

Packaging EPR fee in EU: What are the differences?

Overview and comparison of PRO fees of
July 2025.

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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. Effective since February 2025, 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

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 13 packaging solutions across 27 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.

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 13 different packaging solutions.

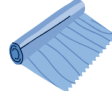
	B2C	B2B
Plastic	 Transparent PET bottle 35g bottle 2g cap  Printed LDPE bag 5g	 Stretch film HDPE 1kg
Bio-Plastic	 Shopper bag 7g	
Aluminium	 Drinking can 33cl 13g  Tray 13,7g	 Thin sheet 28g
Paper / Cardboard	 Milk beverage carton 1 liter 30g paper 8g PE 2g aluminium  Paper cup cold drinks 40 cl 9,1g 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

Figure 1: Overview of the 13 packaging solutions.

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

Table 1: List of the 27 PROs

Country	PRO
Austria	ARA
Belgium	Valipac
Belgium	FostPlus
Bulgaria	ECOPACK
Cyprus	Green Dot Cyprus
Czech Republic	EKO-COM

Estonia	ETO
Finland	Finnish Packaging Producers (FPP)
Finland	Sumi Oy
France	CITEO
France	CITEO Pro
Germany	Reclay
Germany	BellandVision
Greece	HERRCO
Ireland	Repak
Italy	CONAI
Luxembourg	VALORLUX
Macedonia	PAKOMAK
Malta	GreenPak
Netherlands	Verpact
Portugal	Sociedad Ponto Verde (SPV)
Romania	ECO-ROM
Slovenia	SLOPAK
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 2025 were available yet (as of 7th July 2025). Please find details below:

- Dansk Producent Ansvar (Denmark): We enquired with the PRO and received the following response: “We expect that the packaging fees for 2025 will be available on our website in August 2025”. Thus, no fees have been calculated yet.
- 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.”
- Ecovidrio (Spain): As Ecovidrio works with ecoembes and only has its own tariffs for glass (which ecoembes does not have), Ecovidrio's glass tariffs were used in ecoembes' calculations; however, Ecovidrio's own calculations were not used for the other packaging solutions.
- Envipak (Slovakia): 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 six PROs applied a distinct material-specific fee: FostPlus (Belgium), EKO-COM (Czech Republic), Finnish Packaging Producers (Finland), 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). The detailed calculation for the 13 packaging solutions for July 2025 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 ten 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 Eurostat⁵, except for Macedonia, where data was obtained from AmCham Macedonia⁶, and the UK, where Statista⁷ 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. As no additional information were at hand about awareness campaigns or reduced packaging, no bonuses were applied. Similarly, as no recycled content is assumed in the packaging, no incentives were applied. The penalties (such as for small beverage plastic bottles) were not applicable. 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), Reclay (Germany) and ecoembes comerciales/GENCI (Spain): 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.

⁵ https://ec.europa.eu/eurostat/databrowser/view/env_waspac__custom_15114556/default/table?lang=en

⁶ <https://amcham.mk/magazine/smart-packaging-waste-management/>

⁷ <https://www.statista.com/statistics/476098/packaging-waste-and-recycling-uk/>

- 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 27th June 2025) 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. 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.

Outlook

In UK it is announced that in October 2025, additional EPR fees will come into force for large producers.⁸ 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. EPR fees will cover the net costs to local authorities of collecting and managing household packaging waste and will be fixed across a compliance year.

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 2022. While some PROs and national sources have published more recent figures, the 2022 Eurostat data was used consistently to ensure comparability across countries.

For the following countries the approach was slightly different:

- Macedonia: As Eurostat did not provide data for North Macedonia, the 2021 recycling rate from an OECD report was used.⁹
- UK: Since Eurostat also 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.¹⁰

⁸ <https://www.valpak.co.uk/epr-drs/epr-for-packaging/>

⁹ https://www.oecd.org/content/dam/oecd/en/publications/reports/2024/03/a-roadmap-towards-circular-economy-of-north-macedonia_f4d7444c/1973c88c-en.pdf

¹⁰ <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 July 2025 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. Moreover, the detailed calculations can be found in the annex.

Table 2: Aggregate fee indicators for B2C products in July 2025

Countries	PRO	Plastic		Bioplastic	Aluminum			Paper		Glass	Steel	Aggregated fee indicator	Weighted aggregated fee indicator
		Bottle	bag	Shopper	Can	Tray	Thin sheet	Beverage Carton	Paper cup	Bottle	Can		
Slovenia	SLOPAK	0,07	0,01	0,02	0,03	0,02766	0,05653	0,09	0,00	0,03	0,10	0,44	0,07
Macedonia	PAKO-MAK	0,15	0,02	0,03	0,06	0,06508	0,13300	0,17	0,03	2,28	0,18	3,13	0,53
Ireland	REPAK	0,54	0,07	0,10	0,01	0,01052	0,02150	0,58	0,15	0,55	0,30	2,34	0,60
Cyprus	Green Dot	0,37	0,05	0,07	0,03	0,02782	0,05687	0,47	0,15	1,33	0,40	2,94	0,68
Italy	CONAI	0,56	0,36	0,09	0,02	0,01644	0,03360	0,54	0,07	1,68	0,02	3,38	0,76
Finland	FPP	0,81	0,08	0,20	0,04	0,03973	0,08120	0,71	0,18	3,65	0,13	5,91	0,88
Finland	Sumi Oy	0,83	0,08	0,22	0,09	0,09864	0,20160	0,61	0,15	4,47	0,32	7,07	0,92
Luxembourg	Valorlux	0,73	0,36	0,50	0,02	0,01987	0,04060	1,16	0,04	0,85	0,12	3,85	0,96
Greece	H.E.R.R.C. O	0,66	0,44	0,45	0,41	0,41439	0,42940	0,68	0,46	1,29	0,49	5,72	1,05
Romania	ECO-ROM	0,55	0,04	0,06	0,19	0,20194	0,41272	0,34	0,09	4,55	0,38	6,81	1,15
UK	Defra	0,66	0,09	0,12	0,16	0,16792	0,34320	0,01	0,02	4,58	0,07	6,22	1,15
Bulgaria	ECOPAK	0,48	0,06	0,08	0,18	0,19494	0,39841	0,61	0,11	6,35	0,27	8,73	1,64
France	CITEO	2,27	0,43	0,54	0,41	0,26581	0,53250	1,79	0,41	1,07	0,37	8,08	1,82
Estonia	ETO	1,70	0,23	0,32	0,38	0,39730	0,81200	0,46	0,13	5,78	1,14	11,35	2,01
Czech Republic	EKO-Com	2,00	0,35	0,50	0,24	0,24874	1,20702	1,42	0,31	4,28	0,43	10,98	2,04
Spain	Ecoembes	1,49	0,63	0,21	0,08	0,08220	0,16800	2,62	0,22	2,19	0,88	8,57	2,06

Malta	GreenPak	0,76	0,10	0,14	0,26	0,27674	0,56560	0,81	0,20	7,07	0,91	11,10	2,15
Portugal	SPV	1,65	0,22	0,31	0,13	0,13577	0,27748	1,75	0,28	3,71	1,56	10,03	2,30
Belgium	Fost Plus	1,30	0,64	2,74	0,06	0,06590	0,13468	3,27	0,15	4,61	0,49	13,47	3,22
Germany	Reclay	3,83	0,52	0,73	1,32	1,39391	2,84886	4,10	0,28	3,18	4,38	22,58	3,53
Germany	Bellandvi- sion	4,03	0,55	0,76	1,36	1,43165	2,92600	4,48	0,28	4,72	4,39	24,93	3,98
Austria	ARA	3,66	0,50	0,69	0,62	0,65760	1,34400	3,88	0,26	4,92	1,98	18,52	4,07
Netherlands	Verpact	4,86	0,66	1,15	0,39	0,41100	0,84000	3,75	0,36	4,82	1,58	18,84	4,08
Sweden	NPA	3,83	0,52	0,72	1,23	1,29917	2,65524	2,44	0,61	8,74	7,92	29,97	4,68

*The fee indicator for glass was derived from [Ecovidrio](#).

