



Environment Commitments and Progress Made by Local Governments

2nd High Level Seminar on Environment Sustainable Cities
15-16 Kitakyushu, Japan

1st High Level Seminar on ESC, 2-4 March 2010, Jakarta, Indonesia

8 cities expressed their environmental commitments

- **Balikpapan**, Central Jakarta and **Surabaya**, Indonesia
- **Nagoya** and **Kitakyushu**, Japan
- **Sibu**, Malaysia
- Waitakere, New Zealand
- **Puerto Princesa**, Philippines

6 cities reported their progress

3 others cities reported under the Kitakyushu Initiative:

Minamata (Japan), **Kathmandu** (Nepal), **Bago** (Philippines)

Balikpapan, Indonesia



- Long-term goal: protect 52% of area as Green Area
- 10 Short-term targets
- Reduce solid waste by 10% in 3 years → **composting centers built at 4 traditional markets; 1,377 composters**
- NGOs and citizens involved in environmental activities → **environmental budget from NGOs (IDR3.3 b)**
- Environmental education centre at sanitary landfill
- Reforested area: **36ha (2010), 3ha (2011)**
- Access to clean water: **72% (2011)**
- Access to wastewater treatment facility: **2,183 houses**

Surabaya, Indonesia



- Reduce waste by 2% by 2012 → **1% reduced; 18,547 composters; 27,000 environment cadres; 15 composting centers**
- Reduce pollutant loads of industrial wastewater: BOD 64%, COD 60%, TSS 56% → **54%, 55%, 47%; water quality monitoring at 40 locations**
- Increase green open space to 30% → **16%; 1 man 1 tree program; annual Green & Clean Program; mangrove plantation; urban farming**

Kitakyushu, Japan



CO2 reduction:

- In the City: 740 kt (2013), 4.7 mt (2030)
- In Asia: 1.3 mt (2013), 11.7 mt (2030)
- Establishment of: **Kitakyushu Smart Community, Zero-Carbon District, Murasaki Eco-River Plan, Renewable Energy Park, Asian Center for Low Carbon Society**
- Acceptance of trainees: **1,688 pax. In 4 years**
- Waste reduction: 514 kt (2006) → **350 kt (2009)**
- PV panels: **7,900 systems in 3 years**
- Tree planting: 400,000 in 3 years

Nagoya, Japan



- CO2 reduction: 25% (2020), 80% (2050)
- Ratio of green coverage: 25% → 40% (2050)
- 3Rs: solid waste 108 kt (2006) → **100 kt (2009)**
- Air quality: NO2 target level **59%** (>50%)
- Waster quality: BOD target level **80%** (→ 100%)
- Ratio of the use of public transport and private cars: **37:64** (→ 40:60)
- Urban green parks: **9.4m2/pax (2009)** (→ 10m2)

Sibu, Malaysia



- Reduce waste by 20-25% by 2015: **1.7 % reduction; a recycling center established; JICA Partnership Program; "Say No To Plastic Bag" days (2 days/week → everyday from Apr. 2011)**
- Waste segregation at source: **2 pilot projects (1,765 households)**
- Household composting: **338 baskets distributed; 4 demonstrations carried out**

Puerto Princesa, Philippines

- Waste diversion 80% by 2013
- Education campaign on waste segregation at source and composting
- Monitor and evaluate Barangay Ecological Solid Waste Management Act
- Allocate funds for compost bins and seed compost production
- Pass an ordinance regulating the use of plastics
- Capture methane produced at sanitary landfill

Most of the commitments were achieved except the waste diversion target.



Minamata, Japan (Kitakyushu Initiative)

Waste segregation and recycling

- **biodiesel production from collected waste cooking oil**
- **Collection of small electric and electronic appliances → extraction of rare metals**

Renewable energy promotion

- **PV systems in 4 schools**
- **Experiments on a smart grid using small-hydro and harnessing wave power**



Kathmandu, Nepal (Kitakyushu Initiative)

- Integrated waste management on Kathmandu Valley → **MOU signed with selected company**
- Compost chambers → **9 containers**
- Household composting: **450 compost bins distributed**
- Waste collection system: **50 waste handling equipments; 1,500 Green Garbage bins installed**



Bago, Philippines (Kitakyushu Initiative)

- Waste reduction by 30% by 2012 → **20% reduction by Feb. 2011; established a transfer station; finished construction of a sanitary landfill; passed a City Environment Code 2011 (Feb. 2011); publication of an environmental notebooks and workbooks for students**
- Composting technology transfer: **collaboration with DENR Regional Office (EMB 6) to serve as a techno-hub**



Environment Commitments Expressed by Local Governments in 2011

- Phnom Penh, Cambodia
- Shimla, India
- Luang Prabang, Lao PDR
- Kuching North, Malaysia
- Yangon, Myanmar
- Cagayan de Oro, Philippines
- Iloilo, Philippines

