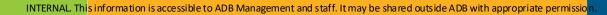
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Rolando E. Enoc

Senior Environmental Management Specialist, Environmental Management Bureau, Philippines









Waste Generation Waste Management Circular Economy through SWM, EPR and other interventions





Waste Generation: 61,700 tons per day

Data from the 10-Year Solid Waste Management Plan and Consolidated WACS

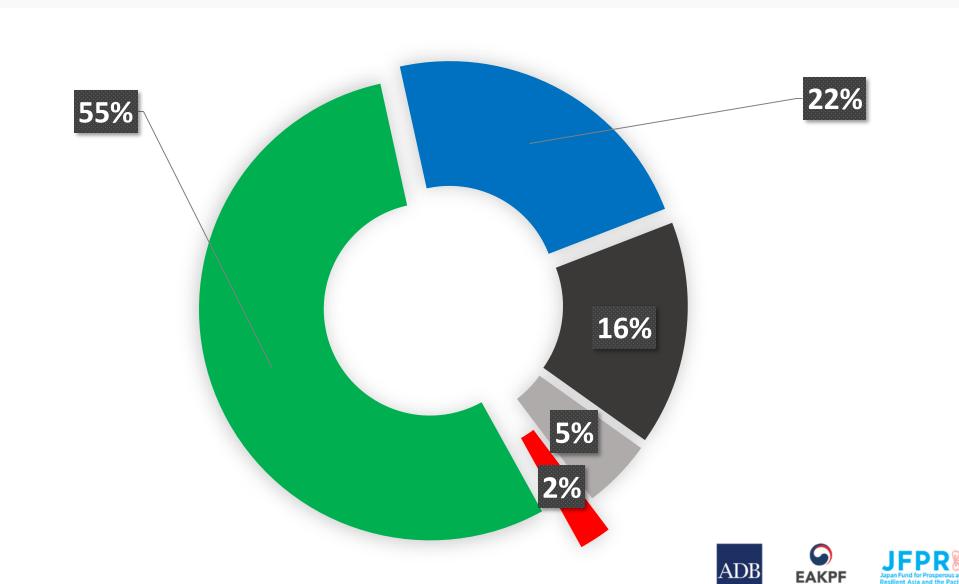


Waste Analysis and Characterization Study

■ RESIDUAL WITH POTENTIAL

SPECIAL

RESIDUAL



Data from the 10-Year Solid Waste Management Plan

■ BIODEGRADABLE

■ RECYCLABLE

REPUBLIC ACT 9003

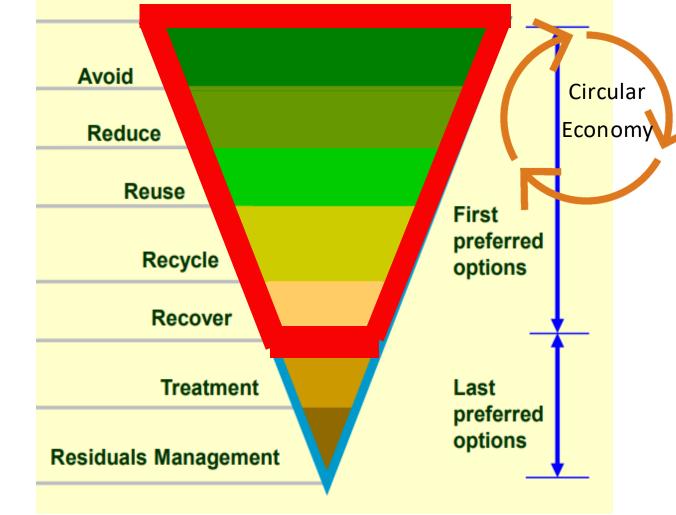
Department of Environment and Natural Resources (DENR) National Solid Weste Management Commission (NSWAC)

PROPER SEGREGATION OF SOLID WASTE



 Litering, therwing, and inducriminate duringing of wasies in public places each as in made, indexedito, canals, electron or public PhP300 to PhP1,000 or one (1) to 15-day community stretce, or both