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 Slovenia (plastic, paper, glass), UK (composite/paper), Ireland (aluminum) and Italy (steel).
- Higher in the Netherlands (plastic), Belgium (bioplastic), Germany (aluminum, composites), and Sweden (paper, glass, steel).

Overall, the aggregate weighted fee indicator is lowest in Slovenia (0,07 ct), Macedonia (0,53 ct) and Ireland (0,6 ct). Slovenia's PRO, SLOPAK, has the lowest fee indicators for five out of the 10 packaging solutions, explaining the overall low aggregate indicator in 2025. One potential reason for these lower fees is that the PRO is owned by the producing companies, giving them a direct interest in cost minimization.¹¹ A producer-led PRO may operate more efficiently than an external, state-run, or independent organization.

¹¹ <https://www.slopak.si/lastniki>

On the other hand, the highest weighted aggregate fee indicators were found in Sweden (4,68 ct), Netherlands (4,08 ct) and Austria (4,07 ct). In Sweden, particularly high fees for paper, glass, and steel contribute significantly to the overall high fee indicator. NPA attributes these high fees primarily to the transfer of SEK 1 billion in collection costs from municipalities to producers and the mandated expansion of curbside collection until 2027, which accounts for nearly 70% of packaging fees. Additional cost drivers include logistics, recycling expenses, and regulatory requirements for new collection points, with fees expected to rise further before stabilizing post-2027.¹²

3.2. Aggregate fee indicators July 2025 for B2B products

Table 3: Aggregate fee indicators for B2B products in July 2025

Countries	PRO	Plastic	Cardboard	Wood	Aggregated fee indicator	Weighted aggregated fee indicator
		Stretch film	Box	Box		
Portugal	SPV	0,43	0,14	0,18	0,75	0,17
Slovenia	SLOPAK	2,30	0,02	0,22	2,54	0,48
Sweden	NPA	1,74	0,19	0,35	2,28	0,53
Luxembourg	Valorlux	3,95	0,32	1,16	5,43	0,99
Finland	FPP	5,30	0,06	0,17	5,53	1,03
Finland	Sumi Oy	5,40	0,27	0,21	5,87	1,14
Cyprus	Green Dot Cyprus	3,61	0,91	0,94	5,46	1,27
Czech Republic	EKO-COM	3,49	0,38	6,21	10,08	1,35
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
Romania	ECO-ROM	7,48	1,66	5,98	15,12	3,63
France	CITEO Pro	12,32	1,68	6,06	20,07	3,76
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	1,44	0,72	27,96	5,08

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 (HDPE), Slovenia (Cardboard) and Finland (Wood)
- Higher in the Italy (HDPE), Estonia (Cardboard) and Czech Republic (Wood).

¹² <https://npa.se/en/producer-responsibility/packaging-fees>

Overall, the weighted aggregate fee indicator is lowest in Portugal (0,17 ct), Slovenia (0,48 ct) and Sweden (0,53 ct). For Sociedad PontoVerde (SPV, Portugal), the fees for B2C products are quite high, in the upper third, but for B2B packaging, they are relatively low. This is because Pontoverde has recently expanded its services to include the management of industrial and commercial packaging waste, and as infrastructure continues to develop, fees may increase in the future.¹³

On the other hand, the highest weighted aggregate fee indicators were found in Italy (5,08 ct), Austria (4,42 ct), and Estonia (4,18 ct). According to CONAI's website (Italy), the increase in separately collected plastic end-of-life packaging has led to higher management costs, making it necessary to raise the fee for plastic packaging.¹⁴ Accordingly, the overall high aggregate fee indicator reflects the increased volume of waste and the associated rise in management requirements. For ARA (Austria), the fees are relatively high compared to other PROs due to macroeconomic factors: inflation, stagnating economic growth, and volatile secondary material markets have increased the costs for collection and recycling. These increased costs must be covered by license fees, leading to tariff increases.¹⁵ Additionally, a collection shift occurred in 2025, with plastic and metal packaging now being collected together in the yellow bin.¹⁶ This change may have also incurred additional financial costs, which are reflected in the fees.

However, no clear pattern emerges, as there are only three packaging solutions, and as soon as one is the highest/lowest, the PRO is already among the top 3 in the overall fee indicator. An exception is Sweden and Luxembourg, where all fee indicators are relatively low, but no individual fee indicator is the lowest.

¹³ <https://www.revistapackaging.pt/index.php/atualidade/2162-sociedade-ponto-verde-assumira-gestao-de-embalagens-industriais-e-comerciais-em-2025?>

¹⁴ https://www.conai.org/wp-content/uploads/2025/01/Conai-press-release_EPR-fee-changes_2025.pdf

¹⁵ <https://www.ara.at/news/tarifkalkulation-2024-herausforderung-wirtschaftslage>

¹⁶ <https://www.ara.at/news/sammelumstellung-2025-alle-details-im-ueberblick>

4. Comparison of the fee indicators across countries and years

4.1. Changes across B2C product material categories

Table 4: Changes in fee indicators between January 2025 and July 2025

Country	PRO	PET	Other Plastic	Aluminium	Beverage composites	Paper composite	Glass	Steel	Average change
Austria	ARA	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Belgium	FOST PLUS	0,0%	0,0%	0,0%	n/a	0,0%	0,0%	0,0%	0,0%
Bulgaria	ECOPACK	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Cyprus	GREEN DOT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Estonia	ETO	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Finland	FPP	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Finland	Sumi Oy	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
France	CITEO	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Germany	RECLAY	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Germany	BellandVision	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Greece	H.E.R.R.C.O	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Ireland	Repak	0,0%	0,0%	0,0%	n/a	0,0%	0,0%	0,0%	0,0%
Luxembourg	VALORLUX	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Macedonia	PAKOMAK	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Malta	GreenPak	0,0%	0,0%	0,0%	n/a	0,0%	0,0%	0,0%	0,0%
Netherlands	Verpact	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Portugal	SPV	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Romania	ECO-ROM	0,0%	0,0%	0,0%	n/a	0,0%	0,0%	0,0%	0,0%
Slovenia	SLOPAK	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Spain	Ecoembes	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Sweden	NPA	0,0%	0,0%	0,0%	n/a	0,0%	0,0%	0,0%	0,0%
Italy	CONAI	-2,1%	0,0%	0,0%	58,8%	0,0%	133,3%	0,0%	23,8%
Czech Republic	EKO-COM	9,7%	13,0%	13,0%	13,0%	13,0%	13,0%	13,0%	12,5%
UK	Valpak	217,3%	217,3%	106,0%	n/a	275,0%	34,5%	293,3%	202,6%

The table above illustrates the changes in fee indicators from January 2025 to July 2025, 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, only three PROs reported changes at all (CONAI, EKO-COM, Valpak); the rest of the PROs didn't change their fees during the first half of 2025.

