Jeju Plus International Environment Forum 2022



Updates on Solid Waste Management Implementation in the Philippines



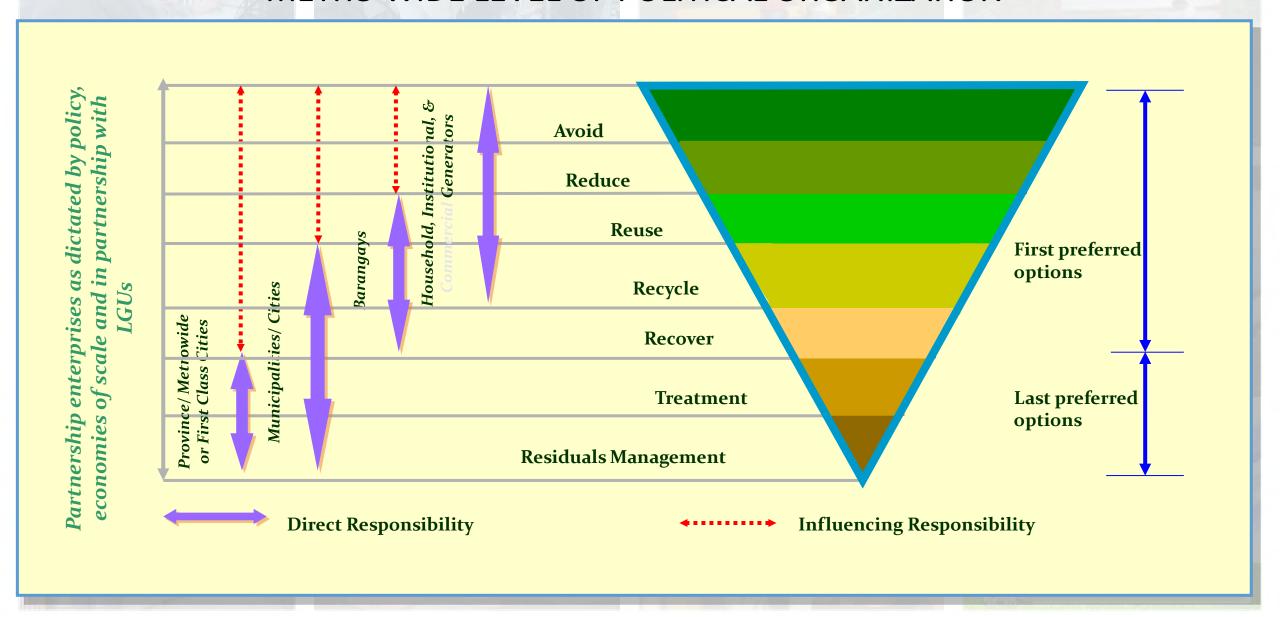




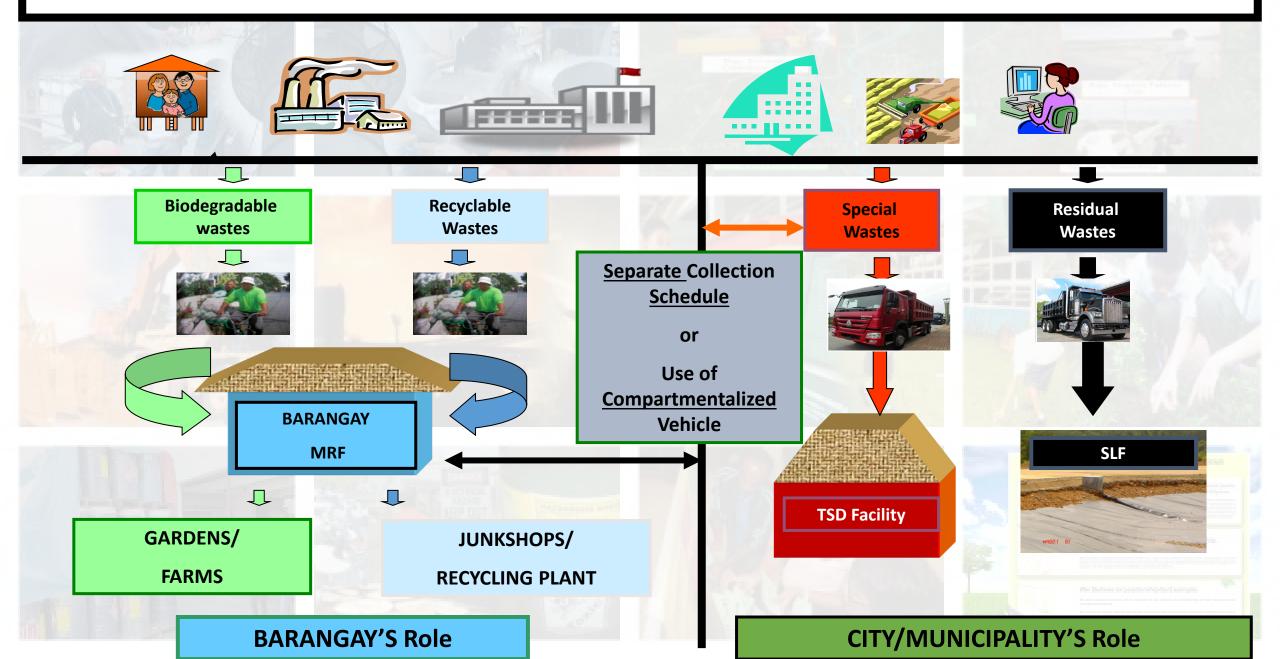




LEVELS OF GOVERNANCE STARTING FROM HOUSEHOLDS UP TO THE PROVINCE OR METRO WIDE LEVEL OF POLITICAL ORGANIZATION



CONCEPTUAL FRAMEWORK OF RA 9003





Institutional Mechanism

DENR

Chair, National Solid Waste Management Commission



NSWMC Members

Vice Chair: Private Sector

- 1. DILG
- 2. DOST
- 3. DPWH
- 4. DOH
- 5. DTI
- 6. DA
- 7. MMDA
- 8. League of Provincial Governors
- 9. League of City Mayors

- 10. League of Municipal Mayors
- 11. Association of barangay councils
- 12. TESDA
- 13. PIA
- 14. Manufacturing/Packaging Industry
- 15. Recycling Industry *current Vice*Chairman
- 16. Non-Government Organization



Environmental Management Bureau

- Provides Secretariat support to the Commission
- EMB Director Heads the National Ecology Center under the Commission
- EMB Regional Directors Head the Regional Ecology Centers



FY 2022 Thrusts and Priorities

□ Technical Assistance to LGUs in the Review and Approval of Ten Year Solid Waste Management Plans

