



NGONG WASTE MANAGEMENT PROJECT

NEMA, KENYATTA UNIVERSITY and RCE
GREATER NAIROBI PROJCT

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OUTLINE

- Background
- Introduction
- Strength of the dumpsite
- Challenges at dumpsite
- Achievements
- Impacts of the project
- Conclusion

Background

- Solid waste management is a major problem in most towns in Kenya.
- The County Governments are charged with the responsibility of management County resources including waste management, however, they are usually faced with a huge challenge.
- Most cities/towns do not have designated or licensed dumpsites.
- Hence, it is common to find animals such as cows, goats, chicken, and pigs feeding at these dumpsites.

Background cont

- ▶ The dumpsites are normally littered all over, are breeding grounds for disease causing organisms .
- ▶ The dumpsites are also eye sores arising from blockage of the drainage systems thus causing flooding.
- ▶ All these are exacerbated by the rapid population increase as people migrate from the rural areas to towns to look for employment and also seek better social amenities.

Before the intervention....



Before Intervention....



Before Intervention....



Introduction

- The project was founded during the World Clean up Day 2012 held in Ngong town, Kajiado County
- NEMA, Kenyatta University partnered with Nuru group based at the Ngong dumpsite to promote pilot waste segregation project.
- This was to encourage the recovery of material from waste thus decreasing quantities ending up at a landfill.
- The group has 135 members comprising of men, women and youth.

Project Objective

- to promote waste segregation
- To recover useful materials from waste and reduce landfill
- Income generating to make more money (turning waste into cash)
- Reduce pollution
- Enhance community appreciation of waste management

Strengths of the Dumpsite.

- ▶ It receives a lot of waste from Karen, Rongai, Kiserian and Ngong towns.
- ▶ There is already a group practicing sorting and waste recovery.
- ▶ The group has a market for the recovered items
- ▶ The group is highly organized- its registered with the District Social Services Department, has elected group officials and a bank account.

Challenges at the dumpsite

- ▶ The waste delivered to the dumpsite is not sorted
- ▶ The sorting is done in alternating manner since the shade cannot accommodate both males and females
- ▶ There is no storage for the sorted products
- ▶ The road to the dumpsite is impassable during the rains
- ▶ Uncertainty about the ownership of the dumpsite land
- ▶ The complexity of waste segregation at source.
- ▶ Brokers who buy recovered materials at a low price.

Achievements

- 1. Engagement of the relevant stakeholders like the County Government of Kajiado who manage the dumpsite.**
- 2. Capacity Building of segregators and transporters has been done.**
 - trained on legislations of waste in the country**
 - safe and health waste handling**
 - entrepreneurship**
 - financial planning**

Achievements Cont'

- 3. Fencing of the Dumpsite has been done by the County Government of Kajiado to secure the place**
- 4. A sorting shade has already been constructed and in the process of putting up a store, an office and install a water tank.**

Achievements Cont.

6. A waste compactor has been put in place at the site.
7. The weather road has been improved and is now passable much of the times.
8. Provision of Personal Protective Equipment (PPEs) to Nuru Youth group done.
9. The income of the members has increased from about Kshs. 100 to Kshs. 300 a day.
10. The pig project to raise more income in place.

After Intervention: Changes realized at the dumpsite



Changes Realized



Changes realized



Project Impact

- ▶ **Reduced scattering of waste at the dumpsite**
- ▶ **Controlled access to the dumpsite by use of the fence**
- ▶ **Increased recovery of materials which is about 70% of all the waste delivered at the site**
- ▶ **Improved livelihoods of the segregators through better income**
- ▶ **Reduced cases of injuries and diseases**
- ▶ **Raised compliance levels to environmental laws**

Conclusion

- The site is proposed to be a transfer station as the County Government plans to put up a sanitary landfill.
- There is need for partnership to support Nuru Group adopt the 3R concept of waste management.
- The dumpsite to be used by Kenyatta University Students and lecturers as a research site and outreach programmes – (through partnerships and collaboration
- The transfer station and the sanitary landfill to create many jobs to Nuru and youth



End

Thank you