SOLID WASTE MANAGEMENT HIERARCHY



ADE

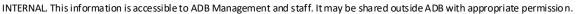
EAKPF

JFPR

esilient Asia and the Pacifi

the People of Japa

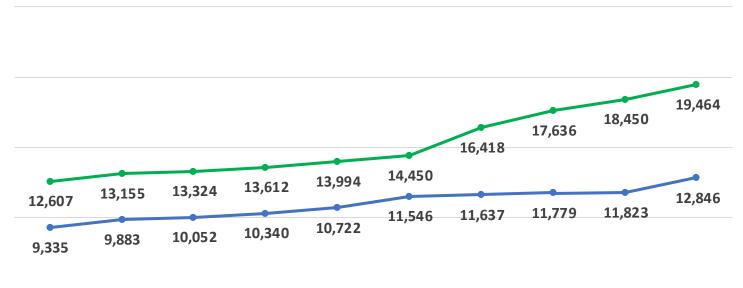
Waste Management / Circular Economy



SOLID WASTE MANAGEMENT

Where are we now in the management of Solid Wastes?

- Materials Recovery Facility (MRF)
 - I2,846 MRFs established servicing <u>19,464 or 49%</u> of the total barangays nationwide.
- I0-Year Solid Waste Management Plan (SWMP)
 - 87% or 1,392 Solid Waste Management Plans approved.



---- Servicing Barangays

---- Materials Recovery Facility



2022

2023

Aug-24

Data from the 10-Year Solid Waste Management Plan

2016

2017

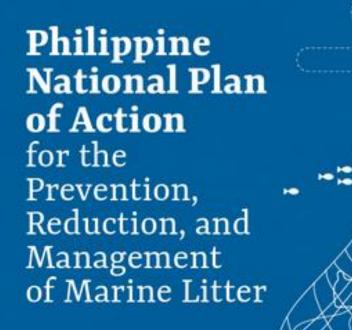
2018

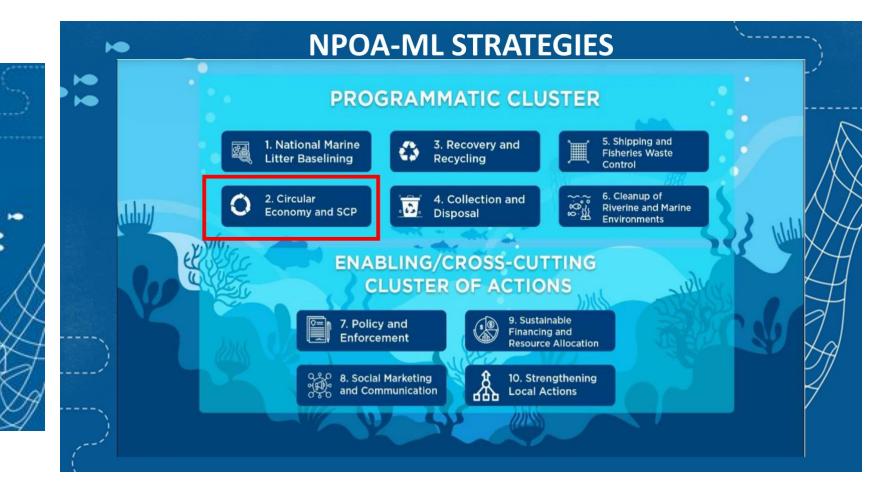
2019

2020

2021

2015







Support to Strategy 2: Mainstreaming Circular Economy (CE) and Sustainable Consumption and Production (SCP) Initiatives

