

Packaging EPR fee in EU: What are the differences?



Overview and comparison of PRO fees of
January 2026.

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1. Introduction

Packaging waste has seen a substantial increase across the European Union, growing by over 20% in the last ten years.¹ This upward trend presents major environmental concerns, as inadequate waste management can lead to pollution, ecosystem damage, and elevated greenhouse gas emissions.² Packaging also remains a heavy consumer of raw materials, representing 40% of all plastic use and 50% of paper consumption in the EU. If left unaddressed, packaging waste is projected to rise another 19% by 2030, potentially derailing efforts to build a low-carbon, circular economy.³

To address these concerns, the EU has introduced various policy measures aimed at curbing packaging waste. The Packaging and Packaging Waste Directive (PPWD), launched in 1994, marked the beginning of a coordinated approach to waste management. This evolved into the Extended Producer Responsibility (EPR) framework, which was strengthened by Directive 2018/851. EPR holds producers accountable - both financially and operationally - for the entire lifecycle of their packaging. A subsequent revision, Directive 2018/852/EC, mandates that all EU countries adopt specific EPR systems for packaging by 2025. These programs, typically operated by Producer Responsibility Organizations (PROs), require industry players to contribute toward the environmental costs associated with packaging waste.

In a bid to accelerate waste reduction, the EU adopted the Packaging and Packaging Waste Regulation (PPWR) on 19 December 2024. The regulation promotes a circular and efficient packaging economy. It aims to reduce the consumption of virgin raw materials, ensure full recyclability of all packaging by 2030, integrate safe use of recycled plastics, and reach climate neutrality by 2050. The PPWR applies across the entire packaging value chain and seeks to unify national standards for production, reuse, and recycling. It is anticipated to deliver reductions in greenhouse gas emissions, water use, and environmental and health hazards.⁴ It entered into force on 11th February 2025 and applies from 12th August 2026.⁵

As this policy framework evolves, diverse EPR models have taken shape across EU member states, shaped by their unique economic and administrative contexts. A core feature of these systems is the use of environmental fees, which fund collection, sorting, and recycling efforts. These fees differ by packaging material and environmental footprint, making their assessment critical for evaluating cost efficiency and policy impact.

This report analyzes fees for 17 packaging solutions across 25 PROs to compare trends and identify patterns.

¹ https://ec.europa.eu/commission/presscorner/detail/en/ip_22_7155

² <https://climate.mit.edu/ask-mit/would-stopping-plastic-pollution-help-climate-change-how-do-we-do-it>

³ https://ec.europa.eu/commission/presscorner/detail/en/ip_22_7155

⁴ https://green-business.ec.europa.eu/news/new-eu-regulation-promotes-procurement-sustainable-packaging-2025-02-27_en#:~:text=The%20PPWR%2C%20which%20entered%20into,for%20climate%20neutrality%20by%202050.

⁵ <https://eur-lex.europa.eu/EN/legal-content/summary/packaging-and-packaging-waste-from-2026.html>

2. Methodology

2.1. Calculation Method

The packaging solutions and examined PROs were pre-defined in order to cover a wide spectrum of different materials, use cases and actors. The following figure shows the 17 different packaging solutions.














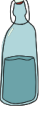



	B2C	B2B
Plastic	 Transparent PET bottle 35g bottle 2g cap  Printed LDPE bag 5g  Coffee Capsule (PP) 4,4g	 Stretch film HDPE 1kg
Bio-Plastic	 Shopper bag 7g  Coffee Capsule 3g	
Aluminium	 Drinking can 33cl 13g  Tray 13,7g  Thin sheet 28g  Coffee Capsule 1,7g	
Paper / Cardboard	 Milk beverage carton 1 liter 30g paper 8g PE 2g aluminium  Paper cup cold drinks 40 cl 9,1g paper 0,9g PE	 Cardboard box 222g
Glass	 Transparent glass water bottle 75 cl 480g glass 0,6g aluminium cap	
Steel	 Canned food 44g	
Wood		 Wooden box 800g
Reusable	 Reusable Plastic bag (Cabas) 112g	

Figure 1: Overview of the 17 packaging solutions.

Moreover, please find the PROs that were taken into account in the table below:

Table 1: List of the 25 PROs with fees already published.

Country	PRO
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Austria	ARA
Belgium	Valipac
Belgium	FostPlus
Bulgaria	ECOPACK
Czech Republic	EKO-KOM
Estonia	ETO
Finland	Finnish Packaging Producers (FPP)
Finland	Sumi Oy (independent from Riinki since 2026)
France	CITEO
France	CITEO Pro
Germany	Reclay
Germany	BellandVision
Greece	H.E.R.R.C.O
Ireland	Repak
Italy	CONAI
Luxembourg	VALORLUX
Macedonia	Pakomak
Malta	GreenPak
Netherlands	Verpact
Portugal	Sociedad Ponto Verde (SPV)
Romania	ECO-ROM
Spain	ecoembes
Spain	ecoembes Comerciales/GENCI
Sweden	Näringslivets Producentansvar (NPA)
UK	Valpak

Please note that the fee indicators were not calculated for the following countries / PROs, as no indicators for 2026 were available yet (as of 23th March 2026). Please find details below:

- **Rekopol (Poland):** We enquired with the PRO and received the following response: “Rekopol doesn’t publish their fees for the takeover of recycling obligation since they’re considered our trade secret and are set individually for each client.”
- **Dansk Producent Ansvar (Denmark):** Their fees will usually be published in the second half of the year.
- **Green Dot Cyprus (Cyprus):** We reached out, but did not receive a response yet.
- **SLOPAK (Slovenia):** We reached out, but did not receive a response yet.

For the calculation, the fee indicators of the individual materials were identified on the respective PRO website. The fee indicators were given by weight, so that the indicator was multiplied by the respective weight of the product for the calculation. In some countries, other fees and discounts were also added/subtracted. For bioplastics, only seven PROs applied a distinct material-specific fee: ARA (Austria), FostPlus (Belgium), Sumi Oy (Finland), CONAI (Italy) and Ecoembes (Spain). In all other cases, bioplastics were subject to the general plastic fee. Regarding the “Milk beverage carton” packaging category, nearly all PROs implemented a dedicated fee structure for

beverage cartons or composite packaging, with the exception of Valipac (Belgium), Repak (Ireland), GreenPak (Malta), Eco-Rom (Romania), GENCI (Spain), NPA (Sweden), and the UK, where no such differentiation was observed. When no specific fee exists for beverage cartons/composite packaging, the calculation was made using the fee of the prevalent material (paper/cardboard).

Beginning with this report, new packaging solutions were introduced; specifically, coffee capsules and a reusable plastic bag, whose calculations differ slightly from the standardized approach.

As noted in the introduction, the new PPWR will take effect on 12th August 2026. From that date, coffee capsules will be classified as packaging. However, even though they are currently, as of February 2026, **not** considered packaging when disposed of together with coffee residues, they will still be included in the calculation as regular packaging. Some countries use a simplified declaration for these packaging types. The respective indicators are listed below. However, please notice that for the comparison with other packaging solutions and PROs, the detailed declaration form on material basis was used.

Table 2: Overview of simplified calculation options for coffee capsules

Country, PRO	Indicator for capsules / coffee packaging
Belgium, FOST PLUS (Starting 12/08/26)	Beverage capsules – aluminium: 3,5525 EUR / kg Beverage capsules – plastic: 3,8414 EUR / kg Beverage capsules - compostable plastic: 4,4190 EUR / kg
France, CITEO	P010301 – Coffee, tea and other instant drinks and sirups 0,0185 EUR / unit - With shipping packaging: 0,0385 EUR / unit
Luxemburg, VALORLUX	A04 Coffee, tea and other instant drinks: 0,007852 EUR / unit

For the reusable bag, there are different treatments across the different member states.

- Austria: Carrier bags count as household packaging. They are not considered reusable as they will not be returned back to the producer. Calculated like a normal plastic bag.
- Belgium (FostPlus): It is assumed that the bag is $\geq 50\mu$ and not returned to producers, thus applying the respective fee indicator (carrier bag, one-way, $\geq 50\mu$).
- Bulgaria (ECOPAK): According to Art. 1a(3)(1), plastic carrier bags with a thickness of $\geq 25 \mu\text{m}$, meeting the minimum size requirements and clearly marked as reusable are exempt from the product fee.

- Czech Republik (EKO-KOM): It is assumed that no collection/redistribution system exists; thus, bags are not considered reusable. Normal plastic bag fee applies.
- Estonia (ETO): Falls under the definition of “reusable packaging”; thus, it is not subject of reporting.
- Finland (FPP): “Reusable polypropene tote bags are products, not packaging. They are not reported on the packaging declaration form.”⁶
- Finland (Sumi Oy): Shopping bags are included in Class A.
- France (CITEO): Reuse-bonus doesn’t apply as there is no take-back-system. Normal plastic bag fee applies.
- France (CITEO PRO): Reuse-bonus doesn’t apply as it is assumed that there is no deposit on the bags. Normal plastic bag fee applies.
- Germany (Bellandvision + Reclay): A court ruling has established that reusable bags are subject to system participation obligations and therefore fall under EPR fees.⁷
- Greece (H.E.R.R.C.O): According to Greek Law 4819/2021, reusable packaging is subject to eco-modulation, but is not exempt from packaging fees. However, since the currently available fee schedules do not specify modulation factors for reusables, the plastic indicator was applied as a proxy.⁸
- Ireland (Repak): “Bag for Life” counts as packaging, thus falls under the EPR fee.⁹
- Italy (CONAI): According to the “List of plastic packaging in the fee bands”, reusable plastic bags count as packaging and fall under Band B2.2 (p. 12).¹⁰
- Luxembourg (Valorlux): The bag doesn’t fall under the definition of “reusable”. Normal plastic bag fee applies.
- Macedonia (Pakomak): According to the Law on Management of Packaging and Packaging Waste, there is no prescription that reusable bags are excluded from the fees.¹¹
- Malta (GreenPak): According to the Law on Waste Management (Packaging and Packaging Waste), there is no prescription that reusable bags are excluded from the fees.¹²
- Netherlands (Verpact): A “Big Shopper” doesn’t count as packaging; thus, no fee is applied.¹³
- Portugal (Pontoverde): Doesn’t fall under the definition of reusable packaging as it is not returned to the store. Normal plastic bag fee applies.

⁶ <https://rinkiin.fi/en/producer-responsibility/faqs-about-producer-responsibility/>

⁷ https://www.verpackungsregister.org/fileadmin/files/Presse/PM/20250318_PM_Permanenttragetasche.pdf

⁸ <https://www.ecolex.org/details/legislation/law-no-48192021-on-integrated-framework-for-waste-management-lex-faoc211896/?type=legislation&xsubjects=Energy&page=170>

⁹ https://repak.ie/images/uploads/downloads/Packaging_and_Non-Packaging_List.pdf

¹⁰ https://www.conai.org/wp-content/uploads/2025/12/Lists-plastic-packaging_fee-bands_1-January-2026.pdf

¹¹ <https://arhiva.moepp.gov.mk/wp-content/uploads/2014/10/LAW-ON-MANAGEMENT-OF-PACKAGING-AND-PACKAGING-WASTE.pdf>

¹² <https://legislation.mt/eli/si/549.43/eng/pdf>

¹³ <https://www.verpact.nl/nl/verpakkingencatalogus/big-shopper>

- Romania (ECO-ROM): We enquired with the PRO and got the following response: “They fall under the EPR legislation, they are declared on their first use”. Normal plastic bag fee applies.
- Spain (Ecoembes): The PRO has a special fee indicator for it “Bolsas UNE”, meaning reusable bags with high recycled content for transporting products made of PE.
- Spain (GENCI): As GENCI focuses on industrial packaging, no specific fee indicator is listed and it is treated as plastic packaging.
- UK: Carrier bags do not fall under EPR scheme when they are sold to end user as a product (“for example, bag for life”).¹⁴

The detailed calculation for the different packaging solutions for January 2026 can be found in the annex.

