

Activities to Promote ESC in the Region by IGES

Promoting efficient use of resources and proper waste management by supporting the UNCRD in organising the Regional 3R Forum in Asia



Source: UNCRD website (http://www.uncrd.or.jp/env/spc/4th_3r_forum_f.htm)

Activities to Promote ESC in the Region by IGES

Facilitating coordination and cooperation among various stakeholders by serving the secretariat of the High Level Seminar on ESC for 5 years



Source: <http://www.hls-esc.org/>

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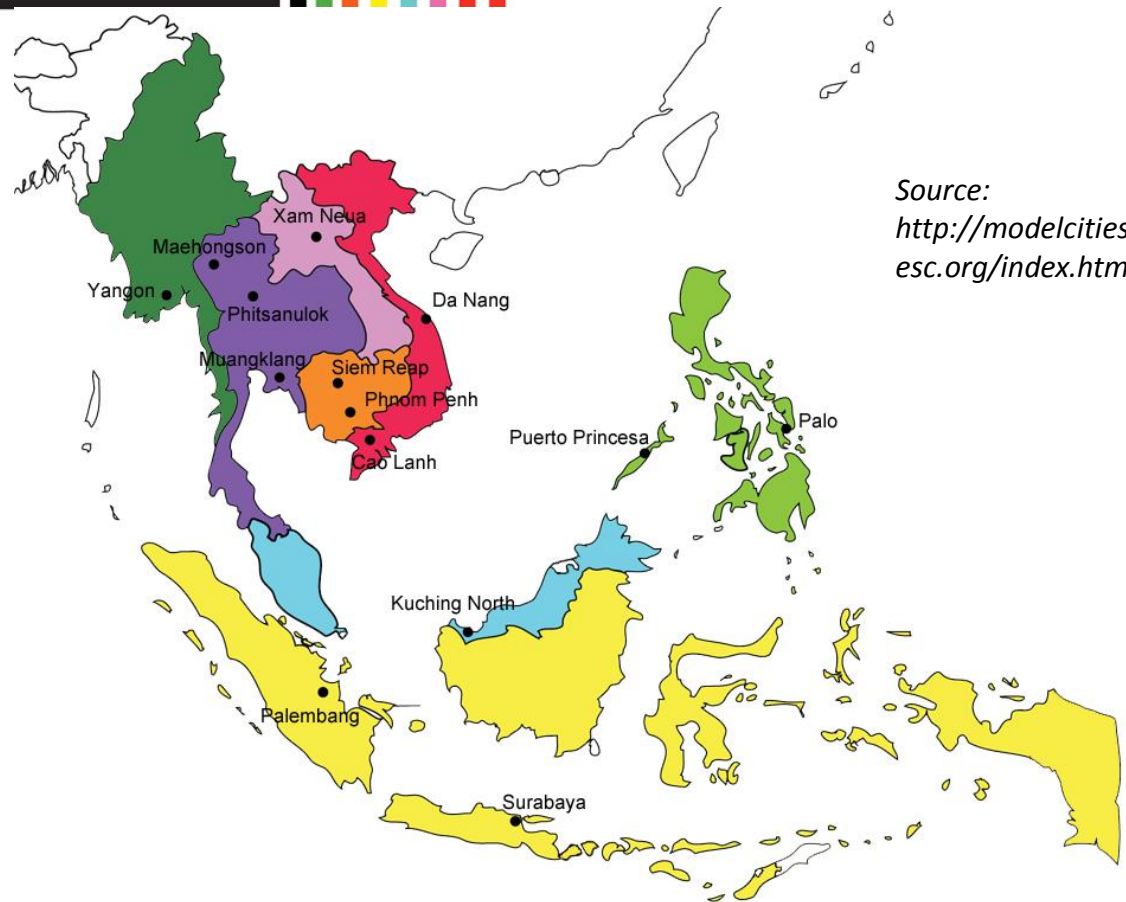
Assisting development of ESC Model Cities in 8 ASEAN Countries



Myanmar officials receive practical training on water and sanitation management



Staff at a Surabaya waste bank



Source:
<http://modelcities.hls-esc.org/index.html>

Assisting Surabaya City in Developing Low-Carbon Projects

Japan-side

City of Kitakyushu

Project Management

IGES

Kitakyushu Asian Center
for Low Carbon Society



Green Sister City (Nov. 2012)

Indonesia-side

City of Surabaya

Development Planning
Bureau (BAPPEKO)

Cooperation Div.

Energy sector

63,000t-CO₂/yr

NTT DATA Institute of Management Consulting Inc.
NTT Facilities Inc.
Green Prop Co., Ltd
KPMG Azusa LCC,

FS for energy saving and dispersed power system



Local companies, city hall, universities, hospitals, shopping malls, data centres etc.

Cooperation:
Fuji Electric Co., Ltd.
Nippon Steel & Sumikin Engineering Co., Ltd.

Cogeneration technology



PT SIER, PT PIER, local companies, National Electricity Company (PLN)

Cooperation:
Japan NUS Co., Ltd.

LED conversion at highway



National Highway Corporation (PERSERO)

Transportation sector

1,000t-CO₂/yr

Public transportation, Improvement of traffic system for waste collection vehicles, low emission vehicles

ALMEC VPI Co., Ltd.



Transportation Dept., bus and taxi companies, DKP

Cooperation: Findings of other projects in Surabaya funded by other sources were shared to this project.

Solid waste sector

72,000t-CO₂/yr

Cooperation:
Nishihara Co., Ltd.

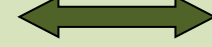
Waste sorting, recycling, composting



Dept. of Cleanliness and Landscaping (DKP), Environment Dept. (BLH)

Hitachi Zosen Co., Ltd.

Waste-to-energy (incineration)



Ministry of Energy and Mineral Resources, Ministry of Public Work, Ministry of Environment

Amita Co., Ltd.

Waste-to-energy for industrial waste



Local companies, cement company

Water resource sector

15,000t-CO₂/yr

Matsuo Sekkei Co., Ltd.
Kitakyushu City Waster and Sewer Bureau

Energy saving at water and sludge treatment plants



PDAM, Keputih sludge treatment plant, Industrial Estate Company (PT SIER)

**Potential CO₂ emission reduction:
Total 150,000t/year in 3 years**