

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 22 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.

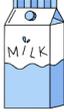
| | B2C | B2B |
|-------------------|---|--|
| Plastic |  Transparent PET bottle 35g bottle 2g cap  Printed LDPE bag 5g  Coffee Capsule (PP) 4,4g |  Stretch film HDPE 1kg |
| Bio-Plastic |  Shopper bag 7g  Coffee Capsule 3g | |
| Aluminium |  Drinking can 33cl 13g  Tray 13,7g  Thin sheet 28g  Coffee 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 22 PROs with fees already published.

| Country | PRO |
|---------|-----|
|---------|-----|

| | |
|-----------------------|--|
| 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 |
| Ireland | Repak |
| Italy | CONAI |
| Luxembourg | VALORLUX |
| 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 14th February 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.
- **H.E.R.R.C.O. (Greece):** We reached out to PRO Europe and we were told that the fees will be published “soon”.
- **Pakomak (Macedonia):** We reached out to PRO Europe and we were told that the fees will be published “soon”.
- **GreenPak (Malta):** We reached out to PRO Europe and we were told that the fees will be published “soon”.
- **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), 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
- Ireland (Repak): “Bag for Life” counts as packaging, thus falls under the EPR fee.⁸
- 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).⁹
- Luxembourg (Valorlux): The bag doesn’t fall under the definition of “reusable”. Normal plastic bag fee applies.
- Netherlands (Verpact): A “Big Shopper” doesn’t count as packaging; thus, no fee is applied.¹⁰
- Portugal (Pontoverde): Doesn’t fall under the definition of reusable packaging as it is not returned to the store. Normal plastic bag fee applies.
- 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.

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

⁹ https://www.conai.org/wp-content/uploads/2025/12/Lists-plastic-packaging_fee-bands_1-January-2026.pdf

¹⁰ <https://www.verpact.nl/nl/verpakkingencatalogus/big-shopper>

- UK: Carrier bags do not fall under EPR scheme when they are sold to end user as a product (“for example, bag for life”).¹¹

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 Eurostat¹², except for the UK, where Statista¹³ 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).
- 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.

¹¹ <https://npwd.environment-agency.gov.uk/FileDownload.ashx?FileId=ba140189-21c2-40d6-99c5-a8d8add8a4d6>

¹² https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_15114556/default/table?lang=en

¹³ <https://www.statista.com/statistics/476098/packaging-waste-and-recycling-uk/>

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.¹⁴ 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.¹⁵

¹⁴ <https://www.valpak.co.uk/epr-drs/epr-for-packaging/>

¹⁵ <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 | | | |
| 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 | ECOROM | 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 | 0,001 | 0,03 | 5,52 | 0,00 | 0,00 | 7,20 | 1,47 |
| 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 |
| 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/ 1,85 | 0,69 | 0,35/ 1,85 | 0,46 | 0,43 | 0,78 | 0,138/ 1,85 | 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 | 0,08 | 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 |
| Greece | H.E.R.R. C.O | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Macedonia | PAKO- MAK | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Malta | Green- Pak | 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 |

* 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 Bulgaria (PET), Romania (other 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 Finland (FPP; 0,95 ct), followed by Ireland (1,34 ct) and the Romania (1,47 ct). 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 the Romania, they have the lowest values for several plastic categories, thus resulting in an overall low aggregate fee indicator.

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-KOM | 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 |
| 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 |
| Slovenia | SLOPAK | n/a | n/a | n/a | n/a | n/a |
| Cyprus | Green Dot Cyprus | n/a | n/a | n/a | n/a | n/a |
| Malta | GreenPak | 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.¹⁶

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.¹⁷ 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.¹⁸

¹⁶ <https://www.revistapackaging.pt/index.php/actualidade/2162-sociedade-ponto-verde-assumira-gestao-de-embalagens-industriais-e-comerciais-em-2025?>

¹⁷ https://www.conai.org/en/businesses/environmental-contribution/plastic-modulated-fee/?utm_source=chatgpt.com

¹⁸ <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% |
| 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% |
| 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 |

| | | | | | | | | | | |
|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Greece | H.E.R.R.C.O | n/a |
| Macedonia | PAKOMAK | n/a |
| Malta | GreenPak | n/a |
| Slovenia | SLOPAK | 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) is the only country without any changes and only three countries 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.¹⁹ 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.²⁰ 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.”²¹

¹⁹ <https://www.ecoembestransparencia.com/gastos-e-ingresos/>

²⁰ https://www.conai.org/wp-content/uploads/2025/11/Press-release_EPR-fee-changes_2026.pdf

