IMPLEMENTING SOLID WASTE MANAGEMENT PROGRAM IN THE CITY OF CAUAYAN, ISABELA, PHILIPPINES

...possible dream...
WELCOME

City of CAUAYAN, ISABELA
The MUSHROOM CITY OF THE NORTH
Cauayan City is situated in Central Isabela and is centrally located in the entire Cagayan Valley Region/Region 2.
The City is approximately 436 kms away from Manila or about 8 hours trip by land and less than an hour flight by plane.
It is 34.50 kms south of Ilagan City, the Capital City of Isabela, about 117.0 kilometers away from Tuguegarao City, the Regional City of the Valley.
Cauayan City has more than 100,000 population, with a total land area of about 34,000 Has. The City’s economy is predominantly agricultural, with rice and corn as major crops grown.
The Local Government of Cauayan City conform to the provisions of the Ecological Solid Waste Management Act of 2000 known as Republic Act 9003.
Cauayan City is one of the Finalist in the 2003 Nationwide search for Model Barangay for Ecological Solid Waste Management System.
Finalist in the 2007 Nationwide search for Model Barangay for Ecological Solid Waste Management System.
Finalist in the 2009 Nationwide ZERO BASURA OLYMPIC.
Vision

Progressive and dynamic city inhabited by empowered and healthy citizenry living in harmony with the environment
Mission

The City of Cauayan commits to formulate a 10-year Solid Waste Management Plan, provide policy and logistical support and encourage/motivate community participation.
GOALS

Litter-free community
Decrease incidence of environmentally related deceases
A 40-60% diversion of household waste from Greenland
Increase employment generation and income
Self-sustaining SWM Program
The City enters into a MOA covering the technical assistance of the good environmental governance with the DENR-EcoGov.
The Solid Waste Management Assessment and Characterization Program

Integrated SWM Planning and Legitimization Process

Waste characterization and Assessment to determine the volume and composition of city daily waste generation.
• COMPONENTS OF THE 10-YR ISWM PLAN
  — ENGINEERING
  — INFORMATION, EDUCATION AND COMMUNICATION
  — POLICY AND ENFORCEMENT
  — ECONOMIC ENTERPRISES
ENGINEERING COMPONENT
  – Segregation and Reduction at source
  – Storage, collection and transport
  – Materials Recovery
  – Disposal System
• Segregation & Reduction at source
• IEC WILL BE USED EXTENSIVELY
ISWM Plan

HIWA-HIWALAY NA PATUTUNGUHAN

BASURA

PAGBUBUKUD-BUKOD SA PINAGGALINGAN

NABUBULO
TIRANG
PAGKAIN
BALAT NG
GULAY
PRUTAS
AT IBA PA

NARERESIKLO
PAPEL
KARTON
BOTE
BAKAL
PLASTIC
AT IBA PA

SPECIAL WASTE
PINTURA
THINNER
HOSPITAL WASTE
NAKAKALASON
AT IBA PA

MRF
MATERIAL RECOVERY FACILITY

RESIDUAL
CERAMIC
BASAHAN
AT IBA PA

JUNKSHOP

GARDEN
FARM

TAMANG
TAPUNAN
RECOMMENDED RECEPTACLES

NABUBULOK
- Tirang pagkain
- Balat/buto ng prutas
- Pinagtabasang ng gulay
- Dahon
- Sanga ng kahoy
- Damo
- Basang papel

RECYCLABLE
- Boteng plastic
- Bote
- Bubog
- Cartons
- Tetrapaks
- Cell card na gamit
- Disposable cups, spoon & fork

HAZARDOUS/SPECIAL WASTE
- Baterya
- Pentel Pen
- Disposable ink cartridge
- Bombilya
- Basyo ng kemikal

RESIDUAL
- Balat ng kendi
- Plastic bags
- Styrofoam
- Straw
- Upos ng sigarilyo
Current Waste Collection Area

1997 - 2005 – The City Government Unit collects all kinds of segregated wastes in 13 barangays, market and terminal

2006 - 2010 – expands collection to 12 barangays

For other barangays: only residuals shall be collected at barangay MRF and transport to Greenland.

