

Kitakyushu Initiative for a Clean Environment

**Workshop-Training on
Organic Waste Composting:**
Resource Recovery for a Sustainable
Solid Waste Management

10-12 March 2009
Bangkok, Thailand

Kitakyushu Initiative

- Network of cities
- More than 60 cities from 18 countries
- Objective: **replication of good practices**
 - ➔ Improvement of urban environment
 - ← Sharing information, facilitate replication
- An UNESCAP programme; IGES is the secretariat
- Supported by Ministry of Environment, Japan and Kitakyushu City

Objectives

1. Learn the social, environmental and economic **impacts** of composting (Day 1)
2. Discuss on supporting **policies** for organic waste composting (Day 1)
3. Hands-on composting **training** (Day 2-3)
4. Design a composting project (after the workshop)

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Objectives of Kitakyushu City and IGES

1. Learn good practices of cities (Day 1)
2. Training of composting practitioners (Day 2-3)
3. **Identify partner cities** to cooperate and implement composting projects
➔ **10% waste reduction in 3 years.**
4. Obtain supports from the central government and other donor agencies for further expansion

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Programme

Opening Session:

- BMA
- UNESCAP
- Kitakyushu City

Session 2:

- Surabaya City
 - Mr. Takakura
 - BMA
 - Pollution Control Dept. (PCD), Thailand
 - IGES (social & economic analysis)
- Discussion on supporting policies

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Programme

Session 3-4: Showcase of composting practices

Thai cities

- Nonthaburi
- Sankamphaeng
- Sriratcha
- Nakhonratchasima
- Phitsanulok

Other countries

- Sibul (Malaysia)
- Kathmandu (Nepal)

Site visit: Din Daeng
Composting Centre

Reception: Hosted by BMA, at
Sukhotai Room

Hands-on Composting Training

Wednesday, March 11th

9:00 – 12:00 Lecture

- Basic concept of composting
- Basic techniques of composting
- Fermentative microorganisms

13:00 – 17:00 On-site training

- Collection and culturing of fermentative microorganisms
- Controlling the fermentation process

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Hands-on Composting Training

Thursday, March 12th

9:00 – 12:00 Lecture

- Quality evaluation of compost
- Using compost
- Summary and discussions

13:00 – 14:30 Exam

15:00 – 17:00 On-site training

- Observing the progress of compost fermentation

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Participants: international

- Kathmandu & Lalitpur (Nepal)
- Hanoi & Ho Chih Minh (Viet Nam)
- Siem Reap & Pursat (Cambodia)
- Surabaya (Indonesia)
- Sibul (Malaysia)

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Participants: Thai cities

- | | |
|--------------------|-----------------------|
| • Nonthaburi | • Hatyai |
| • Chiang Mai | • Karon |
| • Chiang Rai | • Phitsanulok |
| • Sankamphaeng | • Samrongtai |
| • Pathumthani | • Khoka] |
| • Nakhonratchasima | • Sriratcha |
| • Rayong | • Chonburi (6 cities) |
| • Sri Saket | • Pattanee |
| • Lampang | • Udonthani |
| • Thep Krasattree | • Phuket |

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Participants: BMA

- Min Buri District
- Don Muang District
- Huai Khwant District
- Nongjok District
- Laksi District
- Din Daneg District
- Policy & Planning Div.
- Social Development Dept.
- Education Dept.
- Pollution Control Dept.
- Dept. of Environment
- Refuse Disposal Div.
- Air Quality & Noise Management Div.

Participants: other organisations

- Biogas Advisory
- King Mongkut University of Technology
- Aqua Nishihara Corp. Ltd.
- LPN Development Group
- Development of Environment and Energy Foundation
- M. Chef Food Solution Ltd.
- AIT
- JICA

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Let's reduce waste through composting!

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