²¹ <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.²²

The countries with the highest increases are Finland (Sumi Oy), France (CITEO), Ireland (REPAK), Sweden (NPA) 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 2026.²³

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.²⁴ 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.”²⁵

NPA (Sweden) notes a slight change in the exchange rate (1 SEK = from 0.087 EUR to 0.093 EUR). It 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.²⁶

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

²² <https://www.ekokom.cz/en/other/system-results/>

²³ https://sumi.fi/en/news/toimitusjohtajan-katsaus-syyskuu?_gl=1*1fqgz4x*_up*MQ..*_ga*MTI3MDgxNzI1MS4xNzcwMjgzM-zlx*_ga_ZB6Q1YPB6D*czE3NzAyODMzMjAkzEkzEkdDE3NzAyODMzNjEkaJE5JGwwJGgw

²⁴ <https://www.citeo.com/le-mag/bilan-et-perspectives/>

²⁵ <https://repa.ie/about-us/faq/>

²⁶ <https://npa.se/en/producer-responsibility/packaging-fees>

investments in new recycling solutions and in the post-sorting of residual waste streams to improve material recovery.²⁷

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% |
| 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 |
| Malta | PAKOMAK | 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.

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.²⁸ For Finland (FPP) and ECO-Rom, the available documentation does not provide detailed information on how EPR fees are calculated or determined.

²⁷ <https://www.fostplus.be/en/blog/everything-you-need-to-know-about-green-dot-rates-for-2026>

²⁸ <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% |
| 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-KOM | 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 |
| Greece | H.E.R.R.C.O | n/a | n/a |
| Macedonia | PAKOMAK | n/a | n/a |
| Malta | GreenPak | 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: 0.45) 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, the United Kingdom, and Bulgaria. All three countries are also among those with the lowest aggregate fee indicators (third lowest for the UK, fourth lowest for Romania, and fifth lowest for Bulgaria), which may point to a need for increased investment to improve recycling performance. At the same time, these figures reflect country-level recycling rates, and the actual performance of individual PROs within these countries may vary. In addition, the data are based on 2023 figures, and recycling rates may have changed since then.

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% |
| Finland | Sumi Oy | 1,25 | 59,4% |
| Finland | FPP | 1,64 | 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-KOM | 1,27 | 74,8% |
| Italy | CONAI | 4,92 | 75,6% |
| Belgium | Valipac | 1,96 | 79,7% |
| Malta | GreenPak | n/a | n/a |
| 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

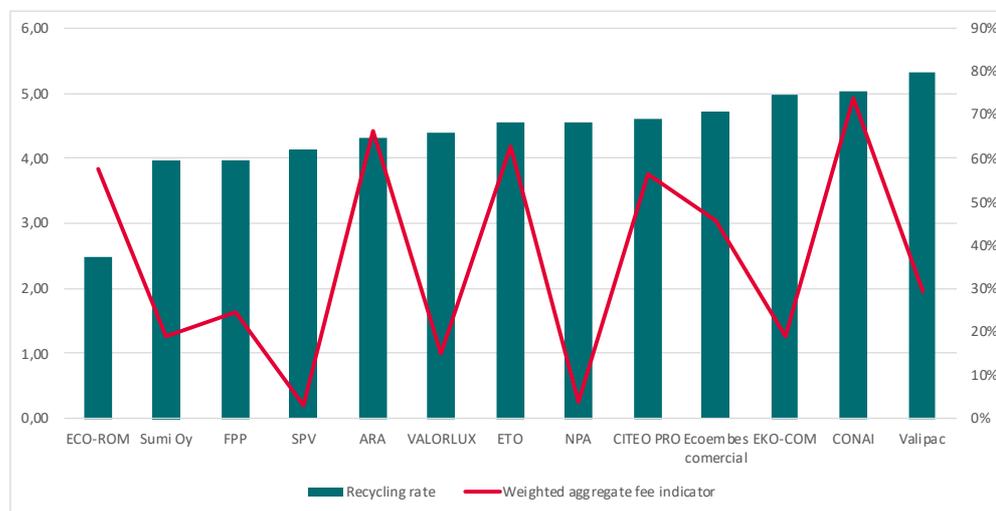


Figure 3: Correlation of weighted aggregate fee indicators for B2B products and recycling rates

In contrast to B2C PROs, the correlation coefficient for B2B PROs is -0.0345 , 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 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) was the only country 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 (0.45) 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 (-0.0345), 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 | Financement réemploi | 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 Capsule | PP | 4,4 | 0,07701 | 1 | 0,0915 | 0,005 | | | 0,4353 |
| Stretch film | 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 Capsule | Bioplastic (PLA) | 3 | 0,08401 | 1 | 0,0915 | 0,005 | | | 0,3485 |
| Aluminium Can | 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 Capsule | 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 | | | | | | |
| Cardboard 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 tomato | 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 Plastic | 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.