CONAI (Italy) published a detailed statement about the reasons for the fee increases. Overall, the PRO states that, due to rising collection and recycling costs amid a generally inflationary and uncertain economic context, the Rilegno, Corepla, and Coreve consortia have updated their 2025 financial forecasts, requiring an increase in EPR fees to ensure continued operational management.¹⁷ Paper packaging fees increased due to a more detailed classification system introduced to better reflect the recyclability of different composite materials. The Comieco consortium expanded the existing six-tier structure to eight levels, distinguishing between certified and non-certified packaging. This change aims to incentivize the use of easier-to-recycle materials and support the higher costs of managing complex, non-cellulose-based composites. The fee indicator for glass has risen due to declining revenues from material sales, falling auction prices, increased volumes of glass waste under consortium management, and a resulting sharp deterioration in the 2024 financial outcome. For PET bottles, the fees slightly decreased because average auction prices have had a positive effect on revenues.

EKO-COM (Czech Republic) did not provide an explanation for the change of the fees; however, they have previously cited rising energy costs, declining revenues from recycled materials, and higher processing costs as reasons for fee increases.¹⁸

Valpak (UK) observed an increase in PRN prices for all B2C materials, likely due to an undersupply of evidence notes in the PRN market.

4.2. Changes across B2B product material categories

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

Country	PRO	Stretch film	Cardboard	Wood	Average change
Austria	ARA	0,0%	0,0%	0,0%	0,0%
Belgium	VALIPAC (commercial)	0,0%	0,0%	0,0%	0,0%
Cyprus	GREEN DOT CYPRUS	0,0%	0,0%	0,0%	0,0%
Estonia	ETO	0,0%	0,0%	0,0%	0,0%
Finland	Finnish Packaging Procuers	0,0%	0,0%	0,0%	0,0%
Finland	Sumi Oy	0,0%	0,0%	0,0%	0,0%
France	CITEO PRO	0,0%	0,0%	0,0%	0,0%

¹⁷ Here and in the following: https://www.conai.org/wp-content/uploads/2025/01/Conai-press-release_EPR-fee-changes_2025.pdf

¹⁸ <https://obehove-hospodarstvi.cz/en/2022/12/10/pokracujici-podpora-trideni-a-recyklace-odpadu-v-cr/>

Luxembourg	VALORLUX	0,0%	0,0%	0,0%	0,0%
Malta	GreenPak	0,0%	0,0%	0,0%	0,0%
Portugal	SPV	0,0%	0,0%	0,0%	0,0%
Romania	ECO-ROM	0,0%	0,0%	0,0%	0,0%
Slovenia	SLOPAK	0,0%	0,0%	0,0%	0,0%
Spain	Ecoembes Comercials / GENCI	0,0%	0,0%	0,0%	0,0%
Sweden	NPA	0,0%	0,0%	0,0%	0,0%
Czech Republic	EKO-COM	19,1%	13,0%	13,0%	15,0%
Italy	CONAI	17,3%	0,0%	28,6%	15,3%

The table above illustrates the changes in fee indicators from January 2025 to July 2025, 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 B2C products, there were only changes for two PROs: CONAI (Italy) and EKO-COM (Czech Republic). CONAI explains the rise of fee indicators for certain plastic types by a sharp rise in separately collected plastic packaging waste in 2024, which led to higher management and recycling costs across the system.¹⁹ In the case of wood, the fee increase is justified as necessary to maintain the financial and asset stability of the Rilegno consortium. It forms part of the Consortium's long-term economic and financial planning.²⁰ As already mentioned in chapter 4.1, EKO-COM (Czech Republic) did not provide an explanation.

¹⁹ https://www.conai.org/wp-content/uploads/2025/01/Conai-press-release_EPR-fee-changes_2025.pdf

²⁰ https://www.conai.org/wp-content/uploads/2025/01/Conai-press-release_EPR-fee-changes_2025.pdf

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

Countries	PRO	Weighted aggregate fee indicator	Recycling rate
Malta	GreenPak	2,15	31,8%
Romania	ECO-ROM	1,15	37,3%
Macedonia	PAKOMAK*	0,53	40,9%
Greece	H.E.R.R.C.O.	1,05	43,0%
UK	VALPAK*	1,15	53,0%
Finland	Sumi Oy	0,92	57,8%
Finland	FPP	0,88	57,8%
Bulgaria	ECOPACK	1,64	58,3%
Portugal	SPV	2,30	61,1%
Ireland	Repak	0,60	62,0%
Slovenia	SLOPAK	0,07	62,6%
Luxembourg	VALORLUX	0,96	63,7%
Austria	ARA	4,07	66,2%
Sweden	NPA	4,68	66,3%
France	CITEO	1,82	67,2%
Germany	RECLAY	3,53	68,5%
Germany	BellandVision	3,98	68,5%
Spain	ECOEMBES	2,06	69,4%
Cyprus	GREEN DOT CYPRUS	0,68	69,5%
Czech Republic	EKO-COM	2,04	70,8%
Italy	CONAI	0,76	71,9%
Estonia	ETO	2,01	73,0%
Netherlands	Verpact	4,08	75,2%
Belgium	FostPlus	3,22	80,4%



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

For B2C products, a weak to moderate positive correlation (correlation coefficient: 0.39) 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 for Belgium, Netherlands and Estonia. Verpact and FostPlus have relatively high fees (FostPlus 6th highest, Verpact 2nd highest), supporting the assumption of a positive correlation between fee indicator and recycling rate. This may also suggest that the financial investments made by the PROs are contributing to higher recycling rates. As the fee indicators of ETO rank among the middle third, no clear conclusion about efficiency can be made in this regard.

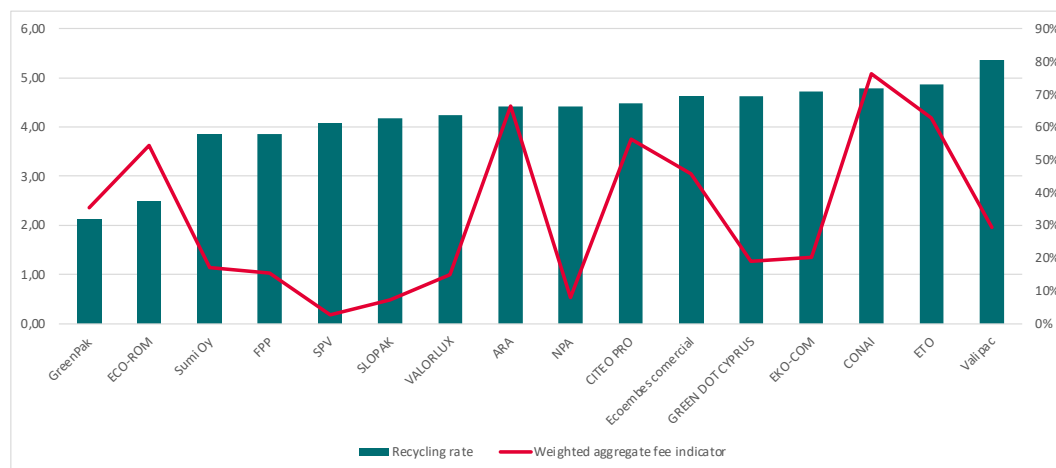
In contrast, the lowest recycling rates are recorded in Malta, Romania, and Macedonia. However, since these are country-level rates, the actual recycling performance of individual PROs in these countries might differ. Furthermore, these recycling rates are based on data older than 2023, meaning they could currently be higher. When considering aggregate fee indicators, Malta ranks 8th highest, suggesting potential inefficiencies, as relatively high fees do not correspond to equally high recycling rates. Romania ranks 10th lowest, positioning it within the middle third, so that no clear statement can be made about efficiency. Meanwhile, Macedonia has the 2nd lowest fee indicator, 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 7: Overview of weighted aggregate fee indicators for B2B products and recycling rates

