Packaging EPR fee in EU: What are the differences?

Overview and comparison of PRO fees between July 2023 and January 2024.



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1 Introduction

In the European Union, the volume of packaging waste has increased by over 20 % within the past decade. ¹ This increase in packaging waste raises significant environmental concerns, for example, improperly disposed packaging waste can contaminate soil, waterways and oceans, posing a serious threat to wildlife and ecosystems, and it creates greenhouse gas emissions as it decomposes. ² However, the environmental footprint extends beyond disposal, as packaging represents a substantial consumer of virgin materials, with 40% of plastics and 50% of paper utilized in the EU dedicated to packaging production. Without intervention, projections indicate a further 19 % increase in packaging waste by 2030, hindering the progression toward a low-carbon circular economy.³

The beginnings of tackling this challenge date back to 1994, when the Packaging and Packaging Waste Directive (PPWD) was introduced. This ground-breaking directive introduced the pioneering concept of 'shared responsibility', which was later developed into the paradigm of 'extended producer responsibility' (EPR). In 2018, the EPR principle emerged as the primary mechanism for Member States to ensure that producers of packaging bear the financial and operational burden from creation to disposal, as set out in Directive 2018/851.

The subsequent revision of Directive 2018/852/CE on packaging and packaging waste was a key turning point, as EU Member States were required to set up dedicated EPR schemes for packaging by 2025. These schemes are typically managed by producer responsibility organisations (PROs) funded by packaging producers and users and represent a concerted effort to promote responsibility throughout the packaging lifecycle. In November 2022, the European commission proposed a revision of the PPWD, which included targets for waste reduction at Member State Level as well as reuse targets for economic operations. Furthermore, the proposed updates to the PPWD emphasise the importance of design for recycling and the harmonized labelling of packaging and waste bins to facilitate correct disposal.

Various EPR models for packaging have emerged across Europe, tailored to the sociocultural, macro-economic and organisational circumstances of each country. At the centre of these models is the charging of environmental contributions or fees that are carefully designed to cover all costs of the necessary activities (collection, sorting, recycling). These charges are closely linked to environmental factors and vary depending on the material.

In this report, fees for six packaging solutions from 18 countries are analyzed to compare countries and identify trends.

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

PRO FEEs 2024 Methodology

2 Methodology

I. Calculation Method

First, the Main PRO representing the functionality of the respective national EPR system for packaging was identified for each country. In addition, six packaging solutions were pre-defined for which the corresponding fee indicator was calculated in each country. The packaging solutions are shown in Figure 1:



Figure 1: Overview of the six packaging solutions

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 respective indicator was multiplied by the respective weight of the product for the calculation. In some countries, other fees and discounts were also added/subtracted. The detailed calculation for the six packaging solutions in the 18 countries for the months July 2023 and January 2024 can be found in the Annex. Finally, the aggregate fee indicator was calculated for each Main PRO by summing up all six fee values. All fee values are expressed in euro cents.

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

- Finland: The company Rinki is only an intermediary between producers and PROs. In Finland exist two PROs for Packaging: Finnish Packaging Producers and Sumi Oy. Both PROs charge different fees. For this reason, the overall fee indicator for Finland/Rinki is calculated by using the average of the two PRO fees.
- France: The main PRO of France uses an articulated mechanism to calculate fees per material with detailed formulas. In this case, assumptions have been made about the inclusion of Bonus and Malus.
- Germany: a license calculator from the PRO website was used, as it allows to calculate the fee value according to each material's quantity put on the market. However, it did not contain information for the sixth packaging solution (wooden box).

■ 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 8th January 2024) 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. Moreover, the PROs of three countries do not provide specific indicators for wood (Belgium, Germany, Luxembourg). Therefore, the aggregate fee indicators of those countries must also be viewed with caution.

II. Changes in the calculation compared to 2023

During the preparation of this report, we noticed some changes within a few PRO systems. The changes are explained below.