2011 – present - 8 Barangays are added in the collection of wastes.
City Materials Recovery Facility
Barangay Materials Recovery Facilities
School Materials Recovery Facility
School Materials Recovery Facility
Development and Management of City Greenland Disposal Facility at Sitio Callague, Barangay San Pablo, Cauayan City
Wastes to be handled: residual and special wastes

Final segregation shall be done at Greenland
Biodegradable wastes are use for COMPOSTING…Cauayan Style
– (one way of diverting waste)

SOIL CONDITIONER FOR GARDEN AND DOMESTIC FIELDS
@ Php 2.00 per kilo – Vermi Compost
5.00 per kilo – Vermicast
VERMI COMPOSTING CAUAYAN STYLE
Other diversion of residual wastes
WOW
(WEALTH ON WASTE)
CAUAYAN
Target Audience: Barangays

Target Audience: Elementary Schools

Target Audience: High Schools
Target Audience: CENRO Personnel
Target Audience: Youth Volunteer Organization
STRATEGIES and KEY ACTIVITIES

Implement IEC component by phase
- Promotion of recovery and selling of recyclables within poblacion and barangays.
USE OF MULTI-MEDIA CAMPAIGN
- Printed Materials
USE OF MULTI-MEDIA CAMPAIGN

Airing on Radio Station DWND
Monthly announcement on proper waste management at Public Market
USE OF MULTI-MEDIA CAMPAIGN
- Orientation Meeting

INTENSIVE IEC CAMPAIGN ON WASTE MANAGEMENT
Waste Management is one of the integrated lecture on marriage counseling. An initiative action of the City Government for a better and healthy lifestyle to a new couples in the city.
Billboards, signage, poster and stickers on source segregation and proper waste management are...
POLICY SUPPORT and ENFORCEMENT

-Republic Act 9003
Ecological Solid Waste Management Act 2000
- City Environment Code
City Ordinance 2007-005

Republic of the Philippines
Province of Isabela
CITY OF CAUAYAN

Office of the Sangguniang Panlungsod
Ordinance approved by the Sangguniang Panlungsod of the City of Cauayan, Isabela in its Regular Session held on August 9, 2007 at the Sangguniang Panlungsod Session Hall.

ORDINANCE NO. 2007-005
AN ORDINANCE PROVIDING FOR AN ECOLOGICAL SOLID WASTE MANAGEMENT, PRESCRIBING FEES FOR SOLID WASTE MANAGEMENT SERVICES, DECLARING CERTAIN ACTS PROHIBITED AND PROVIDING PENALTIES, APPROPRIATING FUNDS THEREFOR, AND FOR OTHER PURPOSES.

Article 1
General Provisions

Article 2
Definition of Terms

Article 3
Solid Waste Management Functions

Article 4
Segregation of Solid Waste

Article 5
The City Ecological Solid Waste Management Plan

Article 6
Establishment of Materials Recovery Facility
ENACTED: August 9, 2007

RESOLVED, FINALLY, to furnish copies of this ordinance to Hon. Caesar G. Dy, City Mayor and Engr. Alejo S. Lamsen, City Environmental Solid Waste Management Officer, both of the City Government of Cauayan, Isabela, for their information and guidance.

ADOPTED: August 9, 2007
Policy / Ordinance Formulation

SWM Organization: Strengthening of City ENRO

The City Ecological Solid Waste Management Committee
The 65 Barangay Ecological Solid Waste Management Committee
Segregation: Mandatory segregation of solid waste for all sources
ENFORCEMENT

The City Ordinance 2007-005 as well as other ordinances of the city government on Solid Waste Management shall be enforced by the Philippine National Police (PNP); the Public Order and Safety Unit (POSU) of the LGU and deputized SWM Enforcers (ECOGuard)

SWM Enforcers
City ENRO
ECOGuards
Apprehension and Issuance of Citation Tickets.

