

National Consultation Workshop on Kitakyushu Initiative Demonstration Project "Solid Waste Management as a Social Enterprise"

WORKSHOP REPORT

10-11 April 2008 Bago City, Philippines

United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) Institute for Global Environmental Strategies (IGES) City Government of Bago, Philippines



CONCEPT NOTE

Kitakyushu Initiative for a Clean Environment Demonstration Project –Bago City Philippines National Consultation Workshop

10-11 April 2008 Bago City, Philippines

Thematic areas:	(a) Urban waste/environmental management(b) Small enterprise development/Eco-scheme/ Waste banking(c) Policies practices for replication.
Objective:	To present the ongoing and planned activities related to urban waste management implemented by Bago City and formulate strategies for better implementation and further replication of those activities by other cities/local governments in Philippines.
Target groups:	Local governments, municipalities or communities of the Philippines (mayors, planning officials, etc) involved in the area of urban environmental management.

Background

United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) has been implementing the Kitakyushu Initiative for a Clean Environment (KI), adopted at the Fourth Ministerial Conference on Environment and Development in Asia and the Pacific (MCED 2000) held in Kitakyushu, Japan in September 2000.

The Kitakyushu Initiative for a Clean Environment (KI) is a mechanism for implementation of the priority areas of the Regional Action Programme for Environmentally Sound and Sustainable Development in Asia and the Pacific with specific focus on environmental quality and human health in urban areas. The Initiative involves a three pronged approach of: a) implementing pilot activities that will identify and review different approaches to urban environmental management in selected cities in the region; b) undertaking of study tours and other capacity building events aimed at encouraging the transfer of successful practices and promoting intercity environmental cooperation in country-specific contexts; and c) establishing network for information dissemination and exchange.

Bago City Development Project

Bago City was used to be adjudged as one of the dirtiest in the region, with high incidence of poverty, malnutrition and health problem due to its failure in solid waste management. To address those problems, KABAHIN KA Programme, a comprehensive approach in solid waste management based on community participation was implemented and has successfully resulted to reduce the waste generation (by weight) of the City by 50%. However, there are still remaining challenges as the current composting methodology and recycling system was found to be costly, inefficient and financially unsustainable. In to order to improve the solid management system, the City proposed to implement the "Solid Waste Management as a Social Enterprise: A Community-based 3R Approaches in Bago City", by applying a market mechanism as

well as introducing a better composting methodology together with more active participation and support by the people. This project basically aims to support the development of "mini-enterprises" for waste composting and recycling that will provide business and market opportunities for the stakeholders involved and to explore other activities related to waste reduction and management. The project also seeks to strengthen environmental awareness and cooperation among the members of communities, students, local government, private entities, NGOs and other stakeholders in the City. By doing so, it is expected to demonstrate multiple environmental and socioeconomic benefits by enhancing the successful outcomes of the ongoing KABAHIN KA programme.

This project is fully supported by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and the Asia Pacific Forum for Environment and Development (APFED) as one of the model cases of an actual replication of good practices facilitated by the Kitakyushu Initiative Network. The City Government of Bago, in collaboration with UNESCAP, APFED and other advanced member cities of Kitakyushu Initiative Network, intends to demonstrate the early stages in the implementation of the project, the significance of a collective action and application of appropriate approaches and technologies that could be transferred to and adopted by local governments in developing countries with minimum support from international organizations and donor agencies. The best practices that will be demonstrated by the Project have gained success and popular acceptance in the City of Surabaya in Indonesia for Takakura Method of Composting, the City of Nonthaburi, Thailand for the Waste Bank, the Miyashiro Board of Education for Environment Education, among others.

Objectives of the National Consultative Workshop

To formulate strategies for a better implementation by Bago City of the replicated urban waste management best practices considering the comments and suggestions of and possible further replication by other cities/local governments in the Philippines. Specifically it aims at:

- a. Presenting the preliminary activities and action plans of Community-based 3R Approaches Project in Bago City.
- b. Gathering comments and suggestions from original cases from which this project is replicated from and other existing good practices in community-based solid waste management in the Philippines.
- c. Identifying critical components and formulation of strategies for replication by other local governments in the Philippines.

Participation/Target groups

In addition to KI's staff from UNESCAP and from the Institute for Global Environmental Strategies (IGES), which is hosting the KI Network Secretariat, participants should include:

- Bago City officials, in charge of the KI Bago City Demonstration Project
- Other KI member cities from the Philippines (Cebu, Puerto Princesa, San Fernando, La Union)
- KI member cities from other countries, from which successful waste management measures were learned and which could provide useful advices.

Target groups include: Local governments, municipalities or communities of the Philippines (mayors or top representatives, planning officials, etc.) involved in urban environmental management.

Programme

The 2-days workshop will be organized in the following way:

The first morning will be dedicated to the presentation of the national policy direction of the National Government, the original cases of best practices from which Bago project was replicated from. In the afternoon, the presentation of the Bago City Demonstration project – rational for the choice of the city, explanation of the project - by the City officials, followed by a field visit on the site in Bago City. The second day will be for the presentation by other Cities in the Philippines with successful good practices on solid waste management, followed by interactive discussions about how Bago City's experience could be improved and possibly replicated in other cities in the Philippines.

For more information, contact:

Ms. Sophie Bonjour Environment and Sustainable Development Division United Nations Economic and Social Commission for Asia and the Pacific Phone: +66 (0)2 288 1770 Email: <escap-esdd-evs@un.org>; <bonjour@un.org> Visit <http://www.unescap.org/esd/environment/kitakyushu/> for further information. UNITED NATIONS ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC In cooperation with the Local Government of Bago City, Negros Occidental and the Institute for Global Environmental Strategies (IGES)

Kitakyushu Initiative for a Clean Environment: National Consultative Workshop on Kitakyushu Initiative Demonstration Project in Bago City, Philippines - "Solid Waste Management as a Social Enterprise" 10-11 April 2008 Buenos Aires Mountain Resort and Rafael Salas Park and Nature Center Bago City, Philippines

PROGRAMME

Thursday 10 April 2008

Session 1: Opening Session

9:00 - 9:30 9:30 - 9:40	Registration Welcome Remarks - Honourable Ramon D. Torres, City Mayor, Bago City, Philippines
9:40 - 10:10	 Introductory Presentation: Mr. Masakazu Ichimura, Chief, Environment Section, Environment and Sustainable Development Division United Nations Economic and Social Commission for Asia and the Pacific (ESDD/UNESCAP) Ms. Peachie Ann Aquino, Kitakyushu Initiative Network Secretariat, Institute for Global Environmental Strategies (IGES)
10:10 - 10:20	Coffee break
10:20 - 10:35	Solid Waste Management: the Philippine Perspective Presentation of National Solid Waste Management Commission Ms. Emelita Aguinaldo, Deputy Executive Director, National Solid Waste Management Commission (NSWMC)
10:35 - 10:50	Solid Waste Management: the Indonesian Perspective Ms. Theresia Widyawati, Surabaya Women's Welfare Organization, Surabaya, Indonesia
10:50 - 11:10	Discussion (Q&A)
12:00 - 13:00	LUNCH
Session 2: Solid Waste Project	Management as a Social Enterprise: A Kitakyushu Initiative Demonstration
12.00 12.20	Prosontation of Rago City domonstration project Honourable Mayor Pamon D