Total No. of LGUs (Provinces, Cities and Municipalities)

Total LGUs with *Approved SWM Plans

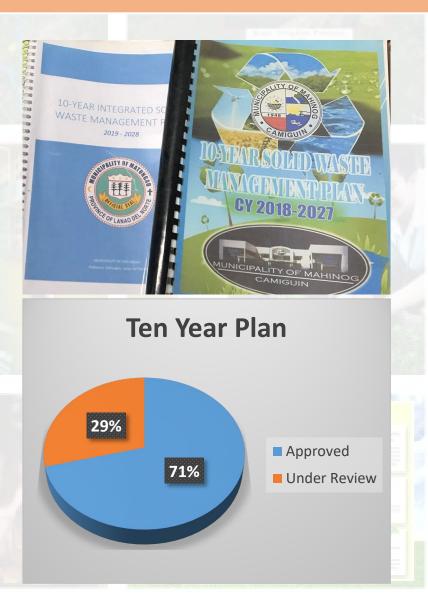
Plans

Total LGUs with SWM Plans *Currently Reviewed for Subsequent Endorsem ent to the NSWMC ExeCom

1,592

1,131

461



^{*} As of June 2022

FY 2022 Thrusts and Priorities

- Non-Environmentally Acceptable Products and Packaging Materials (NEAP)
 - The first set of NEAP to be identified by the NSWMC include the plastic softdrink straw and plastic coffee stirrer, based on the study conducted by the Department of Science and Technology Industrial Technology Development Institute (DOST-ITDI);
 - This was adopted by nine (9) members of the Commission including: the DENR, DILG, DTI, DA, MMDA, League of Cities of the Philippines, TESDA, PIA and the Non-Government Organizations
 - ☐ Public Consultations were done on the following dates:

Schedule	Regional Stakeholders involved	Mode	
April 28 2022	NCR, CAR, I and II	Hybrid (MS Teams)	
May 12, 2022	III, CALABAZON, MIMAROPA, V	Hybrid (MS Teams)	
May 26, 2022	VI, VII, VIII	Virtual (MS Teams)	
June 8, 2022	IX, X, XI, XII, CARAGA	Virtual (MS Teams)	
June 28, 2022	Industry Sector	Face to face	



