Replication in Indonesia

Kitakyushu City and IGES, with support from the JICA Indonesia Office, have developed a project to replicate a solid waste management model being carried out in Surabaya in five other cities in Indonesia, namely Makassar, Palembang, Central Jakarta, Balikpapan and Tarakan. A study team visited these five cities and has introduced a programme called PESAMAS (community-based waste reduction through composting), which aims to reduce waste by 10% in two years, with the full support of each city mayor and the Indonesian Government, including the National Development Planning Agency (BAPPENAS), Ministry of Environment (KLH) and Ministry of Public Works (PU).

Cities where Surabaya’s Waste Management Model is being Replicated

- Tarakan
- Balikpapan
- Makassar
- Palembang
- Central Jakarta
- Surabaya

Makassar City plans to establish five model communities and distribute 100 compost baskets to households in co-operation with PKK (a women’s group) and other NGOs, as well as construct a composting centre at a vegetable market.

A community group which practices composting. City has already distributed 800 baskets.
Makassar: Population 1.2 million. Capital of South Sulawesi. Daily waste generation: 1,100/day (= 0.9kg/person/day)

Composting Centre at PT PUSRI, a state-owned fertiliser company

Palembang: Population 1.5 million. Capital of South Sumatra. Daily waste generation: 1,100/day (= 0.9kg/person/day)

Palembang City plans to establish composting centres in 17 communities and expand their ongoing environmentally friendly community campaign by involving more communities. Further, the city plans to increase composting capacity by incorporating activities with PT PUSRI, a state-owned fertiliser company.

Women separating the waste at a composting centre.
Central Jakarta: Population 1.2 million. Business centre of Capital Jakarta. Daily waste generation: 1,900/day (= 1.3kg/person/day)

Central Jakarta plans to expand ongoing waste reduction and community clean-up activities to other communities. There is already a large-scale community composting centre in operation in the city. Central Jakarta plans to expand the capacity of this centre and replicate this in other areas.

Balikpapan City plans to improve the environment of its communities by establishing one or two model communities in each sub-district and organising community environmental leaders to promote activities. Further, the city plans to expand the ongoing Clean, Green and Healthy City Campaign by involving more communities, and increase the number of composting centres to six sites from the current two.

Active participation of NGOs & PKK

Mayor praising the street sweepers of the city.
Tarakan: Population 200,000. An island city in the northern tip of Kalimantan. Daily waste generation: 130/day (= 0.7kg/person/day)

Tarakan City plans to establish more than two community composting centres a year for the next three years, as well as a market-waste composting centre. Further, the city plans to distribute household compost baskets by organising a network of community environmental leaders and holding training sessions for them in Surabaya. Training sessions will also be held in Kitakyushu City for selected city officers.
During the workshop

A workshop on community-based solid waste management was organised in Surabaya in August 2008 with attendance by representatives from 12 Indonesian cities, three ministries, eight overseas cities and a number of institutes, private companies and residents’ groups. The participants learned about the successful waste management system in Surabaya, as well as cases in other cities, and discussed the factors for successful implementation of these activities and the means to support their implementation. There was an idea proposed at that time to replicate Surabaya’s model in other cities as part of a national programme. Following consultations with the National Development Planning Agency (BAPPENAS) and Ministries of Environment (KLH) and Public Works (PU), as well as JICA Indonesia Office, the idea culminated in the PESAMAS (community-based waste reduction through composting) programme, which targeted the five above-mentioned cities.

Co-operation with JICA

JICA experts, volunteers and local counterparts who participated in the composting seminar organised by JICA Indonesia Office and Kitakyushu City visited Pusdakota’s composting centre in Surabaya.

Kitakyushu City and IGES have also co-operated with Japanese experts and volunteers in environmental education, rural development, agriculture and waste management under a JICA programme to promote composting practices.

Main Components of Proposals for each City

To reduce waste generation by more than 10% in two years

1. Establishing market-waste composting centres
   Utilise compost at city parks.

2. Establishing community composting centres
   Produce compost in model communities from segregated organic waste.

3. Distributing household compost baskets for free
   Organise a network of community environmental leaders and promote the use of baskets in each household.

4. Organising community clean-up campaigns
   Encourage communities to compete with each other to reduce waste and clean up the community, as well as involve private companies and media groups in the campaign.

5. Purchasing and marketing of compost products
   Purchase compost products produced by community composting centres and individual households and promote use by farmers.

6. Facilitating technical co-operation by Kitakyushu City and IGES
   Provide hands-on composting training for trainers and technical advice to improve solid waste management system.