The products were categorized into B2C and B2B segments. B2C products were analyzed for PROs specializing in household packaging, while B2B products were assessed both for PROs exclusively managing industrial packaging and for those primarily focused on household packaging but offering distinct fee structures for industrial packaging as well.

The aggregate fee indicator for each PRO was determined by summing all 14 B2C or all three B2B fee values. This indicator was also weighted based on the percentage share of each material in the total packaging placed on the market. For instance, if plastic constitutes 17 % of the total packaging market, its fee indicator was weighted by a factor of 0.17 before being incorporated into the overall aggregate fee indicator. The packaging volume data was primarily sourced from Eurostat¹⁵, except for the UK, where Statista¹⁶ was used as the reference.

All fee values are expressed in euro cents.

For the following countries, the calculation approach was slightly different:

- CITEO (France): CITEO uses an articulated mechanism to calculate fees per material with detailed formulas. In 2026, the PRO also introduced new tariffs for recycling and reuse. For the reusable bag, however, the reuse bonus was not applicable as there is no take-back-system in place. As no additional information were at hand about awareness campaigns or reduced packaging etc., no bonuses or maluses were applied. CITEO also introduced additional fixed fees per packaging category (Food (excluding beverages), Beverages, Non-food). Please note, however, that the approach for CITEO Pro (B2B) corresponds to the usual approach used for the other countries (fee indicator per weight * weight).

¹⁴ <https://npwd.environment-agency.gov.uk/FileDownload.ashx?FileId=ba140189-21c2-40d6-99c5-a8d8add8a4d6>

¹⁵ https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_15114556/default/table?lang=en

¹⁶ <https://www.statista.com/statistics/476098/packaging-waste-and-recycling-uk/>

- BellandVision (Germany) and Reclay (Germany): A license calculator from all PRO websites was used, as it allows to calculate the fee value according to each material's quantity put on the market.
- Valpak (UK): An average estimated cost value per material was used, as the national system is dynamic and prices vary continuously in relation to the market's performance of raw materials and the recycling cost (the fee for material is replaced by Certificates attesting the recycling quantities -Packaging Recycling Notes, PRN - at the expense of each obliged entity). The most recent published values (week of 9th January 2026) were used.

For some countries (in particular those East-European), the fee's value declared in local currency has been converted into euro currency of the period considered at the exchange. Please note that Bulgaria has adopted the euro as its currency, so fees may differ, in addition to general fee changes. For countries where a Deposit Recycling System for Recycling (DRS) is active, for the Main PRO the value of the fee was calculated with reference to packaging of equivalent in weight and materials.

In UK it is now in place that additional EPR fees need to be paid by large producers.¹⁷ The EPR fees are for the costs associated with managing packaging waste. The current PRN fees are associated with recycling and go directly to reprocessors or exporters accredited to issue PRNs. PRNs are determined by market forces.

2.2. Sources for the recycling rates

The recycling rates in chapter 5 were primarily sourced from the [Eurostat database](#). It should be noted, however, that the most recent data available from Eurostat dates back to 2023. While some PROs and national sources have published more recent figures, the 2023 Eurostat data was used consistently to ensure comparability across countries.

For the following countries the approach was slightly different:

- Bulgaria, Cyprus and Romania: The value from 2022 was taken as no 2023 value was published.
- UK: Since Eurostat lacked data for the UK, a weighted average recycling rate was calculated based on material-specific recycling rates reported in a national news source. The overall rate was derived by weighting each material's recycling rate by its share in the total packaging market.¹⁸

¹⁷ <https://www.valpak.co.uk/epr-drs/epr-for-packaging/>

¹⁸ <https://www.businesswaste.co.uk/your-waste/packaging-waste-recycling/packaging-waste-facts-and-statistics/#:~:text=Around%20%20million%20tonnes%20of.wood%2C%20and%20other%20material%20packaging>

3. Aggregate Fee Indicators

3.1. Aggregate fee indicators January 2026 for B2C products

The table below shows the aggregate fee indicators. All values are presented in euro cents. They were determined according to the calculations in chapter 2. The grey italic values represent the simplified calculation values for the respective packaging solution, but they are not included in the aggregate fee indicator. Fee indicators can be found in chapter 2.1. Moreover, the detailed calculations can be found in the annex.

Table 3: Aggregate fee indicators in cents for B2C products in January 2026

Countries	PRO	Plastic			Bioplastic		Aluminum				Paper		Glass	Steel	Reusable plastic bag	Aggregated fee indicator	Weighted aggregated fee indicator
		Bottle	bag	Coffee caps.*	Shopper	Coffee caps.*	Can	Tray	Thin sheet	Coffee caps.*	Beverage Carton	Paper cup	Bottle	Can			
Macedonia	PAKO-MAK	0,18	0,02	0,02	0,03	0,01	0,07	0,08	0,16	0,009	0,20	0,04	2,66	0,20	0,55	3,69	0,79
Finland	FPP	1,01	0,11	0,16	0,25	0,11	0,04	0,04	0,08	0,011	0,65	0,16	3,65	0,13	0,00	6,40	0,95
Ireland	REPAK	0,63	0,08	0,07	0,12	0,05	0,01	0,01	0,03	0,002	0,68	0,17	1,11	0,30	1,90	3,27	1,34
Romania	ECO-ROM	0,56	0,05	0,04	0,06	0,03	0,21	0,22	0,44	0,027	0,35	0,09	5,00	0,39	1,01	7,45	1,47
UK	Defra	1,06	0,14	0,13	0,20	0,09	0,01	0,01	0,02	0,001	0,00	0,03	5,52	0,003	0,00	7,20	1,47
Greece	H.E.R.R.C.O	0,66	0,44	0,43	0,45	0,42	0,41	0,41	0,43	0,402	0,68	0,46	1,29	0,49	1,19	7,38	1,54
Bulgaria	ECOPAK	0,55	0,06	0,06	0,09	0,04	0,20	0,21	0,43	0,026	0,70	0,12	6,92	0,29	0,00	9,68	1,83
Finland	Sumi Oy	1,30	0,14	0,18	0,35	0,15	0,12	0,13	0,27	0,033	0,62	0,16	6,92	0,42	3,16	10,78	1,91
Estonia	ETO	1,70	0,23	0,20	0,32	0,14	0,38	0,40	0,81	0,049	0,46	0,13	5,78	1,14	0,00	11,74	2,09
Italy	CONAI	0,84	0,36	0,35	0,09	0,04	0,02	0,02	0,03	0,002	0,46	0,05	1,92	0,02	8,11	4,20	2,26
Luxembourg	Valorlux	0,94	0,36	0,19/ 0,785	0,50	0,21/ 0,785	0,02	0,02	0,04	0,003/ 0,785	1,12	0,04	0,98	0,17	7,97	4,59	2,40
Malta	Green-Pak	0,76	0,10	0,09	0,14	0,06	0,26	0,28	0,57	0,034	0,81	0,20	7,07	0,91	2,30	11,29	2,58
Spain	Ecoembes	1,08	0,62	0,33	0,15	0,06	0,05	0,05	0,11	0,007	2,18	0,13	2,19	0,87	6,60	7,83	3,32

Czech Republic	EKO-Com	2,34	0,31	0,28	0,44	0,19	0,27	0,29	1,21	0,073	1,75	0,32	3,57	0,46	6,96	11,49	3,59
France	CITEO	2,77	0,48	0,44/ <i>1,85</i>	0,69	0,35/ <i>1,85</i>	0,46	0,43	0,78	0,138/ <i>1,85</i>	2,02	0,45	1,13	0,38	8,72	10,52	3,89
Netherlands	Verpact	4,86	0,66	0,54	0,92	0,37	0,44	0,47	0,95	0,058	3,68	0,13	4,82	1,58	0,00	19,49	4,07
Belgium	Fost Plus	1,50	0,54	0,45	3,09	1,33	0,06	0,07	1,26	0,077	3,23	0,15	5,05	0,82	1,98	17,63	4,12
Portugal	SPV	2,01	0,27	0,24	0,38	0,16	0,05	0,05	0,11	0,007	2,06	0,33	4,17	2,30	6,08	12,14	4,18
Sweden	NPA	4,61	0,62	0,74	0,87	0,50	1,52	1,60	3,28	0,199	2,48	0,62	9,36	8,79	0,05	35,20	5,45
Germany	Reclay	4,57	0,62	0,54	0,86	0,37	1,54	1,62	3,31	0,201	2,99	0,33	3,98	2,81	13,83	23,74	5,87
Germany	Belland- vision	4,22	0,57	0,50	0,80	0,34	1,41	1,49	3,04	0,184	4,36	0,30	5,06	4,71	12,77	26,98	6,42
Austria	ARA	3,85	0,52	0,46	3,85	1,65	0,62	0,66	1,34	0,082	4,08	0,28	5,21	1,98	11,65	36,24	7,71
Cyprus	Green Dot	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Slovenia	SLOPAK	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

* Please note that while coffee capsules are not officially classified as packaging as of January 2026, they have been included in this report to provide a proactive baseline for comparison. The grey italic values represent the simplified calculation values for the respective packaging solution. Fee indicators can be found in chapter 2.1.

In the table above the lowest and the highest fee values per packaging are highlighted in green and yellow respectively. Therefore, the results indicate that the fee values are:

- Lower in Macedonia (Plastic), UK (aluminum, paper, steel), Luxembourg (glass). As explained in Chapter 2, the calculation of the reusable plastic bag varies by country. In countries where the bag is not considered packaging or exceptions for reusable products apply, some values are zero (Finland FPP, UK, Bulgaria, Estonia, Netherlands)
- Higher in the Netherlands (plastic), Austria (bioplastic), Germany (aluminum, composites), and Sweden (coffee capsules PP, paper, glass, steel). The reusable plastic bag is highest in Germany (Reclay).

Overall, the aggregate weighted fee indicator is lowest in Macedonia (0,79 ct), Finland (FPP; 0,95 ct), followed by Ireland (1,34 ct). For Macedonia, has the lowest fee indicators for five out of the 13 packaging solutions, explaining the overall low aggregate indicator in 2026. In Finland, this outcome is largely attributable to the fact that reusable bags are not classified as packaging and are therefore assigned a fee value of zero. With respect to REPAK, it is noteworthy that while none of the individual fee indicators constitute the lowest values across all schemes, they are nevertheless consistently among the lowest overall.