- Finland: In Finland exist two PROs (Finnish Packaging Recycling Ltd. and Sumi Oy). In the last reports, only the fee values of Finnish Packaging Recycling Ltd. were used, because it manages approx. 90 % of packaging in Finland.⁴ Moreover, Finnish Packaging Recycling Ltd. has contracts with more companies that Sumi Oy (4,700 vs. 3,000).⁵ However, for completion reasons, Sumi Oy is now also considered, starting from this report.
- Spain: Ecoembes introduced an ecomodulation model, starting from January 2024 and following the guidelines set out in Royal Decree 1055/2022 on Packaging Waste. It includes discounts as well as penalties for HDPE, PET Tray, Non-PET-Tray, Flexible Plastic, Other Rigid Plastics as well as paper and cardboard.⁶
- Sweden: According to the new regulation, <u>SFS 2022:1274</u>, the municipalities must take over the collection responsibility for sorted packaging from 1st January 2024.⁷ The newly formed company Näringslivets Producentansvar (NPA) is an approved PRO and takes over all producer responsibility related questions as of 1st January 2024. For this reason, the former collection companies FTI and glasatervinning are discontinued during 2024. However, Glasatervinning will continue its operations in recycling.

https://rinkiin.fi/en/producer-responsibility/join-a-producer-organisation/finnish-packaging-producers-ltd/#:~:text=Finnish%20Packaging%20Producers%20Ltd%20is,types%20of%20packaging%20in%20Finland.

⁵ https://suomenpakkaustuottajat.fi/en/ and https://rinkiin.fi/en/producer-responsibility/join-a-producer-organisation/sumi-ltd/

⁶ https://www.ecoembes.com/en/companies/packaging-declaration/green-dot-fees

⁷ https://glasatervinning.se/for-producenter-och-importorer/nytt-avtal-2022/

PRO FEEs 2024 Methodology

i. Outlook

■ UK: In October 2025, additional EPR fees will come into force for large producers. 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.

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

3 Fee indicators for 2024

The following table shows all calculated fee indicators for January 2024. The indicators are all stated in euro cents and are presented in ascending order. They were determined according to the calculations in chapter 2.

Table 1: Overview of the fee indicators for 2024

Countries	Main PRO	PET bot- tle	Alumi- num Can	Card- board	Glass Bot- tle	Steel Can	Wooden Box	Aggregate Fee Indicator
				Вох				(cent)
Italy*	CONAI	0,15	0,01	0,78	0,72	0,02	0,56	2,24
Luxembourg	VALORLUX	0,79	0,03	1,00	0,97	0,08	0,00	2,87
	GREEN DOT							
Cyprus	CYPRUS	0,42	0,03	0,99	1,33	0,40	0,94	4,12
Slovenia	SLOPAK	0,98	0,37	0,16	0,30	1,23	2,80	5,84
Belgium	FOST PLUS	0,46	0,04	2,68	3,30	0,26	0,00	6,74
UK*	VALPAK	0,81	0,01	0,13	6,74	0,04	0,44	8,17
Finland	RINKI	1,11	0,13	2,15	4,54	0,36	0,19	8,50
Spain*	ECOEMBES	2,50	0,10	3,00	1,97	0,81	0,56	8,94
Romania	ECO-ROM	0,65	0,25	1,84	5,00	0,37	5,28	13,39
Bulgaria	ECOPACK	0,48	0,22	2,31	5,76	0,24	4,41	13,41
	AFVALFONDS							
Netherlands	(SAV)	5,52	0,32	0,38	4,81	1,45	1,20	13,69
Estonia	ETO	1,82	0,43	2,49	5,20	1,19	3,52	14,65
Portugal	SPV	1,24	0,11	3,28	1,24	0,87	7,97	14,71
	GRUNE							
Germany*	PUNKT	3,57	1,36	4,08	3,05	3,70	0,00	15,76
Austria	ARA	3,65	0,54	4,22	4,92	1,32	1,60	16,25
France*	CITEO	1,73	0,34	4,59	0,87	0,36	16,26	24,14
Sweden	NPA	2,84	0,85	7,71	8,58	4,46	0,36	24,80
Czech Republic	EKO-COM	2,65	0,50	4,63	3,72	0,36	17,75	29,60

^{*}For countries where a Deposit Recycling System is active, the value of the fee was calculated with reference to packaging of equivalent in weight and materials.

