

Zero Waste Live!



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**CHEMICAL RECYCLING: WHAT IT IS AND DOES IT
FIT INTO THE CIRCULAR ECONOMY?**



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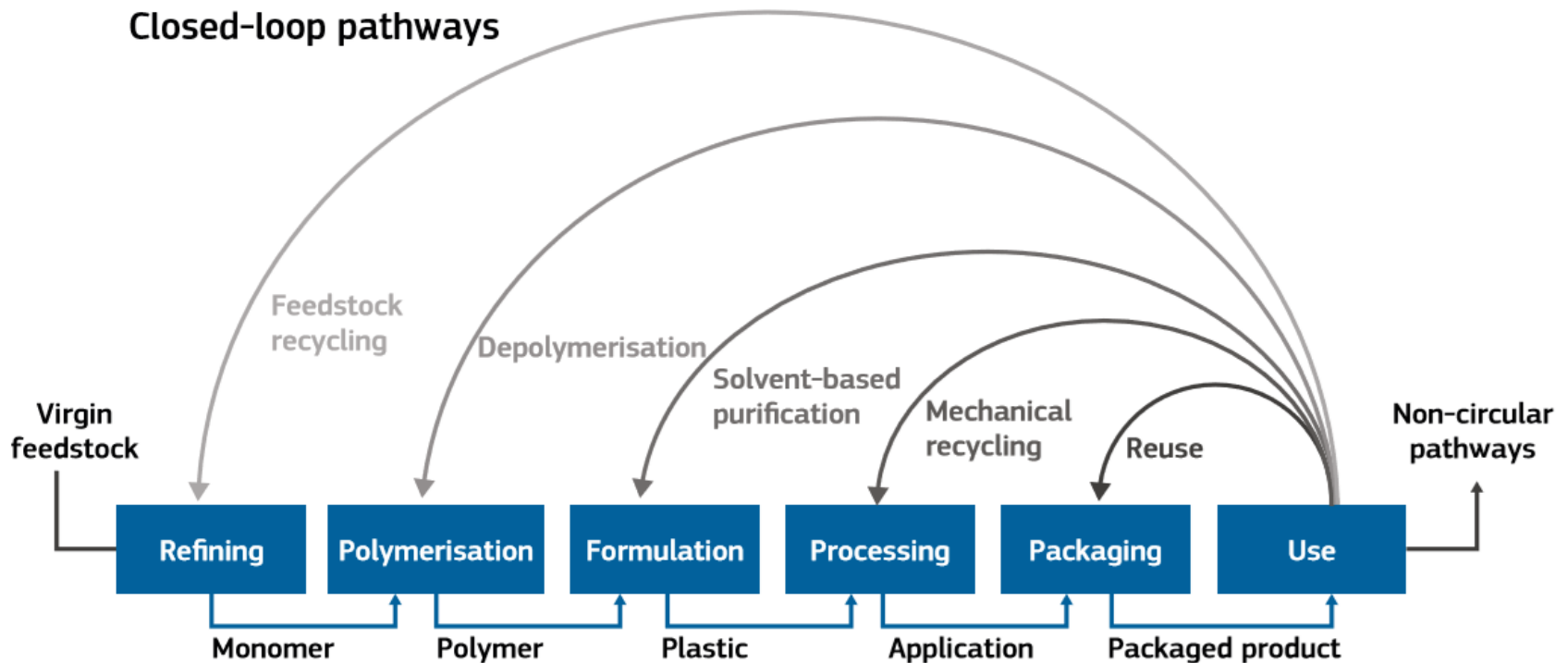
European
Commission

Chemical Reprocessing: *Regulatory framework from an EU waste policy perspective*

***Rozalina Petrova
European Commission
DG ENV B3***

Brussels, 12 November 2019

Loops for Plastics in a Circular Economy: *Keeping the value for as long as possible*