Countries	PRO	Weighted aggregated fee indicator	Recycling rate
Malta	GreenPak	2,36	31,8%
Romania	ECO-ROM	3,63	37,3%
Finland	Sumi Oy	1,14	57,8%
Finland	FPP	1,03	57,8%
Portugal	SPV	0,17	61,1%
Slovenia	SLOPAK	0,48	62,6%
Luxembourg	VALORLUX	0,99	63,7%
Austria	ARA	4,42	66,2%
Sweden	NPA	0,53	66,3%
France	CITEO PRO	3,76	67,2%
Spain	Ecoembes comercial	3,05	69,4%
Cyprus	GREEN DOT CYPRUS	1,27	69,5%
Czech Republic	EKO-COM	1,35	70,8%
Italy	CONAI	5,08	71,9%
Estonia	ETO	4,18	73,0%
Belgium	Valipac	1,96	80,4%

Table 8: Comparison between the aggregate fee indicator and the PRO recycling rates**Figure 3: Correlation of weighted aggregate fee indicators for B2C products and recycling rates**

Compared to B2C PROs, the correlation coefficient for B2B PROs is 0,05, indicating that the relationship between fee indicators and recycling rates is negligible or virtually nonexistent. As shown in the data, countries with higher recycling rates do not necessarily impose the highest EPR fees. This suggests that factors other than fee levels may play a more significant role in determining the effectiveness of recycling programs.

The highest recycling rates are observed for Belgium, Estonia and Italy. However, their fee indicators vary: while Valipac has a relatively medium fee indicator, ETO

and CONAI have one of the highest. For Valipac, the data suggests no clear conclusion about efficient recycling processes, whereas for ETO and CONAI, it indicates that investments in the system are justified and yield results.

Conversely, the lowest recycling rates are found for Malta, Romania and Finland. However, as these are country-level and the data predates 2023, current recycling rates for those individual PROs could be higher. As the fee indicators of GreenPak and Sumi Oy rank among the middle third, no clear conclusion about efficiency can be made. For ECO-ROM, as their fee indicator is the fifth highest, it suggests room for improvement in efficiency.

6. Conclusion

The analysis of packaging fee indicators across various European countries provides valuable insights into cost structures, regulatory influences, and recycling efficiencies. The results indicate significant variations in fees across countries, largely driven by the ownership structure of PROs, regulatory policies, and macroeconomic factors such as inflation and market volatility.

Slovenia consistently emerges as a country with some of the lowest fee indicators (0,07 ct), particularly due to its producer-owned PRO, SLOPAK. This structure allows for cost efficiencies and lower fees, benefiting producers while maintaining effective waste management. Conversely, countries like Sweden, the Netherlands and Austria show significantly higher fee indicators, attributed to regulatory changes, shifts in collection responsibilities, and increased recycling costs. Sweden (4,68 ct), for example, has transferred substantial collection costs to producers, explaining its high fee levels.

For B2B products, Portugal (0,17 ct), Slovenia (0,48 ct), and Sweden (0,53 ct) report the lowest aggregate fee indicators, while Italy (5,08 ct), Austria (4,42 ct) and Estonia (4,18 ct) have the highest. Austria's ARA faces high fees due to inflation, economic stagnation, and increased recycling costs. Similarly, Italy and Estonia struggle with economic factors that drive up the costs associated with packaging waste management.

Between January 2025 and July 2025, fees increased in three B2C PROs and remained unchanged in 21. Among B2B PROs, fees rose in two and stayed the same in 14. Significant increases in fees are observed in UK and Italy, particularly for PET (UK), aluminum (UK), beverage cartons (UK), paper (UK), glass (Italy) and Steel (UK). These increases are linked to higher management costs and undersupply of evidence notes in the PRN market.

For both B2C and B2B products, no strong correlation is observed between fee indicators and recycling performance. Some countries achieve high recycling rates despite relatively low EPR fees, suggesting the presence of efficient management systems and cost-effective recycling practices. Conversely, other countries with high EPR fees also report high recycling rates, indicating that the investments may be justified. However, since no consistent trend emerges across countries, it is likely that additional factors - beyond the fee levels - also influence recycling outcomes.

Overall, this analysis underscores the complex interplay between regulatory frameworks, economic conditions, and waste management practices.

7. Annex

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

CITEO (FRANCE) calculations

January + July 2025

Formula:

		1			2	3	4	5	
Packaging		weight (g)	Contribution by weight (ct/g)	Units per CSU	Contribution by CSU (ct)	Bonus	Premiums	Penalty	Fees for the products (cent)
PET bottle	transparent PET	35	0,05352	2	0,2715				2,2731
	Hard plastic	2	0,06422						
Printed LDPE	LDPE colour	5	0,05887	1	0,1308				0,4252
Stretch film HD	HDPE transparent	1000	0,05887	1	0,1233				58,9933
Bioplastic	Bioplastic (PLA)	7	0,05887	1	0,1233				0,5354
Aluminium Can	Aluminium	13	0,01865	1	0,1639				0,4064
Tray	Aluminium	13,7	0,01865	1	0,0103				0,2658
Thin sheet	Aluminium	28	0,01865	1	0,0103				0,5325
Milk box	Carton	40	0,038	2	0,2715				1,7915
Paper Cup	Paper	9,1	0,02143	1	0,1639				0,411896
	PE	0,9	0,05887						
Carboard Box	Cardboard	222	0,02143		0,1233				4,88076
Transparent gl	Glass	480	0,00164	2	0,2715				1,06989
	Aluminium	0,6	0,01865						
Canned tomat	Steel	44	0,00535	1	0,1308				0,3662
Wooden Box	Wood	800	0,02143	1	0,1233				17,2673

Calculation method

TOTAL
CONTRIBUTION
OF CSU

Contribution by weight
of material

Contribution
by CSU

Bonus-
Penalty

Premiums*

Penalty**

* Premiums for integration of recycled materials

** If the CSU carries a Green Dot or confusing sign or marking (see page 11 for details on the suspension of the Green Dot penalty).

