



QUEZON CITY's ENVIRONMENTAL MANAGEMENT PROGRAM

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GREEN and **BLUE** CAMPAIGN



GREEN strategies -
preservation, restoration and addition
of natural green spaces

BLUE strategies - designed to keep
waterways clean and
unobstructed, both as measures for
flood mitigation and health promoting
strategies



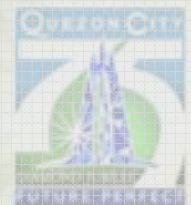


The BIGGEST and MOST POPULATED city in Metro Manila

- Land area - 160,112 sq. km. or about $\frac{1}{4}$ of the total land area of Metro Manila
- Population - Approximately 3 million in 2013

One of the MOST COMPETITIVE Cities

- Home to several national government agencies, various specialized and world class hospitals and prestigious educational institutions
- ICT Capital of the Philippines



COMPLIANCE TO RA 9003

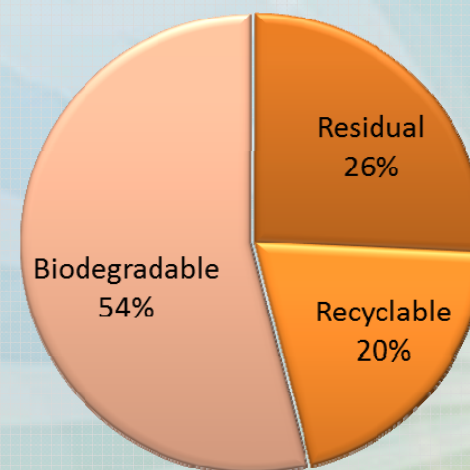
- 10-year Solid Waste Management (SWM) Plan was **approved by the NSWMC on October 22, 2010.**
- Creation of the City's **Solid Waste Management Board.**
- **Strict Implementation** of waste segregation at source.
- **All Barangays** with **dedicated collection schedule** for biodegradable and non-biodegradable wastes.



District	No. of MRFs	No. of MRs
I	14	23
II	3	2
III	17	20
IV	10	28
V	3	11
VI	6	5
Total	53	89

QC Waste Profile

Per capita waste generation	0.88kg/pax/day
Waste Generation	2,639 tons/day (based on 2013 projected popl'n)
Average volume of waste disposed at the ESL	1,609.79 tons/day
Waste Density	266 kgs./m ³



SOLID WASTE COLLECTION SYSTEM

PACKAGE CLEAN UP SYSTEM



Dedicated collection of:

- Biodegradable wastes
- Non-biodegradable wastes

More than 99% Garbage Collection Efficiency

Contracted out to private service provider thru **competitive bidding**

Service Contractor is responsible in providing:

1. Solid Waste Collection, Cleaning and Disposal
2. Street Sweeping
3. IEC Campaign



WASTE REDUCTION INITIATIVES

COMMUNITY BASED

- Hiwa-hiwalay na Basura sa Barangay
- Kitchen Waste Collection
- Hakot Bulasi sa Barangay

SCHOOL BASED

- Basura Monster
- Batang Eco Savers Club
- Hukbong Luntian
- Junior Environment Police

INSTITUTION BASED

- Quezon City Hall Waste Segregation
- Recyclables Trading at QC Malls

42% Waste Diversion

ENVIRONMENTAL ENFORCEMENT

- Environment Police
- Green Desk Program
- Deputation of Barangay Personnel

Deputized **216** Barangay Officials and Personnel
and **35** Police Officers

SOCIAL MARKETING AND ADVOCACY CAMPAIGNS



SOLID WASTE DISPOSAL

Payatas Transformation



Prior to 2000
Payatas Open
Dumpsite

In 2004
Payatas Controlled
Disposal Facility



In 2007
Biogas Emissions
Reduction Project

1st CDM Project in SEA under
the Kyoto Protocol

In 2011
Engineered Sanitary
Landfill



Environmentally Compliant

LIVELIHOOD PROJECTS

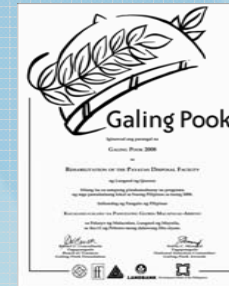
Payatas Poverty Alleviation Foundation, Inc. (PPAFI)

