

QUEZON CITY

The environment sector seeks to create a **clean, green and resilient** environment that is conducive to healthy city living and attracts not only the local residents but also visitors from outside the city. This envisioned outcome, when realized, ensures compliance with its General Welfare mandate of the Local Government Code (Sec. 16) which directs local governments to enhance the people's rights to a balanced ecology.

GOALS, STRATEGIES, AND POLICY INTERVENTIONS

8.1 Goal 1: To create a clean environment that is conducive to healthy urban living

Strategy 1: Reduce the volume of solid waste reaching the final disposal site to 50% of the amount generated

POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Capacity development for barangays to implement proper SWM Provision of Barangay In- centive Package and awards under the Zero Bas- ura Olympics to other stakeholders Establishment of Waste Market in malls Integration of the Informal Waste Dealers into the For- mal SWM System thru the Junkshop Standardization Project Expansion of the Kitchen Waste Collection Project Retrieval and disposal of car and cellphone batteries and high-tech gadget wastes Creation of pockets of "Pook Kalinisan" areas to- gether with the private sector to serve as models of cleanliness 	 Implementation of the Incentive Package on SWM for the barangays District monitoring of the SWM practices of all stakeholders for waste diversion documentation Strict enforcement by the City Environment Police and the barangay-deputized enforcers of ordinances on anti-littering and the use of waterways as dumping area City-wide implementation of waste segregation by all stakeholders (e.g., barangays, schools, hospitals, establishments, etc.) Inventory and monitoring of establishments utilizing toxic and hazardous wastes Intensified Zero Litter Campaign Monitoring of hospitals and other establishments generating healthcare wastes 	 provisions of RA 9512 Use of ecological waste management practices in all business estab- lishments located in the City Enactment of Plastic Bag Regulation to re- duce the use of plastic bags Integration of popula- tion, health and envi- ronment programs Sharing/clustering of

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POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Establishment of community and cluster materials recovery facilities (MRFs) Promotion of and support to the conduct of research and studies on new solid waste management (SWM) technolo- gies and establishment of partnerships in the implementation of such new technologies Partnership with the private sector and other agencies for the processing of wastes at the disposal facility DOST for the use of densifier in the production of bricks from residual plastics Holcim for the used tire re- trieval project and the recov- ery of residual plastics as alter- native source of fuel in the production of cement PM for the establishment of the City MRF Quezon City Biodigester Facili- ty in three (3) selected areas (One (1) area per year) Mixed soft plastic recycling and conversion into school chairs Management of organic waste thru integrated composting systems in twelve (12) select- ed areas in Quezon City 	 Sustained information, education, and communi- cation campaigns to edu- cate and increase the level of awareness and partici- pation of the public in keeping the environment free of garbage and pollu- tion Strict implementation of all environmental laws (penalty system/ designation of bgy envi police) Strict implementation of Plastic Bag Ordinance Control proliferation of sidewalk vendors (by ba- rangay with assistance from the local govern- ment) 	 Requiring generators of toxic/hazardous and healthcare wastes to: Implement mandatory waste segregation to ensure proper han- dling of these types of wastes Secure the services of accredited private contractors in the col- lection and disposal of their wastes Policy on waste reduc- tion program down to the household level/ implement policy (no segregation impose penalty) – collected funds to be used exclu sively for bgy envi pro jects supported by bgy ordinance Creation of Green Fund Unit to monitor and manage the use of the city's Green Fund Require subdivision development to pro- vide their own com- posting facilities/MRF Provide separate city fund for deputized environment police/ barangay

POLICY INTERVENTIONS	
Programs/ Projects	Services
 Establishment of an environmentally- compliant landfill for the exclusive use of the city Policy research programs for potential investments on modern technology & equipment 	 Organize citizens volunteers group for project support in the barangay (participation of POs, HOA) Special wastes collection and disposal system for bust- ed fluorescent bulbs and spent domestic batteries

Strategy 2: Develop ecological solid waste disposal systems

Strategy 3: Ensure efficiency in solid waste collection

POLICY INTERVENTIONS	
	Services
•	Contracting out of collection services under terms and approaches ensuring efficiency
•	Strict monitoring of the SW Contractors' compliance with the SW Cleaning, Collection, and Disposal Services contract terms

Strategy 4: Enhance the quality of the city's air to the levels meeting EMB standards

POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Establishment of air quality monitoring stations Anti-Smoke Belching Project Tree Planting/Greening Project Conduct of Pollution Summit for business owners and Transport Summit for transport groups to educate them on different Environmental Standards & Pollution Control Methods 	 Strict implementation of the requirement for the submission of Permit to Operate Air Pollution Source and Control Installation upon renewal of business permit Strict implementation of the Anti-Smoke Belching Ordinance, Green Building Ordinance and other related ordinances Strict monitoring and inspection of business establishments that are possible sources of air pollutants 	 fuel investors and users Prohibit discharge of untreated water in city's drainage outlets & tributaries Enact or implement a green building or

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POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Payatas methane gas extraction project (Partnership with Pangea of Italy) (Renewable) City Fleet Fuel Efficiency project Partnership with the private sector in establishing clean fuel refilling stations City wide tree-planting and more trees to be planted along major roads Acquisition of ambient air monitoring devise that is handy and portable for mobile monitoring 	 Strong implementation of the provisions of the Clean Air Act, Renewable Energy Act, and Climate Change Act Sustained information, education, and communi- cation campaigns to edu- cate and increase the level of awareness and partici- pation of the public in energy conservation and attaining energy efficien- cy Implementation of SP 1958, S-2009 (Prescribing guidelines and proce- dures on anti-smoke belching for motor vehicle in Quezon City) Strict implementation of Clean Air Act 	 tives to investments on clean air technolo- gies and clean fuel businesses Issuance of Environ- mental Clearance to business establish- ments who are com- plying with the differ- ent environmental laws and ordinances.

Strategy 5: Rehabilitate and restore rivers and creeks to the level/ condition that can support aquatic life and non-contact sports and recreation and keep the community safe from danger and disasters

POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Riverways Management Program Sagip Batis sa QC Project Clean River Zones Project Biological Remediation of Rivers, etc. River easement recovery and beautification Establishment of Rivers/ Waterways linear parks Acquisition of portable water quality meter to monitor water quality effluent 	 Sustained infor- mation, education, and communication campaigns to edu- cate and increase the level of awareness and participation of the public in river rehabilitation and preservation 	• Mandatory require- ment for big estab- lishments to have their own sewage treatment plant and recycle their wastewater

Strategy 6 Control/manage the utiliza-

POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Kids Conserve Project in schools Development of aquifer recharge schemes Conduct IEC and capacity-building on simple technologies to implement groundwater conservation and protection 	 Establishment of tie-up with NWRB in monitoring of groundwater extraction Implementation of Ord. No. SP-1682, S-2006 regu- lating the use of ground- water and close monitor- ing thereof Sustained information, education and communi- cation campaigns to edu- cate and increase the level of awareness and partici- pation of the public in water conservation 	 tion in the city Requiring big establishments to have their own sewage treatment plant and recycle their wastewater Creation of Water Quality Monitoring

8.2 Goal 2: To nurture and sustain a green environment where there is an ample and convivial space for living

Strategy 1: Develop an integrated system and hierarchy of parks and open spaces to make Quezon City the greenest city and most disaster-resilient community in Metro Manila

POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Formulation of the Integrated Parks and Open Spaces Plan Clearing, recovery and/or development of open spaces, easements and utility corridors into parks and urban forests to in- crease the green areas to 25% of the city's total land area Survey of easements, open spaces and other potential green areas 		 Strong policy/ ordinance on open space and parks preservation and pro- hibiting the conver- sion of easements, parks and park strips for other uses

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POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Plant Nursery Development Green development of center islands, directional islands and sidewalks Rationalized tree planting projects to increase the city's carbon sinks QMC Tree Tagging Project Establishment of bike lanes Urban farming project Comprehensive Quezon City Greening Program Greening Quezon City City wide tree-planting More trees to be planted along major roads/roadside planting Establishment of Seedlings Bank/Support tree planting activities Plants/seedlings donation for QC Seedlings Bank Greening of Public Buildings Parks Development Program Comprehensive Parks Devel- opment Program Development/Rehabilitation/ Improvement of parks Development/Rehabilitation/ Improvement of center is- lands Beautification of entry points Development/improvement of linear parks along water- ways Immediate implementation of greening projects on identi- fied open spaces to prevent ISF from returning Continuing reforestation and Forest Park Development of La Mesa Dam 		 Ordinance requiring developers/builders to replace every sin- gle tree affected/ removed during de- velopment with 10 trees and replace eve- ry planted tree that dies