In contrast, the highest aggregate weighted fee indicators were observed in Austria (7,71 ct), Germany (BellandVision; 6,42 ct), and Germany (Reclay; 5,87 ct). In Austria, the elevated ranking is primarily attributable to high fee values for bioplastic shopper bags, beverage cartons, and reusable bags. BellandVision similarly exhibits high fees for reusable bags, beverage cartons, and aluminium. For Reclay, the high aggregate value is driven by the highest fee levels for aluminium and reusable bags. Overall, the German PROs are characterised by comparatively high fee levels across all material categories.

3.2. Aggregate fee indicators January 2026 for B2B products

Table 4: Aggregate fee indicators for B2B products in January 2026

Countries	PRO	Plastic	Cardboard	Wood	Aggregated fee indicator	Weighted aggregated fee indicator
		Stretch film	Box	Box		
Portugal	SPV	0,51	0,17	0,36	1,04	0,21
Sweden	NPA	0,93	0,02	0,37	1,32	0,25
Luxembourg	Valorlux	3,95	0,32	1,16	5,43	0,99
Finland	FPP	6,50	0,07	0,17	6,73	1,25
Czech Republic	EKO-COM	3,32	0,35	5,81	9,49	1,27
Finland	Sumi Oy	8,10	0,31	0,18	8,59	1,64
Belgium	Valipac	6,30	1,40	1,60	9,30	1,96
Malta	GreenPak	7,03	1,56	5,44	14,03	2,36
Spain	Ecoembes comercial	12,00	0,38	1,20	13,58	3,05
France	CITEO Pro	12,32	1,68	6,06	20,07	3,76
Romania	ECO-ROM	8,00	1,75	6,24	15,99	3,83
Estonia	ETO	12,50	2,13	3,52	18,15	4,18
Austria	ARA	18,00	1,55	1,60	21,15	4,42
Italy	CONAI	25,80	1,00	0,80	27,60	4,92
Cyprus	Green Dot Cyprus	n/a	n/a	n/a	n/a	n/a
Slovenia	SLOPAK	n/a	n/a	n/a	n/a	n/a

In the table above the lowest and the highest fee values per packaging are highlighted in green and yellow respectively. Therefore, the results indicate that the fee values are:

- Lower in Portugal (plastic), Sweden (cardboard) and Finland (FPP, wood).
- Higher in the Italy (plastic), Estonia (cardboard) and Romania (wood).

Overall, the weighted aggregate fee indicator is lowest in Portugal (0,21 ct), Sweden (0,25 ct) and Luxembourg (0,99 ct). For Sociedade PontoVerde (SPV, Portugal), the relatively low values may be explained by the recent expansion of its services to include the management of industrial and commercial packaging waste. As the necessary infrastructure continues to develop, fees may increase in the future.¹⁹

On the other hand, the highest weighted aggregate fee indicators were found in Italy (4,92 ct), Austria (4,42 ct), and Estonia (4,18 ct). CONAI applies fee modulation, whereby EPR fees vary according to the recyclability of packaging materials and the costs associated with their sorting and recycling. For example, materials that are more difficult to recycle - such as certain plastics - are subject to higher fees, while more easily recyclable materials incur lower charges. This approach is intended to incentivize improved packaging design and promote higher recycling rates.²⁰ That might explain why their fees are relatively higher compared to other PROs. According to ARA (Austria), macroeconomic conditions, including inflation, weak economic growth, and volatility in secondary material markets, have led to rising collection and recycling costs. To cover these additional expenses, license fees have been increased.²¹

¹⁹ <https://www.revistapackaging.pt/index.php/atualidade/2162-sociedade-ponto-verde-assumira-gestao-de-embalagens-industriais-e-comerciais-em-2025?>

²⁰ https://www.conai.org/en/businesses/environmental-contribution/plastic-modulated-fee/?utm_source=chatgpt.com

²¹ <https://www.ara.at/news/tarifkalkulation-2024-herausforderung-wirtschaftslage>

4. Comparison of the fee indicators across countries and years

4.1. Changes across B2C product material categories

Table 5: Changes in fee indicators between January 2026 and July 2025

Country	PRO	PET	Other Plastic	Bioplastic	Aluminium	Beverage composites	Paper composite	Glass	Steel	Average change
Spain	Ecoembes	-30%	-2%	-29%	-33%	-17%	-42%	0%	-2%	-19%
UK	DEFRA	61%	61%	-	-94%	-	-92%	21%	-97%	-17%
Italy	CONAI	27%	0%	-	0%	-15%	-31%	14%	0%	-1%
Estonia	ETO	0%	0%	-	0%	-	0%	0%	0%	0%
Greece	H.E.R.R.C.O.	0%	0%	-	0%	0%	0%	0%	0%	0%
Malta	GreenPak	0%	0%	-	0%	-	0%	0%	0%	0%
Netherlands	Verpact	0%	0%	-	13%	5%	0%	0%	0%	2%
Czech Republic	EKO-COM	19%	-12%	-12%	15%	23%	6%	-17%	8%	4%
Austria	ARA	5%	5%	5%	0%	5%	9%	6%	0%	4%
Romania	ECO-ROM	2%	5%	-	7%	-	3%	10%	3%	4%
Germany	BellandVision (Excl. VAT)	5%	5%	-	4%	-3%	11%	7%	7%	4%
Germany	RECLAY	19%	19%	-	16%	-27%	14%	25%	-36%	4%
Finland	FPP	25%	35%	25%	0%	-8%	-8%	0%	0%	8%
Bulgaria	ECOPACK	16%	6%	-	7%	14%	6%	9%	9%	8%
Portugal	SPV	21%	21%	-	-60%	17%	19%	13%	47%	10%
Sweden	NPA	20%	20%	-	23%	-	2%	7%	11%	10%
Luxembourg	VALORLUX	28%	-1%	-	4%	-3%	-3%	15%	46%	11%
Belgium	FOST PLUS (domestic)	33%	-16%	13%	2%	-1%	0%	10%	67%	13%
Macedonia	PAKOMAK	19%	19%	-	17%	19%	13%	17%	10%	17%
Ireland	Repak	16%	16%	-	19%	-	16%	103%	0%	21%

France	CITEO	31%	31%	43%	31%	23%	20%	23%	21%	28%
Finland	Sumi Oy	57%	77%	57%	32%	2%	2%	55%	32%	39%
Cyprus	Green Dot	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Slovenia	SLOPAK	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

The table above illustrates the changes in fee indicators from July 2025 to January 2026, excluding the impact of inflation rates. The list is organized according to the magnitude of the changes, from the highest reductions to the highest increases.

Notably, ETO (Estonia), H.E.R.R.C.O. (Greece) and GreenPak (Malta) are the only countries without any changes and only Ecoembes (Spain), Defra (UK) and CONAI (Italy) show on average a decrease in fees. Ecoembes (Spain) is the only organisation showing no increase in the fee indicators. This may be explained by the fact that, according to its most recent data, its reserve fund has started to grow again, potentially allowing fees to be reduced and temporarily easing the financial burden on producers.²² However, no official statement has been published.

Valpak (UK) observed an increase in PRN prices for plastics and glass, likely due to an undersupply of evidence notes in the PRN market. Similarly, a decrease for aluminium, paper and steel can be observed, indicating an oversupply of evidence notes.

CONAI (Italy) has outlined the rationale for recent adjustments to EPR fees. For plastic packaging managed by Corepla, the EPR fee for Band B1.2 is set to return to €228/t as of 1 January 2026, together with revised fee-band classifications based on company reclassification requests and subsequent evaluations. These changes are linked to updates in the design-for-recycling framework.²³ It also has to be noted that compared to July 2025, the values changed. But most of the changes have already been implemented in October 2025.

Verpact (Netherlands) explains the increase in aluminium and beverage cartons as follows: “For beverage cartons, we see a (slight) increase. The rising recycling targets combined with a vulnerable chain result in higher collection and processing costs for beverage cartons. Due to the decline in cans within the aluminium stream, a smaller, lower-quality, and therefore more expensive material stream remains, leading to higher costs for aluminium.”²⁴

²² <https://www.ecoembestransparencia.com/gastos-e-ingresos/>

²³ https://www.conai.org/wp-content/uploads/2025/11/Press-release_EPR-fee-changes_2026.pdf

²⁴ <https://www.verpact.nl/en/rates>

EKO-KOM (Czech Republic) attributes its relatively low fee levels to the long-term development of its system. Over the past 25 years, in cooperation with industry and municipalities, EKO-KOM has established a stable collection and recycling framework that is regarded as effective in a European context, both in terms of achieved packaging recycling rates and per-capita costs for separation and recycling. At the same time, the volume of recovered and recycled packaging waste has increased in recent years, which has resulted in rising operational costs and corresponding fee increases.²⁵

The countries with the highest increases are Finland (Sumi Oy), France (CITEO), and Ireland (REPAK), Macedonia (PAKOMAK) and Belgium (Fost Plus). Sumi Oy (Finland) has recently undergone operational changes, including the construction of a plastic packaging sorting facility and the introduction of a new reporting system. These developments may partly explain the fee increases observed for 2026.²⁶

Similarly, CITEO (France) has experienced recent operational developments, including increased activity at existing sorting centers, the planned opening of a fourth sorting facility in the Yvelines region by the end of 2026, and the expansion of additional recycling streams.²⁷ In their fee document, CITEO also notes that the Anti-Waste and Circular Economy Act (AGEC) and the 3R Decree (Reduction, Reuse, Recycling) establish national targets that guide EPR activities and have an impact on associated costs.

For REPAK, the indicator for glass doubled. However, REPAK does not exactly state why the 2026 fees have changed, but in general they explain: “Our fees are based on the amount of packaging your business places on the market and your annual turnover. There are different levels of fees depending on several factors in relation to the type of material and its origin.”²⁸

Regarding PAKOMAK (Macedonia), please note that the source for the 2026 fee indicators has changed. Since PRO Europe no longer includes North Macedonia in its annual report, these figures were derived directly from the PRO itself. While minor fluctuations in the indicators can be attributed to slight shifts in currency exchange rates between 2025 and 2026, there were also notable increases in the local currency. For example, the rate for plastic rose from 2,564.7 MKD/ton to 3,090 MKD/ton. Consequently, these adjustments cannot be explained by currency volatility alone. It should be noted, however, that PAKOMAK has not provided a detailed explanation for these fee increases on its official website.

Fost Plus (Belgium) attributes recent fee increases to rising collection and sorting costs, fluctuations in material prices, and contract renewals. It also notes ongoing

²⁵ <https://www.ekokom.cz/en/other/system-results/>

²⁶ https://sumi.fi/en/news/toimitusjohtajan-katsaus-syyskuu?_gl=1*1fqgz4x*_up*MQ_*_qa*MTI3MDgxNzI1MS4xNzcwMjgzM-zlx*_qa_ZB6Q1YPB6D*cZE3NzAyODMzMjAkbzEkZzEkdDE3NzAyODMzNjEkajE5JGwwJGqw

²⁷ <https://www.citeo.com/le-mag/bilan-et-perspectives/>

²⁸ <https://repa.ie/about-us/faq/>

investments in new recycling solutions and in the post-sorting of residual waste streams to improve material recovery.²⁹

Moreover, it has to be noted that in Sweden, there was a slight change in the exchange rate (1 SEK = from 0.087 EUR to 0.093 EUR). NPA further explains that packaging fees for private use are largely driven by costs associated with household collection, particularly the expansion of curbside collection. As this expansion progresses toward nationwide coverage, costs are expected to rise, with stronger increases projected for 2025–2027 before leveling off thereafter. The magnitude of annual cost increases will depend on the pace of curbside expansion and will vary by material. In addition, the expansion of collection points and higher volumes of packaging waste from businesses may lead to higher fees for non-household packaging in the coming years.³⁰

It also has to be noted that we did not include the materials for coffee capsules and the reusable bag, as this is the first report including those packaging solutions and we thus have no comparative values.