Overview of available recycling rates:

	A	B	C	D	E	F	G	H	I	J	
	Country	Main PRO	Aggregate Fee	Country recycling rate 2024	PRO Recycling Rate 2024	PRO Recycling rate 2023	Country Recycling Rate 2022	PRO Recycling rate 2022	Country recycling rate 2021	comment:	
1											
2	Austria*	ARA	37,58	n/a	n/a yet	96,1%	66,2%	90,0%	65,8%		
3	Belgium	VALipac	10,83	80%	n/a yet	90,90%	80,40%			https://expra.eu/countries/belgium/	
4	Belgium	FostPlus	457,63	80%	n/a yet	97%	80,4%	95,0%	80,4%	https://expra.eu/countries/belgium/	
5	Bulgaria	ECOPACK	27,26	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	
6	Cyprus*	GREEN DOT CYPRUS	8,30	73%	n/a yet	89,8%	69,5%	89,0%	63,5%	https://greendot.com.cy/our-company/annual-reports/	
7	Czech Republic	EKO-COM	17,22	86%	86%	86,0%	70,8%	68,0%	69,1%	https://expra.eu/countries/czech-republic/	
8	Denmark			49%			64,9%			https://expra.eu/countries/denmark/	
9	Estonia	ETO	28,33	62%	n/a yet	57,9%	73,0%	57,8%	70,4%		
10	Finland	FPP	11,29	-	90%	n/a	57,8%	66,0%	72,5%		
11	Finland	Sumi Oy	12,63	-	n/a yet	n/a	57,8%	66,0%			
12	France*	CITEO	88,07	n/a	n/a	n/a	67,2%	65,5%	61,8%	65,5 in 2022: https://www.citeo.com/why-join-citeo	
13	Germany*	RECLAY	131,17	n/a yet	n/a yet	country: 90%	68,5%		67,9%	72 % in 2021: https://bo.citeo.com/sites/default/files/2023-02/20220921_RA%20CITEO_GB.pdf	
14	Germany*	BellandVision	141,46	n/a yet	n/a yet	country: 90%	68,5%			67,5 % in 2022 for plastics: https://www.umweltbundesamt.de/presse/pressemitteilungen/aktuelle-re	
15	Greece	HERRCo	15,96	49%	n/a	n/a	43%	n/a	n/a	https://expra.eu/countries/greece/	
16	Ireland	Repak	19,08	n/a yet	n/a yet	n/a yet	62%	63,0%			
17	Italy	CONAI	26,46	80%		73,3%	71,9%	73,3%	72,9%	https://expra.eu/countries/italy/	
18	Luxembourg	VALORLUX	9,16	n/a yet	n/a yet	71,3%	63,7%	n/a	73,7%		
19	Macedonia	PAKOMAK	10,52		n/a	n/a	n/a	n/a	40,9%	https://www.oecd.org/content/dam/oecd/en/publications/reports/2024/03/a-roadmap-towards-circ	
20	Malta	GreenPak	24,13				31,8%			last rate 2012: 58,39 % recycled, https://expra.eu/countries/malta/	
21	Netherlands*	Verpact	151,05	n		88,0%	75,2%	88,0%	76,8%	88% for 2022: https://www.verpact.nl/en/node/390	
22	Poland	Rekopak		around 73			64,0%				
23	Portugal*	SPV	10,30				61,1%	n/a			
24	Romania	ECO-ROM	21,33				37,3%	63,0%	country: 38,31%		
25	Slovenia	SLOPAK	2,89			79,0%	62,6%	n/a	55,1%	31.510 recycled --> 36.437 put on the market	
26	Spain	ECOEMBES	139,26			80,2%	69,4%	80,2%	70,1%	https://expra.eu/countries/spain/	
27	Spain	Ecoembes comerciales	15,58				69,4%				
28	Sweden	NPA	28,38	86%		59,6%	66,3%	65,0%	59,6%	https://expra.eu/countries/sweden/	
29	UK	VALPAK	12,90	53%		60,9%		n/a	n/a		
30											
31	Source for PRO, if not mentioned otherwise			https://expra.eu/wp-content/uploads/2023/11/EXTERNAL_EXPRO-2023-Brochure-INTERNAL-copia.pdf							
32	Source for country, if not mentioned otherwise			https://ec.europa.eu/eurostat/databrowser/view/env_waspacr/default/table?lang=en&category=env.env_wasenv_wasst							

Country	B2?	Product	Material	Indicator (cent per g)	gram	Additional cost (€)	Fee indicator
Austria	B2C	PET bottle	transparent PET	0,099	35		3,663
	B2C		Hard plastic	0,099	2		
	B2C	Printed LDPE bag	LDPE colour	0,099	5		0,495
	B2B	Stretch film HDPE	HDPE transparent	0,018	1000		18,000
	B2C	Shopper	Bioplastic	0,099	7		0,693
	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	Milk box	Beverage composite carto	0,097	40		3,880
	B2C	Paper Cup	Paper	0,019	9,1		0,262
	B2C		PE	0,099	0,9		-
	B2B	Carboard Box	Cardboard	0,007	222		1,554
	B2C	Transparent glass	Glass	0,0102	480		4,925
	B2C		Aluminium	0,048	0,6		-
	B2C	Canned tomatoes	Steel	0,045	44		1,980
	B2B	Wooden Box	Wood	0,002	800		1,600
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
	B2B	Stretch film HDPE	HDPE transparent	0,0063	1000		6,300
	B2C	Bioplastic	Bioplastic	0,0063	7		0,044
	B2C	Aluminium Can	Aluminium	0,002	13		0,026
	B2C	Tray	Aluminium	0,002	13,7		0,027
	B2C	Thin sheet	Aluminium	0,002	28		0,056
	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		
	B2C		Aluminium	0,002	0,6		0,961
	B2C	Canned tomatoes	Steel	0,002	44		0,088
	B2B	Wooden Box	Wood	0,002	800		1,600
Belgium (Fost Plus)	B2C	PET bottle	transparent PET	0,02718	35		1,303
	B2C		Hard plastic	0,17609	2		
	B2C	Printed LDPE bag	LDPE colour	0,12844	5		0,642
	B2B	Stretch film HDPE	HDPE transparent	0,12844	1000		128,440
	B2C	Bioplastic	Bioplastic	0,39092	7		2,736
	B2C	Aluminium Can	Aluminium	0,00481	13		0,063
	B2C	Tray	Aluminium	0,00481	13,7		0,066
	B2C	Thin sheet	Aluminium	0,00481	28		0,135
	B2C	Milk box	Beverage composite carto	0,0818	40		3,272
		Paper Cup	Paper	0,01503	10		0,150
	B2B		Cardboard	0,01503	222		3,337
	B2C	Transparent glass	Glass	0,0096	480		
	B2C		Aluminium	0,00481	0,6		4,611
	B2C	Canned tomatoes	Steel	0,01117	44		0,491
	B2B	Wooden Box	Wood	0,39092	800		312,736
Bulgaria	B2C	PET bottle	transparent PET	0,013005	35		
	B2C		Hard plastic	0,011832	2		0,479
	B2C	Printed LDPE bag	LDPE colour	0,011832	5		0,059
	B2B	Stretch film HDPE	HDPE transparent	0,011832	1000		11,832
	B2C	Bioplastic	Bioplastic	0,011832	7		0,083
	B2C	Aluminium Can	Aluminium	0,014229	13		0,185
	B2C	Tray	Aluminium	0,014229	13,7		0,195
	B2C	Thin sheet	Aluminium	0,014229	28		0,398
	B2C	Milk box	Beverage composite carto	0,015198	40		0,608
		Paper Cup	Paper	0,011118	9,1		0,112
	B2C		PE	0,011832	0,9		
	B2B	Cardboard Box	Cardboard	0,011118	222		2,468
	B2C	Transparent glass	Glass	0,013209	480		
	B2C		Aluminium	0,014229	0,6		6,349
	B2C	Canned tomatoes	Steel	0,006069	44		0,267
	B2B	Wooden Box	Wood	0,006018	800		4,814
	B2C	PET bottle	transparent PET	0,01006	35		
	B2C		Hard plastic	0,01006	2		0,372
	B2C	Printed LDPE bag	LDPE colour	0,01006	5		0,050
	B2B	Stretch film HDPE	HDPE transparent	0,003605	1000		3,605
	B2C	Bioplastic	Bioplastic	0,01006	7		0,070
	B2C	Aluminium Can	Aluminium	0,002031	13		0,026
	B2C	Tray	Aluminium	0,002031	13,7		0,028
	B2C	Thin sheet	Aluminium	0,002031	28		0,057