13:00 - 13:30	Presentation of Bago City demonstration project, <i>Honourable Mayor Ramon D.</i> <i>Torres, Bago City</i>
13:30 - 14:00	Discussion (Q&A)
14:00 - 17:00	Site Visit Barangay Sag-asa

19:00 - 21:00 Dinner Reception

Barangay Lag-asan Bago City's Eco-Center

Friday 11April 2008

Session 3: Showcase of Good Solid Waste Management Practices in the Philippines

- 9:00 09:05 Welcome Remarks Vice Mayor Nicholas M. Yulo, Vice-Mayor, Bago City
- 09:05 09:20 Solid Waste Management Practices in Philippine Cities, *Mr. Andres Drexel y Bersalona* Roque II, Environmental Officer, League of Philippine Cities
- 09:20- 09:35 Solid Waste Management Practices in San Fernando City, *Honourable Mayor Pablo C.* Ortega, San Fernando City
- 09:35-09:50 Solid Waste Management Practices in Makati City, *Ms. Kathleen Almonte, Department of Environmental Services, Makati City*
- 09:50 10:05 Solid Waste Management in Tacurong City, *Engr. Alfredo Ranido Jr, City Environment* and Natural Resources Office, Tacurong City
- 10:05-10:20 Discussion (Q&A)

10:20 - 10:35 Coffee break

Session 4: Discussion of strategies for the improvement of Bago City Demonstration Project

10:35-12:00 Presentation of comments and suggestions for improvement Surabaya City National Solid Waste Management Commission League of Cities of the Philippines San Fernando City Puerto Princesa City Cebu City Makati City Tacurong City

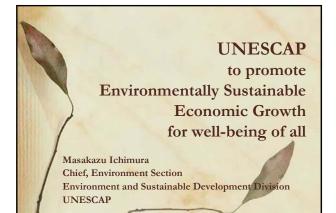
Chairperson: Mr. Masakazu Ichimura

12:00 - 13:00 LUNCH

Session 5: Conclusion

13:00 - 13:20 13:00 - 13:30 13:30 - 13:40	Summary of comments, suggestions and areas for follow-up Concluding Comments -UNESCAP Closing Remarks - <i>Honourable Bernadette Somcio, Coucilor, Bago City</i> <i>Government</i>
14:00 - 17:00	Tour of Bago/Bacolod

19:00 - 21:00 SEND OFF DINNER



Kitakyushu Initiative Philippines National Workshop WELCOME!

- KI Network Cities from Philippines > Puerto Princesa, Cebu, San Fernando
- New Members to KI
- > Tacurong, Makati, Cities from Negros Occidental **City Association**
- Philippines League of Cities
- **National Government**
- DENR/EMB National Solid Waste Management Commission
- **Cities from the AP Region**
- Surabaya Thanks to Host City of Bago

- **ESCAP's Principal Function** Supply Innovative Policy Ideas Multi-disciplinary > Analyzed, Proved and Demonstrated > Advocated, Disseminated through Targeted

 - Capacity Building (Leadership Training, Policymakers Seminar, etc.)

Provide Forum of Dialogue

- > Inter-governmental, Multi-ministry
- Multi-stakeholder



Green Growth - Background

- SOE Assessment on AP Region's Development
- Development = Growth stays as primary concern for AP to overcome persistent poverty challenge > Current development pattern is no longer sustainable vis-
- à-vis consideration of environmental carrying capacity Efforts needed to achieve development paradigm shift (Environmentally Sustainable Economic Growth) = Green Growth)
- Adopted as a regional strategy for achieving sustainable development by ESCAP Ministerial Conference in 2005 (MCED5)

Green Growth - a Key Approach Promote Scio-Economic Policy / Programme Options to support right choice of growth patter of the countries Two Series of Action for promoting Green Growth > Intervention at Policy Level Green tax and budget reform; Development of sustainable infrastructure; Promotion of sustainable consumption and production; · Greening of markets and business, and Development of Ecological Efficiency Indicators Promotion of Local Initiative thru Kitakyushu Initiative



KI Background

- · ESCAP's key instrument addressing local initiative / urban environment
- Adopted by MCED 2000 held in Kitakyushu based on the regional review of SOE
- Primary funding by Japan, with in-kind supports from relevant institutions / programmes
- Network secretariat by IGES
- Practical approach commended by MCED2005 (Seoul) and endorsed for extension up to 2010

KI – Main Features

- Attempts to draw lessons from the practices and experiences of Kitakyushu and other cities and put them together into a menu of effective action for the cities in the region.
- Mandate to achieve measurable progress in improvement of the urban environment in Asia and the Pacific
- Promotes local initiatives targeting control of air and water pollution, minimization of all kinds of wastes, taking selected technical, institutional, regulatory and participatory measures
- Mutual assistance facilitated through Network of more than 60 cities



KI New Focus for Second Cycle 2005-2010

- Environmental and Socio-Economic **Co-Benefits**
 - > New Focus in line with Green Growth approach adopted by MCED5
 - Highlighting win-win synergy between environmental and other challenges faced by local governments in AP region
 - > Enhancing political priority + financial feasibility of urban environment actions

Highlight on Co-benefits (1)

- · AP Developing Country Cities are faced by lack of ...
 - Local Capacity (technical / institutional)
 Legal / regulatory instruments (particularly at national level)
 - Financial resources
 - Awareness and support

Background problems

- > Competing policy priority amongst mounting multiple challenges (poverty, slums, housing, infrastructure, health, social welfare, economic livelihood) > More competition than synergy
- Perception Environmental protection measures are financial burden (Prevailing both in city managers, donors and investors)
- > Environmental Protection bureaus relatively weak

Highlight on Co-benefits (2)

- Environmental Protection Measures mostly have the socio-economic co-benefits
- Such co-benefit, if explicitly demonstrated, will contribute to
 - > Enhancing the priority in local policy making
 - Creating more synergy amongst different department > Attract more financial opportunities (grants) from broad range of sources
- Strengthen public support with enhanced awareness
- Demonstration of economic return will help
- > Revolving investment for project expansion / replication
- > Attract more financial opportunities (loans and investments)
- > Engage expertise commercially available

Exemplar Cases of Co-benefits (1) Municipal Solid Waste Management can simultaneously address:

> Environmental benefits:

- Improvement in MSW Management
 Health and Hygienic implications
 Prevention of Water/ Groundwater Pollution
- Reduction of GHG gas emission
- Socio-economic co-benefits:
- Engagement of Informal Sector
 Generating incomes for the poor and marginalized
- New business opportunities
- Partnership amongst NGO, Private Sector and City Hall
- Urban Governance / Transparency
 Social equity, Gender and Youth Perspectives
- Education
- New Finance through CDM project

Exemplar Cases of Co-benefits (2)

- Promoting Public Transportation / Demand Side Management for Urban Transport: •
 - > Environmental benefits:
 - Improvement in local air qualityReduction of GHG gas emission
 - Socio-economic co-benefits:
 - Direct return from energy saving
 - Avoiding the cost of traffic jam
 - Stimulate economic livelihood / competitiveness
 - Equitable mobility and safety New business opportunities
 - New Finance through Urban Transport CDM project