Overview of available recycling rates:

| A | B | C | D | E | F | G | H | I | J | K |
|----------------|--|---|-----------|---------|--------------|-------|--------|-------|-----------------------------|---|
| Country | Main PRO | Aggregate Fee | 2024 | 2024 | 2023 | 2023 | 2022 | 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% | | 65,8% | 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% | 69,1% |
| 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/a/ |
| 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 | 40,9% | https://www.oecd.org/content/dam/oecd/en/publications/reports/2024/03/a-roadmap-tow |
| Malta | GreenPak | 25,17 | | | | | 44,4% | 31,8% | | last rate 2012: 58,39 % recycled, https://expra.eu/countries/malta/ |
| Netherlands* | Verpact | 153,75 | | n | 88,0% | | 75,8% | 75,2% | 88,0% | 88% for 2022: https://www.verpact.nl/en/node/390 |
| Poland | Rekopak | | around 73 | | | | 67,4% | 64,0% | | |
| 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 comerciale | 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 | | | | | | | | |

| Country | B2? | Product | Material | Indicator (cent per g) | gram | Additional cost (€) | Fee indicator |
|---------------------|--------------------|--------------------|--------------------------|------------------------|------|---------------------|---------------|
| Austria | B2C | PET bottle | transparent PET | 0,104 | 35 | | 3,848 |
| | B2C | | 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 | | | | | | |
| | B2C | Paper Cup | Paper | 0,0208 | 9,1 | | 0,283 |
| | B2C | | PE | 0,104 | 0,9 | | |
| | B2B | Carboard Box | Cardboard | 0,007 | 222 | | 1,554 |
| | B2C | Transparent glass | Glass | 0,0108 | 480 | | 5,213 |
| | B2C | | 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 | | 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 | | | | | | |
| | B2C | Paper Cup | Paper | 0,002 | 9,1 | | 0,024 |
| | B2C | | PE | 0,0063 | 0,9 | | |
| | B2B | Carboard Box | Cardboard | 0,002 | 222 | | 1,404 |
| | B2C | Transparent glass | Glass | 0,002 | 480 | | 0,961 |
| | B2C | | 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 | | Hard plastic | 0,11931 | 2 | | |
| | B2C | Printed LDPE bag | LDPE colour | 0,10804 | 5 | | 0,540 |
| | B2C | Plastic Tray | PET | 0,03604 | | | 0,000 |
| | | 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 |
| | | Coffee capsule | Aluminium | 0,04513 | 1,7 | | 0,077 |
| | B2C | Milk box | Beverage composite carto | 0,0808 | 40 | | 3,232 |
| | | 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 | | Aluminium | 0,00491 | 0,6 | | |
| | B2C | Canned tomatoes | Steel | 0,01864 | 44 | | 0,820 |
| | B2B | Wooden Box | Wood | 0,4419 | 800 | | 353,520 |
| | | Reusable Plastic b | Plastic, reuse | | 112 | 1,98 | 1,980 |
| Bulgaria | B2C | PET bottle | transparent PET | 0,0151 | 35 | | 0,554 |
| | B2C | | Hard plastic | 0,0125 | 2 | | |
| | B2C | Printed LDPE bag | LDPE colour | 0,0125 | 5 | | 0,063 |
| | B2C | Plastic Tray | PET | 0,0151 | | | 0,000 |
| | | 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 |
| | | Coffee capsule | Aluminium | 0,0152 | 1,7 | | 0,026 |
| | B2C | Milk box | Beverage composite carto | 0,0174 | 40 | | 0,696 |

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|---------------|----------------|--------------------|--------------------------|----------------|-------|--------|
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| | | | | | | |
| | B2C | Paper Cup | Paper | 0,0118 | 9,1 | 0,119 |
| | | | PE | 0,0125 | 0,9 | |
| | B2B | Cardboard Box | Cardboard | 0,0118 | 222 | 2,620 |
| | B2C | Transparent glass | Glass | 0,0144 | 480 | 6,921 |
| | B2C | | Aluminium | 0,0152 | 0,6 | |
| | B2C | Canned tomatoes | Steel | 0,0066 | 44 | 0,290 |
| | B2B | Wooden Box | Wood | 0,0069 | 800 | 5,520 |
| | | Reusable Plastic b | Plastic, reuse | 0 | 112 | 0,000 |
| Czech Rep. | B2C | PET bottle | transparent PET | 0,06168 | 35 | 2,339 |
| | B2C | | Hard plastic | 0,09034 | 2 | |
| | 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 | 1,702 |
| | 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 |
| 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 |
| | 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 | |

