



Ho Chi Minh City_ Viet Nam

Enhancing plastic packaging collection, sorting and recycling in HCMCity

Duration: 09/2020– 02/2022

Volume: EUR 165 000

Implemented by: IRD & HAU

French National Research Institute for Sustainable Development



Enhancing plastic packaging collection, sorting and recycling in HCM City

Description of the post-consumer plastic packaging value chain in a commune from a rural district of HCMC: Implications for EPR implementation

FACTSHEET #2

EPR MECHANISM: DECREE INSIGHTS

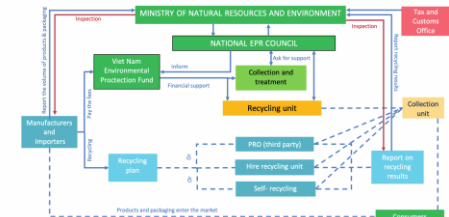
Objective
 This factsheet aims to present the main contents of the EPR mechanism in Vietnam according to the legal framework and its roadmap. It is based on the Law of Environmental Protection LEP 72/2020/QH14 and the Decree No. 08/2022/ND-CP issued on 10 January 2022.

1. GENERAL EPR MECHANISM

The EPR scheme for packaging was first introduced in Vietnam the LEP 72/2020/QH14 in 2020, under

- Article 54. Recycling responsibilities of producing and importing organizations and individuals
- Article 55. Responsibilities for waste collection and treatment of producing and importing organizations and individuals

The decree No. 08/2022/ND-CP issued on 10 January 2022, especially the chapter VI on responsibilities for recycling, products and packaging responsibilities of manufacturing and importing organizations and individual through twelve Articles, i.e. Article 77 to Article 88, is providing the general EPR mechanism.



▲ Figure: General Vietnamese EPR scheme adapted according to LEP 72/2020/QH14, Article 54, Article 55



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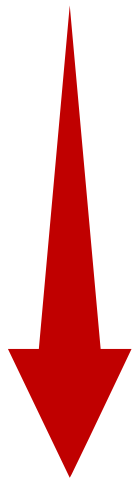


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OBJECTIVES

- Current system for plastic waste management



Different approaches: territorial, stakeholders, evidence-based, legal, support



Improving the knowledge & understanding of the current system



Provide key recommendations on specific topics

- Extended Producer Responsibility for products and packaging



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Rethinking Plastics

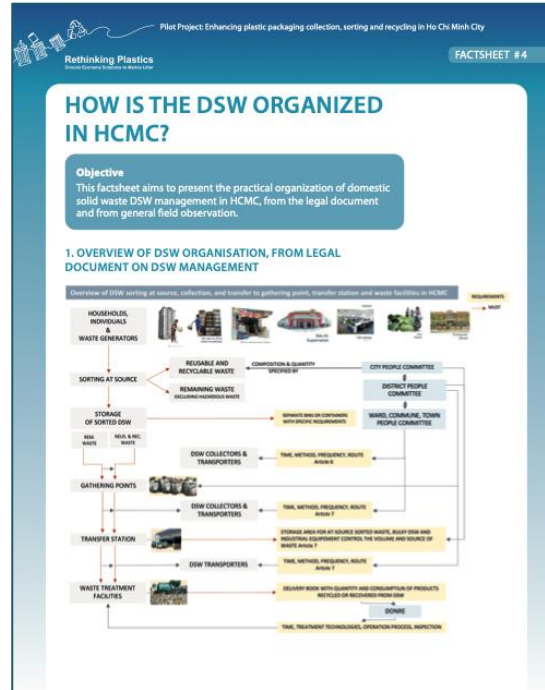
Circular Economy Solutions to Marine Litter



Stakeholders approach along the post-consumers plastic packaging value chain



- Local authorities
 - DONRE,
 - SWM departments
- Waste generators
- Collectors
- Gathering points
- Aggregators
- Recyclers



- Online social survey summer 2021
- Social survey ENDA November 2021

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Result 2: Managing plastic waste, including EPR and deposit return schemes for packaging and plastic products, following waste hierarchy

Pilot project: Enhancing plastic packaging collection, sorting and recycling in HCMC

INTEGRATION OF THE INFORMAL SECTOR INTO THE IMPLEMENTATION OF EXTENDED PRODUCER RESPONSIBILITY

NGUYEN THI HOAI LINH
ENDA VIETNAM

This project is funded by the "Rethinking Plastics - Circular Economy Solutions to Marine Litter" project of the European Union and the German Federal Ministry for Economic Cooperation and Development (BMZ). "Rethinking Plastics" is implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and Expertise France. More information: <https://gizprojectcollaboration.eu/rethinking-plastics/>

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SURVEY REPORT WASTE AUDIT

The current situation of waste sorting, collection, transfer & recycling plastic waste and solutions in HCMC

NGUYEN THI HOAI LINH
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Evidence-based approach



- Plastic quality: polymer identification: PET, PE, PVC, PP, PS



MicroPHAZIR: Portable NIR spectrometer

- Plastic quantity: weight and respective percentage of polymers
- Development of Plastic Go smartphone application to record data



Plastic GO Smartphone application



IDENTIFYING PLASTIC PACKAGING POLYMERS IN WASTE

Objective
This factsheet aims to present the microPHAZIR Analyser tool used during the Pilot Project to identify easily the plastic polymer composition in waste at Waste Generators, Gathering Sites and Aggregators levels. This tool is portable, easy to use, reliable and fast.

