

Waste Reduction by Composting



Dewan Bandaraya Kuching Utara
(Kuching North City Hall)



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Dewan Bandaraya Kuching Utara (DBKU)

Kuching...a Vibrant Liveable City of Choice



Mission : To Enhance the Quality of Life by Creating a Conducive Environment and Best-In-Class Service Delivery



Mayor

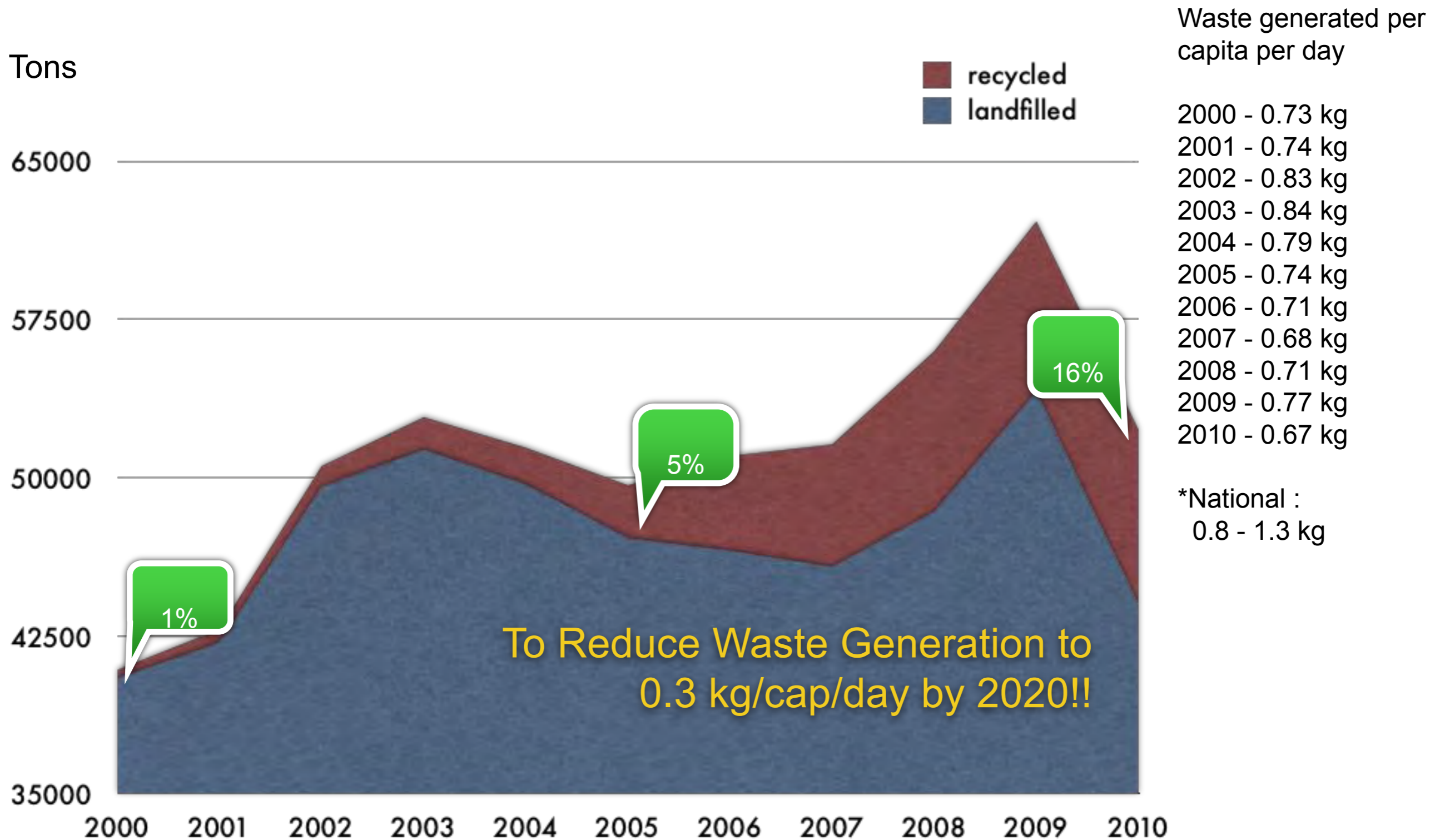
Hon. Datuk Abang Abdul
Wahap Abang Julai



CITY PROFILE

- Population - 200,300
- Properties - 37,000
- Land - 369.48 sq. km.
- Developed land - 223.14 sq. km.
- Green - 135.24 sq. km.
- Gazetted Green - 28.34 sq. km.
- Sarawak River -20 km
- www.dbku.gov.my

Waste Generation 2000-2010



Project Components

Project 1 Home Composting

- Study trip to Kitakyushu, Japan 22-25 Oct 2011
- Expert Visit, Mr. Yoshida to DBKU 30-31 Jan 2012

Project 2 Compost Centre

- Study trip to Nonthaburi , Thailand 13-15 Oct 2011
- Expert Visit, Mr. Permpong Pumwiset to DBKU 30 Jan 2012



Project 1 - Home Composting

Implementation of project started in November 2011 for Taman Alam Sanctuary (100 houses) & Muara Tebas Village in December 2011 (200 houses)



Project 2- Compost Centre

Implementation of Enhancement of Compost Centre started in November 2011. Main target is to reduce waste tonnage by composting organic waste generated by City maintainance activity

Sources of Organic Waste

River Cleaning



Softscape Maintainance



Market Waste



Project 2- Compost Centre

Product 1

The compost process has been improved by adopting and adapting Nonthaburi Municipality composting technique



Mixing



Watering



Fermentation



Drying



Shredding



Seiving

Project 2- Compost Centre

Product 2

EM solution production started in January 2012



1 Fruit Peel



2 Rain Water



3 EM starter



4 Mixing



5 Seal in air tight container



6 Matured after 8 days

Achievement

The progress of the 2 projects showed favourable achievements towards the main target which is to reduce waste generation.

Items	Before	After	Achievement
Waste Generated in household	8 kg/ day	3 kg/ day	62% reduction
Compost Produced	200 kg/ month	1000 kg/ month	5 times production
EM solution	NIL	1000 litre/ month	Multiple uses - EM Bokashi - EM Mudballs - Etc

Lesson Learnt

- Promote benefit of organic farming
- Improved compost process improves output
- EM solution is multi-purpose

Future Plans

- Expansion of EM Bokashi home composting.
- Increase output of the Compost centre.

Recommendations

- Replication in other local authorities.
- DBKU as consulting local authority.



Thank You

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