



URBAN REGENERATION & CLIMATE CHANGE PROGRAM

ENGR. GRETEL A. CABRITO

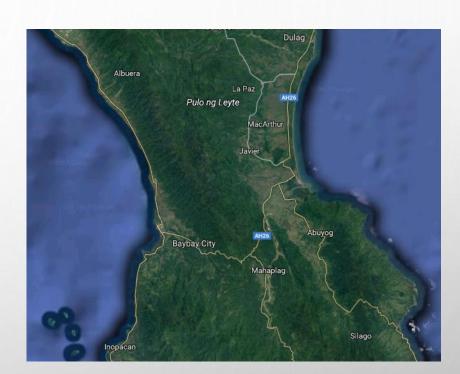
ASSISTANT CITY ENVIRONMENT AND NATURAL RESOURCES OFFICER

LOCAL GOVERNMENT UNIT OF BAYBAY CITY, LEYTE, PHILIPPINES

INTRODUCTION: BAYBAY CITY

Country	Philippines			
Province/Region	Leyte/Region 8			
Congressional District	5 th District of Leyte			
Land Area	460.50 sq. km. (46,050 hectares)			
No. of Barangays	92 (23 urban; 3 sub-urban; 66 well-managed rural barangays)			
No. of Households	26,937			
Economy	Largely agro-based economy & commerce			

Barangay	Population		Area (ha)	Density (persons per ha)	
	2013	2015	()	2013	2015
City of Baybay	118,402	120,685	46,050.05	2.6	2.6
Rural	100,267	101,875	45,818.16	2.2	2.2
Urban	18,135	18,810	231.89	78.2	81.1
Built-up Area			613.26		

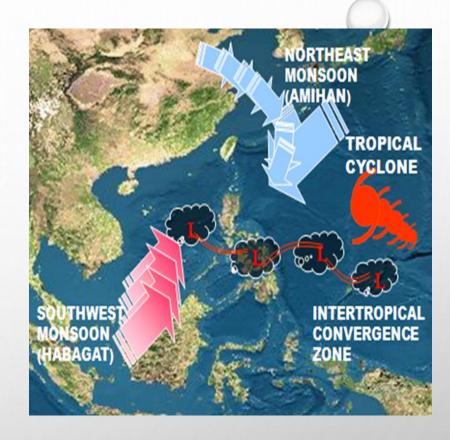


BAYBAY CITY

- highly susceptible to typhoons and other meteorological variability
- visited by an average of 5 7 typhoons every year which could potentially cause associated natural hazards
- Baybay is a coastal, generally mountainous and river-dissected city with predominantly wet climate, that can impact on the lives of its communities, properties, growing economy and crop production levels

VISION

"Baybay, an agri-industrialized City, with law-abiding and empowered citizenry enjoying the benefits of a competitive economy and sustainable natural environment, with resilient infrastructures, governed by competent, transparent and development-oriented leaders".





PROBLEM: SOLID WASTE



Un-managed wastes can contribute to excessive global warming

"Throw-Collect-Dump" system of garbage

- > an INEFFECTIVE waste management
- never been resolved by the Local Government Unit satisfactorily

Present Collection Rate: 28 %

> 26 out of 92 Barangays are covered by garbage collection

Waste generation rate: 0.52 kg/person/day

Total waste generation: 55 tons/day



Baybay City Open Dumpsite, Barangay Imelda

BAYBAY CITY SOLID WASTE MANAGEMENT PROGRAM

The implementation of solid waste management in the City is anchored on national legislations, its principles & requirements:

- RA 9003 or the Philippines Ecological Solid Waste Management Act
- RA 9729 or the Philippines Climate Change Act

