



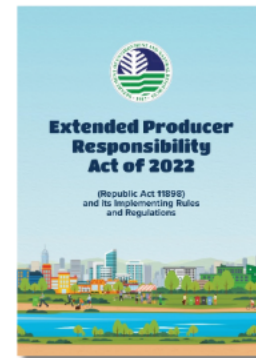
E-WASTE MANAGEMENT PHILIPPINES
LEARNINGS FROM EPR MANDATES & COMPLIANCE TOWARDS
CIRCULAR ECONOMY & ZERO WASTE TO NATURE 2030



EXTENDED PRODUCER RESPONSIBILITY ACT OF 2022

The Extended Producer Responsibility Act of 2022 was adopted into law on **23 July 2022** and was deemed effective on **12 August 2022**.

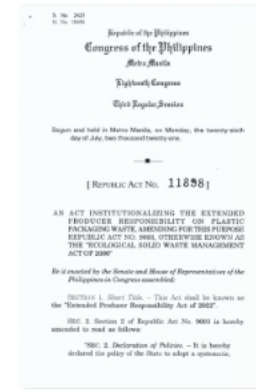
DENR DAO No. 2023-02 IRR RA 11898 January 23, 2023



EPR LAW AND IRR PUBLICATION



DAO 2023-02 IRR EPR



RA11898

Zero Waste to Nature Ambisyon 2030



Rigid and Flexible Packaging Applications

Strategy and Roadmap



2021-2030

For Public Release

Philippine Alliance for Recycling and Materials Sustainability
(PARMS)



Ecological Solid Waste Management Act of 2000

WASTE HIERARCHY

AVOID
(Avoid Generating Waste in the First Place)

REDUCE
(Waste Avoidance, Prevention, Minimization)

REUSE
(Reuse, Refurbish, Recondition)

RECYCLE
(Reduce, COMPOSTING)

RECOVER
(Incineration)

- Mandatory segregation at source (Section 21 RA 9003)
- Mandatory segregated collection; (Section 1 Rule X, IRR)
- Mandatory waste diversion goal of at least 25%; 50% by 2015, 80% 2040 (section 20 RA9003)
- Establishment of Materials Recovery Facilities; (section 32 RA 9003)
- Closure of Open and Controlled Dumpsites by 2006



PARMS ZWTN EPR PROGRAM

Prepared by:

Philippine Alliance for Recycling and
Materials Sustainability

Submitted on February 1, 2023

Compliance EPR Program under
Section 44-E of the EPR Act of 2022

ESTABLISHMENT OF EPR PROGRAMS

Obligated 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:



Reduction of non-environment friendly packaging products



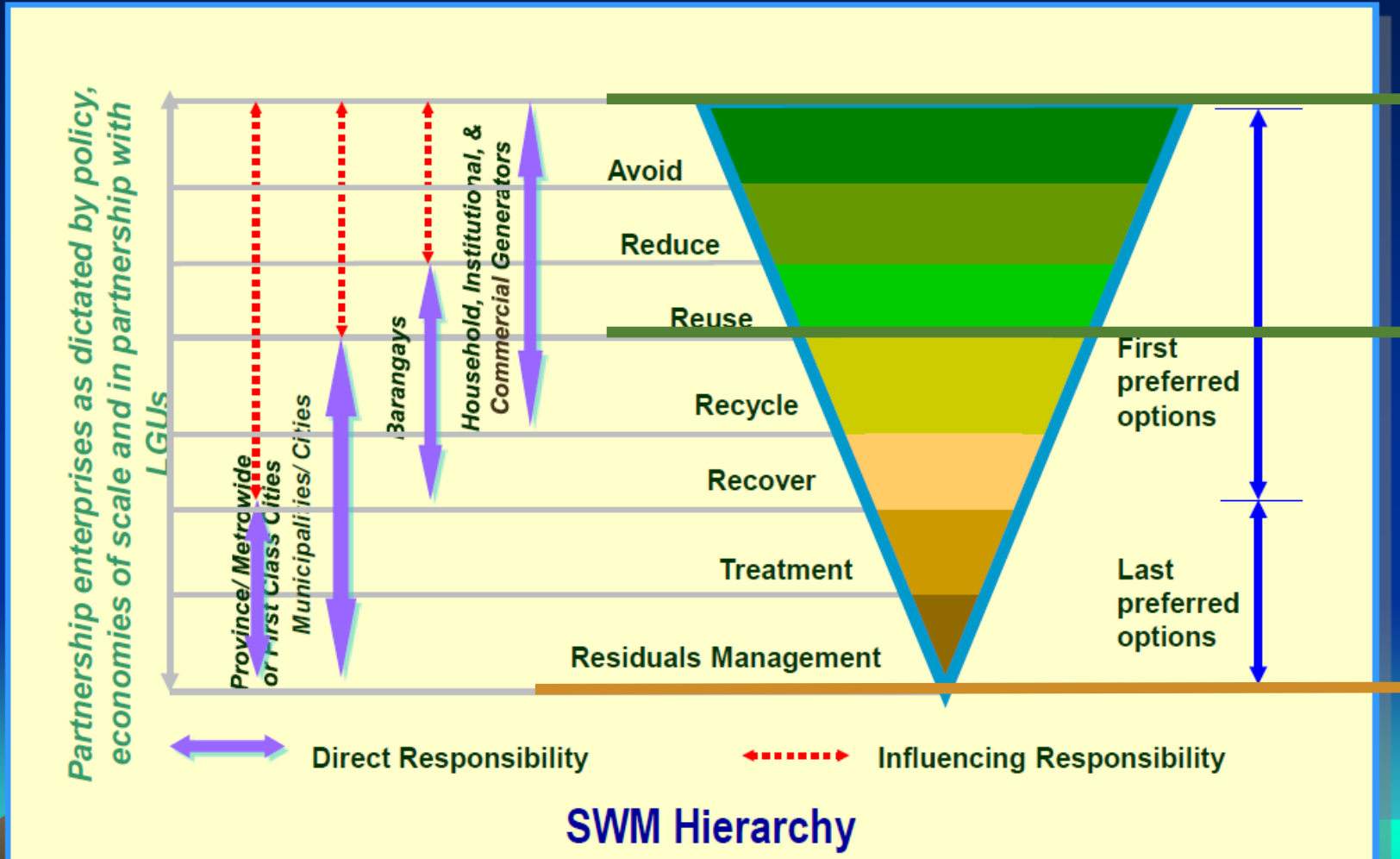
Recovery programs aimed at effectively preventing waste from leaking to the environment

