



Cambodia

Concept and The way forward to support **ASEAN ESC Model Cities Program Phase 2**

Plenary 1/Day 1
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Waste Management is the critical Aspect of ESC Model City



Background/Problems

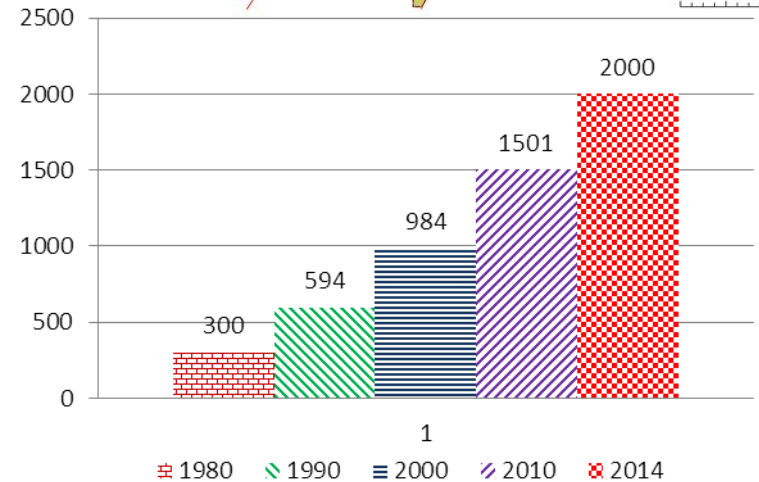
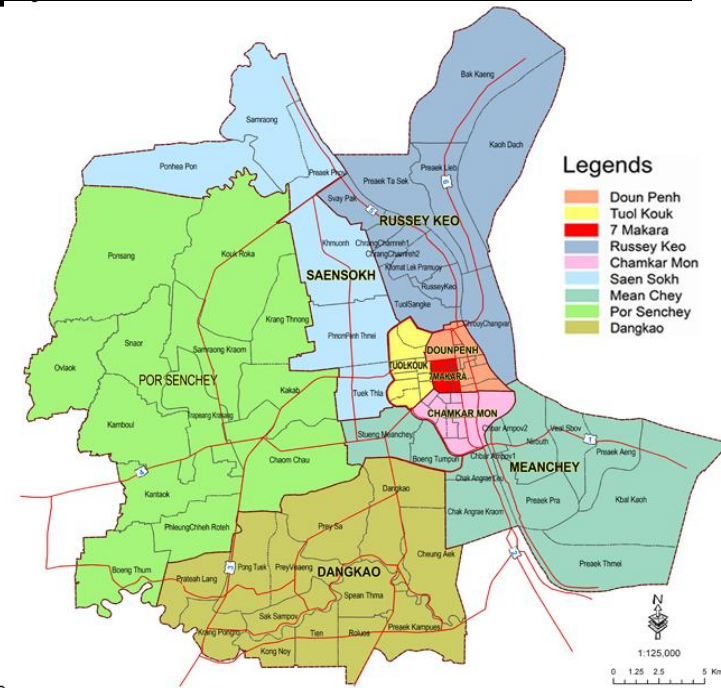
City Population Growth

World >> Region > Phnom Penh

By 1990, less than 40% of the global population lived in a city, but as of 2010, more than half of all people live in an urban area. By 2030, 6 out of every 10 people will live in a city, and by 2050, this proportion will increase to 7 out of 10 people. Currently, around half of all urban dwellers live in cities with between 100 000 - 500 000 people, and fewer than 10% of urban dwellers live in megacities.



For Phnom Penh City, the last Ten Year, 2000 to 2010, the growing rate (5 times) was higher than the Previous years and recently the rate is too fast.