Three Notice of Violation shall be given to violators before an issuance of citation ticket for penalty.
Incentives, Rewards and Awards
2010 - 2011 Model Establishment Implementing Solid Waste Management System
2010-2011 Model Barangays Implementing Solid Waste Management System
SAMPLE OF SLOGAN THEY CREATED

• “Huwag magtapon sa kung saan-saan dahil may epektong masama sa ating kalusugan at kalikasan” KECELENE A. TULIAO

• “Proper and wise disposal of waste: Key to conserve our Mother Earth.” IRISH KATE B. MARAMAG

• “Discipline is the best key to care our environment.” IRRIZ G. MADRIAGA

• “Discipline in re-using, re-ducing and re-cycling, the best way for a healthy living.” FRIEDRICH A. AQUINO

• “Bigyan pansin ang Inang Kalikasan, linisin ito at pangalagaan, biyaya ito ng maykapal.” CHRISTIAN LOUIS L. REYES

• “Kalikasan ay pangalagaan para sa ating kinabukasan, kalusugan at kabuhayan.” KING RAY D. FERNANDO
2011-2012
Students created the best SLOGAN with the theme: CARING FOR THE ENVIRONMENT
2011-2012
BEST BARANGAY FOR IMPLEMENTING
SOLID WASTE MANAGEMENT SYSTEM
BARANGAY SAN ANTONIO

BARANGAY NUNGNUNGAN II
FIRST RUNNER-UP

BARANGAY MARABULIG
2ND RUNNER UP
BARANGAY STA LUCIANA

BEST BARANGAY MATERIAL RECOVERY FACILITY

BARANGAY DUMINIT
2010 Evaluation on Search for Model Barangay/Model School for Ecological Solid Waste Management
2011 Evaluation on Search for Model Barangay/Model School for Ecological Solid Waste Management
Exit Conference – On Search for Model Barangay/School for Eco-Waste Management
CENRO
CITY ENVIRONMENTAL AND NATURAL RESOURCES OFFICE
FUNCTIONAL CHART
BULLDOZER FOR GARBAGE PUSHING, COMPACTING AND SOIL COVERING.

HAMMER MILL FOR SHREDDING BIODEGRADABLE WASTE FOR COMPOSTING PROJECT.
OTHER ACTIVITIES

REFORESTRATION
CITY – LESSONS LEARNED

• The success and sustainability of solid waste management system substantially depend on public and private sector acceptance, their support and initiative, and finally, their full participation and commitment to the system.

• Consistent and Efficient implementation of the program ensures program sustainability:
  – Fair and strict in implementing policies
  – Education and information activities must be sustained

• High awareness of all stakeholders on the consequences of uncollected garbage to the health and the environment and the direct and indirect benefits derived from a sound urban waste management system is significantly contributing to growing success of the program.

• Support system must be established and sustained
• Local Political Will
• Focus and Work continuously
As a Mayor to this humble city, I am duty bound to protect the health condition of my constituents, promote a wholesome environment and protect the interest of the Local economy at any cost. The LGU’s resources could hardly meet the ever growing demand of effectively and efficiently managing solid waste collection and disposal. But with hard work, perseverance and the willingness of every stakeholders to cooperate, we can make this happen a possible dream.

To be effective solid waste disposal program require action at both household and Community levels. If only a few households dispose of waste properly, the community environment may remain dirty and contaminated. Community members should decide how important solid waste management is and determine the best ways to achieve waste management goals. Citizen’s participation is paramount in this undertaking. Garbage segregation should start at home and it must become a way of life.
The close coordination between the city government, National government agencies and non-government organizations and the pooling of resources in support of ecological and solid waste management program is of paramount significance in the success of this endeavor.

Let me take this opportunity then to extend my grateful appreciation to our partners, the DENR, private sector, the NGO’s and PO’s the business and religious sectors plus the professionals who threw their support to the urban waste management Board and its technical working Group and to the staff of the City Planning and Development Coordinator; City Agriculture Office; City Environmental and Natural Resources Office, DepED, DILG, Sangguniang Kabataan, Liga ng mga Barangay and most especially to the people of the City of Cauayan Isabela.

Thank You very much!

And to all our friends in Asia a million thanks to all of you in giving us this opportunity to share with you our activities in making this land a healthy and clean planet to live in.

More Power.

MABUHAY!

Ban-sai
Thank you very much.
Its me,
LEKKONG