- Offers scholarship and short courses and skills trainings
- **Housewives of Waste Pickers** working at the Disposal Facility as the main beneficiaries
- Additional income thru weaving and sewing
- Trained **43** housewives



BIOGAS EMISSION REDUCTION PROJECT

- **Galing Pook Awardee in 2008**
- **Meralco Luminaries Awardee in 2014**
- Captured **466,740 tons of CO₂ e** since 2008 (verified CERs)
- Converted **28,645 kw-hr** of electricity in 2013 for the offices at the disposal facility
- **₱942,258.25** has been remitted to the City Government since March 2013 out of the sales to Meralco



REFUSE DERIVED FUEL

- Established in 2013
- Solid wastes as input for cement industries



POLICIES AND INCENTIVES TO PROMOTE SWM

Quezon City has the MOST NUMBER of enacted environmental ordinances

There are **forty-two (42) environmental ordinances** enacted by the City.

Two (2) of the most notable ordinances on SWM are as follows:

1. **City Ordinance SP-1203, S-2002**, an ordinance granting incentives to barangays practicing best solid waste management;
2. **City Ordinance SP-1191, S-2002**, an ordinance providing incentives to all Barangays utilizing their own trucks for solid waste collection service in their respective barangays.

LANDMARK LEGISLATIONS

➤ Plastic Bag Reduction Ordinance

- Provides mechanism to recover plastic wastes
- Implement a plastic recovery system fee
- Green fund for environmental projects

➤ Annual Garbage Fee For Households Ordinance



Recovered **1.3 million** pieces
of plastic bags
Collected **Php 53M** worth of
Green Fund

GREENING PROGRAM

Quezon City is the GREEN Lung of Metro Manila

➤ CITYWIDE GREENING

Introduction of pockets of greenery in center islands and along waterway embankments

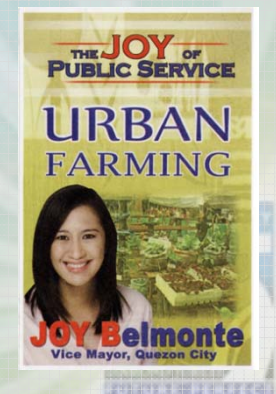
- **Lamesa Watershed** – largest green space in the Metropolis

➤ BIODIVERSITY PROFILING

Documentation of carbon sequestration potential of the City's green spaces thru tagging of trees

➤ URBAN FARMING PROJECT

Provision of trainings on ecowaste management, vermi composting, nursery management and organic farming



INDUSTRIAL POLLUTION CONTROL

Industrial Inspection

2,061 – Total number of business establishments with potential pollution source have been declared Environmentally Compliant



Initiatives that focus on :

- **Policies** - amendment on the Anti Smoke Belching Ordinance, Ordinance on PETC Regulation
- **Infrastructure** – walkways, bike lanes and foot bridges
- **Capacity Building** – Clean Air Compliance Assistance Program

Trainings

Pollution Summit and Junkshop Standardization



AIR QUALITY MANAGEMENT

Anti-Smoke Belching Operations



GREENHOUSE GAS INVENTORY

- In partnership with ICLEI – Local governments for Sustainability and USAID's CEnergy Project.
- The results of the Inventory:
 - **Government Operations:**
62,481 tCO₂e
 - **Community-level:**
4,269,651tCO₂e

ENERGY STREETLIGHTING

- Installation of LED streetlights along major and secondary roads



INTERNATIONAL NETWORKS AND MEMBERSHIPS