Strategy 2 Promote and support green

POLICY INTERVENTIONS		
Programs/ Projects	Services	Legislations
 Payatas methane gas extraction project Formulation of Green City Indicators Renewable Energy Efficient Program Retrofitting and installation of Light Emitting Diode (LED) streetlights in various locations Solar Facility in Five (5) selected Quezon City Public Schools Quezon City Green Route Project Use of alternative technology such as biodigester, Refuse-Derived Fuel and Waste-to-Energy Installation of solar energy panels to be partially subsidized by the QC government Novaliches District Center to be so- larized Study on all public buildings (e.g., schools, bgy halls, public hospitals, offices) for solarisation 		 Provision of incentives to users of renewable energy and alternative fuels City Fleet Fuel Efficiency (use of clean/alternative fuels in all governmentowned vehicles) Mainstreaming green development in the Land Use Plan Require developers to come up with future funds for retrofitting

Strategy 3 Protect and preserve the city's wildlife, educating the public on its richness and engaging the participation of the community, civil society and habitat landowners and harnessing the expertise/services of the academe and scientists in conservation programs and efforts.

POLICY INTERVENTIONS		
Programs/ Projects	Services	
 Inventory of flora and fauna wild- life Development of conservation partnerships with habitat land- owners and the private sector Sustained information, education, and communication on the city's biodiversity and to increase the level of awareness and participa- tion of the public in promoting and enriching biodiversity 	 Identify monitoring group responsible for flora/fauna (PDAD & EPWMD in coordination with DENR) Intensify and widen IEC on the importance of biodiversity Support academic/scientific studies on the city's Utilize NSTP enrollees and LGU-funded schools/colleges (e.g. QCPU) as part of monitoring group for less cost to the City 	

Strategy 4 Transform

and promote the city's parks as attractive public spaces for recreation, social interaction, education, cultural and historical promotion, and environment

POLICY INTERVENTIONS					
Programs/ Projects	Services	Legislations			
 Completion of the QMC Masterplan (with Business Plan) Formulation of a Green Lung Promotion Plan La Mesa Dam continuing reforestation and forest park development 	 Promotion of parks- oriented recreational ac- tivities, parks-based events, celebrations and activities Identify government agency/ies responsible for security & protection of La Mesa Reservoir Strong support for sus- tainable conservation programs harnessing multi-sectoral partner- ships and capitalizing on the tourism potentials of parks Immediate imple- mentation of greening projects of identified open spaces to prevent ISF from returning 	 Amend Laws on Informal Settlers Stricter ordinances (Existing City Ordinance) Prevention of influx of ISF Exile as per Law enacted illegal loggers & other green project offenders Enact ordinance regarding the prop. projects of other government agencies in the city's parks 			

Strategy 5 Provide citizens, regardless of age, gender and status in life, access to people-friendly parks

POLICY INTERVENTIONS

Programs / Projects

- Parks Development Program
- Acquisition of lands for parks
- Development of safe access to parks like underpasses, overpasses and walkways
- Identify open spaces for barangay/community parks

Strategy 6:" Actively engage participation of the community and all sectors of the society in the care, protection and promotion of the environment based on the concept of stewardship with respect to sharing of knowledge, capabilities and resources

POLICY INTERVENTIONS			
Programs/ Projects	Services		
 Agreements between HOA's and barangays for the maintenance and management of parks in the community Adopt-a-Park Project engaged with the community and private sector Support academic/scientific stud- ies on the city's flora and fauna and other environment-related issues/concerns Plants/seedling donation for QC Seedlings Bank (Goal 2, Strat 1) Provision Seedlings Bank (Support tree planting activities) 	 Environment conservation services and pro- grams Services sustaining multi-partite agreements on major parks Intensive public information and education in environment protection, preservation and con- servation Memorandum of Agreement between home- owners associations & barangay (rules & regu- lation) Conduct of dialogue to settle issues related to the community's general welfare Identify monitoring group responsible for pos- sible parks/open spaces in barangays Implementation/Awareness of the present res- olution/ordinance regarding the use of vacant lot/parks 		

8.3 Goal 3: To build a resilient city.

Strategy 1: Strengthen measures and institutionalize policies and mechanisms for disaster risk reduction and climate change mitigation and adaptation.