FY 2022 Thrusts and Priorities

- □ Conduct of Life-Cycle Assessment on Single-Use Plastics for Possible Non-Environmentally Acceptable Products and Packaging Materials (NEAP)
 - NSWMC Resolution No. 1363, Series of 2020 banned the following single-use plastics in government offices:
 - Plastic cups (lower than 0.2 mm in thickness;
 - Plastic drinking straw
 - Plastic coffee stirrers
 - Plastic spoons
 - Plastic forks
 - □ Plastic knives; and
 - ☐ Plastic labo and thin filmed sando bags (lower thank 15 microns)
 - The DOST-ITDI as a member of the NSWMC, is currently conducting the LCA for the plastic spoons, forks, knives and the plastic labo. Once any of these is identified as NEAP and adopted by the Commission, another set of public consultation for the phase-out of these products will be conducted.



Support to the Implementation of the National Plan of Action for the Prevention, Reduction and Management of Marine

Litter (NPOA-ML)

The NPOA-ML was adopted by the National Solid Waste Management Commission through Resolution No. Resolution no. 1441 in 2021. It was also adopted by the DENR through DENR Memorandum Circular no. 2021-10.

The NPOA-ML has a vision of "A Philippines free of marine litter through shared responsibility, accountability, and participatory governance" and an overarching goal of "zero waste to Philippine waters by 2040"

FY 2022 Thrusts and Priorities

National Plan of Action for the Prevention, Reduction and Management of Marine Litter



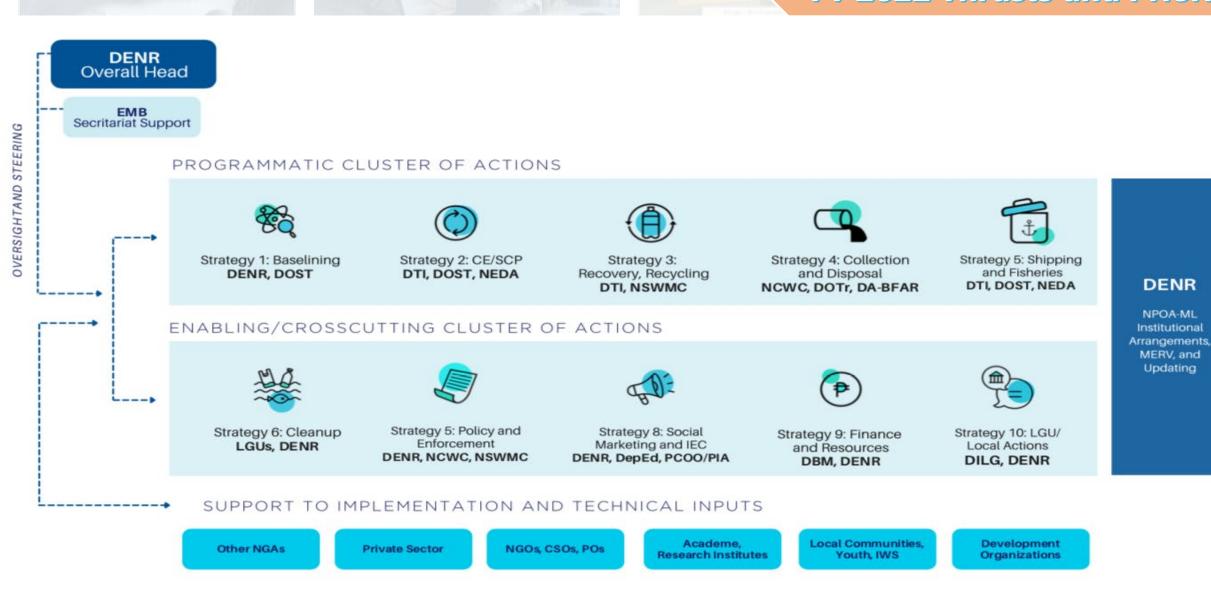
to support the vision of

"a Philippines free of marine litter through shared responsibility, accountability, and participatory governance."