Bago Pilot Project KI/ESCAP support for piloting different Policy Measures for promoting Environmental and Socio-economic Co-benefits approach

- Eco-money scheme
- > etc
- To be continued with support from APFED Showcase Programme Technical cooperation with IGES / City of Kitakyushu/ KITA /J-PEC

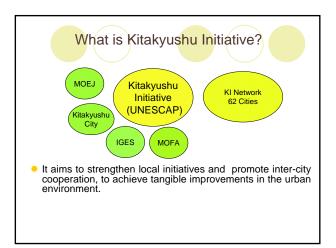
This National Workshop

- To share ideas of Bago Pilot Project / policy measures tested.
- To exchange relevant experiences / inputs from other cities for possible improvement of Project implementation
- To enhance opportunities for replications of the policy measures in other cities
- To identify requirements of national policy supports

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To catalyzes further networking / inter-city collaboration in Philippines

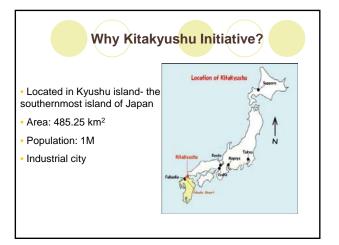




Role of IGES in Kitakyushu Initiative

- Institute for Global Environmental Strategies (IGES) - research institute in Japan
- IGES-Kitakyushu provides the professional and financial support and functions as Secretariat for the Kitakyushu Initiative Network under the supervision of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and the Government of Japan







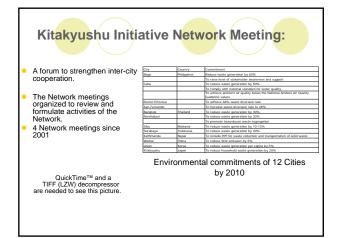


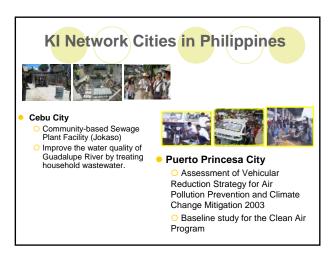








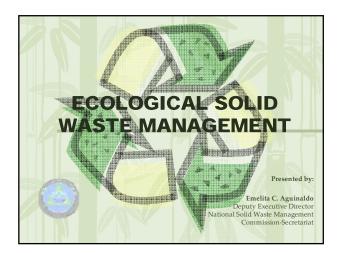




KI Network Cities in Philippines San Fernando Ocular visit to Barangay Lingsat, sanitary landfill and communities for the Eco-San project • Bago O KI Demonstration Project: Solid Waste Management as a

- Social-enterprise
- Based from successful practices from Nonthaburi, Thailand and Surabaya, Indonesia
- Professional support from IGES
- O Recipient of the APFED-showcase programme

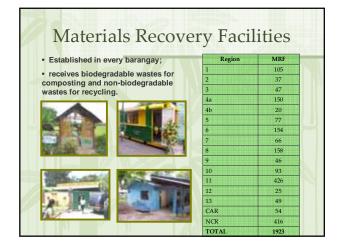
















Mandatory Solid Waste Diversion

- All LGUs shall divert at least 25% of all solid wastes from waste disposal facilities through reuse, recycling, composting, and other resource recovery activities within 5 years after the effectivity of the Act
- The waste diversion goals shall be increased every 3 years thereafter













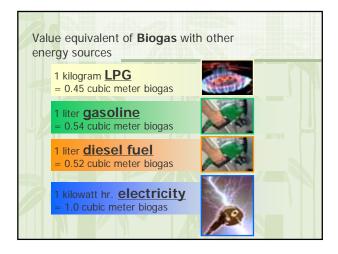




Consolidated Collection Results								
Type of Recyclable materials	Total Volume Collected	Total Monetary Value	Environmental Ben	efits				
Paper (kilos)	17,990.10	51,538.70	No. of trees saved (7 year old)	306				
Car/lead acid battery	152	17,789.25	Lead Recovered (kls.)	2,166				
(pieces)			Sulfuric Acid Treated (li)	324.90				
Electronics/ Electrical	2,392.09	31,211.75	Precious Metal Recovered (gms.)	358.88				
(pieces)			Base Metals Recovered (kls.)	2,871				
			Toxic Substances Treated (kls.)	478.50				

	Consolidated Collection Results							
atoria di stato to toni	Type of Recyclable materials	Total Volume Collected	Total Monetary Value	Environmental Benefi	ts			
and the second	Aluminum cans (kilos)	316.40	9,273.04	Aluminum Recycled (kls.)	316.40			
	PET plastics (kilos)	1,625.40	22,598.42	PET Plastics Recycled (kls.)	1,609.15			
		1						



















Implementation Issues and Challenges

- Insufficient domestic supply (quality/quantity) of the recycling resources
 - factors:
 - difficulty in collecting high quality materials due to mixed waste
 - outflow of domestic recyclable materials to other countries
 - information gap

Implementation Issues and Challenges

- Difficulty in the development of the Recycling Industry factors:
 - Lack of efficient collection/transportation system
 - High domestic transportation cost
 - High cost of electricity in comparison with surrounding countries.



Contents of Presentation Background of Surabaya City, Indonesia Background information on Solid Waste Management practices in Surabaya Partnerships Implementation Environmental & Socio-economic Benefits Follow-up actions



Figures of Surabaya Before Solid Waste Management Program Population: Daytime 4 million Night time 3 million Solid Waste Generation in 2004 : Final Disposal Site ± 1819 ton / day Burned by mini incinerators ± 120 ton / day ± 29.4 ton / day Independent waste management Disposed everywhere ± 108,6 ton / day

In implementation strategies for reducing the waste

The strategy was simple, providing them the technology and how to use it

The important actors are:

- 1. the Kitakyushu City (research assistance)
- 2. The Woman Well fare
- 3. The local NGO's
- 4. The environmental cadres
- 5. The media (Jawa Pos) and Unilever Care foundation



International Partnerships

Surabaya - Kitakyushu

- Study of solid waste characteristics (2002)
- Research of composting methods; result: Takakura Home Method (2003)
- Implementation of Takakura Home Method for households and community (2004)
- Research on solid waste from public market (2005)
- Development of waste bank for solid waste from public market (2006)

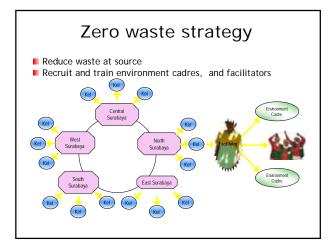


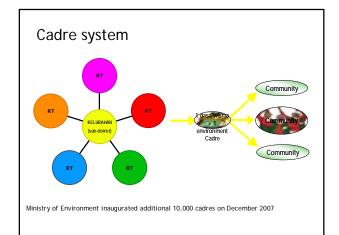
Implementation



- Woman well fare with the socialization
- Takakura home method become the main issue that spread among the people to help reduce the household waste