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 Italy (plastic, steel), UK (aluminum, cardboard), Slovenia (glass) and Finland (wood).
- Higher in the Netherlands (plastic), Germany (aluminum), Sweden (cardboard, glass, steel) and Czech Republic (wood).

PRO FEEs 2024 Fee indicators for 2024

Overall, the aggregate fee indicator is lowest in Italy (2,24 ct), Cyprus (4,12 ct) and Slovenia (5,84 ct). For Italy and Slovenia, this is due to the fact that both countries have the lowest fee indicator for at least one material and have comparably low indicators for other materials as well. Cyprus does not have the lowest indicator for any material; however, the indicators for plastic, aluminum, cardboard and glass are quite low, compared to other countries. According to the table, Luxembourg (2,87 ct) would be the second lowest value, but no indicator for wood was available there, so the values are not fully comparable with those of the other countries. However, since Luxembourg has pretty low indicators for all other materials, it can be assumed that even if a wood indicator was added, Luxembourg would remain one of the lowest aggregate fee indicators.

On the other hand, the highest aggregate fee indicators were found in Czech Republic (29,60 ct), Sweden (24,80 ct) and France (24,14 ct). In the Czech Republic and France, the high aggregate fee indicator is due to high fee rates for wooden packages. In Sweden, the high aggregate fee indicator is a result of having high or even highest fee indicators for almost all materials: highest fee indicator for cardboard, glass and steel, second highest fee indicator for aluminum and fourth highest for plastic.

4 Comparison of the July 2023 and January 2024 values

In order to identify the economic trends related to the fee, the study assessed a comparison between the two aggregate indicators from July 2023 and January 2024. The list below is sorted according to the Trend January 2024, from highest reduction to highest increase.

Table 2: Comparison between the fees of July 2023 and January 2024

Country	Main PRO	Aggregate Fee Indica- tor Jan. 2024	Aggregate Fee Indica- tor July 23	Trend Janu- ary 2024
France*	CITEO	24,14 cents	36,83 cents	-34,5 %
UK*	VALPAK	8,17 cents	12,37 cents	-34,0 %
Czech Re-				
public	EKO-COM	29,60 cents	42,26 cents	-30,0 %
Slovenia	SLOPAK	5,84 cents	5,97 cents	-2 %
Finland	RINKI	8,50 cents	8,62 cents	-1,5 %
Estonia	ETO	14,65 cents	14,65 cents	0,0 %
	GREEN DOT CYP-			
Cyprus	RUS	4,12 cents	4,12 cents	0,0 %
Bulgaria	ECOPACK	13,41 cents	13,30 cents	1 %
Romania	ECO-ROM	13,39 cents	12,53 cents	6,8 %
Italy*	CONAI	2,24 cents	2,04 cents	9,9 %
Germany*	GRUNE PUNKT	15,76 cents	14,16 cents	11,3 %
Belgium	FOST PLUS	6,74 cents	6,02 cents	12,0 %
Austria	ARA	16,25 cents	13,54 cents	20,0 %
Luxem-				
bourg	VALORLUX	2,87 cents	2,37 cents	20,9 %
Spain*	ECOEMBES	8,94 cents	6,84 cents	30,7 %
Portugal	SPV	14,71 cents	9,30 cents	58 %
Nether-	AFVALFONDS			
lands	(SAV)	13,69 cents	8,63 cents	58,6 %
Sweden	NPA	24,80 cents	12,14 cents	104,2 %

^{*}Countries with a population of more than 20 million.