FY 2022 Thrusts and Priorities



MPLEMENTATIO Z FRAMEWORK

DENR

NPOA-ML

MERV, and

Updating

FY 2022 Thrusts and Priorities

☐ Support to the Implementation of the National Plan of Action for the Prevention, Reduction and Management of Marine Litter (NPOA-ML)





Conduct of Regional NPOA-ML Launch in the 16 Regions and Inter-Agency Coordination among the Cluster Lead Agencies

FY 2022 Thrusts and Priorities

☐ Support to the Implementation of the National Plan of Action for the Prevention, Reduction and Management of Marine Litter (NPOA-ML)

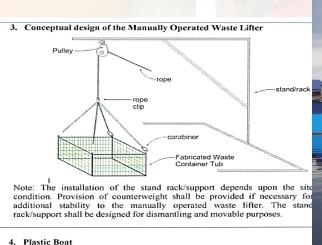


Provision of SWM Equipment to 94 LGUs for the Processing of Plastic Wastes into Chairs

FY 2022 Thrusts and Priorities

☐ Support to the Implementation of the National Plan of Action for the Prevention, Reduction and Management of Marine Litter (NPOA-ML)









Site Assessment on the Installation of Trash Traps to LGUs in NCR and Region III

FY 2022 Thrusts and Priorities

☐ Support to LGUs in the Management of Biodegradable Wastes



Provision of Biowaste Shredders, Composter and Biogas Digesters for the Management of Biodegradable Wastes

FY 2022 Thrusts and Priorities

☐ Support to LGUs in the Site Assessment of Proposed Sanitary Landfills for Waste

Disposal



Figure 1. Image shows the proposed sanitary landfill facility site and its vegetation located at Purok-6, Brgy. Katipunan, Bayugan City, Agusan del Sur.







FY 2022 Thrusts and Priorities

☐ Support to LGUs in the Site Assessment of Proposed Sanitary Landfills













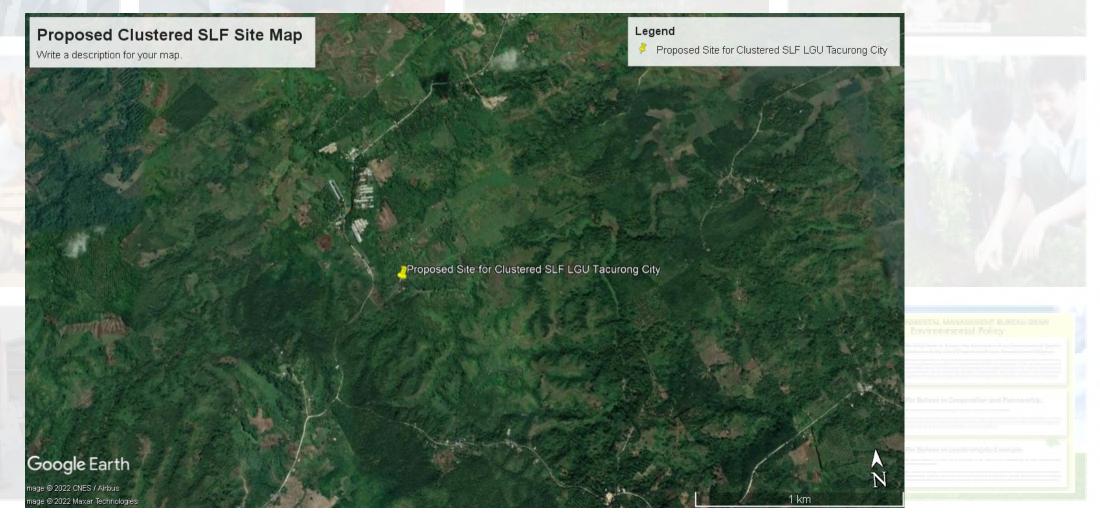






FY 2022 Thrusts and Priorities

□ Development of a Feasibility Study for the Establishment of Sanitary Landfill for Use of LGU-Cluster



