



KCCA
Kampala Capital City Authority

SOLID WASTE MANAGEMENT IN KAMPALA UNDER THE TRANSFORMATION PROCESS

JUDITH TUMUSIIME TUKAHIRWA (PhD)
PUBLIC HEALTH & ENVIRONMENT
KAMPALA CAPITAL CITY AUTHORITY

Transforming Kampala City



Kampala: In the 1960's had.....

De-congested streets



Well maintained road network



One of Africa's Best social services



Well maintained green area



The State of service degeneration in the city



KCCA was set up by Act of Parliament to...

- Administer the Mobilization of Local Revenue and provide Public Services in the City.
- Promote and control Physical Development
- Promote Socio-economic Development

***on behalf of central
Government***



SWM 'why is it a monster'

- Kampala has expanded on a spatial scale coupled with rapid population and economic growth
- No established central database on solid waste for the City
- Lack of a robust swm system to handle, monitor, coordinate, finance, plan and control the entire waste flow chain from generation, collection, transportation, disposal, treatment and re-use
- informal sectors whose activities are not coherent and as a result, waste is not appropriately managed



SWM 'why is it a monster' ...

- Inadequate mechanisms to sort and handle potentially hazardous waste
- lack of community participation and awareness programmes in waste management
- Inadequate capacity to implement legal and regulatory measures regarding waste disposal in the city
- The existing centralized landfill facility at Kiteezi (built in 1996) is close to maximum capacity with limited working area and space for expansion
- Sustainable technological options solutions for recycling, energy recovery, and on-site treatment are critically deficient



KCCA's Transformation Process

Towards a solution to the SWM challenges



Key Achievements so far...

Under Institutional development;

- I. The recruitment of highly qualified and competent staff
- II. Improved systems of accountability.
- III. Expenditure rationalization.
- IV. Improved revenue mobilization that has resulted into 84% increase in one year.
- V. Improved procurement process and contract management.
- VI. Corporate re-branding has been embarked on



Key Achievements cont'd ...

Under Implementation and Operationalization:

- I. Increased Garbage collection up to 29,543 tons in June 2012 from 16,000 tons in March, 2011
- II. Over 815 litter bins has been distributed in CBD and Schools
- III. Collection centres for receycling have been set
- IV. “Keep Kampala clean” monthly cleaning programme set up
- V. KCCA operates an Engineered Sanitary Landfill at Mpererwe, approximately 8 Km from the city centre managed by a private contractor
- VI. On average the landfill receives between 900-1100 tons/day from KCCA (65%) and private companies (35%)
- VII. Landfill has a fully functioning leachate treatment plant that treats between 160m³ to 190m³ of leachate per day
- VIII. Landfill gas trials have been carried out and results indicate estimated gas to energy output of about 3.5 megawatts of power.



Achievements cont ...



Landfill Before



Garbage long Road Before



Nakivubo Channel Before



Landfill After



After



Nakivubo Channel
After



Key Achievements cont'd ...

Under Planning:

- I. A three year extension plan including a proposal to build a new landfill at a location currently being procured
- II. With support from the Gov't, a comprehensive ISWM using a PPP approach with an overall goal of enhancing efficiency and sustainability of SWM is under way
- III. International Financing Corporation (IFC) has been approved for transaction advisory services for dev't of ISWMS in two phases;
 - Phase I: A comprehensive review of existing SWM system and Identification/evaluation of the feasible and appropriate technological, financial and management options/solutions for ISWM
 - Phase II: Designing a robust PPP model in line with the ISWM framework for piloting projects with high potential for up scaling



Plans underway cont'd...

Technical Due Diligence

- A preliminary assessment of the City solid waste chain and existing supportive policy, legal and management systems
- Development of an IMS for the SWM chain in the city
- Evaluation of waste sorting, collection, transportation and disposal options at community, division and centralized scales.
- Feasibility assessment and appropriate design of the existing and proposed new landfill
- Feasibility assessment of the potential for development of satellite waste management centers
- Build a business and financial flow model
- A comprehensive risk analysis and development of potential remedies



Plans underway cont'd...

- Assessment of potential for developing CBWMS
- Integration of bio-energy production from waste at centralized systems
- Proposals for management of hazardous waste from various sources
- Develop guidelines for waste segregation/sorting and characterization, collection, disposal, treatment and reuse
- Assessment of feasibility for cleaner production mechanisms
- Identification of key stakeholders in management, financing and treatment technologies of SWM
- Capacity building aspects within the ISWM framework
- Development of an ISWM and feasible implementation strategies including the PPP approach
- Proposals for financing and investment of the ISWM by KCCA and other potential investors/development partners



Plans underway cont'd...

Legal Due Diligence

- Legal regime for tariff setting
- Permitting and licensing issues
- Legality for contracting out the private sector
- Billing and collections (if necessary)
- Existing and valid PPP framework
- Compliance to solid waste disposal and management at all scales and levels



Plans underway cont'd...

Environmental and Social Due Diligence

- Public Health concerns
- Environmental protection including but not limited to collection, transportation and final disposal
- Resource management considering the potential for MSW to provide a revenue source
- Dealing with the informal sector (scavengers)



Conclusion

The improvement of SWM requires significant investment and stakeholder involvement. This can be realized from well formulated and planned PPPs.

KCCA is ready to work with all stakeholders to transform the face of the city as we strive to make Kampala an Attractive, Vibrant and Sustainable City



THE END

*“Together we can Improve
SWM in East Africa”*