Fees were reduced in five out of 18 countries (28 %) between July 2023 and January 2024, with the largest reduction in France. In **France**, this decline is only due to the fall in the indicator for wood (-46 %), while all other indicators have increased. A reason for this decline wasn't stated by CITEO, however, in their annual report they presented new recycling and sorting technologies, which may explain the increase in the other indicators. ¹⁰ In the **UK**, the overall decrease is the result of a further decrease in PRN values between July 2023 and January 2024, especially for aluminum (-98 %), cardboard (-80 %) and wood (-80 %). Since the PRN market is based on supply and

⁹ The Trend January 2024 represents the delta of the absolute values; inflation rates were not taken into account.

¹⁰ https://bo.citeo.com/sites/default/files/2023-02/20220921_RA%20CITEO_GB.pdf

demand, this decrease may be the result of a surplus of evidence notes. However, it should be noted that the PRN values were derived from a different website, as the previous website was no longer publicly accessible. On the new website, the PRN values are given per week, whereas on the old website they were given per month. In the **Czech Republic**, the overall decrease is mainly a result of the decrease in the indicator for wood (-42 %). Some other indicators even rose (plastic +10 %, aluminum +25%). EKO-KOM illustrates on their website¹¹, when legal adjustments have an impact on the fee indicators, but for the 2024 values no explanation was available yet. It should also be noted that the value of the CZK has decreased, resulting in a lower fee indicator for glass in €, while the fee indicator in CZK has actually increased compared to 2023. In **Slovenia**, the small decrease is due to lower fee indicators for cardboard (-13 %) and glass (-39 %), while the fee indicators for paper and aluminum slightly increased (both +6 %). The changes to the fee indicators are not explained on the SLOPAK website. The indicators for steel and wood remained unchanged compared to 2023. In **Finland**, there is only a slight decrease observable for the aggregate fee indicator, which is surprising since Rinkis service fees are now (starting 2024) included in the PRO fees already. However, at Finnish Packaging Producers Ltd. only the fee indicator for cardboard (+31 %) increased compared to 2023, whereas all other indicators got cheaper. When taking Sumi Oys fee indicators into account, the increase in cardboard fees gets lowered down to only +13 %. Finnish Packaging Producers Ltd. explains the increase of cardboard fees by the following statement: "From July 2023 the producers are responsible for the costs of residential waste collection organised by municipalities for residences of at least five households and this approximately doubles the collection costs of consumer packaging waste."12 The price list of Sumi Oy doesn't state explanations for changes in fee indicators.

On the other hand, in eleven countries (61%) an increase of the aggregate fee indicator was recorded: the country who registered the most significant increase is **Sweden** (+104,2%), where the aggregate fee indicator more than doubled. The fee indicators for all materials increased, but glass and steel increased sharply by +148% and +181% respectively. The overall increase in indicators is explained by the NPA with the new regulation on producer responsibility, which extends their (financial) responsibility. But, in addition to the increased indicators, an indicator for wood was available in 2024, which is missing in the calculation for 2023. In the **Netherlands**, all indicators rose, with the highest increase in glass (+67%), plastic (+66%) and wood (+50%). Afvalfonds verpakkingen explains this increase by i. a. additional statutory duties they have to fulfill. A similar development can be observed in **Portugal**, where all indicators rose as well, with the highest increase in plastic (+83%), wood (+77%) and aluminum (+62%). An explanation for these changes cannot be found on the SPV website. An increase in all fee indicators can also be observed in **Spain**, with the highest increase in cardboard (+53%) and plastic (+41%). All changes starting from 2024