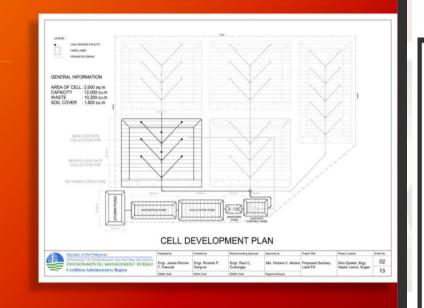
FY 2022 Thrusts and Priorities

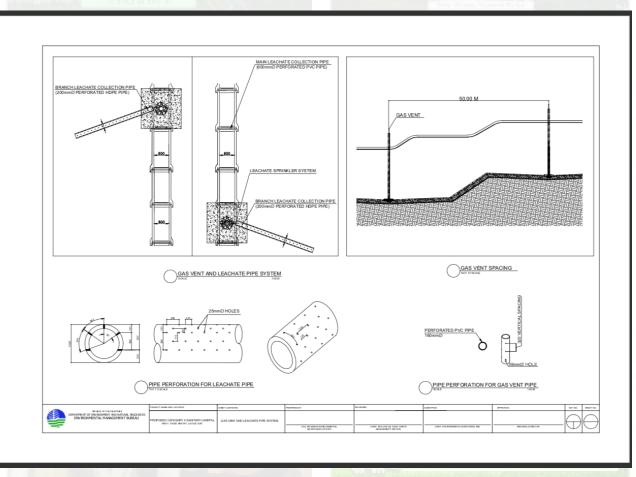
☐ Support to LGUs in the Design of Sanitary Landfills

OPERATIONAL FACILITIES

CELL 1

- Cell 1 Area: 2,000 sq.m
- Designed Volume Capacity: 12,000 cu.m
- Volume of Soil Cover to be Applied: 1,800 cu.m





FY 2022 Thrusts and Priorities

☐ Support to LGUs in the Design of Sanitary Landfills

SANITARY LANBFILL FACILITY (CATEGORY III) PERSPECTIVES



Figure 01. Aerial Perspective of a Category III SLF, highlighting the Emplacement Cell, Leachate Treatment Facility, and Total Solid Waste Management Facilities.



Figure 02. Aerial Perspective of a Leachate Treatment Facility

FY 2022 Thrusts and Priorities

☐ Solid Waste Enforcement and Education Program (SWEEP)





Unclean site monitored

Cleaned-up

FY 2022 Thrusts and Priorities

□ Solid Waste Enforcement and Education Program





Unclean site monitored

Cleaned-up

FY 2022 Thrusts and Priorities

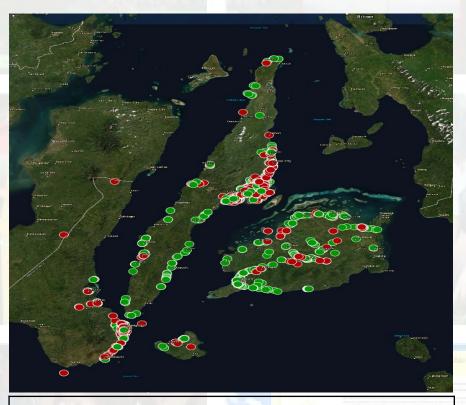
■ Solid Waste Enforcement and Education Program



The before and after photo of the unclean areas monitored by SWEET-ENMO



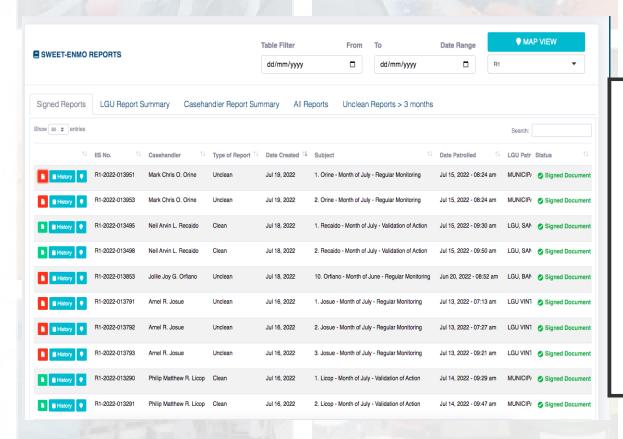
Two months Monitoring and clean up of solid waste debris due to typhoon Odette in coordination with Cebu City river troopers



The map view of the unclean (red dot) and clean (green dot) monitored sites of SWEET-ENMOs