4.2. Changes across B2B product material categories

Table 6: Changes in fee indicators between July 2025 and January 2026

Country	PRO	Stretch film	Cardboard	Wood	Average change
Sweden	NPA	-47%	-89%	7%	-43%
Italy	CONAI	0%	-31%	11%	-7%
Czech Republic	EKO-KOM	-5%	-7%	-6%	-6%
Austria	ARA	0%	0%	0%	0%
Belgium	VALIPAC	0%	0%	0%	0%
Estonia	ETO	0%	0%	0%	0%
France	CITEO PRO	0%	0%	0%	0%
Luxembourg	VALORLUX	0%	0%	0%	0%
Malta	PAKOMAK	0%	0%	0%	0%
Spain	GENCI	0%	0%	0%	0%
Romania	ECO-ROM	7%	6%	4%	6%
Finland	FPP	23%	7%	0%	10%
Finland	Sumi Oy	50%	17%	-15%	17%
Portugal	SPV	19%	20%	105%	48%
Cyprus	Green Dot Cyprus	n/a	n/a	n/a	n/a
Slovenia	SLOPAK	n/a	n/a	n/a	n/a

The table above illustrates the changes in fee indicators from July 2025 to January 2026, excluding the impact of inflation rates. The list is organized according to the magnitude of the changes, from the highest reductions to the highest increases.

²⁹ <https://www.fostplus.be/en/blog/everything-you-need-to-know-about-green-dot-rates-for-2026>

³⁰ <https://npa.se/en/producer-responsibility/packaging-fees>

Similar to the B2C segment, several changes can also be observed in the B2B categories. Explanations for the respective developments provided by NPA, CONAI, EKO-KOM, and Sumi Oy are discussed in Chapter 4.1. In Portugal, Pontoverde notes that despite a significant financial injection into the Integrated Packaging Waste Management System (SIGRE) in 2025, growth in packaging recycling has remained limited. This suggests that the issue may lie less in the availability of financial resources and more in the design and operation of the system, which may help explain the current higher fee levels.³¹ For Finland (FPP) and ECO-Rom, the available documentation does not provide detailed information on how EPR fees are calculated or determined.

³¹ <https://www.pontoverde.pt/comunicacao-e-educacao/noticias/portugal-entrou-em-incumprimento-em-2025-ano-em-que-o-investimento-quase-duplicou/>

5. Correlation of aggregate fee indicators and recycling rates

5.1. B2C PROs

The weighted aggregate fee indicators for each PRO were also compared to the recycling rates of the countries. Please see the sources for the recycling rates in chapter 2.2. Quotas not drawn from the general source are identified with an asterisk (*).

Table 7: Overview of weighted aggregate fee indicators for B2C products and recycling rates

Countries	PRO	Weighted aggregate fee indicator	Country Recycling rate (2023)
Romania	ECO-ROM	1,47	37,3%
Macedonia	PAKOMAK*	0,79	40,9%
Malta	GreenPak	2,58	44,4%
Greece	H.E.R.R.C.O.	1,54	48,0%
UK	VALPAK	1,47	53,0%
Bulgaria	ECOPACK	1,83	58,3%
Finland	Sumi Oy	1,91	59,4%
Finland	FPP	0,95	59,4%
Ireland	Repak	1,34	61,0%
Portugal	SPV	4,18	61,8%
Austria	ARA	7,71	64,9%
Luxembourg	VALORLUX*	2,40	66,1%
Estonia	ETO	2,09	68,5%
Sweden	NPA	5,45	68,5%
France	CITEO	3,89	69,0%
Germany	RECLAY	5,87	69,4%
Germany	BellandVision	6,42	69,4%
Spain	ECOEMBES	3,32	70,5%
Czech Republic	EKO-COM	3,59	74,8%
Italy	CONAI	2,26	75,6%
Netherlands	Verpact	4,07	75,8%
Belgium	FostPlus	4,12	79,7%
Cyprus	Green Dot	n/a	n/a
Slovenia	SLOPAK	n/a	n/a

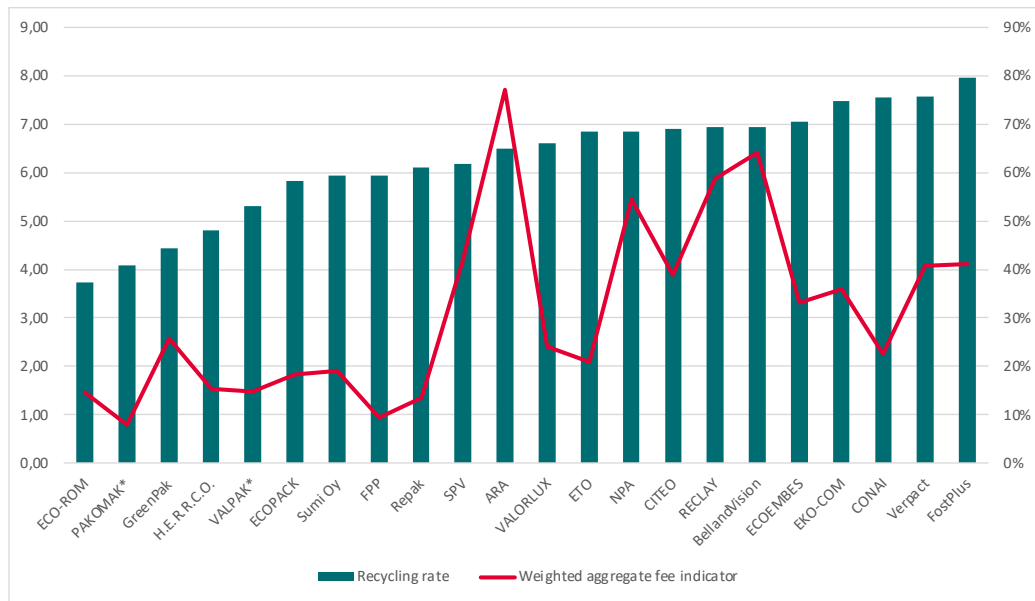


Figure 2: Correlation of weighted aggregate fee indicators for B2C products and recycling rates

For B2C products, a moderate positive correlation (correlation coefficient: 0.53) is observed between the fee indicator and the recycling rate. This suggests that there is only limited evidence of a linear relationship between the two variables. Therefore, it is likely that factors other than EPR fees play a more significant role in influencing the effectiveness of recycling programs.

The highest recycling rates are observed in Belgium, the Netherlands, and Italy. Verpact and Fost Plus operate with relatively high fee levels (fourth and sixth highest, respectively), which lends some support to the assumption of a positive relationship between fee indicators and recycling performance. This may indicate that higher financial contributions by PROs are associated with stronger recycling outcomes. However, CONAI (Italy) presents a notable contrast: its aggregate fee indicator is approximately half that of Verpact, yet recycling rates remain comparably high. This suggests that high recycling performance does not necessarily require equally high fee levels.

By contrast, the lowest recycling rates are recorded in Romania, Macedonia and Malta. However, since these are country-level rates, the actual recycling performance of individual PROs in these countries might differ. Furthermore, these recycling rates are based on data older than 2023, meaning they could currently be higher. When considering aggregate fee indicators, Malta ranks 10th lowest, positioning it within the middle third, so that no clear statement can be made about efficiency. Meanwhile, Macedonia has the lowest fee indicator and Romania the 4th lowest, which may indicate a need for increased investment in recycling to enhance performance.

5.2. B2B PROs

In the following, you can find this comparison also for B2B PROs. Please see the sources for the recycling rates in chapter 2.2.

Table 8: Overview of weighted aggregate fee indicators for B2B products and recycling rates

Countries	PRO	Weighted aggregated fee indicator	Recycling rate
Romania	ECO-ROM	3,83	37,3%
Malta	GreenPak	2,36	44,4%
Finland	Sumi Oy	1,64	59,4%
Finland	FPP	1,25	59,4%
Portugal	SPV	0,21	61,8%
Austria	ARA	4,42	64,9%
Luxembourg	VALORLUX	0,99	66,1%
Estonia	ETO	4,18	68,5%
Sweden	NPA	0,25	68,5%
France	CITEO PRO	3,76	69,0%
Spain	Ecoembes comercial	3,05	70,5%
Czech Republic	EKO-COM	1,27	74,8%
Italy	CONAI	4,92	75,6%
Belgium	Valipac	1,96	79,7%
Slovenia	SLOPAK	n/a	n/a
Cyprus	GREEN DOT CYPRUS	n/a	n/a

Table 9: Comparison between the aggregate fee indicator and the PRO recycling rates

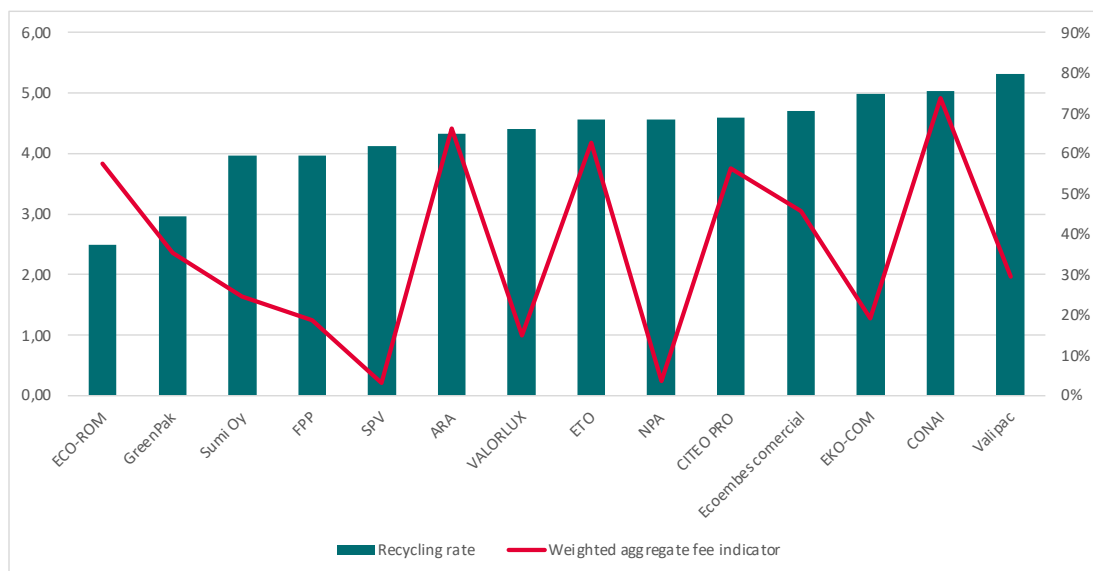


Figure 3: Correlation of weighted aggregate fee indicators for B2B products and recycling rates

In contrast to B2C PROs, the correlation coefficient for B2B PROs is -0.0237 , indicating a virtually non-existent relationship between fee indicators and recycling rates. The data shows that countries with higher recycling rates do not necessarily charge higher EPR fees. This suggests that factors other than the level of fees play a more decisive role in the effectiveness of recycling systems. This pattern is clearly evident, for example, in the countries with the highest recycling rates: while EKO-KOM

and Valipac operate with relatively low total fee indicators, CONAI has the highest fee level.