Cyprus	B2C	Milk box	Beverage composite carto	0,011661	40		0,466
		Paper Cup	Paper	0,014941	9,1		0,145
	B2C		PE	0,01006	0,9		
	B2B	Carboard Box	Cardboard	0,004114	222		0,913
	B2C	Transparent glass	Glass	0,002761	480		1,326
	B2C		Aluminium	0,002031	0,6		
	B2C	Canned tomatoes	Steel	0,009062	44		0,399
Czech Rep.	B2B	Wooden Box	Wood	0,00118	800		0,944
	B2C	PET bottle	transparent PET	0,051976	35		2,001
	B2C		Hard plastic	0,09094	2		
	B2C	Printed LDPE bag	LDPE colour	0,070984	5		0,355
	B2B	Stretch film HDPE	HDPE transparent	0,003492	1000		3,492
	B2C	Bioplastic	Bioplastic	0,070984	7		0,497
	B2C	Aluminium Can	Aluminium	0,018156	13		0,236
	B2C	Tray	Aluminium	0,018156	13,7		0,249
	B2C	Thin sheet	Aluminium	0,043108	28		1,207
	B2C	Milk box	beverage carton	0,035612	40		1,424
		Paper Cup	Paper	0,02688	9,1		0,308
	B2C		PE	0,070984	0,9		
	B2B	Carboard Box	Cardboard	0,001704	222		0,378
	B2C	Transparent glass	Glass	0,008896	480		4,281
	B2C		Aluminium	0,018156	0,6		
	B2C	Canned tomatoes	Steel	0,009668	44		0,425
	B2B	Wooden Box	Wood	0,007768	800		6,214
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
	B2B	Stretch film HDPE	HDPE transparent	0,0125	1000		12,500
	B2C	Bioplastic	Bioplastic	0,046	7		0,322
	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
	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
Finland (FPP)	B2C	PET bottle	transparent PET	0,0219	35		0,810
	B2C		Hard plastic	0,0219	2		
	B2C	Printed LDPE bag	LDPE colour	0,0159	5		0,080
	B2B	Stretch film HDPE	HDPE transparent	0,0053	1000		5,300
	B2C	Bioplastic	Bioplastic	0,0289	7		0,202
	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
	B2C	Milk box	Beverage composite carto	0,0177	40		0,708
		Paper Cup	Paper Composite	0,0177	10		0,177
	B2B	Carboard Box	Cardboard	0,00028	222		0,062
	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
Finland (Sumi Oy)	B2C	PET bottle	transparent PET	0,0224	35		0,829
	B2C		Hard plastic	0,0224	2		
	B2C	Printed LDPE bag	LDPE colour	0,0159	5		0,080
	B2B	Stretch film HDPE	HDPE transparent	0,0054	1000		5,400
	B2C	Bioplastic	Bioplastic	0,0315	7		0,221
	B2C	Aluminium Can	Aluminium	0,0072	13		0,094
	B2C	Tray	Aluminium	0,0072	13,7		0,099
	B2C	Thin sheet	Aluminium	0,0072	28		0,202
	B2C	Milk box	Beverage composite carto	0,0152	40		0,608
		Paper Cup	Paper	0,0152	10		0,152
	B2B	Carboard Box	Cardboard	0,0012	222		0,266
	B2C	Transparent glass	Glass	0,0093	480		4,468
	B2C		Aluminium	0,0072	0,6		
	B2C	Canned tomatoes	Steel	0,0072	44		0,317
	B2B	Wooden Box	Wood	0,00026	800		0,208
	B2C	PET bottle	transparent PET		35		2,27314
	B2C		Hard plastic		2		
	B2C	Printed LDPE bag	LDPE colour		5		0,42515