FY 2022 Thrusts and Priorities

□ Online Submission of SWEET-EnMo Reports



ENURIC OF THE PHILIPPINAS MANAGEMENT OF CHANGEMENT AND ADMINISTRATION OF THE PHILIPPINAS ENVIRONMENTAL MANAGEMENT BUREAU REGION I SWEET-BAMO-FELD INVESTIGATION REPORT I. Date Principle. March 22, 2022 II. These Principles. 09 11020 AM II. LOUP principle.				U REGION I	V. Type of Monitoring Activity (pils, check, fill up as appropriate) Regular Monitoring	VIII. Actions to be undertaken:
City / Municipality		DAGUPAN CITY			THE RESERVE AND A SECOND PROPERTY OF THE PARTY OF THE PAR	Checked and Validated by:
Province PANGASINAN						Checked and Validated by:
Region III. Violation(s) Observed:					The same of the sa	Marygail Amogaetty Kilia Sense Enveronmental Mayer. Specialar
Check (/) as appropriate	riate RA 9003 Littering, throwing, dumping of waste matters in public places or Sec. 48(1)		Section Chapter VI,		Ryanne Narvaez	
аругорпаче					Engineer IV	
	causing or permitting the same; Open burning of solid waste; Sec. 48(3)		Sec. 48(3)			
	Squatting in open dumps and landfills; Sec.		Sec. 48(5)		Engr. Maria Dorica Hipe	
	Open dumping, burying of biodegradable or non-biodegradable Sec. 48(6)			Sec. 48(6)		
materials in flood-prone areas: Establishment or operation of open dumps as enjoined in PA 9003, or closure of said dumps in violation of Section 37 (Prohibition Against the Use of Open Dumps for Solid Weel).			n 37 (Prohibition	Sec. 48(9)		
IV. Exact location and	type of area where	violation(s) was/were obser	rved (fill up and check as	appropriate):		
LOCATION Barangay Bonuan Boguig					Figure 1 Figure 2	Copy Furnish: - Regional Executive Director, Department of Environment and Natural Resources (RED DENR-CO);
Street near signal tower						- Regional Director, Environmental Management Bureau (RD EMB-CO):
Geographical coordinates Lat: 16.08479 Long: 120.35397			Long: 120.35397		Figure 1: Mixed wastes were dumped in a vacant lot. Figure 2: The site was cleaned up.	EMB-CO Provincial Environmental Management Units (PEMUs); EMB-CO SWM Division;
		- Line OU OTTH DEPOND				
Major Thorough fare	Road	Sidewalks	Canal	Esteros	VII. Additional Findings / Remarks:	
Parks	Establishmen	ts Bridge	Coastal	✓ Vacant Lot	Estimated land area covered by solid waste (sq. m.): Final Disposal of Solid Waste and Coordinates: Location: Metro Clark Waste Management	
Others:						

FY 2022 Thrusts and Priorities

■ Solid Waste Enforcement and Education Program



OLID WASTE MANAGE

FY 2022 Thrusts and Priorities

Accessible SWM Information through the EMB Data Center







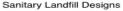
LGU 10-Year Solid Waste Management Plan





Operational Sanitary Landfills





Non-Environmentally Acceptable Products

(NEAP) Documents







National Plan of Action on Marine Litter (NPOA-ML) Documents







Management of COVID-19 Related Health Care Wastes



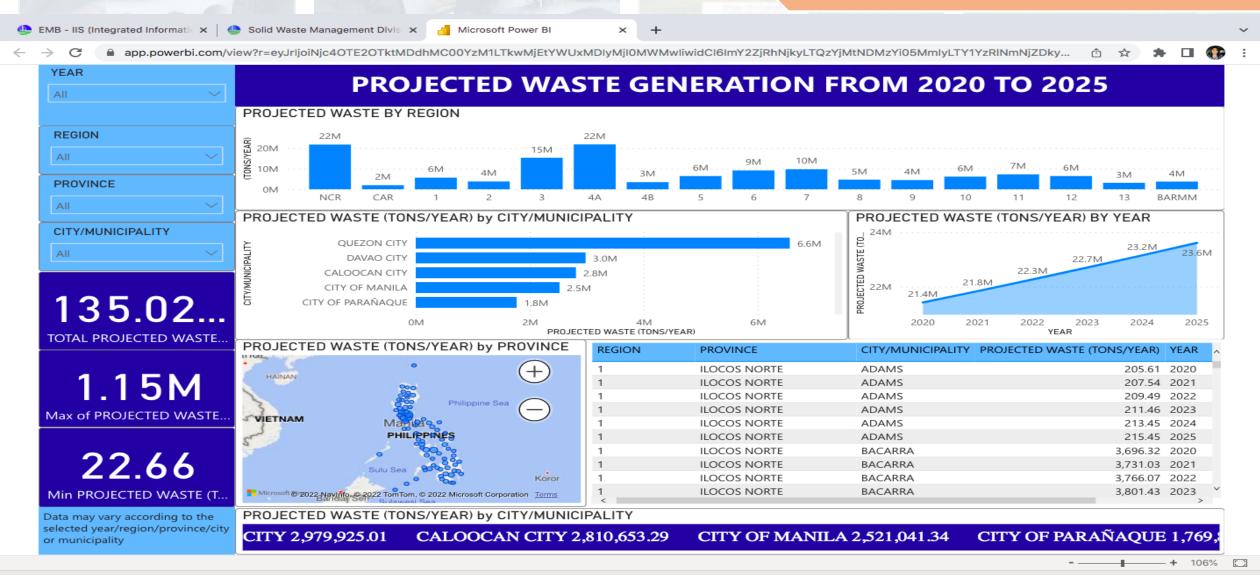
Waste Analysis and Characterization Study (WACS) Manual