6. Conclusion

As the EU transitions toward the Packaging and Packaging Waste Regulation (PPWR), which entered into force in February 2025, member states are increasingly diversifying their EPR models to fund the infrastructure required for a circular economy.

Fee indicators for B2C (household) products vary significantly by country. In January 2026, the lowest aggregate weighted fees were observed in Macedonia (0,79 ct), Finland (FPP; 0,95 ct), followed by Ireland (1,34 ct) and the Romania (1,47 ct). In contrast, Austria (ARA) and Germany (BellandVision and Reclay) reported the highest fees, with Austria reaching 7,78 ct. These high Austrian fees are primarily driven by bioplastic shopper bags, beverage cartons, and reusable bags.

For B2B (industrial) products, the lowest weighted aggregate fees were found in Portugal (SPV) at 0,21 ct and Sweden (NPA) at 0,25 ct. The highest B2B fees were reported in Italy (CONAI) at 4,92 ct, Austria at 4,42 ct, and Estonia at 4,18 ct. CONAI's higher fees are partly explained by its use of "fee modulation," which varies costs based on the recyclability and sorting complexity of specific materials.

The period between July 2025 and January 2026 saw various shifts in fee levels for B2C products:

- **Increases:** The highest increases occurred in Finland (Sumi Oy), France (CITEO), and Ireland (Repak). Sumi Oy and CITEO are both undergoing significant operational expansions, including new sorting facilities.
- **Decreases:** Spain (Ecoembes) showed an average reduction of 19%, likely due to a growing reserve fund. The UK saw mixed results; while PET and glass PRN prices rose due to undersupply, fees for aluminum, paper, and steel decreased due to a surplus of evidence notes.
- **No changes:** Estonia (ETO), Greece (H.E.R.R.C.O) and Malta (GreenPak) were the only countries to report no changes in fee indicators.

A critical finding of the report is the lack of a strong linear relationship between fee levels and recycling rates. For B2C products, a moderate positive correlation (0.53) suggests that while higher fees in countries like Belgium and the Netherlands may support strong recycling outcomes, it is not a universal rule. Notably, Italy maintains high recycling rates with fees roughly half those of the Netherlands. For B2B products, the correlation is virtually non-existent (-0.024), indicating that factors like system design, infrastructure, and national waste management practices are more decisive than the fee level alone.

In summary, the 2026 fee landscape reflects a complex interplay between national regulatory ambitions and local economic conditions. As the PPWR application date of August 2026 approaches, PROs are adjusting their cost structures to accommodate new packaging definitions.

7. Annex

Please find below the special calculations for CITEO (France).

CITEO (FRANCE) calculations									
January 2026									
Formula:									
		1		2	3	4			
Packaging	weight (g)	Contribution by weight (ct/g)	Units per CSU	Contribution Recycling	Financemen t reemploi	Bonus	Premiums	Penalty	Fees for the products (cent)
PET bottle	transparent PET	35	0,07	2	0,1433	0,005			2,7663
	Hard plastic	2	0,08401						
Printed LDPE	LDPE colour	5	0,07701	1	0,0944	0,005			0,4845
Plastic Tray	PET		0,07	1	0,0944	0,005			0,0994
Coffee Capsu	pp	4,4	0,07701	1	0,0915	0,005			0,4353
Stretch film t	HDPE transparent	1000	0,07701	1	0,0944	0,005			77,1094
Bag	Bioplastic (PLA)	7	0,08401	1	0,0944	0,005			0,6875
Coffee Capsu	Bioplastic (PLA)	3	0,08401	1	0,0915	0,005			0,3485
Aluminium C	Aluminium	13	0,02434	1	0,1433	0,005			0,4647
Tray	Aluminium	13,7	0,02434	1	0,0944	0,005			0,4329
Thin sheet	Aluminium	28	0,02434	1	0,0944	0,005			0,7809
Coffee Capsu	Aluminium	1,7	0,02434	1	0,0915	0,005			0,1379
Milk box	carton	40	0,04679		0,1433	0,005			2,0199
Paper Cup	Paper	9,1	0,02581	1	0,1433	0,005			0,4525
	PE	0,9	0,07701						
Carboard Box	Cardboard	222	0,02581	1	0,0944	0,005			5,82922
Transparent	Glass	480	0,00201	2	0,1433	0,005			1,127704
	Aluminium	0,6	0,02434						
Canned toma	Steel	44	0,00649	1	0,0915	0,005			0,38206
Wooden Box	Wood	800	0,02581	1	0,0944	0,005			20,7474
Reusable Pla	Plastic, Reuse	112	0,07701	1	0,0944	0,005	0%		8,72452

-> usually, it would be 100% off, because it is reusable, but p. 48 says packaging is excluded from bonus where no take back system exists. As the bag probably has no take-back-system, no bonus is applied

Contribution au poids

Tarif au poids par matériau

✕

Poids de l'emballage

Contribution au poids

Contribution recyclage des déchets abandonnés

✕

Nombre d'unités d'emballage par UVC

Contribution au poids

Contribution financement du réemploi

Éco-modulation

➕ malus

➖ bonus

➖ primes

Please find the detailed calculations for all other PROs / countries on the following pages.

Country	BZ?	Product	Material	Indicator (cent per g)	gram	Additional cost (€)	Fee indicator
Austria	B2C	PET bottle	transparent PET	0,104	35		3,848
	B2C	PET bottle	Hard plastic	0,104	2		
	B2C	Printed LDPE bag	LDPE colour	0,104	5		0,520
	B2C	Plastic Tray	PET	0,104			0,000
	B2C	Coffee capsule	PP	0,104	4,4		0,458
	B2B	Stretch film HDPE	HDPE transparent	0,018	1000		18,000
	B2C	Shopper	Bioplastic	0,55	7		3,850
	B2C	Coffee capsule	Bioplastic	0,55	3		1,650
	B2C	Aluminium Can	Aluminium	0,048	13		0,624
	B2C	Tray	Aluminium	0,048	13,7		0,658
	B2C	Thin sheet	Aluminium	0,048	28		1,344
	B2C	Coffee capsule	Aluminium	0,048	1,7		0,082
	B2C	Milk box	Beverage composite carto	0,102	40		4,080
	B2C	Paper Cup	Paper	0,0208	9,1		0,283
	B2C	Paper Cup	PE	0,104	0,9		
	B2B	Carboard Box	Cardboard	0,007	222		1,554
	B2C	Transparent glass	Glass	0,0108	480		5,213
	B2C	Transparent glass	Aluminium	0,048	0,6		
	B2C	Canned tomatoes	Steel	0,045	44		1,980
	B2B	Wooden Box	Wood	0,002	800		1,600
B2C	Reusable Plastic b	Plastic, reuse	0,104	112		11,648	
Belgium (Valipac)	B2C	PET bottle	transparent PET	0,0063	35		0,233
	B2C	PET bottle	Hard plastic	0,0063	2		
	B2C	Printed LDPE bag	LDPE colour	0,0063	5		0,032
	B2C	Plastic Tray	PET	0,0063			0,000
	B2C	Coffee capsule	PP	0,0063	4,4		0,028
	B2B	Stretch film HDPE	HDPE transparent	0,0063	1000		6,300
	B2C	Bioplastic	Bioplastic	0,0063	7		0,044
	B2C	Coffee Capsule	Bioplastic	0,0063	3		0,019
	B2C	Aluminium Can	Aluminium	0,002	13		0,026
	B2C	Tray	Auminium	0,002	13,7		0,027
	B2C	Thin sheet	Aluminium	0,002	28		0,056
	B2C	Coffee capsule	Aluminium	0,002	1,7		0,003
	B2C	Milk box	Paper	0,002	40		0,080
	B2C	Paper Cup	Paper	0,002	9,1		0,024
	B2C	Paper Cup	PE	0,0063	0,9		
	B2B	Carboard Box	Cardboard	0,002	222		1,404
	B2C	Transparent glass	Glass	0,002	480		0,961
	B2C	Transparent glass	Aluminium	0,002	0,6		
	B2C	Canned tomatoes	Steel	0,002	44		0,088
	B2B	Wooden Box	Wood	0,002	800		1,600
B2C	Reusable Plastic b	Plastic, reuse	0	112		0,000	
Belgium (Fost Plus)	B2C	PET bottle	transparent PET	0,03604	35		1,500
	B2C	PET bottle	Hard plastic	0,11931	2		
	B2C	Printed LDPE bag	LDPE colour	0,10804	5		0,540
	B2C	Plastic Tray	PET	0,03604			0,000
	B2C	Coffee capsule	PP - beverage capsule	0,10161	4,4		0,447
	B2B	Stretch film HDPE	HDPE transparent	0,10804	1000		108,040
	B2C	Bag	Bioplastic	0,4419	7		3,093
	B2C	Coffee capsule	Bioplastic capsule	0,4419	3		1,326
	B2C	Aluminium Can	Aluminium	0,00491	13		0,064
	B2C	Tray	Aluminium	0,00491	13,7		0,067
	B2C	Thin sheet	Aluminium	0,04513	28		1,264
	B2C	Coffee capsule	Aluminium	0,04513	1,7		0,077
	B2C	Milk box	Beverage composite carto	0,0808	40		3,232
	B2C	Paper Cup	Paper	0,01503	10		0,150
	B2B	Carboard Box	Cardboard	0,01503	222		3,337
	B2C	Transparent glass	Glass	0,01052	480		5,053
	B2C	Transparent glass	Aluminium	0,00491	0,6		
	B2C	Canned tomatoes	Steel	0,01864	44		0,820
	B2B	Wooden Box	Wood	0,4419	800		353,520
	B2C	Reusable Plastic b	Plastic, reuse		112	1,98	1,980
Bulgaria	B2C	PET bottle	transparent PET	0,0151	35		0,554
	B2C	PET bottle	Hard plastic	0,0125	2		
	B2C	Printed LDPE bag	LDPE colour	0,0125	5		0,063
	B2C	Plastic Tray	PET	0,0151			0,000
	B2C	Coffee capsule	PP	0,0125	4,4		0,055
	B2B	Stretch film HDPE	HDPE transparent	0,0125	1000		12,500
	B2C	Bag	Bioplastic	0,0125	7		0,088
	B2C	Coffee capsule	Bioplastic	0,0125	3		0,038
	B2C	Aluminium Can	Aluminium	0,0152	13		0,198
	B2C	Tray	Aluminium	0,0152	13,7		0,208
	B2C	Thin sheet	Aluminium	0,0152	28		0,426
	B2C	Coffee capsule	Aluminium	0,0152	1,7		0,026
	B2C	Milk box	Beverage composite carto	0,0174	40		0,696
	B2C	Paper Cup	Paper	0,0118	9,1		0,119
	B2C	Paper Cup	PE	0,0125	0,9		
	B2B	Cardboard Box	Cardboard	0,0118	222		2,620
	B2C	Transparent glass	Glass	0,0144	480		6,921
	B2C	Transparent glass	Aluminium	0,0152	0,6		
	B2C	Canned tomatoes	Steel	0,0066	44		0,290
	B2B	Wooden Box	Wood	0,0069	800		5,520
B2C	Reusable Plastic b	Plastic, reuse	0	112		0,000	
B2C	PET bottle	transparent PET	0,06168	35		2,339	
B2C	PET bottle	Hard plastic	0,09034	2			

