



Per Capita Waste Generation : 0.66 kgs/day
Waste Generation : 1,888 tons/day (2009)

Average Volume being : 1,205 tons/day (2009)

: 39 %

disposed at PCDF Waste Density

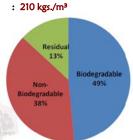
Waste Composition:

Biodegradable: 49 %

Recyclable

Plastic : 16 %
Paper : 17 %
Metal : 3 %
Glass : 3 %

Residual : 13 %



Legal Framework for SWM

Philippine Constitution

Article II, Section 15: The state shall protect and promote the right to health of the people and instill health consciousness among them.

Article II, Section 16: The state shall protect and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature.

R.A. 7160: The Local Government Code of 1991

Section 17 - Basic Services and Facilities:

LGUs shall likewise exercise such other powers and discharge such other functions and responsibilities as are necessary, appropriate, or incidental to efficient and effective provision of the basic services and facilities enumerated in the LGC. Such basic services and facilities include: Solid waste disposal system or environmental management system and services or facilities related to general hygiene and sanitation.



Legal Framework for SWM

R.A. 9003

The Ecological Solid Waste Management Act of 2000

The law provides for a systematic, comprehensive and ecological solid waste management program in the country.

Generally, the law promotes a way of thinking that waste is a resource that

Based on Section 10 of the said Act, the LGU shall be primarily responsible for the implementation and enforcement of the provisions of the act within their respective jurisdiction. Segregation and collection of solid waste shall be conducted at the barangay level specifically for biodegradable, compostable and reusable wastes.



Modernization of SWM in Quezon City

Environmental Protection and Waste Management Department

The EPWMD began as "Task Force Clean and Green".

It was departmentalized in 2000 thru City Ordinance No.SP 982, S-2000.

Its mandate include:

implementation of an efficient garbage collection and disposal system implementation of a pollution control program

monitoring and enforcement of all environmental laws and city ordinances



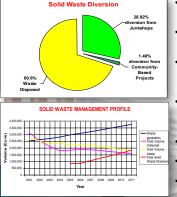








Advantages of Incorporating the IS to the Formal SWM System



- Increases waste recovery & waste reduction.
- Cleaner community as the sector will be forced to comply with environmental standards.
- Provides annual savings in hauling costs amounting to Php 23M or US\$ 487,804.00 monthly.
- Minimal operational adjustments as the phased transition is already in the work program of the City.
- Prolongs the lifespan of the disposal facility.
- Creates employment opportunities.
- · Additional revenue to the City.

Phased Transition of Integration Establishment of a data base on the total number of informal sector players to determine the scale of the program. • Feasibility Study and Impact Assessment Strategy Formation • Drafting/ Preparation of City Ordinances to support the program Phase 1 • Conduct of seminars and trainings on the waste reduction program of the City including proper solid waste management. Balik Probinsya Program for Scavengers • Relocation of waste pickers from danger zones • Increase salary of garbage crew • Cluster Barangay MRFs • Organization of the waste pickers as workers in a Centralized Materials Recovery Facility (MRF) and/or to develop them into cooperatives. • Accreditation and affiliation of itinerant waste buyers with junkshops to Phase 2 legalize their operations and ensure that the health hazards of improperly handling solid waste is minimized. Junkshops will be made to serve as temporary non-composting Materials Recovery Facilities (MRFs). · A dry run of the system to determine deficiencies and make the necessary Phase 3 improvement. Phase 4 • Full implementation of the system







- To enjoin the active participation of Junkshop Operators to the City's Waste Reduction Program;
- To regulate the operations of junkshops in accordance to existing environmental laws and regulations thru proper accreditation procedures; and,
- To establish a data base on the actual number of junkshops operating in the City as well as their waste diversion thru a uniformed and systematic recording of wastes that go to them.



Junkshop Standardization Program

A collaborative effort between junkshops and the City towards waste reduction



- Education of junkshop operators on Environmental Laws and City Ordinances with emphasis on Cleanliness, accreditation of environmentally compliant junkshop businesses relative to City Ordinance No. SP-1711, S-2006
- Reinforcement of this sector as a legal entity thru the support of RA 7198 or the Barangay Micro Business Enterprises Act of 2000 and City Ordinance No. 1576, S-2005.
- These Ordinances deal with the regulation of junkshop operations and the reduction of business taxes with the end in view of encouraging the "underground economy" legalize their business.



