

Waste SDG Indicator Monitoring



NAIROBI CITY
COUNTY

Expert Group Meeting in Bosnia

Prospect and Concerns for Monitoring Data

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Introduction

❖ Vision for Solid Waste Management (SWM) in Nairobi City:

A healthy, safe, secure & sustainable solid waste management system fit for a world-class city.

❖ Mission for SWM in Nairobi City :

- (1) To improve & protect the public health of Nairobi residents & visitors.
- (2) To protect ecological health, diversity & productivity.
- (3) To maximize resource recovery through participatory approach.

Introduction

- ❖ Nairobi's population is estimated at 4,645,553 drawing from the 2009 census of 3,138,369 & a growth rate of 4%
- ❖ With an estimated per capita municipal waste generation of about 0.7 kg (SWM in Nairobi: UNEP, 2010), the daily generation of waste is estimated at 3,381.96.
- ❖ Waste recovery and recycling is about 5% (JICA, 2010), mainly in the informal sector.

Main *SWM* data Collection Areas

- ❖ Tonnage of waste collected from each of the 85 electoral Wards;
- ❖ Tonnage of waste collected from communal areas like markets, communal waste collection sites;
- ❖ Waste collection from the 17 Subcounties;
- ❖ Institutional waste collection volumes

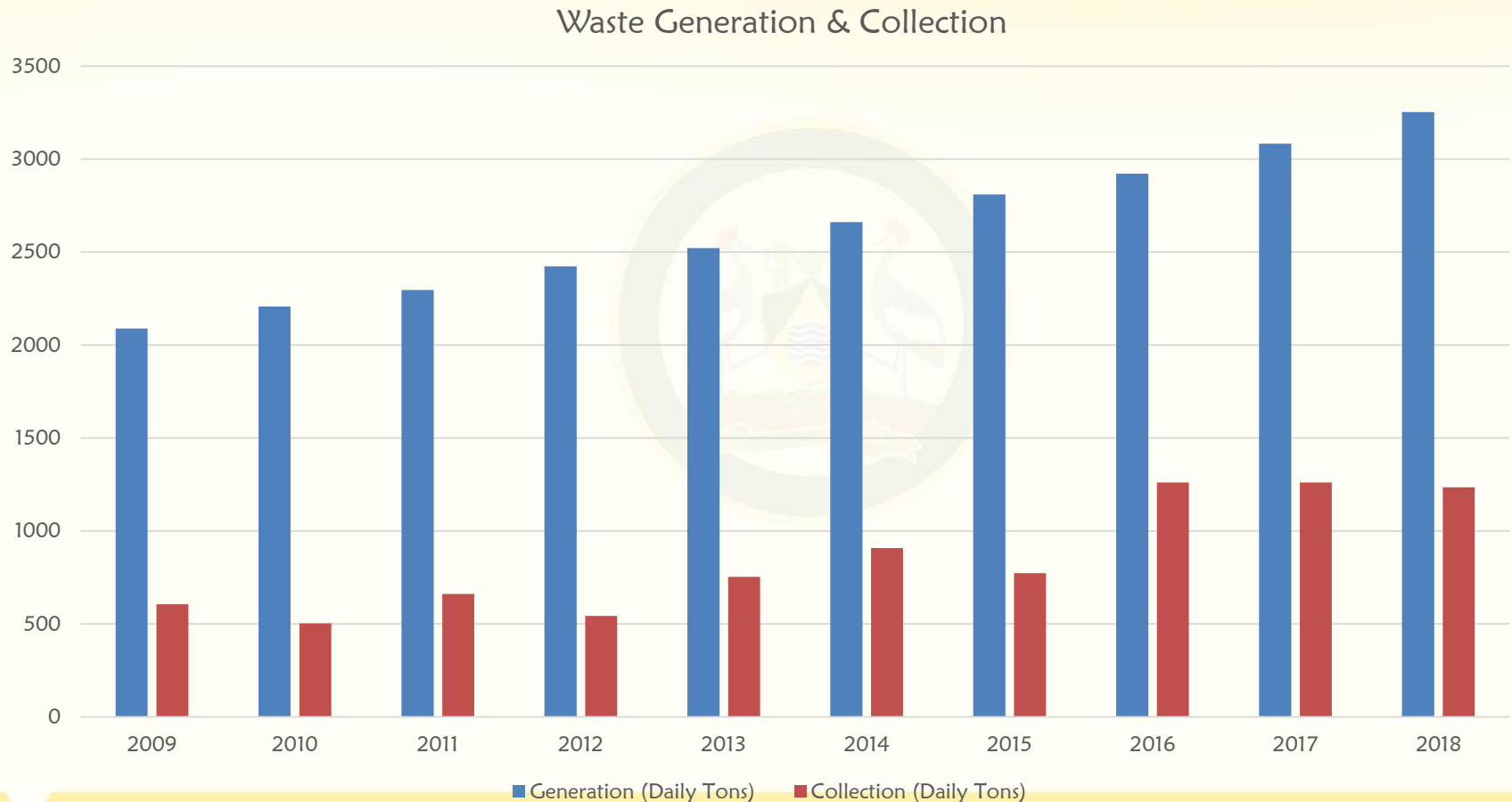
SOLID WASTE GENERATION IN SUB-COUNTIES

S/NO.	SUB-COUNTY	App. Daily Waste Generation (Kg.) 2015	Available Reliable Number Of Refuse Truck/S	Optimum ideal number
1	Kamukunji	151,779.03	1 NO.	8
2	Embakasi South	143,939.82	1 NO.	7
3	Kasarani	142,428.75	“	7
4	Ruaraka	138,983.67	“	7
5	Mathare	138,479.79	“	7
6	Roysambu	137,244.03	“	7
7	Embakasi Central	133,132.62	“	7
8	Langata	132,532.98	“	7
9	Dagorret North	131,458.53	“	7
10	Embakasi North	129,868.23	“	6
11	Dagoretti South	129,544.47	“	6