Czech Rep.	B2C	Printed LDPE bag	LDPE colour	0,062184	5	0,311
	B2C	Plastic Tray	PET	0,06168		0,000
		Coffee capsule	PP	0,063356	4,4	0,279
	B2B	Stretch film HDPE	HDPE transparent	0,00332	1000	3,320
	B2C	Bag	Bioplastic	0,062184	7	0,435
	B2C	Coffee capsule	Bioplastic	0,063356	3	0,190
	B2C	Aluminium Can	Aluminium	0,02088	13	0,271
	B2C	Tray	Aluminium	0,02088	13,7	0,286
	B2C	Thin sheet	Aluminium	0,043108	28	1,207
		Coffee capsule	Aluminium	0,043108	1,7	0,073
	B2C	Milk box	beverage carton	0,043868	40	1,755
		Paper Cup	Paper	0,028608	9,1	0,316
	B2C		PE	0,062184	0,9	
	B2B	Carboard Box	Cardboard	0,001592	222	0,353
	B2C	Transparent glass	Glass	0,007408	480	3,568
	B2C		Aluminium	0,02088	0,6	
	B2C	Canned tomatoes	Steel	0,010444	44	0,460
	B2B	Wooden Box	Wood	0,007268	800	5,814
		Reusable Plastic b	Plastic, reuse	0,062184	112	6,965
	Estonia	B2C	PET bottle	transparent PET	0,046	35
B2C			Hard plastic	0,046	2	
B2C		Printed LDPE bag	LDPE colour	0,046	5	0,230
B2C		Plastic Tray	PET	0,046		0,000
		Coffee capsule	PP	0,046	4,4	0,202
B2B		Stretch film HDPE	HDPE transparent	0,0125	1000	12,500
B2C		Bag	Bioplastic	0,046	7	0,322
B2C		Coffee capsule	Bioplastic	0,046	3	0,138
B2C		Aluminium Can	Aluminium	0,029	13	0,377
B2C		Tray	Aluminium	0,029	13,7	0,397
B2C		Thin sheet	Aluminium	0,029	28	0,812
		Coffee capsule	Aluminium	0,029	1,7	0,049
B2C		Milk box	Beverage composite carto	0,0115	40	0,460
		Paper Cup	Paper Composite	0,013	10	0,130
B2B		Carboard Box	Cardboard	0,0096	222	2,131
B2C		Transparent glass	Glass	0,012	480	5,777
B2C			Aluminium	0,029	0,6	
B2C		Canned tomatoes	Steel	0,026	44	1,144
B2B		Wooden Box	Wood	0,0044	800	3,520
		Reusable Plastic b	Plastic, reuse	0	112	0,000
Finland (FPP)	B2C	PET bottle	transparent PET	0,0274	35	1,014
	B2C		Hard plastic	0,0274	2	
	B2C	Printed LDPE bag	LDPE colour	0,0214	5	0,107
	B2C	Plastic Tray	PET	0,0274		0,000
		Coffee capsule	PP	0,036	4,4	0,158
	B2B	Stretch film HDPE	HDPE transparent	0,0065	1000	6,500
	B2C	Bag	Bioplastic	0,036	7	0,252
	B2C	Coffee capsule	Bioplastic	0,036	3	0,108
	B2C	Aluminium Can	Aluminium	0,0029	13	0,038
	B2C	Tray	Aluminium	0,0029	13,7	0,040
	B2C	Thin sheet	Aluminium	0,0029	28	0,081
		Coffee capsule	Aluminium	0,0063	1,7	0,011
	B2C	Milk box	Beverage composite carto	0,0162	40	0,648
		Paper Cup	Paper Composite	0,0162	10	0,162
	B2B	Carboard Box	Cardboard	0,0003	222	0,067
	B2C	Transparent glass	Glass	0,0076	480	3,650
	B2C		Aluminium	0,0029	0,6	
	B2C	Canned tomatoes	Steel	0,0029	44	0,128
	B2B	Wooden Box	Wood	0,00021	800	0,168
		Reusable Plastic b	Plastic, reuse	0	112	0,000
Finland (Sumi Oy)	B2C	PET bottle	transparent PET	0,0352	35	1,302
	B2C		Hard plastic	0,0352	2	
	B2C	Printed LDPE bag	LDPE colour	0,0282	5	0,141
	B2C	Plastic Tray	PET	0,0352		0,000
		Coffee capsule	PP	0,0415	4,4	0,183
	B2B	Stretch film HDPE	HDPE transparent	0,0081	1000	8,100
	B2C	Bag	Bioplastic	0,0495	7	0,347
	B2C	Coffee capsule	Bioplastic	0,0495	3	0,149
	B2C	Aluminium Can	Aluminium	0,0095	13	0,124
	B2C	Tray	Aluminium	0,0095	13,7	0,130
	B2C	Thin sheet	Aluminium	0,0095	28	0,266
		Coffee capsule	Aluminium	0,0194	1,7	0,033
	B2C	Milk box	Beverage composite carto	0,0155	40	0,620
		Paper Cup	Paper	0,0155	10	0,155
	B2B	Carboard Box	Cardboard	0,0014	222	0,311
	B2C	Transparent glass	Glass	0,0144	480	6,918
	B2C		Aluminium	0,0095	0,6	
	B2C	Canned tomatoes	Steel	0,0095	44	0,418
	B2B	Wooden Box	Wood	0,00022	800	0,176
		Reusable Plastic b	Plastic, reuse	0,0282	112	3,158
	B2C	PET bottle	transparent PET		35	2,766
	B2C		Hard plastic		2	
	B2C	Printed LDPE bag	LDPE colour		5	0,48445
		Plastic Tray	PET			
		Coffee capsule	PP			0,435344
	B2B	Stretch film HDPE	HDPE transparent		1000	77,1094
	B2C	Bioplastic	Bioplastic			0,68747
B2C	Coffee capsule				0,34853	

France (CITEO)	B2C	Aluminium Can	Aluminium		13		0,46472	
	B2C	Tray		see own sheet "France"	13,7		0,432858	
	B2C	Thin sheet			28		0,78092	
		Coffee capsule	Aluminium					0,137878
	B2C	Milk box						2,0199
	B2C	Paper Cup						0,45248
	B2B	Carboard Box	Cardboard		222			5,82922
	B2C	Transparent glass	Glass		480			1,128
	B2C		Aluminium		0,6			
	B2C	Canned tomatoes	Steel		44			0,382
	B2B	Wooden Box	Wood		800			20,747
	Reusable Plastic b	Plastic, reuse					8,725	
France (CITEO PRO)	B2C	PET bottle	transparent PET	0,0112	35		0,416	
	B2C		Hard plastic	0,01176	2			
	B2C	Printed LDPE bag	LDPE colour	0,01232	5		0,062	
	B2C	Plastic Tray	PET	0,0112			0,000	
		Coffee capsule	PP	0,01232	4,4		0,054	
	B2B	Stretch film HDPE	HDPE transparent	0,01232	1000		12,320	
	B2C	Bioplastic	Bioplastic	0,01232	7		0,086	
	B2C	Coffee capsule	Bioplastic	0,01232	3		0,037	
	B2C	Aluminium Can	Aluminium	0,00754	13		0,098	
	B2C	Tray	Aluminium	0,00754	13,7		0,103	
	B2C	Thin sheet	Aluminium	0,00754	28		0,211	
		Coffee capsule	Aluminium	0,00754	1,7		0,013	
	B2C	Milk box	Paper	0,00986	40		0,394	
	B2C	Paper Cup	Paper	0,00758	9,1		0,080	
	B2C		PE	0,01232	0,9			
	B2B	Carboard Box	Cardboard	0,00758	222		1,683	
	B2C	Transparent glass	Glass	0,0017	480		0,821	
	B2C		Aluminium	0,00754	0,6			
	B2C	Canned tomatoes	Steel	0,00568	44		0,250	
B2B	Wooden Box	Wood	0,00758	800		6,064		
	Reusable Plastic b	Plastic, reuse	0,01232	112		1,380		
Germany (Recly)	B2C	PET bottle	transparent PET	0,123495	35		4,569	
	B2C		Hard plastic	0,123495	2			
	B2C	Printed LDPE bag	LDPE colour	0,123495	5		0,617	
	B2C	Plastic Tray	PET	0,123495			0,000	
		Coffee capsule	PP	0,123495	4,4		0,543	
	B2B	Stretch film HDPE	HDPE transparent	0,123495	1000		123,495	
	B2C	Bioplastic	Bioplastic	0,123495	7		0,864	
	B2C	Coffee capsule	Bioplastic	0,123495	3		0,370	
	B2C	Aluminium Can	Aluminium	0,118245	13		1,537	
	B2C	Tray	Aluminium	0,118245	13,7		1,620	
	B2C	Thin sheet	Aluminium	0,118245	28		3,311	
		Coffee capsule	Aluminium	0,118245	1,7		0,201	
	B2C	Milk box	Beverage composite carto	0,074745	40		2,990	
		Paper Cup	Paper	0,023745	9,1		0,327	
	B2C		PE	0,123495	0,9			
	B2B	Carboard Box	Cardboard	0,023745	222		5,271	
	B2C	Transparent glass	Glass	0,008145	480		3,981	
	B2C		Aluminium	0,118245	0,6			
	B2C	Canned tomatoes	Steel	0,06387	44		2,810	
B2B	Wooden Box	Wood	0,00387	800		3,096		
	Reusable Plastic b	Plastic, reuse	0,123495	112		13,831		
Germany (BellandVisi on)	B2C	PET bottle	transparent PET	0,114	35		4,218	
	B2C		Hard plastic	0,114	2			
	B2C	Printed LDPE bag	LDPE colour	0,114	5		0,570	
	B2C	Plastic Tray	PET	0,114			0,000	
		Coffee capsule	PP	0,114	4,4		0,502	
	B2B	Stretch film HDPE	HDPE transparent	0,114	1000		114,000	
	B2C	Bioplastic	Bioplastic	0,114	7		0,798	
	B2C	Coffee capsule	Bioplastic	0,114	3		0,342	
	B2C	Aluminium Can	Aluminium	0,1085	13		1,411	
	B2C	Tray	Aluminium	0,1085	13,7		1,486	
	B2C	Thin sheet	Aluminium	0,1085	28		3,038	
		Coffee capsule	Aluminium	0,1085	1,7		0,184	
	B2C	Milk box	Beverage composite carto	0,109	40		4,360	
		Paper Cup	Paper	0,022	9,1		0,303	
	B2C		PE	0,114	0,9			
	B2B	Carboard Box	Cardboard	0,022	222		4,884	
	B2C	Transparent glass	Glass	0,0104	480		5,057	
	B2C		Aluminium	0,1085	0,6			
	B2C	Canned tomatoes	Steel	0,107	44		4,708	
B2B	Wooden Box	Wood	0,0089	800		7,120		
	Reusable Plastic b	Plastic, reuse	0,114	112		12,768		
Greece	B2C	PET bottle	transparent PET	0,00705	35	0,4	0,661	
	B2C		Hard plastic	0,00705	2			
	B2C	Printed LDPE bag	LDPE colour	0,00705	5	0,4	0,435	
	B2C	Plastic Tray	PET	0,00705		0,4	0,400	
		Coffee capsule	PP	0,00705	4,4	0,4	0,431	
	B2B	Stretch film HDPE	HDPE transparent	0,00705	1000	0,4	7,450	
	B2C	Bioplastic	Bioplastic	0,00705	7	0,4	0,449	
	B2C	Coffee capsule	Bioplastic	0,00705	3	0,4	0,421	
	B2C	Aluminium Can	Aluminium	0,00105	13	0,4	0,414	
	B2C	Tray	Aluminium	0,00105	13,7	0,4	0,414	
	B2C	Thin sheet	Aluminium	0,00105	28	0,4	0,429	
	Coffee capsule	Aluminium	0,00105	1,7	0,4	0,402		

