



CLIMATE CHANGE MITIGATION PROJECT

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INTRODUCTION

- 1) Biomass is Uganda's predominant cooking fuel used by the population (firewood and charcoal mainly in urban and peri-urban areas). Uganda Third National Development Plan (2020/21 – 2024/25) Uganda National Housing Survey 2016-17.
- 2) Every year Uganda loses 120,000 hectares of forest cover of which 60% (72,000 hectares) is due to charcoal and firewood.
- 3) This means Uganda contributes a lot to Global warming by the above actions.



INTRODUCTION cont.....

- 4) Nature and Creativity for the Future Generation (NCFG) has come out with a variety of approaches to mitigate climate change. Starting with **sensitisation of communities about climate change** and **providing tree seedlings to those willing to maintain trees in their gardens**. Teaching households how to **construct energy saving stoves**.
- 5) The impact is still minimal because trees take long to grow and the rate at which trees are cut is far higher than the remedies.



WHAT CAN BE DONE?

1. To follow charcoal/firewood trail.

a. Urban/peri-urban low income population is our focus **(slum areas, refugee settlements, markets and institutions/schools).**

- ❑ The above places have **many people** and **accumulate organic waste**.
- ❑ They create land fills for organic degradable materials leading to pollution.
- ❑ They cannot afford alternative energy like LPG gas and electricity it expensive.
- ❑ The above places use a lot of charcoal and fire wood leading to deforestation.



WHAT CAN BE DONE Cont'd.....

2. Present the suitable alternative energy for them which is **Bio gas.**

- Bio gas is generated using free locally available raw materials.
- Bio gas used **directly from the digester** within their localities.
- Bio gas **packaged in cylinders** that can be used by middle and upper class who can afford it.



INTERVENTION OBJECTIVES

- ❑ To provide **alternative approach** to Climate change mitigation and Environmental conservation.
- ❑ To provide **employment to the youths** who yearn for green pastures in other countries.
- ❑ To make **cooking gas available and affordable** to urban and peri urban dwellers.
- ❑ To improve **hygiene in households**, markets, institutions and within our environment.



INTERVENTION OBJECTIVES cont.....

- ❑ To work as a **model small factory** which can be replicated.
- ❑ To **generate income** for the sustainability of the project.
- ❑ To use **slurry as a raw material in organic fertilizer** making because it is rich in nutrients and minerals.



HOW CAN WE DO IT?

- I. Sensitise communities on climate change and how to **sort garbage** for better use.
- II. Using commercial movable/**portable bio digesters**.
- III. Using all **sorted degradable** materials around us.
- IV. Using human waste/public toilets (**Bio toilets**).
- V. Using waste **grinding machines** to pulp organic waste.
- VI. **Filter and package** the excess bio gas into cylinders (value addition).



PROJECT SUSTAINABILITY(SCALABILITY)

- i. The **availability of raw materials** (degradable materials) for Bio gas is available in the target arrears.
- ii. The unemployed youth who are ready to work in the project are many.
- iii. Local leaders are in support of the project.
- iv. The **market for packaged gas is wide** in Uganda.
- v. The model can be replicated anywhere.
- vi. Income can be generated for sustainability.



CONCLUSION

If this project is implemented,

1. It can **sustain itself**.
2. It can provide employment to many youths who yearn for greener pastures outside Uganda,
3. It can be replicated elsewhere(e.g. refugee settlements, institutions, markets)
4. It can greatly **mitigate climate change**.



THE END

Thank you for listening to me.

By Francis Lumbuye

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