POLICY INTERVENTIONS					
	Programs/ Projects	Services	Legislations		
•	Renewable Energy Efficient Pro- gram * Development of solar energy pan- els to be partially subsidized by the QC government * Novaliches District Center to be solarized	projects and activities under the QCDRRMP 2014 – 2020	conduct of infra-		

POLICY INTERVENTIONS					
Programs/ Projects	Services	Legislations			
 Exploring the use of simple wastewater treatment technologies at community level Built-in water management to prevent the depletion of ground water sources by preventing degradation of watershed Provision of waterway banks with grouted riprap / retaining wall Greening the buffer zone of the West Valley Fault Line (5meters) on both sides Housing and Resettlement Programs for ISFs Relocation of ISFs located along the fault line Resettlement of ISFs Allocate sizeable budget for the relocation of informal settlers along waterways and other danger areas to include transport expenses, etc. Construct MRBs for informal settlers (tenement housing) Recovery of easements Removal of illegal structures/ encroachments Retrofitting and repair of buildings Conduct of training on infrastructure audit equipment Identify and implement risk transfers mechanisms through disaster risk financing and insurance at community level Development of indicators for inclusive and child friendly disaster risk management and CCA 	 house DRRM database and inventories, including partner and key stakeholders databases Full implementation of the QC Shelter Plan 	 tion Amend existing rules and regulations regarding building permits Enact laws on policy incentives or deterrents to enforce zoning ordinances particularly in hazard prone areas Formulation of policy on Urban Environmental and Natural Resources Accounting 			

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POLICY INTERVENTIONS					
Progra	ams/ Projects		Services	L	egislations
 Develop inn gram for er able transpo and GHG er Conduct gen identify ger options to perature an related disa work of eo mental stab Develop kr for integra managemen nity levels Updating of * Generate of hazard ways 	novative financing pro- vironmentalist sustain- ortation to air pollution issions nder impact analyses to der-specific adaptation flood, increase in tem- d other climate change sters along the frame- cosystem and environ- lity owledge and capacity ted ecosystem based t on local and commu- DRRM Plan latest and updated maps areas including water- of hazards, vulnerability	•	Develop GHG protocol scope including scope 1, 2, 3 emissions to identify feasible projects to achieve emission reduc- tion goal City wide campaign on CCA		

Strategy 2: Increase/strengthen capacities of local communities to anticipate, cope with and recover from the negative impacts of disasters brought about by natural and man-made hazards.

POLICY INTERVENTIONS			
Programs/ Projects	Services	Legislations	
 Acquisition of low frequency radios powered by solar Acquisition of water quality monitoring measuring water quality effluent during extreme weather situation Develop, institutionalize and test early warning systems especially at the community level 	 dents living in danger areas Adopt disaster risk re- duction along danger areas Conduct seminars on 		

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POLICY INTERVENTIONS			
Programs/ Projects	Services	Legislations	
 Procurement of equipment for early warning system facilities Development of criteria for standardizing early warning systems Procurement of updated orthophoto map from NAMRIA Establish mechanism for supporting business continuity planning for local economies 	 IEC for disaster preparedness Conduct of drills (earthquake, flood and fire) Continuous training on CBDRRM Strict utilization of BDRRM fund Increasing level of awareness on DRRM in the community Pre-deployment of relief goods to strategic areas Awareness raising of direct and indirect stakeholders regarding food security Children training on water and food conservation during temporary shelter situation 		

Strategy 3 Increase awareness and instill preparedness to avoid loss of life and damage to social, economic and environment assets before, during and after emergencies and disasters.

POLICY INTERVENTIONS			
Programs/ Projects	Services	Legislations	
 Project on developing protection strategy of organic, toxic, hazardous and other hospital and business es- tablishments' waste during extreme weather events Identify and acquire safe, open areas for permanent evacuation areas Construction of dedicated evacuation centers 	 coordination mechanisms and guidelines for partnership arrangements Identification of schools/ churches for temporary evac- uation centers 	lobby for the passage on forced evacua- tions	

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POLICY INTERVENTIONS			
Programs/ Projects	Services	Legislations	
 Development of early and long term recovery plans for immediate restora- tion of lifelines and local government facilities and services, as well as busi- ness and local economy Resilient Livelihood Program Conduct of livelihood-oriented activi- ties and/or income generating activi- ties for potential internally displaced population 			