	B2C	Milk box	Paper	0,00705	40	0,4	0,682
		Paper Cup	Paper	0,00555	9,1	0,4	0,457
	B2C		PE	0,00705	0,9		
	B2B	Carboard Box	Cardboard	0,00555	222	0,4	1,632
	B2C	Transparent glass	Glass	0,00185	480	0,4	1,289
	B2C		Aluminium	0,00105	0,6		
	B2C	Canned tomatoes	Steel	0,0021	44	0,4	0,492
	B2B	Wooden Box	Wood	0,00101	800	0,4	1,208
		Reusable Plastic b	Plastic, reuse	0,00705	112	0,4	1,190
Ireland	B2C	PET bottle	transparent PET	0,01697	35		0,628
	B2C		Hard plastic	0,01697	2		
	B2C	Printed LDPE bag	LDPE colour	0,01697	5		0,085
	B2C	Plastic Tray	PET	0,01697			0,000
		Coffee capsule	PP	0,01697	4,4		0,075
	B2B	Stretch film HDPE	HDPE transparent	0,01697	1000		16,970
	B2C	Bioplastic	Bioplastic	0,01697	7		0,119
	B2C	Coffee capsule	Bioplastic	0,01697	3		0,051
	B2C	Aluminium Can	Aluminium	0,000914	13		0,012
	B2C	Tray	Aluminium	0,000914	13,7		0,013
	B2C	Thin sheet	Aluminium	0,000914	28		0,026
		Coffee capsule	Aluminium	0,000914	1,7		0,002
	B2C	Milk box	Beverage composite carto	0,01697	40		0,679
		Paper Cup	Paper	0,01697	9,1		0,170
	B2C		PE	0,01697	0,9		
	B2B	Carboard Box	Cardboard	0,00456	222		1,012
	B2C	Transparent glass	Glass	0,002314	480		1,111
	B2C		Aluminium	0,000914	0,6		
	B2C	Canned tomatoes	Steel	0,006876	44		0,303
	B2B	Wooden Box	Wood	0,001818	800		1,454
	Reusable Plastic b	Plastic, reuse	0,01697	112		1,901	
Italy	B2C	PET bottle	transparent PET	0,0228	35		0,844
	B2C		Hard plastic	0,0228	2		
	B2C	Printed LDPE bag	LDPE colour	0,0724	5		0,362
	B2C	Plastic Tray	PET	0,01697			0,000
		Coffee capsule	PP	0,079	4,4		0,348
	B2B	Stretch film HDPE	HDPE transparent	0,0258	1000		25,800
	B2C	Bioplastic	Bioplastic	0,013	7		0,091
	B2C	Coffee capsule	Bioplastic	0,013	3		0,039
	B2C	Aluminium Can	Aluminium	0,0012	13		0,016
	B2C	Tray	Aluminium	0,0012	13,7		0,016
	B2C	Thin sheet	Aluminium	0,0012	28		0,034
		Coffee capsule	Aluminium	0,0012	1,7		0,002
	B2C	Milk box	Beverage composite carto	0,0115	40		0,460
		Paper Cup	Beverage composite carto	0,0045	10		0,045
	B2B	Carboard Box	Cardboard	0,0045	222		0,999
	B2C	Transparent glass	Glass	0,004	480		1,921
	B2C		Aluminium	0,0012	0,6		
	B2C	Canned tomatoes	Steel	0,0005	44		0,022
	B2B	Wooden Box	Wood	0,001	800		0,800
	B2C	Reusable Plastic b	Plastic, reuse	0,0724	112		8,109
Luxembourg	B2C	PET bottle	transparent PET	0,02498	35		0,935
	B2C		Hard plastic	0,03058	2		
	B2C	Printed LDPE bag	LDPE colour	0,0712	5		0,356
	B2C	Plastic Tray	PET	0,02498			0,000
		Coffee capsule	PP	0,04279	4,4		0,188
	B2B	Stretch film HDPE	HDPE transparent	0,00395	1000		3,950
	B2C	Bioplastic	Bioplastic	0,0712	7		0,498
	B2C	Coffee capsule	Bioplastic	0,0712	3		0,214
	B2C	Aluminium Can	Aluminium	0,00151	13		0,020
	B2C	Tray	Aluminium	0,00151	13,7		0,021
	B2C	Thin sheet	Aluminium	0,00151	28		0,042
		Coffee capsule	Aluminium	0,00151	1,7		0,003
		Milk box	Beverage composite carto	0,0281	40		1,124
	B2C	Paper Cup	Beverage composite carto	0,00389	10		0,039
	B2B	Carboard Box	Cardboard	0,00145	222		0,322
	B2C	Transparent glass	Glass	0,00203	480		0,975
	B2C		Aluminium	0,00151	0,6		
	B2C	Canned tomatoes	Steel	0,00396	44		0,174
	B2B	Wooden Box	Wood	0,00145	800		1,160
		Reusable Plastic b	Plastic, reuse	0,0712	112		7,974
Macedonia	B2C	PET bottle	transparent PET	0,004944	35		0,183
	B2C		Hard plastic	0,004944	2		
	B2C	Printed LDPE bag	LDPE colour	0,004944	5		0,025
	B2C	Plastic Tray	PET	0,004944			0,000
		Coffee capsule	PP	0,004944	4,4		0,022
	B2B	Stretch film HDPE	HDPE transparent	0,004944	1000		4,944
	B2C	Bioplastic	Bioplastic	0,004944	7		0,035
	B2C	Coffee capsule	Bioplastic	0,004944	3		0,015
	B2C	Aluminium Can	Aluminium	0,00553728	13		0,072
	B2C	Tray	Aluminium	0,00553728	13,7		0,076
	B2C	Thin sheet	Aluminium	0,00553728	28		0,155
		Coffee capsule	Aluminium	0,00553728	1,7		0,009
	B2C	Milk box	Composite	0,004944	40		0,198
	B2C	Paper Cup	Paper	0,00385632	9,1		0,040
	B2C		PE	0,004944	0,9		
	B2B	Carboard Box	Cardboard	0,00385632	222		0,856
	B2C	Transparent glass	Glass	0,00553728	480		2,661

	B2C	transparen glass	Aluminium	0,00553728	0,6	4,884
	B2C	Canned tomatoes	Steel	0,00454848	44	0,200
	B2B	Wooden Box	Wood	0,00365856	800	2,927
		Reusable Plastic b	Plastic, reuse	0,004944	112	0,554
Malta	B2C	PET bottle	transparent PET	0,0205	35	0,759
	B2C		Hard plastic	0,0205	2	
	B2C	Printed LDPE bag	LDPE colour	0,0205	5	0,103
	B2C	Plastic Tray	PET	0,0205		0,000
		Coffee capsule	PP	0,0205	4,4	0,090
	B2B	Stretch film HDPE	HDPE transparent	0,007031	1000	7,031
	B2C	Bioplastic	Bioplastic	0,0205	7	0,144
	B2C	Coffee capsule	Bioplastic	0,0205	3	0,062
	B2C	Aluminium Can	Aluminium	0,0202	13	0,263
	B2C	Tray	Aluminium	0,0202	13,7	0,277
	B2C	Thin sheet	Aluminium	0,0202	28	0,566
		Coffee capsule	Aluminium	0,0202	1,7	0,034
	B2C	Milk box	Paper	0,0203	40	0,812
		Paper Cup	Paper	0,0203	9,1	0,203
			PE	0,0205	0,9	
	B2B	Carboard Box	Cardboard	0,007031	222	1,561
	B2C	Transparent glass	Glass	0,0147	480	7,068
	B2C	Canned tomatoes	Steel	0,0207	44	0,911
	B2B	Wooden Box	Wood	0,006798	800	5,438
		Reusable Plastic b	Plastic, reuse	0,0205	112	2,296
Netherlands	B2C	PET bottle	transparent PET	0,132	35	4,864
	B2C		Hard plastic	0,122	2	
	B2C	Printed LDPE bag	LDPE colour	0,132	5	0,660
	B2C	Plastic Tray	PET	0,132		0,000
		Coffee capsule	PP	0,122	4,4	0,537
	B2B	Stretch film HDPE	HDPE transparent	0,132	1000	132,000
	B2C	Bioplastic	Bioplastic	0,132	7	0,924
	B2C	Coffee capsule	Bioplastic	0,122	3	0,366
	B2C	Aluminium Can	Aluminium	0,034	13	0,442
	B2C	Tray	Aluminium	0,034	13,7	0,466
	B2C	Thin sheet	Aluminium	0,034	28	0,952
		Coffee capsule	Aluminium	0,034	1,7	0,058
	B2C	Milk box	Beverage composite carto	0,092	40	3,680
		Paper Cup	Paper	0,0017	9,1	0,134
			PE	0,132	0,9	
	B2B	Carboard Box	Cardboard	0,0017	222	0,377
	B2C	Transparent glass	Glass	0,01	480	4,820
	B2C	Canned tomatoes	Steel	0,036	44	1,584
	B2B	Wooden Box	Wood	0,0015	800	1,200
		Reusable Plastic b	Plastic, reuse	0	112	0,000
Portugal	B2C	PET bottle	transparent PET	0,05432	35	2,010
	B2C		Hard plastic	0,05432	2	
	B2C	Printed LDPE bag	LDPE colour	0,05432	5	0,272
	B2C	Plastic Tray	PET	0,05432		0,000
		Coffee capsule	PP	0,05432	4,4	0,239
	B2B	Stretch film HDPE	HDPE transparent	0,00051	1000	0,510
	B2C	Bag	Bioplastic	0,05432	7	0,380
	B2C	Coffee capsule	Bioplastic	0,05432	3	0,163
	B2C	Aluminium Can	Aluminium	0,00399	13	0,052
	B2C	Tray	Aluminium	0,00399	13,7	0,055
	B2C	Thin sheet	Aluminium	0,00399	28	0,112
		Coffee capsule	Aluminium	0,00399	1,7	0,007
	B2C	Milk box	Beverage composite carto	0,0514	40	2,056
		Paper Cup	Paper	0,03104	9,1	0,331
			PE	0,05432	0,9	
	B2B	Carboard Box	Cardboard	0,00077	222	0,171
	B2C	Transparent glass	Glass	0,00868	480	4,169
	B2C	Canned tomatoes	Steel	0,00399	0,6	
	B2C	Canned tomatoes	Steel	0,05219	44	2,296
	B2B	Wooden Box	Wood	0,00045	800	0,360
	Reusable Plastic b	Plastic, reuse	0,05432	112	6,084	
Romania	B2C	PET bottle	transparent PET	0,015	35	0,555
	B2C		Hard plastic	0,015	2	
	B2C	Printed LDPE bag	LDPE colour	0,009	5	0,045
	B2C	Plastic Tray	PET	0,015		0,000
		Coffee capsule	PP	0,009	4,4	0,040
	B2B	Stretch film HDPE	HDPE transparent	0,008	1000	8,000
	B2C	Bioplastic	Bioplastic	0,009	7	0,063
	B2C	Coffee capsule	Bioplastic	0,009	3	0,027
	B2C	Aluminium Can	Aluminium	0,0158	13	0,205
	B2C	Tray	Aluminium	0,0158	13,7	0,216
	B2C	Thin sheet	Aluminium	0,0158	28	0,442
		Coffee capsule	Aluminium	0,0158	1,7	0,027
	B2C	Milk box	Paper	0,0088	40	0,352
		Paper Cup	Paper	0,0088	9,1	0,088
			PE	0,009	0,9	
	B2B	Carboard Box	Cardboard	0,0079	222	1,754
	B2C	Transparent glass	Glass	0,0104	480	5,001
	B2C	Canned tomatoes	Aluminium	0,0158	0,6	
	B2C	Canned tomatoes	Steel	0,0088	44	0,387
	B2B	Wooden Box	Wood	0,0078	800	6,240