SWM Materials for DepEd by Nestlé and NSWMC

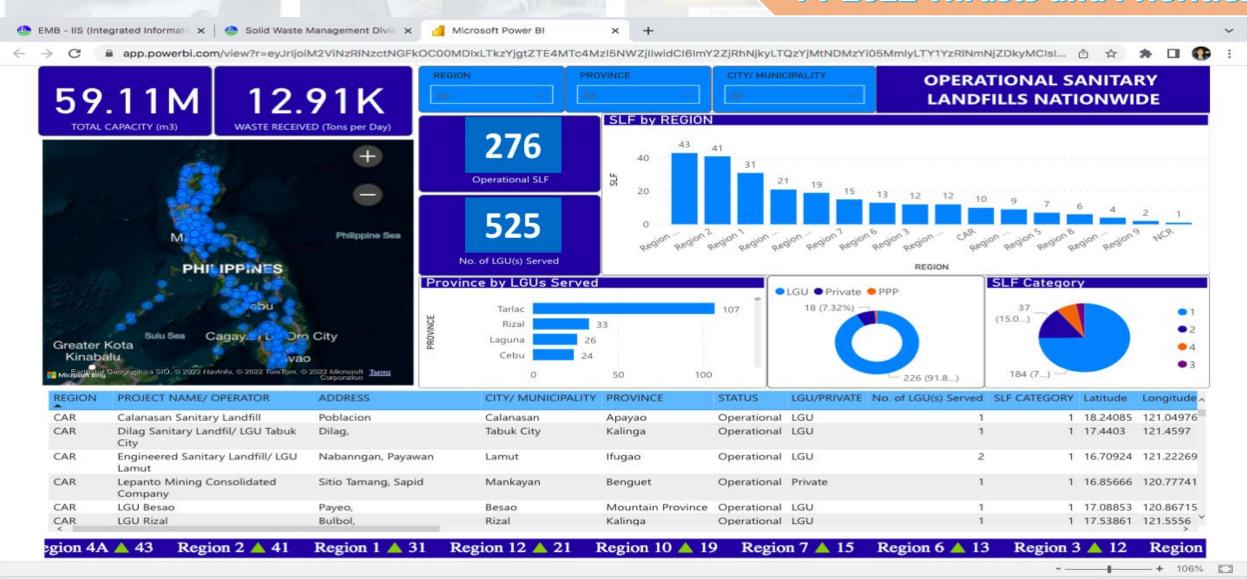


FY 2022 Thrusts and Priorities





FY 2022 Thrusts and Priorities



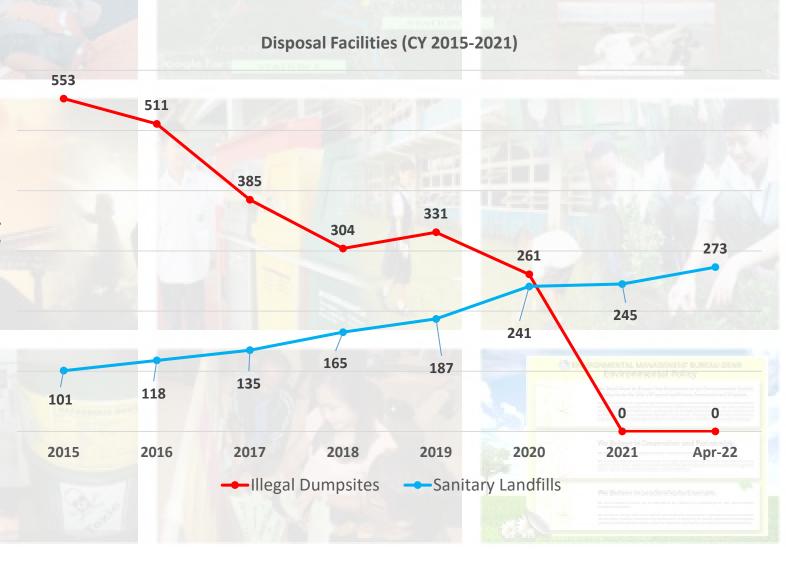
FY 2022 Thrusts and Priorities

Illegal Dumpsites

✓ 100% of illegal dumpsites in the country were closed through the marching order of the DENR Secretary in 2021.