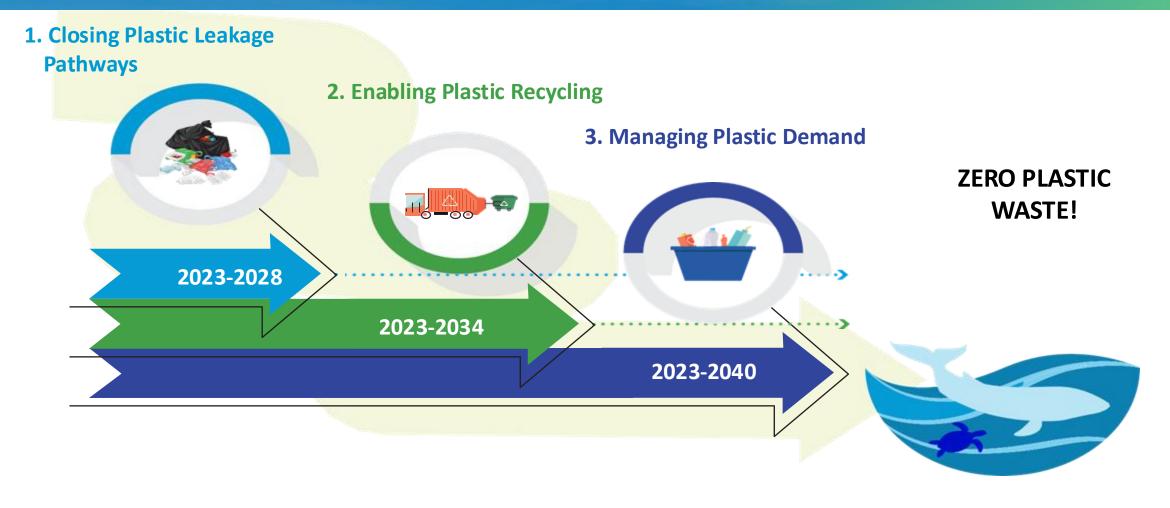
Mainstreaming the NPOA ML Support Activities in the Key Result Area in the EMB Work Program







Roadmap for the Management of Plastic Waste and Reduction of Non-recyclable Single-use Plastics





Extended Producer Responsibility Act of 2022

(Republic Act 11898) and its Implementing Rules and Regulations



WHO ARE OBLIGED ENTERPRISES?

Product producers that generate plastic packaging wastes:

Large – scale enterprises such as *brand owner* and *product manufacturer or importer*

Micro, Small, and Medium Enterprises (MSMEs) where the total value of assets of all enterprises carrying the same brand, label or trademark exceeds that of medium enterprises (₱100 Million) under Republic Act No. 9501

MSMEs not included herein are encouraged to practice EPR voluntarily or be a part of the network of obliged enterprises or producer responsibility organizations practicing EPR.



HOW MAY OBLIGED ENTERPRISES INSTITUTE AN EPR PROGRAM

01 >> Individually (Large Enterprises)

02 > Collectively, but not as a Producer Responsibility Organization (PRO)

03 A Collectively to form, or authorize a Producer Responsibility Organization (PRO) for the purpose of establishing a viable platform to implement their EPR program



PLASTIC PACKAGING COVERED









FLEXIBLE PACKAGING: Sachets; Labels; Laminates & other flexible plastic packaging products, whether single layer or multilayered with plastics or other materials RIGID PLASTIC PACKAGING PRODUCTS, whether layered with any other materials

PLASTIC BAGS, which include single-use plastic bags, for carrying or transporting of goods, and provided or utilized at the point of sale

POLYSTYRENE





ESTABLISHMENT OF EPR PROGRAM

Obliged Enterprises shall establish or phase-in EPR programs for plastic packaging to achieve efficient management of plastic packaging waste, reduced production, importation, supply or use of plastic packaging deemed low in reusability, recyclability or retrievability, and plastic neutrality through efficient recovery and diversion schemes, such as:

01 Reduction of non-environment friendly packaging products

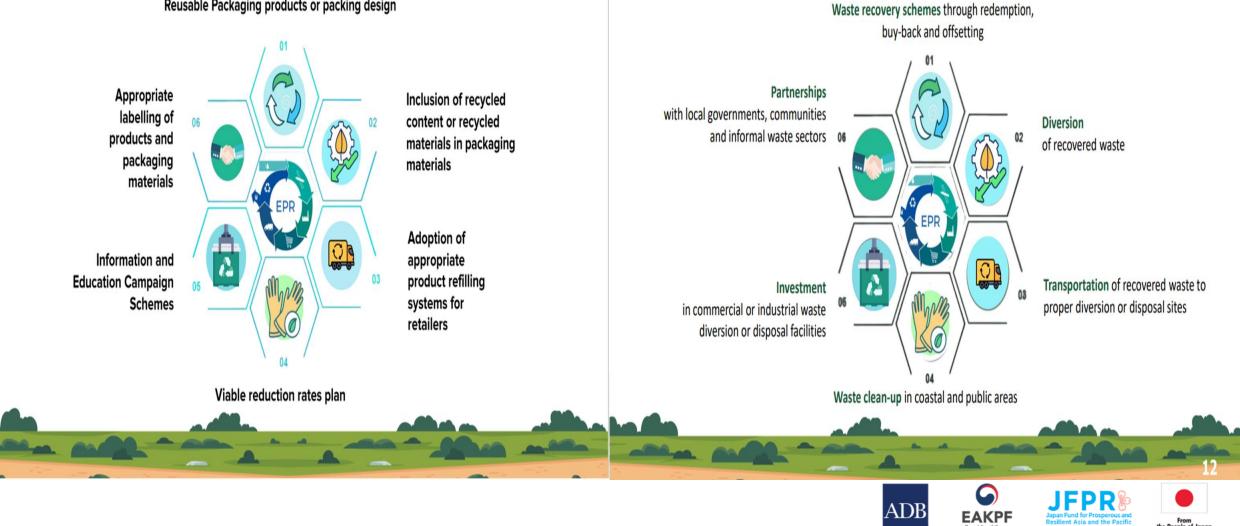
Recovery programs aimed ateffectively preventing waste from leaking to the environment



MODES OF EPR PROGRAM

Recovery programs aimed at effectively preventing waste from leaking to the environment

Reusable Packaging products or packing design



MODES OF EPR PROGRAM

Recovery programs aimed at effectively preventing waste from leaking to the environment

Modes of EPR Program - Reduction of Non-Environment Friendly Packaging Products

ADOPTION OF APPROPRIATE PRODUCT REFILLING SYSTEMS FOR RETAILERS







Modes of EPR Program - Reduction of Non-Environment Friendly Packaging Products

VIABLE REDUCTION RATES PLAN











Modes of EPR Program - Reduction of Non-Environment Friendly Packaging Products



IFPR

INFORMATION AND EDUCATION CAMPAIGN (IEC) SCHEMES

REDUCE, REUSE, RECYCLE CAMPAIGN WITH GMA NETWORK **GOVERNMENT AND ACADEME PARTNERSHIPS**

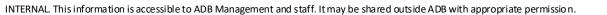
VOLUNTEER PROGRAMS WITH CLIMATE CHANGE COMMISSION AND GMA NETWORK

ADF

EAKPF









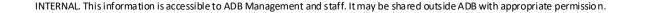
WASTE RECOVERY SCHEMES THROUGH REDEMPTION, BUY-BACK, OFFSETTING, OR ANY METHOD OR STRATEGY

FPR

ADI

ΕΑΚΡ

Modes of EPR Program - Recovery programs aimed at effectively preventing waste from leaking to the environment





INCLUSION OF INFORMAL WASTE SECTOR







COLLABORTION WITH OTHER NATIONAL GOVERNMENT AGENCIES



Collaboration with LGUs, communities and informal waste sector

Development and mandatory adoption of eco – labels

Standards / safeguards for social inclusion (e.g. informal waste sector)





COMPONENTS OF AN EPR PROGRAM

Geographical Implementation Program or Roll-out Plan

COMPLIANCE YEAR	GENERAL AREAS
2023	Metro Manila, Metro Cebu, and Metro Davao
2024	Other Metropolitan Areas: (Metro Angeles, Metro Bacolod, Metro Baguio, Metro Batangas, Metro Cagayan de Oro, Metro Dagupan, Metro Iloilo–Guimaras, Metro Naga, and Metro Olongapo)
2025	Other Highly Urbanized, Independent Component Cities, and 1 st Class Component Cities
2026	2 nd to 6 th Class Component Cities
2027	1 st to 3 rd Class Municipalities
	4 th to 6 th Class Municipalities

Illustration only



Milestones in Extended Producer Responsibility (EPR) Implementation Setting up of Online EPR Registry and Portal







esilient Asia and the Pacifi

Track & Trace Collection Transport Diversion Certification

Evergreen Labs offers the same support to EMB and the implemented LGU facilities and is confident that it can activate the unused facilities, improve the operating facilities and facilitate sustainable operations.