Junkshop Standardization Program

A collaborative effort between junkshops and the City towards waste reduction

Barangay Councils are encouraged to pass a
Barangay resolution that will adopt the provisions of Ordinance no. SP-1711, S-2006 and give them legal authority to enforce the provisions of the said ordinance at their level and to monitor the compliance of junkshops within their jurisdiction.







Junkshop Standardization Program

A collaborative effort between junkshops and the City towards waste reduction



- A total of 630 junkshops were identified contributing a waste diversion of 32.51%
- As a result of the program, more junkshops whose livelihood depends on handling waste, are becoming more environmentally compliant.



Organization of Waste Pickers

*empowering waste pickers as partners in the City's Waste Diversion Program



BULASI (Buklod Lakas ng Scavengers Ini)

PARE (Payatas Alliance Recycling Exchange)

AMPAT (Alyansang Maralita Payatas Estate

BSSAI (Bagong Silangan Scavenger Inc.)

PAJOSA (Payatas Junkshop Operator Scavenger Assn)

PKR (Payatas Kabuhayan Recycling)

PRM (Payatas Recycling Movement)
PSAG (Payatas Scavenger Association)

PSAI-SAMPI (Samahang Mangangalahig ng Payatas Inc.)

SAMAMI (Samahang Mangangalahig)
UPC (Urban Poor Central)

PARE Multi-purpose Cooperative (registered with the Cooperative Development Authority)





Livelihood Assistance

Free electricity, which provides for Streetlights and ironing services thru the Gas to Power Generation Project









Social Assistance







Through the coordination of the POG with other government departments, offices and agencies, public and private business and educational institutions, the scavengers have availed of financing and skills training that have allowed them to go into minor business ventures and prepare for alternative livelihood.



Social Assistance



Relocation of Families

City officials make sure families do not reside near danger sites; relocation is coordinated with Urban Poor Affairs Office, police and barangay officials

Gawad Kalinga Housing Project

This serves as a permanent housing for the displaced families. Also, the Gawad Kalinga Foundation is already giving orientation and value formation seminars to about 30 families living in the area.





Dialogues and Consultations







...participation of the scavengers, local barangay, other LGU and national government agencies and community members in the development of the disposal facility is encouraged through regular dialogues and consultations on issues and concerns on livelihood, health, safety and other community concerns









Informal Sector in SWM

	System Component	Type of Service	Client for Service	Tonnes Reaching Disposal	Tonnes Diverted to Recycling, Composting, etc.	# of People Working in the Service
	Primary Collection	Itinerant Waste Collection	Households, establishments	8,553	3,666	392
		Itinerant Waste Buying	Households, establishments	0	176,316	3,700
		Itinerant Waste Picking		0	3,299	1,480
		Direct Buying of Recyclables by Junkshops	Establishments	0	40,044	1,136
	Secondary Collection	City Collection Crew Waste Picking		0	7,622	926
		Dumpsite Picking by PARE		0	10,956	3,000
	Processing	Junkshop	Households, establishments	14,042	266,791	3,394



Formal vs Informal (Parallel Systems)

System Component	Process Step	Parallel Systems			
		Formal System	Informal System		
		City Collection: 380,899	Itinerant Waste Collection: 12,219		
	Mixed Waste Collection	Barangay Mixed Collection: 12,945			
		Private Commercial Collection: 75,880			
	Recyclables Collection	Barangay RC Collection: 10,737	Itinerant Waste Buying: 176,316		
			Itinerant Waste Picking: 3,299		
		Private-Public Recyclables Collection: 21,927	Direct Buying of Recyclables by Junkshops: 40,044		
Collection		Used Tires Collection (Secondary Collection): 174	Dumpsite Recyclables Waste Picking by PARE (Secondary Collection): 10,249		
			City Collection Crew Waste Picking (Second Collection): 7,622		
	Pig slop Collection	City Kitchen Waste Collection: 2,160			
		Barangay P5 Collection: 2,762	Dumpsite Pigslop Collection by PARE (Secondary): 707		
	Compostable Collection	Barangay CP Collection: 3,184			
Processing	Waste Processing	MRF: 13,921	Junkshop: 280,833		
Disposal	Waste Disposal	Payatas Controlled Disposal Facility: 450,020			