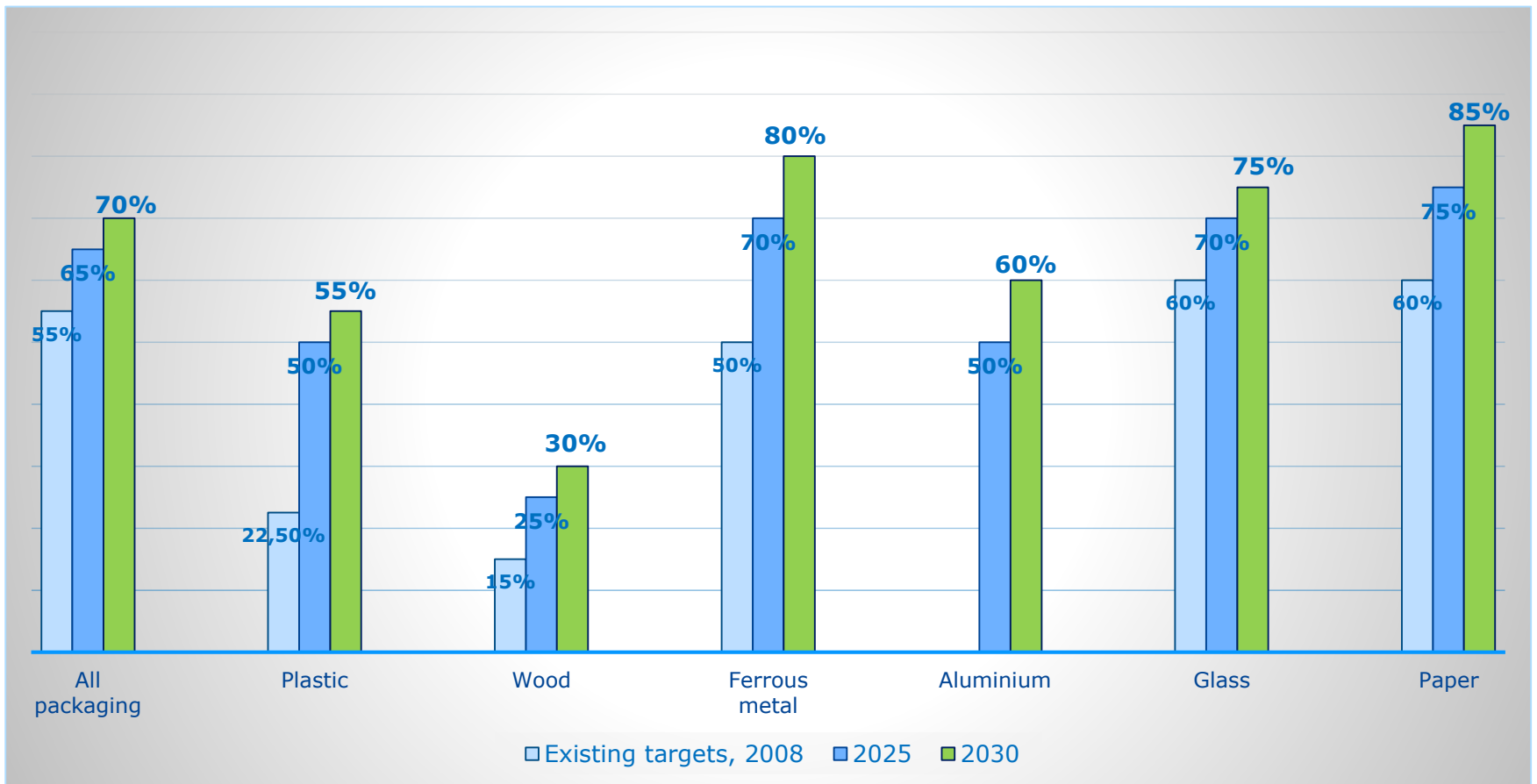
<https://publications.europa.eu/en/publication-detail/-/publication/33251cf9-3b0b-11e9-8d04-01aa75ed71a1/language-en/format-PDF>

Waste Legislation: Definition of Recycling

'recycling' means any recovery operation by which waste materials are reprocessed into **products, materials or substances whether for the original or other purposes**. It includes the reprocessing of organic material **but does not include energy recovery and the reprocessing into materials that are to be used as fuels** or for backfilling operations