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|-----------------------|--------------------|-------------------|--------------------------|------------------------|--------|----------|
| Finland (Sumi Oy) | 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 | |
| France (CITEO) | 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 |
| | B2C | Aluminium Can | Aluminium | | 13 | 0,46472 |
| | B2C | Tray | | | 13,7 | 0,432858 |
| | B2C | Thin sheet | | see own sheet "France" | 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 (Reclay) | 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 | |
| | 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 |

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|--------------------------------|--------------------|-------------------|--------------------------|----------|--------|---------|
| Germany (BellandVisi on) | 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 | 0,022 | 9,1 | 0,303 |
| | B2C | Paper Cup | PE | 0,114 | 0,9 | |
| | B2B | Carboard Box | Cardboard | 0,022 | 222 | 4,884 |
| | B2C | Transparent glass | Glass | 0,0104 | 480 | |
| | B2C | | Aluminium | 0,1085 | 0,6 | 5,057 |
| | 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 | |
| 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 | 0,01697 | 9,1 | 0,170 |
| | B2C | Paper Cup | PE | 0,01697 | 0,9 | |
| | B2B | Carboard Box | Cardboard | 0,00456 | 222 | 1,012 |
| | B2C | Transparent glass | Glass | 0,002314 | 480 | |
| B2C | Aluminium | | 0,000914 | 0,6 | 1,111 | |
| 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 | |
| | B2C | | Hard plastic | 0,0228 | 2 | 0,844 |
| | 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 |
| | | | Beverage composite carto | 0,0045 | 10 | 0,045 |
| | B2B | Carboard Box | Cardboard | 0,0045 | 222 | 0,999 |
| | B2C | Transparent glass | Glass | 0,004 | 480 | |
| | B2C | | Aluminium | 0,0012 | 0,6 | 1,921 |
| 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 | |
| | B2C | | Hard plastic | 0,03058 | 2 | 0,935 |
| | 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 | |
| | B2C | | Aluminium | 0,00151 | 0,6 | 0,975 |
| B2C | Canned tomatoes | Steel | 0,00396 | 44 | 0,174 | |

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|-------------|--------------------|--------------------|--------------------------|---------|------|---------|---------|
| | B2B | Wooden Box | Wood | 0,00145 | 800 | | 1,160 |
| | | Reusable Plastic b | Plastic, reuse | 0,0712 | 112 | | 7,974 |
| 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 |
| | B2C | | PE | 0,132 | 0,9 | | |
| | B2B | Carboard Box | Cardboard | 0,0017 | 222 | | 0,377 |
| | B2C | Transparent glass | Glass | 0,01 | 480 | | 4,820 |
| | B2C | | Aluminium | 0,034 | 0,6 | | |
| | 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 |
| | B2C | | PE | 0,05432 | 0,9 | | |
| | B2B | Carboard Box | Cardboard | 0,00077 | 222 | | 0,171 |
| | B2C | Transparent glass | Glass | 0,00868 | 480 | | 4,169 |
| | B2C | | Aluminium | 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 |
| | B2C | | PE | 0,009 | 0,9 | | |
| | B2B | Carboard Box | Cardboard | 0,0079 | 222 | | 1,754 |
| | B2C | Transparent glass | Glass | 0,0104 | 480 | | 5,001 |
| | B2C | | 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 | | Hard plastic | 0,067 | 2 | | |
| | 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 | 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 | 0,773 |
| | B2C | | Hard plastic | 0,021 | 2 | | |
| | 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 | | 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 | 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 | | Hard plastic | 0,12462 | 2 | | |
| | 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 | 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 | | 1,058 |
| | B2C | | Hard plastic | 0,028589 | 2 | | |
| | 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 | | 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 | 0,0007015 | 0,6 | | |
| | B2C | Canned tomatoes | Steel | 0,0000575 | 44 | | 0,003 |
| | B2B | Wooden Box | Wood | 0,00057385 | 800 | | 0,459 |
| | Reusable Plastic b | Plastic, reuse | 0 | 112 | | 0,000 | |