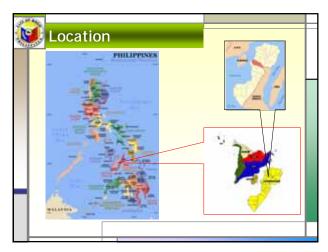


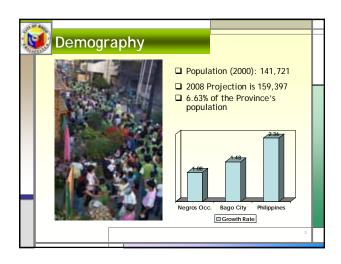


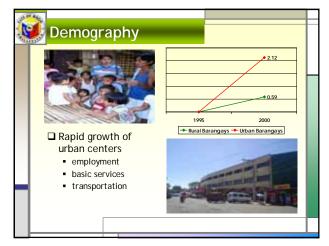


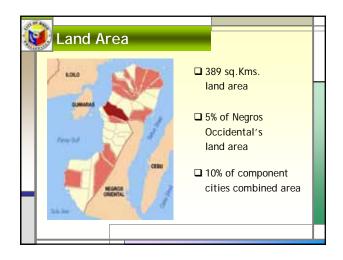


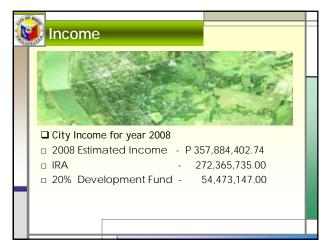








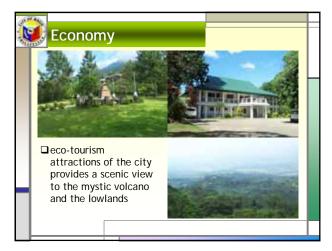










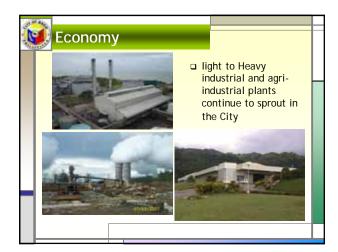






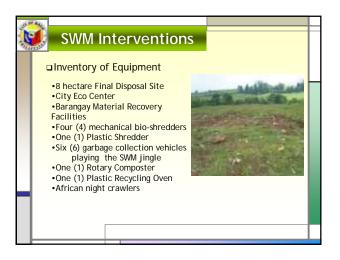


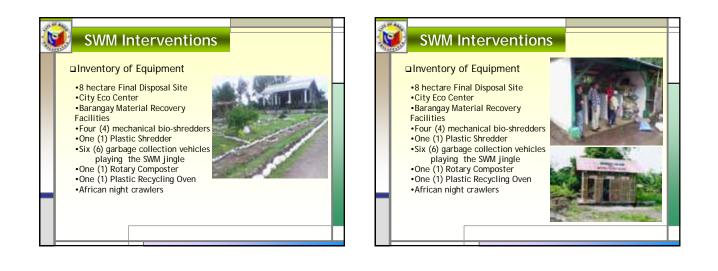


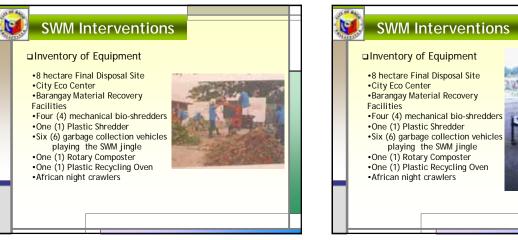




Waste Analysis Charact	erization	n Survey
Type of Wastes Survey Results (Total per Day	Weight (Kg)	Weight Percent (%)
Plastic Bottles Glass Bottles Metal Cans Paper Products Plastics	56 432 89.0 759.6 2,650	0.3% 2.1% 2.7% 0.5% 12.8%
Biodegradables Residual Waste	10,816 5,308	52.4% 25.66%
Total per day	20,656	100.00%

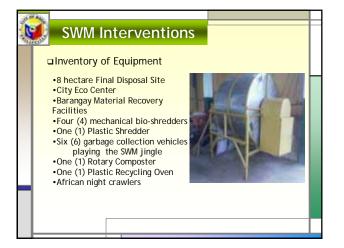












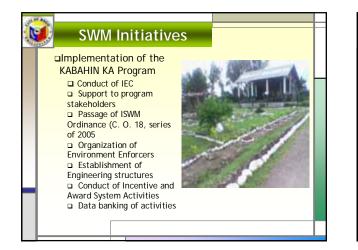


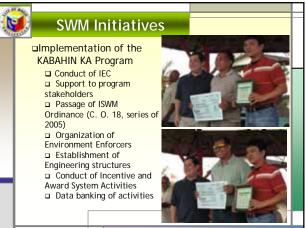










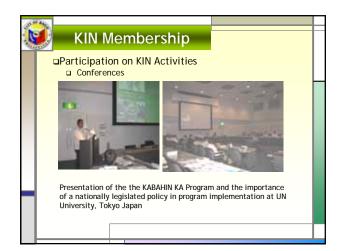














🚺 🛛 KIN Membership	
Submission of Proposal for Proposal for Proposals were submitted to:	KI Demo Project
 United Nations Economic a and the Pacific 	Ind Social Commission for Asia
Asia Pacific Forum for Envi	ironment and Development
Resulting to the following FUND	counterparting:
UNESCAP	10,000.00 USD
APFED	30,000.00 USD
City of Bago	20,000.00 USD
TOTAL PROJECT FUNDING	60,000.00 USD

N		KI Demo Pr	oject			
	□Pro	ject Title Solid Waste Manage	ement as a Soci	ial Enterprise		
		PROPOSED KI PROJECT 1. Social Enterprises for		viability of m	iini-	
		Composts Processors	enterprises for c adopting the Ta Household Comp	akakura Method		

KI Demo P Project Title Solid Waste Mana	agement as a Social Enterprise
PROPOSED KI PROJECT	ROLE OF KI PROJECTS
2. Social Capital Enhancement	Forging of a strong government- community partnerships in the implementation of Social Enterprises for Composts Processors.

□Proje	Demo F ct Title olid Waste Mar		Social Ente	erprise
PROPOSE	D KI PROJECT	ROL	E OF KI PRO	JECTS
	ental Education in Public	environmenta Elementary S National High campaign im and Surabaya ISO 14000	l education ichool and School using plemented , and imple Environme	institutionalize n in Lag-asan Ramon Torres g the awareness by Nonthaburi ement the KIDS ntal Education.

C	KI Demo Project	
	□Project Title Solid Waste Management as a Social Enterprise	
	PROPOSED KI PROJECT ROLE OF KI PROJECT	
	4. Eco Banking Project Ensure the effective Implementation of the Eco-money schemes to develop mini enterprises in recycling considering the experiences of Nonthaburi Waste Bank and Atsugi Nakachou Shopping District.	

3	KI Demo Pi	roject
□Pro	oject Title Solid Waste Mana	gement as a Social Enterprise
	PROPOSED KI PROJECTS	ROLE OF KI PROJECTS
	5. 3R Toolkit	Provide a detail instruction manual on 3R approaches with focus on the Philippines, integrating best practices of KIN.
	6. Wastes Managers Forum	Strengthen linkage with member- cities, sponsoring and cooperating agencies of the KIN, for the possible replication of the good wastes management practices.