City SWM Program

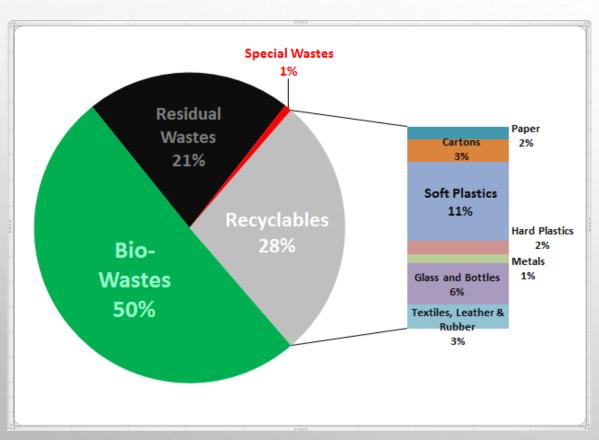
- ❖ 10-year plan (2017-2027)
- mainstreams climate protection concerns and disaster risk reduction and management
- integrates feasible recycling technologies in solid waste management as one of the revenue-generating avenues for the City
- motivating constituents towards managing properly their generated solid waste, understand and appreciate the value of resources
- optimize resource recovery, divert waste from the disposal facility and increase the lifespan of the proposed landfill
- inclusion of SWM annual budget in the 20% City Development Fund



SWM PROGRAM: ISSUES & CHALLENGES

Segregation of waste at the source is not fully observed at the barangay level





Fractions of Household Waste

Baybay Waste Analysis & Characterization Study 2013

SWM PROGRAM: ISSUES & CHALLENGES

- * BUDGET FOR THE DEVELOPMENT OF SANITARY LANDFILL PROPOSED FOR 2017
- ❖ COST-RECOVERY MECHANISM

THE NEED TO:

- * CLOSE AND REHABILITATE THE OPEN DUMP IN BRGY. IMELDA
- ❖ CONSTRUCT THE MATERIALS RECOVERY FACILITY IN BRGY. IMELDA, INCLUDING COMPOSTING
- * CONSTRUCT A HAZARDOUS/INFECTIOUS WASTE FACILITY AT THE DISPOSAL SITE

SWM PROGRAM: STRATEGIES

Information Drive And Education Campaign









Construct of Materials Recovery Facility (MRF) in Barangays









MRF, Barangay Candadam

MRF receive mixed waste for final sorting, segregation, composting, and recycling

SWM PROGRAM: STRATEGIES

Establishment of MBT and Central MRF in Brgy. Imelda

MECHANICAL BIOLOGICAL TREATMENT

WINDROW COMPOSTING





VERMI COMPOSTING





Central Materials Recovery Facility



For final sorting of wastes

Organic fertilizer production

SWM Program: STRATEGIES

❖Sanitary Landfill (SLF) Development



SLF site, 3 hectares, Barangay Buenavista

> Serves as the final disposal for residual wastes

Hazardous/Infectious Waste management area



Healthcare and Special Waste Containment Facility

Currently under construction



LESSONS & IMPLICATIONS

- HARMONIZE PLANS, PROGRAMS & EFFORTS OF ALL SECTORS
- MAINSTREAMING CLIMATE CHANGE ADAPTATION & MITIGATION
 - > IN POLICY & DECISION MAKING
 - > IN ALL PROGRAMS, PLANS & PROJECTS
- CONDUCT INTENSIVE INFORMATION EDUCATION COMMUNICATION (IEC) CAMPAIGN
- STRENGTHEN LAW ENFORCEMENT
- IDENTIFY AND EVALUATE DOABLE MANAGEMENT SCHEMES
- TO ADOPT AND PROMOTE INNOVATIVE SOLID WASTE MANAGEMENT PROCESSING TECHNOLOGIES
- ACHIEVE A FEASIBLE WASTE DIVERSION RATE FROM 25% TO 50% THROUGH SEGREGATION AT SOURCE, RECYCLING INITIATIVES AND COMPOSTING



REPUBLIC OF THE PHILIPPINES PROVINCE OF LEYTE LOCAL GOVERNMENT UNIT OF BAYBAY CITY



(+63) (53) 335-2045



(053) 335-2366



BAYBAYCITY0616@YAHOO.COM