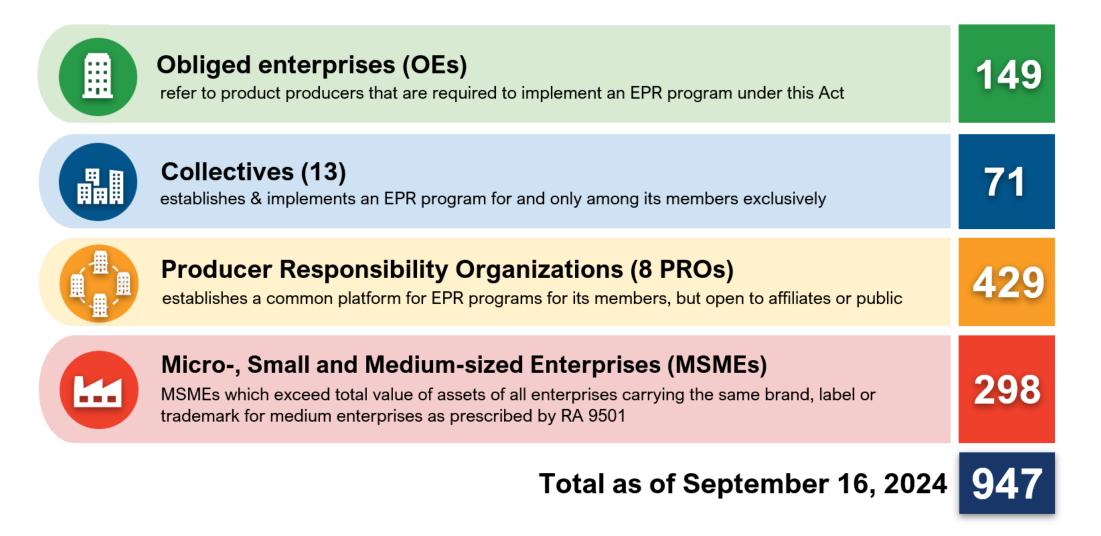








Milestones in Extended Producer Responsibility (EPR) Implementation Status of Submission of EPR Programs



Issuance of DENR Administrative Order No. 2024-04 Compliance Reporting and Auditing Guidelines

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES LAGARMARAN NO KAPALOGIRAN AT LIKAS VAMAN IPR 22 NB DENR Administrative Order No. 2024-04 SUBJECT: COMPLIANCE REPORTING AND AUDIT GUIDELINE

JECT: COMPLIANCE REPORTING AND AUDIT GUIDELINES FOR REPUBLIC ACT NO. 11898 OR THE EXTENDED PRODUCER RESPONSIBILITY ACT OF 2022

Pursuant to Section 11 of Republic Act No. 11890, otherwise known as the "Extended Producer Responsibility Act of 2022," amending for this purpose Republic Act No. 5003, otherwise known as the "Ecological Solid Watse Management Act of 2000," Sections 17.1 and 19 of Department Administrative Order (DAO) No. 2023-52 also known as the "Implementing Rules and Regulations of Republic Act No. 1980," and by virtue of Executive Order No. 192, Series of 1967, the Department of Environment and Natural Resources hereby adopts and promulgates the following Procedures and Guidalines:

SECTION 1. Basic Policy. It is hereby declared the policy of the State to adopt a systematic, comprehensive, and ecological solid waste management program to ensure the protection of public health and the environment, sustainable use of natural resources, and promote solid waste management and resource conservation throughout the country.