199				Pro	Jeci				
				Managem	ient as a S	Social Ente	erpris	e	
	PROJECT I	PARTNE	RS		ROLI	E OF PARTN	ERS		
1.		KIN,	IGES,		រnds, dispat ation throuរួ	tch experts sh site visits	condu	uct mo	nitoring
2.	CITY GOV BAGO thr			trainings a by NGO, a •Supervise project	and seminar nd evaluation	linate fund rs, require son report by ment the im support	ubmis barar pleme	sion of Igay co entatio	f reports ouncil
				implemen		support			project

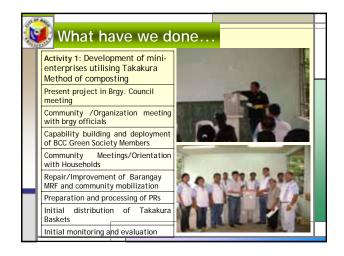
ø	KI Demo Project	
	□Project Title Solid Waste Management as a Social Enterprise	
	PROJECT PARTNERS ROLE OF PARTNERS 3. Barangay Council of Brgy. Lag-asan • Implements and document the project implementation in coordination with the Barangay and City • Submit periodic financial and management reports • Facilitates and assists activities of the participating community and households • Monitor and evaluate the implementation of the community and the school of the project • Submit recommendation to the City Mayor on actions to be undertaken relative to the project implementation	

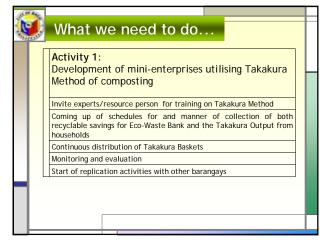
💓 🛛 KI Demo	Project
Project Title Solid Waste	Management as a Social Enterprise
PROJECT PARTNERS	ROLE OF PARTNERS
4. Pilot Community	•Actively participate and encourage participation by households thru IEC in coordination with the barangay
5. Lag-asan Elementary School SSG	Implements and document the project implementation in coordination with the Baarangay and City Submit periodic financial and management reports Actively participate and encourage participation by students thru IEC

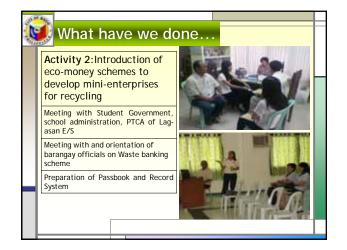


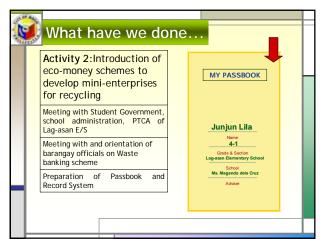






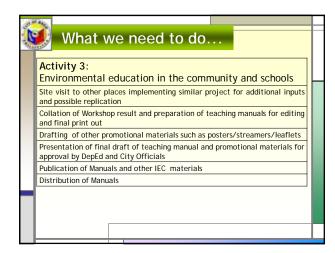


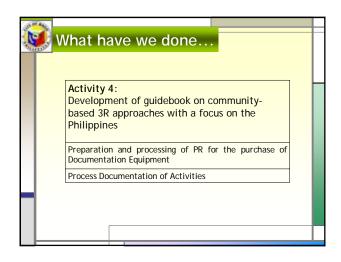




	n of eco-money schemes to develop prises for recycling
	ste Banking Scheme in schools and the barangay
Release of see	d Money to Project partners
Strengthen and	coordinate activities of accredited junkers







What we need to do...

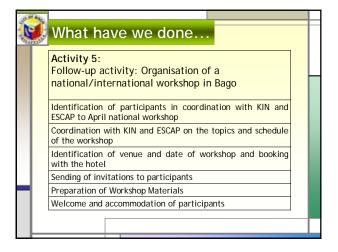
Activity 4:

Development of guidebook on community-based 3R approaches with a focus on the Philippines

Preparation of Manuals

Presentation of Draft Manual to project implementers, City Officials, KIN, UNESCAP for critiquing Finalization of the guidebook for printing

Publication of the Guidebook



Activity 5:
Follow-up activity: Organisation of a
national/international workshop in Bago
Identification of participants in coordination with KIN, ESCAP and APFED to proposed 2009 international workshop
Coordination with KIN and ESCAP on the topics and schedule of the workshop
Identification of venue and date of workshop and booking with the hotel
Sending of invitations to participants
Preparation of Workshop Materials
Welcome and accommodation of participants





Content of Presentation

- Background on the League of Cities of the Philippines
- Role of LCP in City-to-City-Cooperation
- Initiatives and Achievements of Philippine
 Cities on SWM
- Support Mechanisms offered by LCP in Implementing SWM Initiatives

Armie Phres. - Langue of C

The League of Cities as enshrined and institutionalized under the Philippine Local Government HEC. 499. Purpose of Departments - Theoretical factor papers inters: In the Interve on the Langue of Calub, for the possage purpotion of the servers of the Langue of Langue of Langue of the intervents, and exercise, through proper and high forces, substants of The Integrate of the Intervent of the provenue of the Intervent of the Intervent of the Intervent of the provenue of the Intervent of the Intervent Calub, where the Intervent of the Intervent of the Intervent Calub, where the Intervent of the Intervent of the Intervent Calub, where the Intervent of the Intervent on the Intervent Calub, and the Intervent of the Intervent of the Intervent Calub, and the Intervent of the Intervent of the Intervent Calub, and the Intervent of the Intervent of the Intervent Calub, and the Intervent of the Intervent of the Intervent Calub, and the Intervent of the Intervent of the Intervent Calub, and the Intervent of the

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Vision

An empowered, strong, united brotherhood of purpose-driven cities committed to serve its people with a deep sense of pride and value laden commitment for progress and development.

Mission

To enable cities to stand as one, defend its rights, provide the best possible services, and pursue the common good for its constituents through its advocacies, capabilities and networking.

Goals

- Foster unity and cooperation
- Promote membership interest and welfare
- Provide a cohesive force for advocacy and better service delivery
- Serve as a forum for discussion and feedback

Collaborate with national and other local government agencies for effective and efficient inter-governmental relations

 Develop and implement programs to enhance city government capabilities

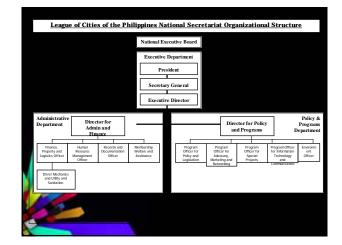
Structure

• The General Assembly - 120 cities, represented by their

LCEs

 The National Executive Board - Elected by the members

The National Secretariat



Current Programs & **Projects**

•City Development Strategy (CDS) •LCP Partnership with PADCO for the Philippine Sanitation Alliance •Transparent Accountable Governance (TAG) Project •LCP – ISA Partnership •Tie up with AIM for the City Competitiveness Ranking project •Traffic Management project with JICA and Cities Alliance Conduct of the LCP Caravan pssible partnership with Gawad Kalinga to address elter needs of all cities