¹¹ https://www.ekokom.cz/en/clients/how-the-system-works/

¹² https://rinkiin.fi/app/uploads/2023/10/Price-List-2024-SPT-ENG.pdf

¹³ https://npa.se/en/about-us

¹⁴ https://www.afvalfondsverpakkingen.nl/en/node/450

are explained by Ecoembes in an infographic, e. g. that the payment for packaging recovered from general waste, road cleaning, green areas, recreational areas and beaches goes from being voluntary to mandatory. ¹⁵ In **Luxembourg**, not all indicators rose; the indicator for aluminum fell by 36 %. The highest increases in the fee indicators were for steel (+68 %) and plastic (+52 %). Valorlux has not published a specific explanation for the changes. However, Valorlux has published all its statistics on waste collection and recycling and explains that the fees are calculated on the basis of the collection and disposal costs and the revenue from the sale of the collected packaging materials¹⁶; therefore, the statistics can serve as an indicator of the changes. In Austria, some fee indicators remained the same. Only the fees for cardboard (+90 %), plastic (+12 %) and glass (+7 %) increased. ARA does not give specific explanations for the changes, but they note that the rates reflect the expenses of the various packaging materials cause in the collection and recovery cycle.¹⁷ In **Belgium**, a sharp increase in the indicator for steel can be observed (+322 %). Cardboard (+55 %) and glass (+18 %) also increased, whereas indicators for plastic (-64 %) and aluminum (-4 %) decreased. Fostplus published a blog post on the new 2024 fees and explained some changes.¹⁸ However, they do not exactly explain the large increase in steel. In **Germany**, all indicators increased, with the highest increase in glass (+30 %), and steel (+11 %). Grüner Punkt does not explain the changes on their website. The biggest change in a fee indicator can be observed in Italy, where the indicator for cardboard sharply increased by 600 % compared to 2023. Compared to other countries, however, the fee indicator for cardboard is still one of the lowest in Italy. Other indicators rose as well (glass +35 %, wood +13 %), whereas other indicators remained the same (plastic, aluminum, steel). CONAI explains their general calculation with the Legislative Decree 152/06 and that the contribution level is linked to the environmental impact at the end-of-life-stadium.¹⁹ Moreover, they published a press release which gives detailed information about changes in the fee indicators.²⁰ For pulp and paper, the high increase is explained by a sharp decrease in the market values of pulp and paper as well as an increase in the quantities of managed packaging waste, among other things. In **Romania**, all indicators sightly increased, with the indicator for wood with the biggest increase (+9 %). An explanation could not be found on the website of Eco-Rom. The lowest increase of the aggregate fee indicator can be observed in **Bulgaria**, where the fee indicator increased by +1 %. Only the indicators for plastic (+8 %) and aluminum (+51 %) increased while all other indicators remained unchanged. Changes are not explained. Cyprus and Estonia are the only countries where all fees remained unchanged compared to 2023. For Cyprus, the fee values were constant for the years 2017-2024.21 In Estonia it is not evident for which exact year(s) the listed fees are.

¹⁵ https://www.ecoembes.com/sites/default/files/inline-files/recursos/infografia-tarifas-punto-verde-2024-en.pdf

¹⁶ https://www.valorlux.lu/media/651e72248cfa9_factsheet-de_2022.pdf

¹⁷ https://www.ara.at/en/licensing-service-for-packaging

¹⁸ https://www.fostplus.be/en/blog/green-dot-fees-2024

¹⁹ https://www.conai.org/imprese/contributo-ambientale/

²⁰ https://t1p.de/37fn7

²¹ https://greendot.com.cy/en/packaging-definition-and-fees/packaging-fees/

5 Accessibility and transparency of the data

I. Accessibility

The fee indicators utilized in calculating the fees for the six packaging options are sourced from the respective PRO websites, with the exception of the UK values, which are obtained from an external website. This deviation is a result of the UK employing a system where Packaging Waste Recovery Notes (PRNs) are procured instead of relying on PRO fees.

Nevertheless, there are variations in the accessibility of these values across PRO websites. Some PROs provide their websites in multiple languages, offering the advantage of facilitating foreign companies in finding PRO fees and completing their declarations more conveniently. The table below provides an overview of PROs that offer their websites in at least one language other than their primary one. PROs marked with an asterisk (*) have their fee indicators available in English.