		Reusable Plastic b	Plastic, reuse	0,009	112		1,008
Spain	B2C	PET bottle	transparent PET	0,0271	35	-0,0057	1,076
	B2C	Printed LDPE bag	LDPE colour	0,1243	5		0,622
	B2C	Plastic Tray	PET	0,0271			0,000
		Coffee capsule	PP	0,0759	4,4		0,334
	B2B	Stretch film HDPE	HDPE transparent	0,0177	1000		17,700
	B2C	Bioplastic	Bioplastic	0,0216	7		0,151
	B2C	Coffee capsule	Bioplastic	0,0216	3		0,065
	B2C	Aluminium Can	Aluminium	0,004	13		0,052
	B2C	Tray	Aluminium	0,004	13,7		0,055
	B2C	Thin sheet	Aluminium	0,004	28		0,112
		Coffee capsule	Aluminium	0,004	1,7		0,007
	B2C	Milk box	Beverage composite carto	0,0544	40		2,176
		Paper Cup	Paper with plastic	0,0126	10		0,126
	B2B	Cardboard box	Cardboard	0,0041	222		0,910
	B2C	Transparent glass	Glass	0,003515	480	0,498	2,188
	B2C	Aluminium Can	Aluminium	0,004	0,6		
	B2C	Canned tomatoes	Steel	0,0197	44		0,867
	B2B	Wooden Box	Wood	0,002	800		1,600
		Reusable Plastic b	Plastic, reuse	0,0589	112		6,597
	Spain (Comerciales)	B2C	PET bottle	transparent PET	0,021	35	-0,0057
B2C		Printed LDPE bag	LDPE colour	0,012	5		0,060
B2C		Plastic Tray	PET	0,021			0,000
		Coffee capsule	PP	0,021	4,4		0,092
B2B		Stretch film HDPE	HDPE transparent	0,012	1000		12,000
B2C		Bioplastic	Bioplastic	0,0022	7		0,015
B2C		Coffee capsule	Bioplastic	0,021	3		0,063
B2C		Aluminium Can	Aluminium	0,0022	13		0,029
B2C		Tray	Aluminium	0,0022	13,7		0,030
B2C		Thin sheet	Aluminium	0,0022	28		0,062
		Coffee capsule	Aluminium	0,0022	1,7		0,004
B2C		Milk box	Paper	0,0017	40		0,068
		Paper Cup	Paper	0,0017	9,1		0,017
B2C		Carboard Box	PE	0,0022	0,9		
B2B		Carboard Box	Cardboard	0,0017	222		0,377
B2C		Transparent glass	Glass	0,003515	480		1,689
B2C		Aluminium Can	Aluminium	0,0022	0,6		
B2C		Canned tomatoes	Steel	0,0022	44		0,097
B2B		Wooden Box	Wood	0,0015	800		1,200
		Reusable Plastic b	Plastic, reuse	0,0022	112	20	20,246
Sweden	B2C	PET bottle	transparent PET	0,12462	35		4,611
	B2C	Printed LDPE bag	LDPE colour	0,12462	5		0,623
	B2C	Plastic Tray	PET	0,12462			0,000
		Coffee capsule	PP	0,167586	4,4		0,737
	B2B	Stretch film HDPE	HDPE transparent	0,00093	1000		0,930
	B2C	Bag	Bioplastic	0,12462	7		0,872
	B2C	Coffee capsule	Bioplastic	0,167586	3		0,503
	B2C	Aluminium Can	Aluminium	0,117087	13		1,522
	B2C	Tray	Aluminium	0,117087	13,7		1,604
	B2C	Thin sheet	Aluminium	0,117087	28		3,278
		Coffee capsule	Aluminium	0,117087	1,7		0,199
	B2C	Milk box	Paper	0,062031	40		2,481
	B2C	Paper Cup	Paper	0,062031	10		0,620
	B2B	Carboard Box	Cardboard	0,000093	222		0,021
	B2C	Transparent glass	Glass	0,019344	480		9,355
	B2C	Aluminium Can	Aluminium	0,117087	0,6		
	B2C	Canned tomatoes	Steel	0,199857	44		8,794
	B2B	Wooden Box	Wood	0,000465	800		0,372
		Reusable Plastic b	Plastic, reuse	0,000465	112		0,052
	UK	B2C	PET bottle	transparent PET	0,028589	35	
B2C		Printed LDPE bag	LDPE colour	0,028589	5		0,143
B2C		Plastic Tray	PET	0,028589			0,000
		Coffee capsule	PP	0,02859	4,4		0,126
B2B		Stretch film HDPE	HDPE transparent	0,028589	1000		28,589
B2C		Bioplastic	Bioplastic	0,028589	7		0,200
B2C		Coffee capsule	Bioplastic	0,028589	3		0,086
B2C		Aluminium Can	Aluminium	0,0007015	13		0,009
B2C		Tray	Aluminium	0,0007015	13,7		0,010
B2C		Thin sheet	Aluminium	0,0007015	28		0,020
		Coffee capsule	Aluminium	0,0007015	1,7		0,001
B2C		Milk box	Paper	0,00001725	40		0,001
		Paper Cup	Paper	0,00001725	9,1		0,026
B2C		Carboard Box	PE	0,028589	0,9		
B2B		Carboard Box	Cardboard	0,00001725	222		0,004
B2C		Transparent glass	Glass	0,0115023	480		5,522
B2C		Aluminium Can	Aluminium	0,0007015	0,6		
B2C		Canned tomatoes	Steel	0,000575	44		0,003
B2B		Wooden Box	Wood	0,00057385	800		0,459
		Reusable Plastic b	Plastic, reuse	0	112		0,000

Overview of available recycling rates:

Country	Main PRO	Aggregate Fee	2024		2023		2022		Country recycling rate 2021	comment:
Austria*	ARA	57,39	n/a	n/a yet	96,1%	64,9%	66,2%	90,0%	65,8%	
Belgium	VALipac	10,93	80%	n/a yet	90,90%	79,7%	80,40%			https://expra.eu/countries/belgium/
Belgium	FostPlus	482,66	80%	n/a yet	97%	79,7%	80,4%	95,0%	80,4%	https://expra.eu/countries/belgium/
Bulgaria	ECOPACK	30,32	n/a yet	n/a yet	59,3%	-	58,3%	61,0%	n/a	average of all recycling rates for glass, paper, plastics, composites, tinplate and aluminum
Cyprus*	GREEN DOT CYPRUS	9,91	73%	n/a yet	89,8%	-	69,5%	89,0%	63,5%	https://greendot.com.cy/our-company/annual-reports/
Czech Republic	EKO-COM	27,94	86%	86%	86,0%	-	74,8%	70,8%	68,0%	https://expra.eu/countries/czech-republic/
Denmark			49%				62,7%	64,9%		https://expra.eu/countries/denmark/
Estonia	ETO	29,89	62%	n/a yet	57,9%		68,5%	73,0%	57,8%	70,4%
Finland	FPP	12,85	-	90%	n/a		59,4%	57,8%	66,0%	72,5%
Finland	Sumi Oy	22,17	-	n/a yet	n/a		59,4%	57,8%	66,0%	
France*	CITEO	122,93	n/a	n/a	n/a		69,0%	67,2%	65,5%	61,8%
Germany*	RECLAY	169,44	n/a yet	n/a yet	country: 90%		69,4%	68,5%		72 % in 2021: https://bo.citeo.com/sites/default/files/2023-
Germany*	BellandVision	165,75	n/a yet	n/a yet	country: 90%		69,4%	68,5%		67,5 % in 2022 for plastics: https://www.umweltbundesamt.de/presse/pressemittelungen/al
Greece	HERRCo	16,01	49%	n/a	n/a		48,0%	43%	n/a	https://expra.eu/countries/greece/
Ireland	Repak	24,61	n/a yet	n/a yet	n/a yet		61,0%	62%	63,0%	
Italy	CONAI	39,91	80%		73,3%		75,6%	71,9%	73,3%	https://expra.eu/countries/italy/
Luxembourg	VALORLUX	18,00	n/a yet	n/a yet	71,3%		66,1%	63,7%	n/a	73,7%
Macedonia	PAKOMAK	10,72		n/a	n/a		n/a	n/a		https://www.oecd.org/content/dam/oecd/en/publications/reports/2024/03/a-roadmap-tow
Malta	GreenPak	25,17					44,4%	31,8%		40,9%
Netherlands*	Verpact	153,75	n		88,0%		75,8%	75,2%	88,0%	last rate 2012: 58,39 % recycled, https://expra.eu/countries/malta/
Poland	Rekopak	around 73					67,4%	64,0%		88% for 2022: https://www.verpact.nl/en/node/390
Portugal*	SPV	19,27					61,8%	61,1%	n/a	
Romania	ECO-ROM	24,45						37,3%	63,0%	country:38,31%
Slovenia	SLOPAK	2,98			79,0%		73,6%	62,6%	n/a	55,1%
Spain	ECOEMBES	34,64			80,2%		70,5%	69,4%	80,2%	31.510 recycled --> 36.437 put on the market
Spain	Ecoembes comercial	36,82					70,5%	69,4%		https://expra.eu/countries/spain/
Sweden	NPA	36,70	86%		59,6%		68,5%	66,3%	65,0%	59,6%
UK	VALPAK	36,26	53%		60,9%		-		n/a	https://expra.eu/countries/sweden/
1	Source for PRO, if not mentioned otherwise	https://expra.eu/wp-content/uploads/2023/11/EXTERNAL_EXPRO-2023-Brochure-INTERNAL-copia.pdf								
2	Source for country, if not mentioned otherwise	https://ec.europa.eu/eurostat/databrowser/view/env_waspacr/default/table?lang=en&category=env_was.env_wasst								