Art. 3 (17) of Directive 2008/98/EC on waste

Packaging waste recycling targets



Waste Legislation: Calculation Point for Recycling

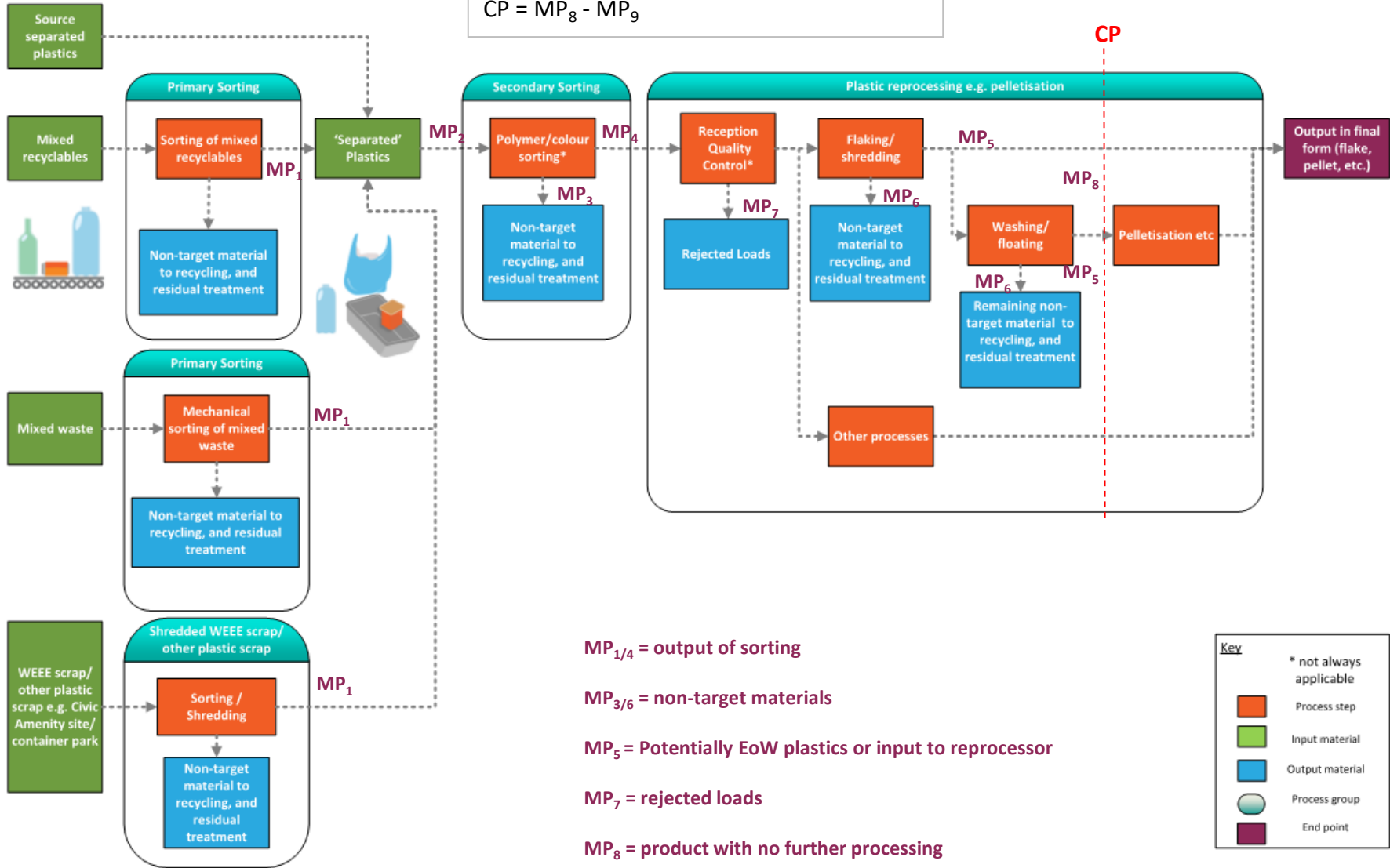
The weight of waste which, having **undergone all** necessary checking, sorting and other **preliminary operations** to remove waste materials that are not targeted by the subsequent reprocessing and to ensure high-quality recycling, **enters the recycling operation** whereby waste materials are actually reprocessed into products, materials or substances.

Plastics Flow Chart

$$CP = MP_{1\text{or}2} - MP_3 - MP_6 - MP_7 - MP_9$$

$$CP = MP_{4\text{or}5} - MP_6 - MP_7 - MP_9$$

$$CP = MP_8 - MP_9$$



- MP_{1/4}** = output of sorting
- MP_{3/6}** = non-target materials
- MP₅** = Potentially EoW plastics or input to reprocessor
- MP₇** = rejected loads
- MP₈** = product with no further processing
- MP₉** = non-target material present @ the CP

Key

- * not always applicable
- Process step
- Input material
- Output material
- Process group
- End point

More information available here:
<http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupMeetingDoc&docid=21096>

Waste Legislation: Calculation Rules for Recycling

Where packaging waste materials enter recovery operations whereby those **materials are not principally used either as a fuel or other means to generate energy, or for material recovery**, but result in output that includes recycled materials, fuels or backfilling materials in significant proportions, **the amount of recycled waste shall be determined by a mass balance approach which results in taking account only of waste materials that are subject to recycling.**

Implementing Act under PPWD, Article 6c (1) (i)

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2019.112.01.0026.01.ENG

Other key EU initiatives

- **EU Plastics Strategy**
- **Directive on the reduction of the impact of certain plastic products on the environment: Binding targets on recycled content**
 - ✓ **As of 2025: at least 25% in PET single use beverage bottles**
 - ✓ **As of 2030: at least 30% in all plastic single use beverage bottles**
- **EU legislation on food contact materials**
- **MFF: own resource based on non-recycled plastic packaging waste**

Future Developments:

Review clauses in the new waste legislation

End 2020	Review essential requirements for packaging; Review of ELV Directive
End 2022	Set EU waste oil recovery targets
End 2023	Set EU food waste reduction targets
End 2024	Introduce additional waste prevention measures , including EU waste reduction targets
	Set EU preparation for re-use and recycling targets for construction & demolition waste, textile, commercial, non-hazardous industrial waste, municipal bio-waste and other waste streams.
	Measures to regulate, including through restrictions, waste disposal operations
	Review packaging waste recycling targets
End 2028	COM proposal to review 2035 MSW recycling target, including calculation rules
-	Review of Batteries and WEEE Directives

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Thank you for your attention