CONTEXT

In Vietnam, so far the sorting of waste is manual. There is no automatic sorting plants using near-infrared scanning. Therefore, the waste sorting is not systematic, is not necessarily based on the polymer type and its efficiency is unknown. Few informations are also available on the waste composition, including the sorted waste and the discarded waste.

APPLICATION

The polymer composition of the packaging waste at household level is analyzed using the microPHAZIR device in the Long Thoi Commune.

microPHAZIR Analyser
Thermo



PLASTIC GO: AN APP TO FACILITATE WASTE AUDIT

Objective
Data acquisition during waste audit can be tedious for both auditors and stakeholders to audit. PlasticGO App was specifically designed for the stakeholders, who can enter their data autonomously; PlasticGO is practical, reliable, user friendly and limit the errors due to data processing.

WHAT IS PLASTICGO FOR?

The Pilot Project aimed to identify the plastic packaging polymers wasted, sorted and collected and to assess their flow from Waste Generators, Collectors to Aggregators. Frequent data acquisition was required at various stakeholders. PlasticGO is facilitating the acquisition: each stakeholder enter autonomously its waste audit. The acquisition is thus practical, reliable, user friendly, fast and limit the errors due to data processing.



WHO IS PLASTICGO FOR?

Plastic GO was specifically designed for the Waste generators or Consumers, the Recyclable Collectors, and the Aggregators. Each category enters its specific data.



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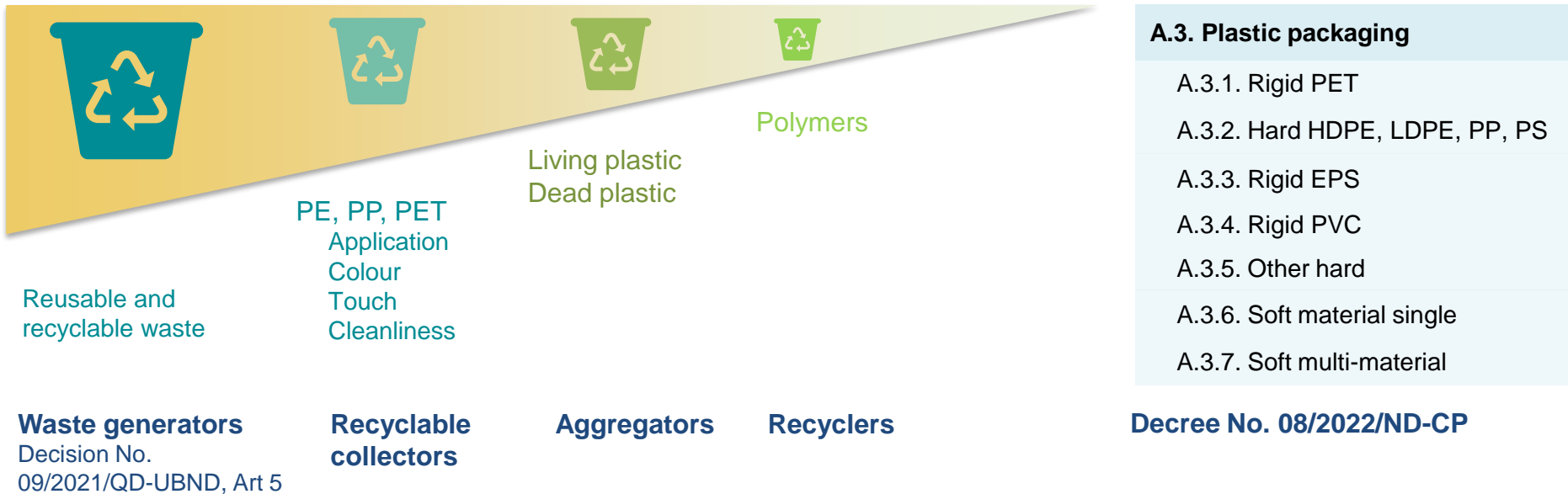
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Plastic waste categorization



- **Loss of plastic to be recycled because of lack of harmonised definition / categorisation of a valuable and non valuable plastic for recycling**
- **The list of plastic packaging targeted by the Decree No. 08/2022/ND-CP respects both the types of packaging used by waste generators and the technical needs and capacities of recyclers. This list should be the reference for waste operators**



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Plastic waste traceability



No accountancy

No official accountancy
No business licence

Official accountancy
Difficulty to get red invoice for purchased waste

Article 80

Manufacturers and importers shall register their annual recycling plans and **report the previous year's recycling results** to MONRE.

Traceability of volume recycled required

Waste generators

Decision No. 09/2021/QD-UBND, Art 5

Recyclable collectors

Aggregators

Recyclers

Decree No. 08/2022/ND-CP

Lack of recyclable waste traceability:

- **Current important constraint for recyclers**
- **Important risk for EPR implementation and reporting volume by manufacturers and importers**



Formalization and integration of collectors & aggregators



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Improving waste sorting



➤ Large part of recyclable waste go to landfill



➤ Sorting-at source is not automatic

Waste generators Decision No. 09/2021/QD-UBND, Art 5



Raising awareness campaign, adapted to the DONRE needs and constraints for the EPR implementation



Enhancing the spatial organization and attractiveness of collection point



Team

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THANK YOU