France (CITEO)	B2B	Stretch film HDPE	HDPE transparent	see own sheet "France"	1000		58,9933
	B2C	Bioplastic	Bioplastic				0,53539
	B2C	Aluminium Can	Aluminium		13		0,40635
	B2C	Tray			13,7		0,265805
	B2C	Thin sheet			28		0,5325
	B2C	Milk box					1,7915
	B2C	Paper Cup					0,411896
	B2B	Carboard Box	Cardboard		222		4,88076
	B2C	Transparent glass	Glass		480		1,06989
	B2C		Aluminium		0,6		
	B2C	Canned tomatoes	Steel		44		0,3662
France (CITEO PRO)	B2B	Wooden Box	Wood		800		17,2673
	B2C	PET bottle	transparent PET	0,0112	35		0,41552
	B2C		Hard plastic	0,01176	2		
	B2C	Printed LDPE bag	LDPE colour	0,01232	5		0,0616
	B2B	Stretch film HDPE	HDPE transparent	0,01232	1000		12,32
	B2C	Bioplastic	Bioplastic	0,01232	7		0,08624
	B2C	Aluminium Can	Aluminium	0,00754	13		0,09802
	B2C	Tray	Aluminium	0,00754	13,7		0,103298
	B2C	Thin sheet	Aluminium	0,00754	28		0,21112
	B2C	Milk box	Paper	0,00986	40		0,3944
	B2C						
	B2C						
	B2C	Paper Cup	Paper	0,00758	9,1		0,080066
	B2C		PE	0,01232	0,9		
	B2B	Carboard Box	Cardboard	0,00758	222		1,68276
	B2C	Transparent glass	Glass	0,0017	480		0,820524
	B2C		Aluminium	0,00754	0,6		
	B2C	Canned tomatoes	Steel	0,00568	44		0,24992
	B2B	Wooden Box	Wood	0,00758	800		6,064
Germany (Reclay)	B2C	PET bottle	transparent PET	0,10362	35		3,834
	B2C		Hard plastic	0,10362	2		
	B2C	Printed LDPE bag	LDPE colour	0,10362	5		0,518
	B2B	Stretch film HDPE	HDPE transparent	0,10362	1000		103,620
	B2C	Bioplastic	Bioplastic	0,10362	7		0,725
	B2C	Aluminium Can	Aluminium	0,101745	13		1,323
	B2C	Tray	Aluminium	0,101745	13,7		1,394
	B2C	Thin sheet	Aluminium	0,101745	28		2,849
	B2C	Milk box	Beverage composite carto	0,102495	40		4,100
		Paper Cup	Paper	0,020745	9,1		0,282
	B2C		PE	0,10362	0,9		
	B2B	Carboard Box	Cardboard	0,020745	222		4,605
	B2C	Transparent glass	Glass	0,006495	480		3,179
	B2C		Aluminium	0,101745	0,6		
	B2C	Canned tomatoes	Steel	0,099495	44		4,378
	B2B	Wooden Box	Wood	0,005745	800		4,596
Germany (BellandVisi on)	B2C	PET bottle	transparent PET	0,109	35		4,033
	B2C		Hard plastic	0,109	2		
	B2C	Printed LDPE bag	LDPE colour	0,109	5		0,545
	B2B	Stretch film HDPE	HDPE transparent	0,109	1000		109,000
	B2C	Bioplastic	Bioplastic	0,109	7		0,763
	B2C	Aluminium Can	Aluminium	0,1045	13		1,359
	B2C	Tray	Aluminium	0,1045	13,7		1,432
	B2C	Thin sheet	Aluminium	0,1045	28		2,926
	B2C	Milk box	Beverage composite carto	0,112	40		4,480
		Paper Cup	Paper	0,0198	9,1		0,278
	B2C		PE	0,109	0,9		
	B2B	Carboard Box	Cardboard	0,0198	222		4,396
	B2C	Transparent glass	Glass	0,0097	480		4,719
	B2C		Aluminium	0,1045	0,6		
	B2C	Canned tomatoes	Steel	0,0998	44		4,391
	B2B	Wooden Box	Wood	0,0089	800		7,120
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
	B2B	Stretch film HDPE	HDPE transparent	0,00705	1000	0,4	7,450
	B2C	Bioplastic	Bioplastic	0,00705	7	0,4	0,449
	B2C	Aluminium Can	Aluminium	0,00105	13	0,4	0,414
	B2C	Tray		0,00105	13,7	0,4	0,414
	B2C	Thin sheet		0,00105	28	0,4	0,429
	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
Ireland	B2C	PET bottle	transparent PET	0,014603	35		0,540
	B2C		Hard plastic	0,014603	2		
	B2C	Printed LDPE bag	LDPE colour	0,014603	5		0,073
	B2B	Stretch film HDPE	HDPE transparent	0,014603	1000		14,603
	B2C	Bioplastic	Bioplastic	0,014603	7		0,102
	B2C	Aluminium Can	Aluminium	0,000768	13		0,010
	B2C	Tray	Aluminium	0,000768	13,7		0,011
	B2C	Thin sheet	Aluminium	0,000768	28		0,022
	B2C	Milk box	Beverage composite carto	0,014603	40		0,584
		Paper Cup	Paper	0,014603	9,1		0,146
	B2C		PE	0,014603	0,9		
	B2B	Carboard Box	Cardboard	0,003254	222		0,722
	B2C	Transparent glass	Glass	0,001141	480		0,548
	B2C		Aluminium	0,000768	0,6		
	B2C	Canned tomatoes	Steel	0,006882	44		0,303
	B2B	Wooden Box	Wood	0,001847	800		1,478
Italy	B2C	PET bottle	transparent PET	0,014603	35		0,557
	B2C		Hard plastic	0,0228	2		
	B2C	Printed LDPE bag	LDPE colour	0,0724	5		0,362
	B2B	Stretch film HDPE	HDPE transparent	0,0258	1000		25,800
	B2C	Bioplastic	Bioplastic	0,013	7		0,091
	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
	B2C	Milk box	Beverage composite carto	0,0135	40		0,540
		Paper Cup	Beverage composite carto	0,0065	10		0,065
	B2B	Carboard Box	Cardboard	0,0065	222		1,443
	B2C	Transparent glass	Glass	0,0035	480		1,681
	B2C		Aluminium	0,0012	0,6		
	B2C	Canned tomatoes	Steel	0,0005	44		0,022
	B2B	Wooden Box	Wood	0,0009	800		0,720
Luxembourg	B2C	PET bottle	transparent PET	0,01957	35		0,733
	B2C		Hard plastic	0,02407	2		
	B2C	Printed LDPE bag	LDPE colour	0,07192	5		0,360
	B2B	Stretch film HDPE	HDPE transparent	0,00395	1000		3,950
	B2C	Bioplastic	Bioplastic	0,07192	7		0,503
	B2C	Aluminium Can	Aluminium	0,00145	13		0,019
	B2C	Tray	Aluminium	0,00145	13,7		0,020
	B2C	Thin sheet	Aluminium	0,00145	28		0,041
		Milk box	Beverage composite carto	0,029	40		1,160
	B2C	Paper Cup	Beverage composite carto	0,00402	10		0,040
	B2B	Carboard Box	Cardboard	0,00145	222		0,322
	B2C	Transparent glass	Glass	0,00177	480		0,850
	B2C		Aluminium	0,00145	0,6		
	B2C	Canned tomatoes	Steel	0,00271	44		0,119
	B2B	Wooden Box	Wood	0,00145	800		1,160
Macedonia	B2C	PET bottle	transparent PET	0,00415	35		0,154
	B2C		Hard plastic	0,00415	2		
	B2C	Printed LDPE bag	LDPE colour	0,00415	5		0,021
	B2B	Stretch film HDPE	HDPE transparent	0,00415	1000		4,150
	B2C	Bioplastic	Bioplastic	0,00415	7		0,029
	B2C	Aluminium Can	Aluminium	0,00475	13		0,062
	B2C	Tray	Aluminium	0,00475	13,7		0,065
	B2C	Thin sheet	Aluminium	0,00475	28		0,133
	B2C	Milk box	Composite	0,00415	40		0,166
	B2C						
	B2C	Paper Cup	Paper	0,0034	9,1		0,035
	B2C		PE	0,00415	0,9		
	B2B	Carboard Box	Cardboard	0,0034	222		0,755
	B2C	Transparent glass	Glass	0,00475	480		2,283
	B2C		Aluminium	0,00475	0,6		
	B2C	Canned tomatoes	Steel	0,00413	44		0,182
	B2B	Wooden Box	Wood	0,00335	800		2,680
	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
	B2B	Stretch film HDPE	HDPE transparent	0,007031	1000		7,031
	B2C	Bioplastic	Bioplastic	0,0205	7		0,144
	B2C	Aluminium Can	Aluminium	0,0202	13		0,263
	B2C	Tray	Aluminium	0,0202	13,7		0,277