Partnership with Philippine Clear Air and LOGOFIND for the conduct of capacity-building on the Air Quality Training Program

Role of LCP to City-to-City-Cooperation

•Respond to the demands for coordinated efforts on environmental policies, programs and projects

Bridging Information Gaps and Facilitating

Official newsletter of LCP "The Advocate"; copies distributed to all cities, Congress, NGAs, partner organizations both local and international

- Updating the contents of the LCP website www.lcp.org.ph
- Regular dissemination of reference materials to member-cities
- Possible production of an LCP television show in the pipeline

- LCP Action on Solid Waste Management Actively participated in relaxing the penal and administrative provision of RA 9003
- NG-LGU sharing on SWM •
- LCP-LMP policy dialogue with NSWMC
- Survey on the Status of Cities Implementation of RA 9003
- LGU sharing forum on SWM
- Local Environmental Planning and Mng't

Consolidating local gov'ts association in training of trainors in SWM Support systems on lobbying for the passage of NSWMC Res. relative to SWM implementation by LGUs

- Assist to create City ENRO Association Mentoring

Incentives

Financing sustainable environmental projects Guidelines for non-environmentally acceptable

	Result of Survey						
SWMB	SWI	SWMP		COMPOSTING FACILITY	SLF	SEGREGATION (SOURCE)	SEGREGATION (COLLECTION)
	Submitted to NSWMC	Approved					
100%	35%	11%	87%	81%	26%	91%	76%
			Surv		s); res =(45%	pondents (54 Citi	es)

Initiative/Achievement of Phil. Cities on SWM

- Conversion of open to controlled dumpsite
- Putting of up of low-cost SLF
- SWM full-cost accounting, waste
- Installation of Brgy. MRFs and Zero Waste Mng't

Support Mechanism by LCP

- Environmental Education
- Policy Dev't and Advocacy
- Knowledge Management
- Coordination and Networking
- Trainings and Capacity Dev't Mentoring and Piloting of specific programs











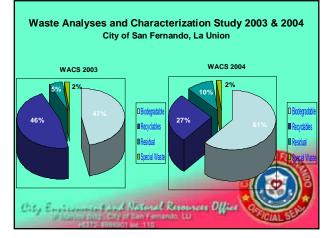
OBJECTIVES

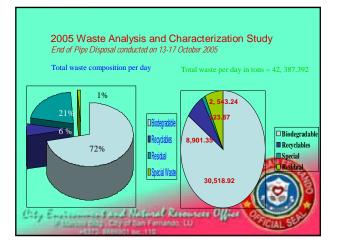
- ✓ Improve the existing SWM organizational structure and management schemes
- ✓ Establish effective SWM support system and facilities
- ✓ Finalize and institutionalize SWM plan in accordance to the City SWM Ordinance and R.A. 9003
- \checkmark Increase community awareness and participation on SWM through IEC
- Improve the involvement of barangays through SWM incentive schemes
- Improve participation and coordination with private and busines sectors

Usey Employments and National Resources Office

	SWM PROFILE	
Brief History		
Inclusive Dates	Type of Waste Disposal	Location
1960 to 1997	Open garbage dumping	Canaoay
1997 to June 1998	Open garbage dumping	Mameltac
July 1998 to 2005	Covered garbage disposal	Mameltac
October 2005 to date	Construction of engineered landfill	Mameltac
development including the built part of the US Bases. This wa	red by the Municipal Government under the late Ma sings were funded by the US AID - since we were s a project in 1983 during the Marcos administration out the needed components. It was only in 1997 v h is near the airport.	then the host to the Wallace Air Base, n, and in 1986, the facilities were
* Recycling was not practiced captain of the host barangay.	d at source, but we have 20 waste pickers who are	under a contractor, the barangay
	aged by the present administration through an educ LOK' and 'HINDI NABUBULOK'.	ational drive and by having two
Baranday MPE clusters are or	nphasized (Barangays Lingsat, Pagdaraoan, Carla	tan and Dalumpinas Ceste)
Association of Ecosan and MF	-	
	-	
Association of Ecosan and MF	-	Office *





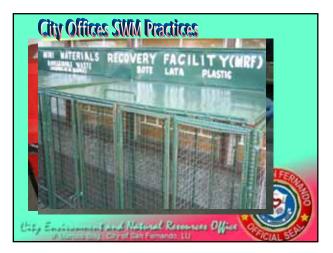














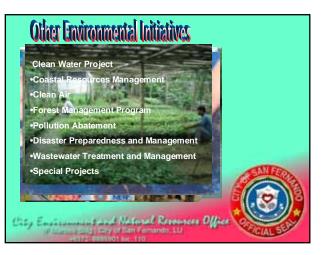






Lessons learned

- · community participation and empowerment brought success to the program
- strong political will of LGU
- counterparting scheme
- good working relationship of executive and legislative department
- collaboration with NGOs, NGAs, POs and other stakeholders brought success in the implementation of the project
- improved solid waste management system
- heightened interest and encouragement of people to participate in the SWM campaigns of the City of San Fernando
- the holistic approach that made possible the institutionalization of City SWM ordinance, environmental code and other ordinances related to SVM ensures logistical support even if there will be changes in leadership in the City







SOLID WASTE MANAGEMENT PRACTICES:



The Makati City Way

Ms. ERJUFEL D. DIONISIO District I Head, IEC Section, Solid Waste Management Division

Ms. KATHLEEN B. ALMONTE Planning Officer III, Planning Section

DEPARTMENT OF ENVIRONMENTAL SERVICES

OUTLINE

- Makati City Profile
- Waste Collection and Disposal
- Waste Reduction and Diversion Program
- Enforcement of City Ordinance 2003-095

city government o

Annual Events





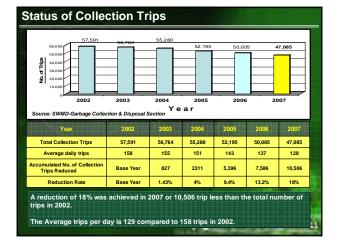








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-100,000.00	2003	2004	2005	2006	2007	
Source: SWMD-Garbage Colle	ction & Disposa	Ye Section	ar			ctual rojected
Year	2002	2003	2004	2005	2006	2007
Volume of Garbage Collected and Disposed in cu.m. (Actual)	1,158,881.2	1,094,970	1,005,291	942,538.50	886,993	857,230
Projected Waste Generation (in cu.m.)		1,182,058	1,205,699.7	1,229,813.7	1,254,410	1,279,498
Ave. Daily volume of waste collected and disposed (in cu.m.)	3,175	2,999	2,754	2,582	2,430	2,348
Accumulated Volume of Garbage reduced	Base Year	87,088	200,408.7	287,275.2	367,417	422,268
Reduction Rate	Base Year	7.37%	16.62%	23.36%	30%	33%
The average Daily Volume	of Waste Col	lected and D	isposed is n	ow down to 2	2,348 cu.m. /	Day from



