

## Achievements and Lessons Learned

- The composting process has been improved by adopting and adapting Nonthaburi Municipality composting technique
- Using the locally available Nipah sugar instead of molasses to make their own EM solution
- The EM Solution produced was used as a trial in composting of market waste, as a cleaning agent in mobile toilets and control of flies at the compost pile
- The making of EM Mudball



Production of EM Solution

## Department of Environment (DOE) as the National Focal Point

Has conducted 2 Steering Committee Meetings:

### (i) First Steering Committee Meeting

- Was held on 21 December 2011 at Kuching North City Hall, Kuching, Sarawak
- Chaired by Mayor of Kuching City North
- To review the status of project implementation by City of Kuching North
- Attended by Local Government Department, National Solid Waste Management Department, Ministry of Local Government and Community Development, Sarawak, Department of Environment
- Visited Sejangkat Composting Centre and 2 households which practised the EM Bokashi home composting method



### (ii) Second Steering Committee Meeting

- Was held on 29 February 2012 at DOE Headquarters, Putrajaya
- Chaired by Director-General of DOE
- Attended by Local Government Department, National Solid Waste Management Department, Ministry of Local Government and Community Development, Sarawak, Department of Environment and local authorities from the Klang Valley namely Perbadanan Putrajaya, Ampang Jaya Municipal Council, Kuala Lumpur City Hall and Shah Alam Municipal Council were invited to share and learn about City of Kuching North successful practices on the ASEAN ESC Model Cities Programme



Meeting chaired by the Director-General of Environment



Q&A Session

#### Contact Information

### Strategic Communications Division

Department of Environment (Headquarters)  
Ministry of Natural Resources and Environment

Level 1- 4, Podium 2 & 3, Wisma Sumber Asli

No.25, Persiaran Perdana, Precinct 4 62574 Putrajaya, Malaysia

Tel: +603 8871 2083 • Fax: +603 8889 1042

Website: [www.doe.gov.my](http://www.doe.gov.my) • <http://modelcities.hls-esc.org>

# asean esc model cities programme



The ASEAN ESC MODEL CITIES PROGRAMME (2011-2012) is a regional initiative funded by the Japan-ASEAN Integration Fund (JAIF) promoting the development of Environmentally Sustainable Cities (ESC) across ASEAN countries through national programmes encouraging and supporting innovative and voluntary bottom-up initiatives through capacity building, training and other methods.

The programme aims to support ASEAN countries in the creation of model cities to serve as examples across the region of how local governments can take the lead in pursuing sustainable development at the local level.

## Background

At the East Asia Summit Environment Ministers Meeting (EAS EMM) inaugurated in Hanoi, Vietnam in October 2008, the Ministers agreed that Environmentally Sustainable Cities (ESC) was an immediate priority area as an initial step of EAS environmental cooperation.

To formulate concrete activities on ESC, the 1<sup>st</sup> High Level Seminar on Environmentally Sustainable Cities (HLS ESC) was held in Jakarta in March 2010, where 5 activities for promoting ESC in the region were recommended. They were:

1. An East Asian Model Cities initiative
2. A clearing house for ESC-related data and information
3. A Public and Private Sector Forum on ESC
4. ESC Capacity Building Programme
5. ESC Awards based on performance indicators

To realise these recommendations, a proposal for initiating the ASEAN ESC Model Cities Programme as an umbrella programme implementing the 5 activities was developed. With funding from the Japan-ASEAN Integration Fund (JAIF), the programme commenced in April 2011.

## What is a Model City?

A Model City is a city which serves as a model for emulation and inspiration to other cities, with replicable practices and policies. A Model City desires to be a leader and frontrunner in sustainable urban development and has a clear vision, goals and action plan to achieve this.

As the winning city of the Sustainable Cities-Environment Award (Anugerah Alam Sekitar – Bandar Lestari) for 2 consecutive cycles: 2009/2010 and 2006/2007, City of Kuching North (Dewan Bandaraya Kuching Utara) has been selected as a model city in this programme.

## Vision of City of Kuching North

By 2020, the City of Kuching North aspires to become an Eco-Friendly City which facilitates Sustainable Development. Kuching aims to become a modern city that is beautiful, green, healthy, economically and culturally vibrant with the peoples's participation.

## Specific Goal of City of Kuching North

Reduce waste generation from 0.6 kg per capita per day (based on 2010) to 0.3 kg per capita per day by 2020.

### City of Kuching North has carried out 2 projects under this programme:

#### Project 1: Promoting and Implementing of Kitchen Waste Composting (EM Bokashi Method)

**Objective :** To promote home composting using the EM Bokashi method among housing residents in selected areas in City of Kuching North jurisdiction

#### Description:

- To reduce the generation of organic waste (kitchen waste) in residential area with composting using EM's technology
- 300 houses participated
- Study tour to Kitakyushu, Japan on 22-24 October 2011 to learn first-hand experience in household composting and instruction in public participation

## Achievements and Lessons Learned

- From the study tour, the city learned the correct technique of composting without producing worms and bad odour.



Participate in making of EM Bokashi powder in Kitakyushu, Japan



Participants receiving instruction in EM Bokashi in Kitakyushu, Japan

- Community engagement in November 2011 for Taman Sanctuary (100 houses) and Muara Tebas Village in December 2011 (200 houses)



Demonstration on Home Composting to the community



Home composting with residential

### Project 2: Development of a compost centre for composting of green waste from in-house landscape work

**Objective :** To develop an efficient and cost effective composting centre

#### Description:

- Organic waste from landscaping works, river cleaning and food market operations by City of Kuching North were sent to Sejingkat Composting Waste Centre.
- Study visit to Nonthaburi Municipality on 13-14 Oct 2011 to learn how to manage green waste and convert it to compost



Site visit on making of EM Solution in Nonthaburi Thailand



Discussion with the Mayor of Nonthaburi Municipality