SECTION 2. Objectives. These Guidelines, which were developed together with the voluntary support and assistance from the Audit and Assurance Standards Council (AASC) and the Financial and Sustainability Reporting Standards Council (FSRSC), are hereby promulgated to achieve the following objectives:

- 2.1 To provide guidance and templates to Obliged Enterprises (OEs), Collectives, and Producer Responsibility Organizations (PROs), and their respective independent third-party EPR compliance auditors on complying with the requirements of Section 19 and its subsections of the EPR IRR pending the development, adoption and issuance by the DENR of the uniform standards for EPR compliance auditing and reporting and the accreditation rules and procedures for independent third-party EPR compliance auditors;
- 2.2 To serve as phase-in capacity and capability development mechanisms panding the adoption of said uniform standards and accreditation rules referred to in the immediately proceeding section; and
- 2.3 To comply with Section 17.1 of DAO No. 2023-02 that slipulates that the National Ecology Center (NEC), in coordination with the Environmental Management Bureau (EMB), shall monitor and evaluate the compliance

Viergen Avenne, Dillanon, Queson City 1100, Philippicus www.dore.govph OA) Resolution 57 Series of 2023 - Quality hey are also reminded of their possible 298.

idinate closely with the PRBOA through its tandards Council of the Philippines and its the formulation of standards on the EPR reflected in the balance sheets and other IPROs.

ENR DAO No. 2023-02. This Administrative ed to as Annex A of DENR DAO No. 2023the Implementing Rules and Regulations of In Standards of EPR Compliance Reporting id by the Department, it shall replace this RR, EPR Act of 2022.

e. If any provision of this Order shall be held prisons or provisions hereof which are not flect.

All Administrative Orders and other similar hereby revoked, amended, or modified

idministrative Order shall take effect fifteen swspaper of general circulation and upon copy thereof by the Office of the National





Basis for

the Plastic

Reporting

Basis for

the

Target

Diversion

20%

40%

50%

60%

70%

80%

80%

ECAR Due

Date

01 July 2024

(Mon)

30 June 2025

(Mon)

30 June 2026

(Tue)

30 June 2027

(Wed)

30 June 2028

(Fri)

02 July 2029

(Mon)

t+6 months

Implementation of DENR Administrative Order No. 2024-04 Submission of EPR Compliance Audit Report

Obliged enterprises refer to product producers that are required to implement an EPR program under this Act	62	
Collectives (13) establishes & implements an EPR program for and only among its members exclusively	8	50
Producer Responsibility Organizations (8 PROs) establishes a common platform for EPR programs for its members, but open to affiliates or public	7	370
Micro-, Small and Medium-sized Enterprises (MSMEs) Under PRO (MSME/Voluntary Not Required for EPR Audit) MSMEs which exceed total value of assets of all enterprises carrying the same brand, label or trademark for medium enterprises as prescribed by RA 9501	290	
Total as of September 16, 2024	772	

Interventions of Local Government of Manila

City Plan of Action on Marine Litter (CPOA-ML)
City operated Materials Recovery Facility (MRF)
Plastics incentivized collection

-Kolek, Kilo, Kita Para sa Walastik na Maynila

- -Alaskalikasan Wrapper Redemption Program
- -Aling Tindera: A Waste to Cash Program
- -Tapon to Ipon Project
- 4) IEC Campaign on Solid Waste Management
- 5) Regular and daily clean up operations of water bodies



MANILA CITY MATERIALS RECOVERY



ACE PROJECT



UPCYCLED PRODUCTS









Recycling capacity remains inadequate exacerbated by **insufficient facilities and funding** for local governments and stakeholders.

The **informal sector, crucial in this chain, still operates apart from formal systems**, which hampers livelihood improvement within the sector.

The lack of organization and proper data and information management results in the poor quality of information needed to evaluate proper costrecovery and disposal mechanisms for waste management.

City of Manila

- Lack of space for MRF Establishment
- Lack of SWM equipment/technologies





Regional Cooperation:

Sharing of best practices and other relevant information Partnership and collaboration



ADB Support:

 More Capacity Building and other similar activities
Technical assistance to Local

Government Units



Contact information: recordsco@emb.gov.ph Website - <u>emb.gov.ph</u>