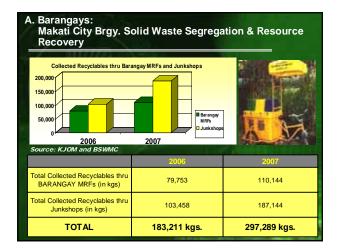


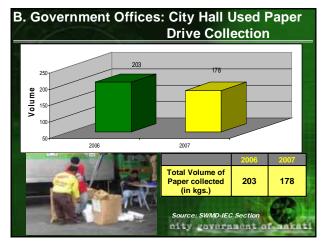
PROFILE OF THE REDUCTION & DIVERSION PROGRAM

Makati City Waste Diversion Targets

The conservative target diversion percentage for 2003 was set as basis for the implementation of programs and projects as well as a start-up point for compliance to the law. The compulsory 25% diversion will be distributed among the following years:

2002 : Bas	e Year			
2003 : 5%				
2004 : 10%	5			
2005 : 15%	6			
2006 : 20%	;			-
2007 : 25%				C 24 1
	COURSE NO.		1	Cierte.
	201 T 10 10	A VOTEM IN	DHT AT	





C. Schools	() #E		
Batang Bantay Basura <u>Recycling Project</u>			
Project in collaboration Dep-Ed and Departmen Environmental Services	t of		
	2006	2007	Total
Total Volume of P.E.T. Bottles Collected (in pcs.)	629,670	933,330	1,563,000
Source: Department of Education-	Makati cit	y governme	nt of makati

HEEP: Nutrition and Bgy. West Rembo i residents avail of an e any cash out;		ram to help their
• Upon enrollment, pa materials (PET, papers every week Day Care	rrents must bring 15 I s, etc.) which will serve pupils should bring 20 n the operation of the D	as tuition fee and pcs. recyclables
No. of Student Enrolled (SY 2007-08)	Total No. Recyclables Collected (in kgs.)	Income Generated
111	5,217	Php. 62,152
	city gov	ernaent of maket







♦138 Jeepney Drivers without trashcans were apprehended

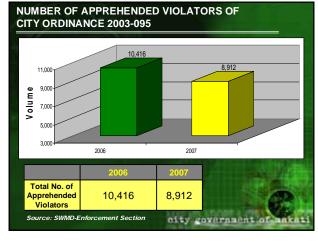
city government of makati

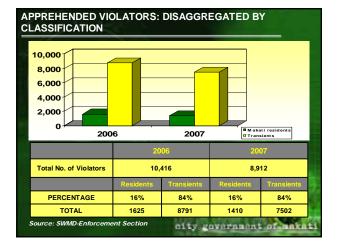


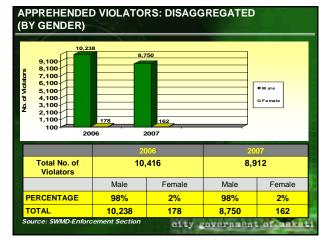












APPREHENDE (BY AGE)	D VIOLATO	RS: DISAG	GREGATED		
6,000 4,000 4,000 2,000 1,000	5,564	5,453		29 years old below 30 years old above	
	20	006	20	07	
Total No. of Violators	10,	416	8,912		
	29 years old below	30 years old above	29 years old below	30 years old above	
PERCENTAGE	47%	53%	61%	39%	
TOTAL	4,852	5,564	5,453	3,459	

MAKATI CITY SOLID WASTE MANAGEMENT BOARD

• Meeting is held regularly once a month for purposes of planning, coordinating & overseeing the implementation of the solid waste management plan, discuss various programs & projects, accomplishments as well as issues on solid waste management.

 Barangays report on their accomplishments every meeting (at least 2 barangays).





CLEANLINESS AWARENESS MONTH ACTIVITIES (JANUARY)

Clean-up Operation conducted at Barangay Rizal last January 20, 2007.

Length of Area Cleaned

Volume of Garbage Collected 15 m³





city government of makati

KUBOL CLEAN UP (MARCH)



city government of maketi









ACTUAL BUDGETARY REQUIREMENT WAS DETERMINED USING FCA

SANTAN CONTRACTOR	Fetal	IRA of 1	acuron	gCity			15	,700,219	000
USING FULL COST ACCOUNTING	Total Budget of ENR Office						9,511,955.00		0
	% of ENR budget to IRA					6.15%			
IP SWM PROGRAM	Funding Requirement of SWM Program					5,476,397.86			
	% of	SWM Pr	ogram t	OENR Bu	dget		57;	57%	
HEPHECEATED CODTS					1152				
Second Street Street		-	", shared	handtune			=	Test 2- 2881	
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LEGAL SUPPORT OF SWM PROGRAM IS IN PLACE







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and the second second	Propert Seguritation	120,000,00
Statement of the second s	TOTAL CONT	4,200,989.94











UNITED NATIONS ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC in cooperation with The Local Government of Bago City, Negros Occidental, and Institute for Global Environment Strategies (IGES)

Kitakyushu Initiative for a Clean Environment: National Consultation Workshop on Kitakyushu Initiative Demonstration Project 10-11 April 2008 Ramon Salas Park and Nature Center Bago City, Philippines

Report of the Workshop (Note by the Secretariat)

I. Recommendations

The National Consultation Workshop on Kitakyushu Initiative Demonstration Project, organized by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) in cooperation with the Institute for Global Environmental Strategies (IGES) and the City Government of Bago, Philippines, was held in Ramon Salas Park and Nature Center on 10-11 April 2008. The workshop formulated the following recommendations:

For further implementation of the Bago City Demonstration project:

- a) To include local NGOs in project implementation
- b) To conduct massive information dissemination in order to encourage participation from the public. To use mass media like radio, TV for promotion.
- c) To utilize local materials and available school materials for the environmental education manuals.
- d) To prepare English and Filipino version for the environmental education manuals.
- e) To project the solid waste generation of the city.
- f) To conduct Information, Education, Communication (IEC) per sectormarket, schools, government agencies and others.
- g) To tap into private companies/institutions for funding support.
- h) To organize and deputize implementers of the project.
- i) To conduct a waste analysis study in order to identify and classify the wastes generated in the city.
- j) To consider clustering of barangays (communities) to easily transfer the good practice.
- k) To itemize or identify the wastes that could be sold in schools.
- I) To consider looking for a process or project that deals with residual wastes.
- m) To encourage barangays to develop a barangay ordinance on solid waste management.
- n) To put holes on the Takakura baskets to avoid formation of methane gas.
- o) To develop an integrated solid waste management plan for the City.
- p) To document the activities of the project and disseminate the information to other cities.
- q) To emphasize and strengthen environmental and policy awareness.