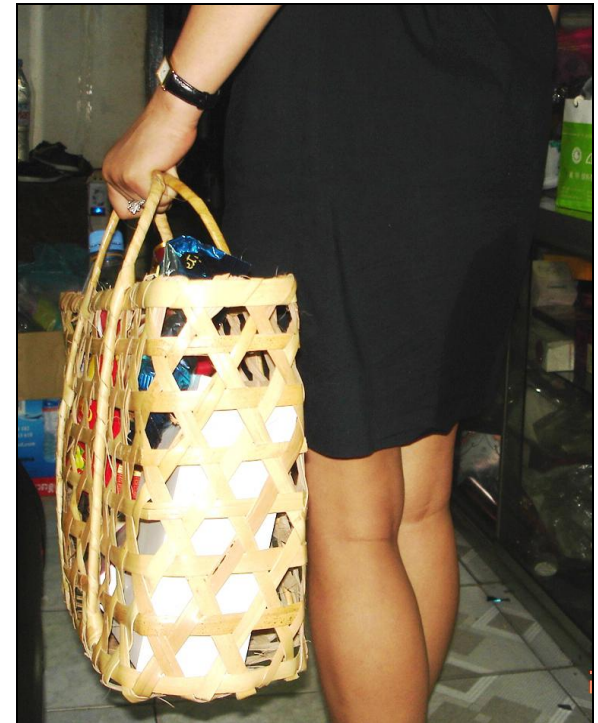
Waste Management is the critical Aspect of ESC Model City



Objective(s)

Solid Waste and Liquid Waste are **increased accordingly, necessary** to solve.

- Vision>> Proper Mechanism and legislation setup/ improvements.
- Awareness Improvement in changing behavior, (Public & School)
- Facility (Collect/Transport/Disposal) and Technology for Treatment.
- Fee and Taxes



Waste Management is the critical Aspect of ESC Model City



Composition of Waste

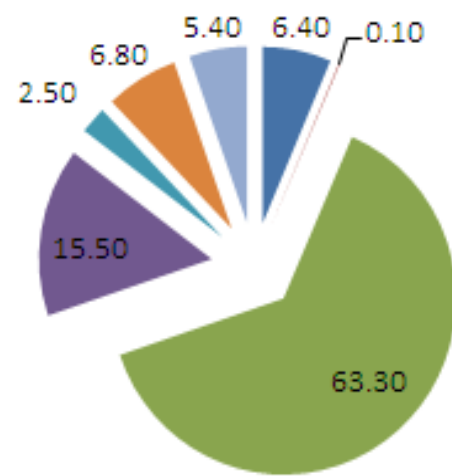
Currently waste composition in Phnom Penh

Combustible: 94.6 %

Paper	6.4 %
Rubber & Leather	0.1 %
Kitchen waste	63.3%
Textile	2.5 %
Plastic	15.5%
Grass & wood	6.8 %

Incombustible: 5.4 %

Metal	0.5 %
Bottle & Glass	1.2 %
Ceramic & stone	1.5 %
Other	2.1 %



Paper Rubber Kitchen W Plastic
Textile Wood&glass Incombustible

Waste Composition in P Penh

Source: Jica study team, 2003

Waste Management is the critical Aspect of ESC Model City



CAMBODIA, Accomplishment Project in Phase I

#	Outline Projects	ESC Model City Structuring, MoE	Plastic bag Reduction in Phnom Penh	Organic waste Reduction in SR
1	Problems to be solved (Objectives)	Hierarchical Role	Changing behavior Awareness Raising	Awareness Raising Disposal facility
2	Output 1	National Committee	City Mechanism setup City Committee	City Mechanism setup
3	Output 2	ASEAN criteria Translation	Reuse bags and Leaflet production	Local Ordinance
4	Output 3	Attending Workshops	Meeting and workshops	Meeting and Workshops
5	Output 4	Monitoring ESC Projects	Signing Voluntary Code Practice for Selected Supermarkets	Organic Waste Bins Provision in Selected Markets
6	Sustainability	Will extend to major cities.	Extending into Nationwide Program	Remaining use segregation concept

Waste Management is the critical Aspect of ESC Model City



SWOT analysis

STRENGTH

- Having the appropriate framework
- Having the right Concept for dealing with the real status and problems.
- Having Regional Support and Local Commitment

OPPORTUNITY

- Government Vision
 - Clean City Contest
- People need for good sanitation.
- Private sectors Participation
- NGOs involvement
- Good coordination

WEAKNESS

- Long term implementation, slowly out come appearance.
- Lower income people are rarely acceptance
- Lack of MSW database.

THREAT

- Rapid population growth
- Gradually behavior changing.



Recommendation for the next step

- Looking for further assistance and support for MSW management: Database improvement and Awareness Raising.
 - Looking for improving other key aspects: wastewater treatment, Eco-Housing, greenery, low carbon city, renewable energy...
 - Implementing the same time in same action in the whole region.
 - Establish The ESC Model City Criteria for contest program.
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THANK YOU

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