaling up the CDM (Clean Development Management) project on solid waste management in Mbale Municipality to include all the waste from the other towns.
 - ✓ Mbale Municipality is already benefitting from the carbon financing scheme.



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Mitigation opportunities cont..



- **Forestry/ afforestation / re-afforestation**
- Afforestation & re-afforestation initiatives are in place to protect vulnerable and degraded areas
- Coffee shade: agro-forestry activities are in place
- Boundary tree planting is being practiced





Conclusion



Opportunities	What is being done	Additional support required
Promotion of biogas technology	Provision of improved livestock and construction of biogas units (small scale)	Additional funding to scale up in order to realize the emission reduction requirement
Sustainable agriculture and land management	Individual farmers taking up initiative	Need for a large scale project to realize results
Energy Saving Cook stove project	Feasibility study to generate Project documents	Project needs to cover the whole region. What is currently being developed is for 3 districts-need for scaling up
Afforestation/coffee agro forestry	Tree planting and Process of registration of voluntary carbon credit scheme	Need for large scale project especially in the National Park and forest reserves



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**Thank you for your kind
attention**