Sanitary Landfill

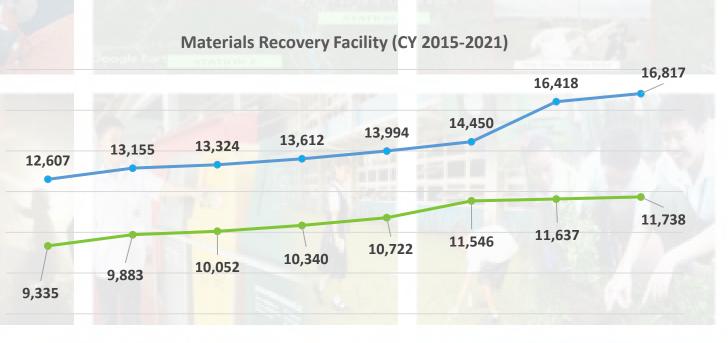
✓ A total of <u>273 SLFs</u> operational nationwide.



FY 2022 Thrusts and Priorities

Materials Recovery Facility (MRF)

✓ A total of 11,738 MRFs established servicing
 16,817 barangays nationwide.





FY 2022 Thrusts and Priorities

Policies Undergoing Consultation

- Guidelines for Best Available Techniques & Best Environmental Practice for WtE Facilities (DAO)
- Technical Standards of WtE Facility on Appropriately Controlled Combustion (JAO)
- Policy Review and draft amendment for certain provisions of RA 9003
- Clustering of SLF
- Amendment of Siting Criteria for SLF
- Guidelines on the Total SWM Solution
- Policy on the Importation of Recovered Paper



NSWMC Membership under the Extended Producer Act of 2022

Government Sector

- Department of Environment and Natural Resources (DENR);
- 2. Department of the Interior and Local Government (DILG);
- 3. Department of Science and Technology (DOST);
- 4. Department of Health (DOH);
- 5. Department of Trade and Industry (DTI);
- 6. Department of Agriculture (DA);
- 7. Metro Manila Development Authority (MMDA)
- 8. Union of Local Authorities of the Philippines

Non-Government Sector

- Three (3) representatives from Non-Government Organizations (NGOs with a track record on solid waste management or waste reduction, recycling and resource recovery;
- A representative from the recycling, composting, or resource recovery and processing industry; and
- A representative from the manufacturing industry, packaging industry, or obliged enterprises

Extended Producer Act of 2022

OBLIGED ENTERPRISES

- Obliged enterprises shall refer to product producers that are required to implement an EPR program under this Act (Section 3. Definition of Terms);
- Product producers obliged to implement ERP under this Article shall refer to large enterprises that generate plastic packaging waste

Extended Producer Act of 2022

Compliance Period for Plastic Packaging Recovery Programs

The following targets for the recovery of plastic product footprint generated during the immediately preceding year are hereby set:

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"December 31, 2023 – twenty percent (20%);
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"December 31, 2024 – forty percent (40%);

"December 31, 2025 – fifty percent (50%);

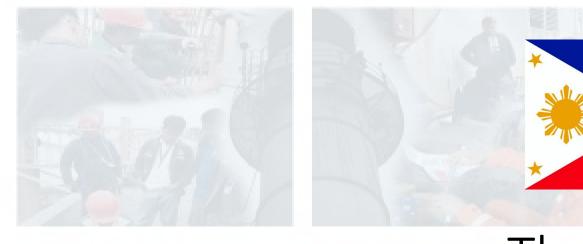
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"December 31, 2026 – sixty percent (60%);
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"December 31, 2027 – seventy percent (70%) and

"December 31, 2028 and every year thereafter – eighty percent (80%)



Per Bullius in Leadership for Exemple.







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Environmental Management Bureau
Department of Environment and Natural Resources
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Philippines

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