For further dissemination of the Bago City experience to other cities in Philippines:

- a) To keep the National Government informed and involved to explore additional support to the dissemination process by collecting the voices of local authorities and reflecting them in national policies
- b) To take advantage of the existing network of the League of Cities of the Philippines to share information of Bago's experience
- c) To highlight the significant role of women in the successful implementation of such projects

II. Proceedings

- 1. The National Consultation Workshop on Kitakyushu Initiative Demonstration Project, organized by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) in cooperation with the Institute for Global Environmental Strategies (IGES) and the City Government of Bago, Philippines, was held in Ramon Salas Park and Nature Center on 10-11 April 2008.
- 2. The Workshop included the participation of representatives from local governments in the Philippines, including: Bago, Bacolod, Kabankalan, Silay, San Carlos, La Carlota, Bais and the Provincial Government of Negros Occidental. Representatives from Iloilo, Cebu, Makati, Puerto Princesa, San Fernando and Tacurong city were also present. The workshop also includes the participation of the National Solid Waste Management Commission (NSWMC) of the Philippines, the League of Cities of the Philippines (LCP) and representatives from Surabaya City, Indonesia.
- 3. The workshop was held in order to formulate strategies, gather inputs and comments to improve the implementation of the KI-demonstration project in Bago City. It also serves as a forum to exchange information, good practices, management and social strategies in addressing solid waste problems in Philippine cities and an avenue to promote replication of successful strategies. The workshop brought together relevant local and central government representatives from the Philippines and solid waste management practitioners from Indonesia.
- 4. The workshop was opened by the Mayor of Bago City- Honourable Ramon D. Torres, who discussed briefly the importance local environmental actions and its implication to the global environmental condition. The opening remark was followed by two introductory presentations from UNESCAP and IGES. Mr. Masakazu Ichimura, Section Chief of Environment and Sustainable Development Division of UNESCAP briefly describe the role of UNESCAP in promoting local environmental initiatives. He also presented the concept of "green growth", an approach that seeks to harmonize economic growth for improved povertv reduction and well-being with environmental sustainability. This approach is deemed useful/important especially for small and developing cities like Bago. The background, goals and activities of the Kitakyushu Initiative for a Clean Environment under the supervision of UNESCAP was also presented. Ms. Peachie Ann Aquino, a representative from IGES, delivered a presentation about the role of Kitakyushu Initiative Network (KIN) Secretariat in facilitating inter-city cooperation and replication of good practices. The activities of KIN-Secretariat particularly in the Philippines were briefly discussed.

- 5. The opening session was followed by the presentation from the National Solid Waste Management Commission by Ms. Emelita Aguinaldo. Background on the waste situation issues, approaches and techniques to address waste issues in the Philippines were discussed. An overview of the national policy-Republic Act 9003 or the Ecological Solid Waste Management Act of the Philippines was introduced, presenting the mandates, the role of the local government units, scope of implementation and some of the achievements of Philippines cities in implementing the policy.
- 6. Following the presentation from the National Solid Waste Management Commission of the Philippines, Ms. Theresia Widjawati, Deputy Chairperson of Surabaya Women's Welfare Organization, presented the experiences of Surabaya City, Indonesia, in managing solid waste through community mobilization. The presentation highlighted the significant role of women in implementing the Clean and Green initiative of Surabaya City, especially at the household level through the promotion of the Takakura-composting home method. This practice not only created a significant impact in improving the aesthetic environmental condition of the communities but also reduced the amount of waste generated, and opened opportunities to uplift the socioeconomic condition of the residents. The presence of a strong partnership between the local government, communities and NGOs was identified as one of the success factors of this initiative.
- 7. In Session II: Solid Waste Management as a Social Enterprise: A Kitakyushu Initiative Demonstration Project, the Honourable Mayor Ramon D. Torres presented in detail the city profile of Bago -demography, economic activities, income and land area, and then the initiatives of the city government on solid waste management, and more specifically KABAHIN KAthe city's first community-based SWM project. KABAHIN KA features sound waste management involving communities in the city that successfully resulted to 50% waste reduction by weight. Several SWM interventions were also applied to support the project such the acquisition of waste equipments and construction of materials recovery facilities in barangays and Eco-town center to facilitate composting and recycling activities. Thru the city's partnership with the Kitakyushu Initiative Network, KABAHIN KA was selected as a demonstration project for the Kitakyushu Initiative programme and a recipient for the APFED showcase program. It seeks to integrate good practices learned from two other network cities - Surabaya City for its Takakura composting home method and Bangkok for its waste banking The project also includes environmental education and activities. development of SWM guidebook. The Mayor ended his presentation by inviting suggestions from the participants specially those coming from cities with excellent practices on SWM to improve the current activities/workplan of the KABAHIN KA project.
- 8. In Session 3: Showcase of Good Solid Waste Management Practices in the Philippines include presentations from the League of Cities of the Philippines on the "Solid Waste Management Practices in Philippine Cities", followed by the presentation from Honourable Mayor Pablo Ortega of San Fernando on the "Solid Waste Management Practices of San Fernando", the "Solid Waste Management Practices in Makati City" and the "Solid Waste Management Practices in Tacurong City".
- 9. This session highlighted the initiatives and successful SWM cases in the Philippines. The first presentation, prepared by LCP, discussed the background, goals, and the role of the organization in city-to-city cooperation. LCP is an organization of City Mayors in the Philippines that seeks to assist or help coordinate efforts to improve local governance in the

country; the organization also seeks to address many urban issues including environmental management. Several support measures are offered by the organization particularly for the implementation of the SWM policy and other environmental initiatives. A few of these actions include forum sharing on SWM initiatives, SWM trainings, policy dialogues, mentoring and others. The organization has also conducted an initial survey on the status of cities implementation of RA 9003 and is also monitoring the achievements of cities towards the implementation of the policy.

- Cities like San Fernando, Makati and Tacurong presented their achievements 10. in addressing solid waste problems. San Fernando, one of the leading cities in northern Philippines has initiated numerous programs on solid waste. Sanitary landfill, community-based waste management, composting and segregation activities are just a few of the successful initiatives of the city. Lessons and success factors essential in implementing local programs on the environment was shared by Mayor Pablo Ortega, these are (1) strong political will, (2) presence community participation and empowerment, (3) significance of institutionalization and policy measures. Makati City, the business and financial capital of the Philippines have strongly invested in their waste management campaign. Numerous waste diversion projects targeting different sectors of the city- residential, commercial, public and private institutions have been implemented by the local government. The presentation highlighted several important factors including (1) importance of creating waste diversion targets, (2) importance of waste characterization for baseline data (3) and establishing close partnership/relationship with private institutions. Lastly, Tacurong City- a fifth class component city in Mindanao has made significant progress in managing solid waste having completed its 10-year integrated SWM plan. Waste facilities like composting plant, sanitary landfill and materials recovery facility on barangays have been developed. Furthermore, the city has pioneered the implementation of environmental management fees (EMF), a charging system for waste collection. The city shared important lessons learned like (1) importance of local policy support in waste management and lastly (2) the significance of user-fees to ensure self-sustainable waste programs.
- 11. In the last session, representatives from San Fernando, Puerto Princesa, Cebu, Makati, Tacurong, Bacolod, San Carlos, Kabankalan, Bais, Iloilo, La Carlota, Provincial Government of Negros Occidental, Surabaya, NSWMC and LCP provided their comments and suggestions on how to improve the process of implementation, on administrative and technical components, and in activities/action plans and strategies for replication of the Bago City's demonstration project.

UNITED NATIONS ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC in cooperation with The Local Government of Bago City, Negros Occidental, and Institute for Global Environment Strategies (IGES)

Kitakyushu Initiative for a Clean Environment: National Consultation Workshop on Kitakyushu Initiative Demonstration Project 10-11 April 2008 Ramon Salas Park and Nature Center Bago City, Philippines

PROVISIONAL LIST OF PARTICIPANTS

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