Figure 7. Solid Waste Management Hierarchy

Source: NATIONAL SOLID WASTE MANAGEMENT STRATEGY 2012 – 2016

RA 9003 IRR

NSWM Framework



RA 11898



Reduction of non-environment friendly packaging products



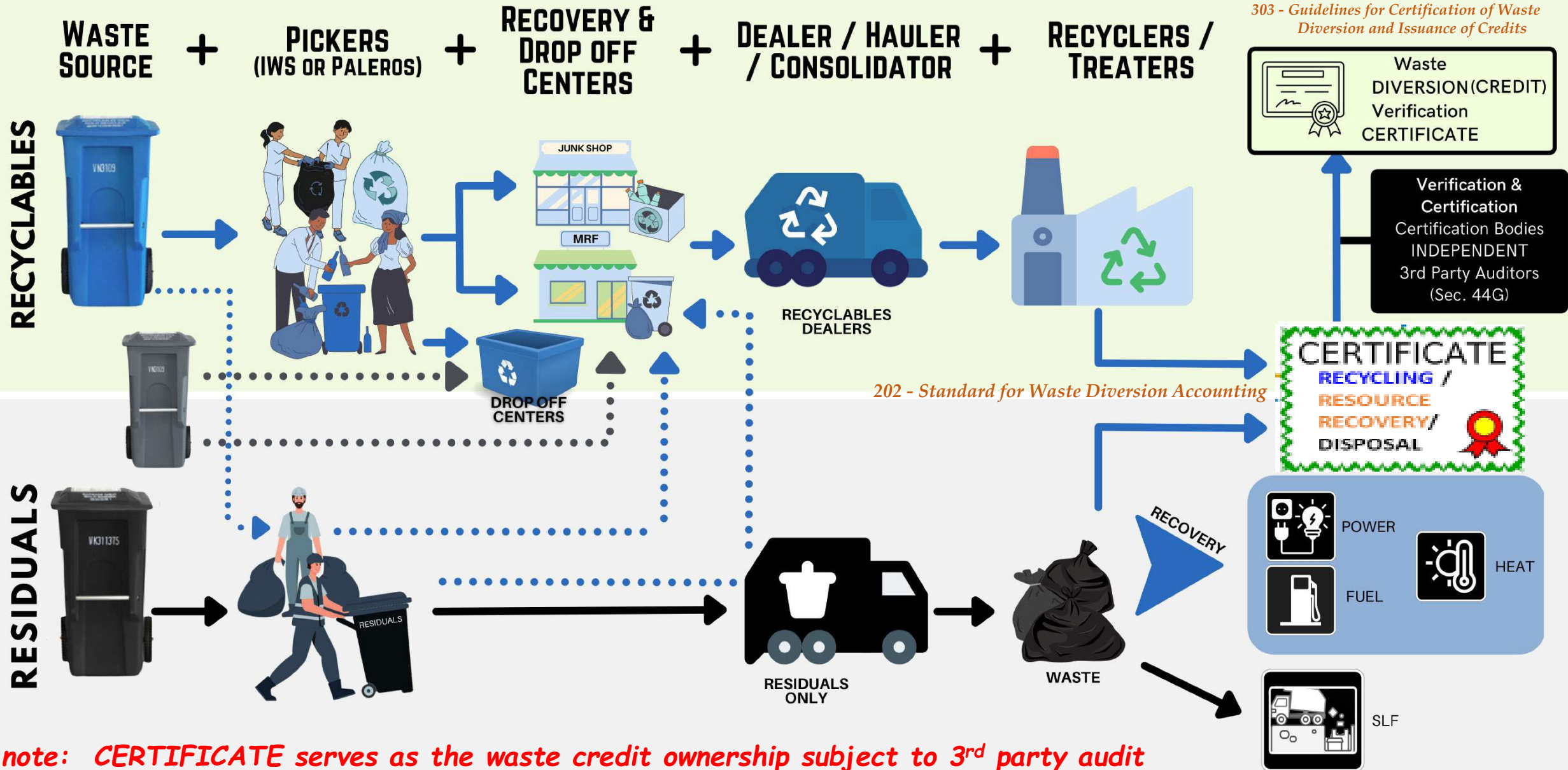
Recovery programs aimed at effectively preventing waste from leaking to the environment

THE WASTE VALUE CHAIN - WASTE DIVERTER

103 - Standard for Waste Diverter

Single ENTITY representation (e.g. Social Enterprise, LGU, Recyclers, Treaters, etc.) that will conform to standards - Inclusive, Standardize, Competitive and Accountable

303 - Guidelines for Certification of Waste Diversion and Issuance of Credits



note: CERTIFICATE serves as the waste credit ownership subject to 3rd party audit



ECAR REPORT



Covered by SGV Audited PARMS ECAR REPORT of COMPLIANT Obligated Enterprises

<https://bit.ly/ECAR-OE-comp>

PRO Name: Philippine Alliance for Recycling and Materials Sustainability (PARMS), Inc.
 EPR Registration No: 2023-P-00001
 Reference Year: 2023

Summary of Accountable Plastic Footprint

	Rigid (kg)	Flexible (kg)
Total accountable plastic footprint	102,268,576.02 kgs	65,429,174.78 kgs

Summary of Accounted Plastic Waste Diverted

	Rigid (kg)	Flexible (kg)
Total accounted plastic waste diverted	25,918,567.39 kgs	28,579,493.26 kgs