12	Embakasi West	129,363.78	“	6
13	Kibra	127,645.8	“	6
14	Westlands	126,567.36	“	6
15	Starehe	118,882.05	“	5
16	Embakasi East	117,316.83	“	5
17	Makadara	114,865.26	“	5
	TOTAL	2,244.033		

Per Capita Municipal Waste Generation Projections: UNEP, 2010

Year	Kg
2009	0.64
2010	0.65
2011	0.65
2012	0.66
2013	0.66
2014	0.67
2015	0.68
2016	0.68
2017	0.69
2018	0.7
2019	0.7

Municipal Waste Generation (estimates) & Collection (final disposal) Tonnage 2009-2018



Recycling in the City-JICA, 2010

- ❖ Recovery of recyclable materials is mostly carried out by waste pickers, waste collection service workers & waste pickers at the final disposal site which are taken to junkshops & factories mainly by the junk dealers/middlemen.
- ❖ Material recovery rate is 5%.
- ❖ Challenges of inadequate recycling:
 - Inadequate legal framework
 - Inadequate technical & financial capacity

Waste Streams: JICA, 2010

N o.	Type	%	Tons
1	Metal	0.7	23.67
2	Glass	1.5	50.73
3	Plastic	10.9	368.63
4	Paper	14	473.47
5	Food waste	62.4	2110.34
6	Others	10.5	355.11
7	Total	100	3381.96

Challenges in development of Waste database

- ❖ Outdated baseline data
- ❖ Inadequate funding
- ❖ Inadequate technical human capacity
- ❖ Inadequate technical tools & equipment
- ❖ Wide scope of data required
- ❖ Inadequate institutionalization of data management
- ❖ **LACK OF STANDARDIZED DATA COLLECTION METHODS, TOOLS AND EQUIPMENT LEADING TO CONFLICTING DATA.**

Possible Solutions to the Waste Database Challenges

- ❖ Budgetary allocation for a waste database
- ❖ Capacity building of staff & recruitment of technical personnel
- ❖ Acquisition of technical tools & equipment
- ❖ Stakeholder collaboration in development & management of a comprehensive database
- ❖ Institutionalization of waste database management

Thank



You