Malta	B2C	Thin sheet	Aluminium	0,0202	28		0,566
	B2C	Milk box	Paper	0,0203	40		0,812
		Paper Cup	Paper	0,0203	9,1		0,203
	B2C		PE	0,0205	0,9		
	B2B	Carboard Box	Cardboard	0,007031	222		1,561
	B2C	Transparent glass	Glass	0,0147	480		7,068
	B2C		Aluminium	0,0202	0,6		
Netherlands	B2C	Canned tomatoes	Steel	0,0207	44		0,911
	B2B	Wooden Box	Wood	0,006798	800		5,438
	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
	B2B	Stretch film HDPE	HDPE transparent	0,132	1000		132,000
	B2C	Bioplastic	Bioplastic	0,132	7	0,23	1,154
	B2C	Aluminium Can	Aluminium	0,03	13		0,390
	B2C	Tray	Aluminium	0,03	13,7		0,411
	B2C	Thin sheet	Aluminium	0,03	28		0,840
	B2C	Milk box	Beverage composite carto	0,088	40	0,23	3,750
		Paper Cup	Paper	0,0017	9,1	0,23	0,364
	B2C		PE	0,132	0,9		
	B2B	Carboard Box	Cardboard	0,0017	222		0,377
	B2C	Transparent glass	Glass	0,01	480		4,818
	B2C		Aluminium	0,03	0,6		
	B2C	Canned tomatoes	Steel	0,036	44		1,584
	B2B	Wooden Box	Wood	0,0015	800		1,200
Portugal	B2C	PET bottle	transparent PET	0,04471	35		1,654
	B2C		Hard plastic	0,04471	2		
	B2C	Printed LDPE bag	LDPE colour	0,04471	5		0,224
	B2B	Stretch film HDPE	HDPE transparent	0,00043	1000		0,430
	B2C	Bioplastic	Bioplastic	0,04471	7		0,313
	B2C	Aluminium Can	Aluminium	0,00991	13		0,129
	B2C	Tray	Aluminium	0,00991	13,7		0,136
	B2C	Thin sheet	Aluminium	0,00991	28		0,277
	B2C	Milk box	Beverage composite carto	0,04376	40		1,750
		Paper Cup	Paper	0,02602	9,1		0,277
	B2C		PE	0,04471	0,9		
	B2B	Carboard Box	Cardboard	0,00064	222		0,142
	B2C	Transparent glass	Glass	0,00771	480		3,707
	B2C		Aluminium	0,00991	0,6		
	B2C	Canned tomatoes	Steel	0,03547	44		1,561
	B2B	Wooden Box	Wood	0,00022	800		0,176
Romania	B2C	PET bottle	transparent PET	0,01474	35		0,545
	B2C		Hard plastic	0,01474	2		
	B2C	Printed LDPE bag	LDPE colour	0,00858	5		0,043
	B2B	Stretch film HDPE	HDPE transparent	0,00748	1000		7,480
	B2C	Bioplastic	Bioplastic	0,00858	7		0,060
	B2C	Aluminium Can	Aluminium	0,01474	13		0,192
	B2C	Tray	Aluminium	0,01474	13,7		0,202
	B2C	Thin sheet	Aluminium	0,01474	28		0,413
	B2C	Milk box	Paper	0,00858	40		0,343
		Paper Cup	Paper	0,00858	9,1		0,086
	B2C		PE	0,00858	0,9		
	B2B	Carboard Box	Cardboard	0,00748	222		1,661
	B2C	Transparent glass	Glass	0,00946	480		4,550
	B2C		Aluminium	0,01474	0,6		
	B2C	Canned tomatoes	Steel	0,00858	44		0,378
	B2B	Wooden Box	Wood	0,00748	800		5,984
Slovenia	B2C	PET bottle	transparent PET	0,002019	35		0,075
	B2C		Hard plastic	0,002019	2		
	B2C	Printed LDPE bag	LDPE colour	0,002303	5		0,012
	B2B	Stretch film HDPE	HDPE transparent	0,002303	1000		2,303
	B2C	Bioplastic	Bioplastic	0,002303	7		0,016
	B2C	Aluminium Can	Aluminium	0,002019	13		0,026
	B2C	Tray		0,002019	13,7		0,028
	B2C	Thin sheet		0,002019	28		0,057
	B2C	Milk box	Paper	0,002303	40		0,092
		Paper Cup	Paper	0,000087	9,1		0,003
	B2C		PE	0,002303	0,9		
	B2B	Carboard Box	Cardboard	0,000087	222		0,019
	B2C	Transparent glass	Glass	0,000063	480		0,031

	B2C	transparent glass	Aluminium	0,002019	0,6		0,002
	B2C	Canned tomatoes	Steel	0,002303	44		0,101
	B2B	Wooden Box	Wood	0,000273	800		0,218
Spain	B2C	PET bottle	transparent PET	0,0385	35	-0,0057	1,493
	B2C		Hard plastic	0,0772	2		
	B2C	Printed LDPE bag	LDPE colour	0,1267	5		0,634
	B2B	Stretch film HDPE	HDPE transparent	0,1267	1000		126,700
	B2C	Bioplastic	Bioplastic	0,0306	7		0,214
	B2C	Aluminium Can	Aluminium	0,006	13		0,078
	B2C	Tray	Aluminium	0,006	13,7		0,082
	B2C	Thin sheet	Aluminium	0,006	28		0,168
	B2C	Milk box	Beverage composite carto	0,0654	40		2,616
		Paper Cup	Paper with plastic	0,0218	10		0,218
	B2B	Cardboard box	Cardboard	0,0117	222		2,597
	B2C		Glass	0,003515	480	0,498	2,189
	B2C	Transparent glass	Aluminium	0,006	0,6		
	B2C	Canned tomatoes	Steel	0,02	44		0,880
	B2B	Solution 3	Wood	0,0022	800		1,760
Spain (Comerciales)	B2C	PET bottle	transparent PET	0,0017	35	-0,0057	0,063
	B2C		Hard plastic	0,0017	2		
	B2C	Printed LDPE bag	LDPE colour	0,012	5		0,060
	B2B	Stretch film HDPE	HDPE transparent	0,012	1000		12,000
	B2C	Bioplastic	Bioplastic	0,0017	7		0,012
	B2C	Aluminium Can	Aluminium	0,0017	13		0,022
	B2C	Tray	Aluminium	0,0017	13,7		0,023
	B2C	Thin sheet	Aluminium	0,0017	28		0,048
	B2C		Paper	0,0017	40		0,068
		Paper Cup	Paper	0,0017	9,1		0,017
	B2C		PE	0,0017	0,9		
	B2B	Carboard Box	Cardboard	0,0017	222		0,377
	B2C		Glass	0,003515	480		1,688
	B2C	Transparent glass	Aluminium	0,0017	0,6		
	B2C	Canned tomatoes	Steel	0,0017	44		0,075
	B2B	Wooden Box	Wood	0,0015	800		1,200
Sweden	B2C	PET bottle	transparent PET	0,10353	35		3,831
	B2C		Hard plastic	0,10353	2		
	B2C	Printed LDPE bag	LDPE colour	0,10353	5		0,518
	B2B	Stretch film HDPE	HDPE transparent	0,00174	1000		1,740
	B2C	Bioplastic	Bioplastic	0,10353	7		0,725
	B2C	Aluminium Can	Aluminium	0,09483	13		1,233
	B2C	Tray	Aluminium	0,09483	13,7		1,299
	B2C	Thin sheet	Aluminium	0,09483	28		2,655
	B2C		Beverage composite carto	0,0609	40		2,436
	B2C						
	B2C	Paper Cup	Paper	0,0609	10		0,609
	B2B	Carboard Box	Cardboard	0,00087	222		0,193
	B2C		Glass	0,018096	480		8,743
	B2C	Transparent glass	Aluminium	0,09483	0,6		
	B2C	Canned tomatoes	Steel	0,18009	44		7,924
	B2B	Solution 3	Wood	0,000435	800		0,348
UK	B2C	PET bottle	transparent PET	0,0177548	35		0,657
	B2C		Hard plastic	0,0177548	2		
	B2C	Printed LDPE bag	LDPE colour	0,0177548	5		0,089
	B2B	Stretch film HDPE	HDPE transparent	0,0177548	1000		17,755
	B2C	Bioplastic	Bioplastic	0,0177548	7		0,124
	B2C	Aluminium Can	Aluminium	0,012257	13		0,159
	B2C	Tray	Aluminium	0,012257	13,7		0,168
	B2C	Thin sheet	Aluminium	0,012257	28		0,343
	B2C		Paper	0,0002142	40		0,009
		Paper Cup	Paper	0,0002142	9,1		0,018
	B2C		PE	0,0177548	0,9		
	B2B	Carboard Box	Cardboard	0,0002142	222		0,048
	B2C		Glass	0,00952	480		4,577
	B2C	Transparent glass	Aluminium	0,012257	0,6		
	B2C	Canned tomatoes	Steel	0,001666	44		0,073
	B2B	Wooden Box	Wood	0,000476	800		0,381