Plastic Waste Diversion Accomplishment

	Rigid (kg)	Flexible (kg)
Plastic Footprint	102,268,576.02 kgs	65,429,174.78 kgs
Plastic Waste Diverted	25,918,567.39 kgs	28,579,493.26 kgs
Actual Accomplishment (in %)	25.34%	43.68%
Required Diversion (in %)	20%	20%

EPR Compliance Report Consolidated Audited

Covered by SGV Audited PARMS ECAR REPORT of COMPLIANT Obligated Enterprises
<https://bit.ly/ECAR-OE-comp>

PRO Name: Philippine Alliance for Recycling and Materials Sustainability (PARMS), Inc.
 EPR Registration No: 2023-P-00001
 Reference Year: 2023

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SWORN STATEMENT

We, the undersigned, do hereby certify that the information provided to the Department of Environment and Natural Resources (DENR), Environmental Management Bureau (EMB) pertaining to the EPR Compliance Report above are true and correct to the best of our personal knowledge, and based on the records in our possession. Hence we shall take full responsibility in complying with all the conditions and restrictions contained in the EPR Compliance Report

Crispian Lao
Founding President

Zedrik Avecilla
EPR Program Director

Scan QR code to view ECAR Report of Compliant OEs

<https://bit.ly/ECAR-OE-comp>

SUBSCRIBED and sworn to before me, in Quezon City this 25th day of June, personally appeared with Driver's License id no. N0197217621

IN WITNESS WHEREOF, I have hereunto set my hand and official seal, the day, year, and place above written.

Doc. No. 199
 Page No. 100
 Book of Y
 Series of 2024

ATTY. ROSALINDA ROSARIO M. MENDOZA
 Notary Public
 My Commission Expires on 31, 2025
 IBP No. 1406720242025
 PTA No. 555538 01/03/2024-QC
 IBP OR No. 397268 01/05/2024-Q.C.
 ROLL No. 68465
 MCE Compliance No. VII-0021672 Valid Until April 14, 2025

ECAR Report for ECAR 2024



Footprint Year *

2022

Recovery Year *

2023

Obligated Enterprises

Total Rigid Waste Diversion

Reuse or Repurpose

13,040.00 kgs

Collection

318,686.02 kgs

Mechanical Recycling

19,302,497.54 kgs



Alternative Recycling

2,369,292.70 kgs



Co-processing

3,915,051.13 kgs

Waste-to-Fuel

0.00 kgs

Waste-to-Energy

0.00 kgs

Disposal (Sanitary Landfill)

0.00 kgs

Total Rigid Diversion

25,918,567.39 kgs

ECAR Report for ECAR 2024



Footprint Year *

2022

Recovery Year *

2023

Obligated Enterprises

Total Flexible Waste Diversion

Reuse or Repurpose

21,650.00 kgs

Collection

392,805.75 kgs

Mechanical Recycling

392,249.86 kgs



Alternative Recycling

501,510.96 kgs



Co-processing

26,673,517.69 kgs



Waste-to-Fuel

0.00 kgs

Waste-to-Energy

0.00 kgs

Disposal (Sanitary Landfill)

597,759.00 kgs

Total Flexible Diversion

28,579,493.26 kgs

Challenges and Opportunities

- ❖ Integration and Documentation of the Informal Sector activities
- ❖ Current Policy Framework on E-waste (Hazwaste) vs MRF operations
- ❖ economic feasibility of a stand-alone/ specialized e-waste MRF set-up
- ❖ Stakeholder participation at the LGU and CONSUMER level
 - ✓ Strong RECOVERY for RECYCLING SYSTEM for recyclable goods
 - ✓ Potential for INVESTMENTS and GREEN JOBS
 - ✓ Increasing Education and Consumer Awareness



Crispian Lao

NSWMC Vice Chair/Commissioner
(Recycling Sector)

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PARMS (Recycling Alliance) President

crispian@parms.com.ph

Together we will make a difference



The significant problems we have cannot be solved at the same level of thinking with which we created them.

Albert Einstein