Table 3: Overview of offered languages on the websites of PROs

Available in more languages	Only available in own language
 ARA* (Austria): German, English Fostplus* (Belgium): Dutch, French, English Ecopack* (Bulgaria): Bulgarian, English Greendot* (Cyprus): Greek, English Eko-kom* (Czech Republic): Czech, English ETO* (Estonia): Russian, Estonian, English Rinki* (Finland): Finnish, Swedish, English Grüne Punkt* (Germany): German, English, Chinese CONAI* (Italy): Italian, English Valorlux* (Luxembourg): German, English, French Afvalfonds* (Netherlands): Dutch, English SPV* (Portugal): Portuguese, English 	 CITEO* (France) Eco-Rom (Romania) SLOPAK (Slovenia) VALPAK* (UK)
Ecoembes* (Spain):Spanish, EnglishNPA* (Schweden):	
Swedish, English	

Enhanced accessibility is facilitated by the presence of a search bar or a direct link to fees on the main page of the respective PRO website. Fostplus, ETO, Rinki, Afvalfonds, Ecoembes, and NPA exemplify this convenience by providing a direct link to fees prominently on their main pages or easily accessible through navigation. Furthermore, these fees can be found using the search bar on these websites.

In contrast, on some other websites like ARA, Ecopack, CONAI, and Valorlux, the fees are located on sub-pages such as "News," "Members/Business," or "Services." Notably, accessing fee information on CITEO's website poses additional challenges, as the main website is exclusively available in French. Moreover, companies are required to register (at no cost) to download the fees, adding an extra layer of complexity to the process.

II. Transparency

On every PRO website, it is generally explained that fees are allocated for the collection, recycling, and recovery of packaging waste. Some provide a more detailed breakdown, outlining how the fees are calculated or specifying their designated purposes. Some PROs also explain changes in the fee indicators (see chapter 4). Moreover, the majority of PROs release an annual report detailing the tons collected and, in some cases, recycled. A handful also make available a public list of their members. The table below provides an overview of the information offered by different PROs.

Table 4: Overview of offered information on the websites of PROs

PRO	Info about use of fees	Explanation fee changes	Annual report	Member list
ARA			\boxtimes	\boxtimes
Fostplus	\boxtimes	\boxtimes	\boxtimes	\boxtimes
Ecopack				
Green-Dot			\boxtimes	\boxtimes
Eko-Kom	\boxtimes		\boxtimes	\boxtimes
ЕТО	\boxtimes			\boxtimes
Rinki	\boxtimes		\boxtimes	
CITEO	\boxtimes		\boxtimes	
Grüner Punkt				\boxtimes
CONAI	\boxtimes		\boxtimes	
Valorlux			\boxtimes	\boxtimes
Afvalfonds	\boxtimes		\boxtimes	
SPV			\boxtimes	
Eco-Rom	\boxtimes			\boxtimes
SLOPAK				
Ecoembes	\boxtimes	\boxtimes	\boxtimes	
NPA	\boxtimes	\boxtimes	\boxtimes	
VALPAK			\boxtimes	

PRO FEEs 2024 Conclusion

6 Conclusion

In summary, the analysis of fee values across various countries reveals clear trends and differences in the management of packaging waste. Lower fee values are prevalent in Italy, the UK, Slovenia and Finland, whereas higher fee values characterize countries like the Netherlands, Germany, Sweden, and the Czech Republic. As of January 2024, the aggregate fee indicator was lowest in Italy (2,24 ct) and highest in Czech Republic (29,60 ct). Overall, a decline in the aggregate fee indicator was only observed in five countries between July 2023 and January 2024, while an increase was observed in eleven countries. It became clear that a change in the indicator for wood has a significant impact on the aggregate fee indicator, as the packaging itself accounts for around 50 % of the total weight of all six packaging solutions (800 g of 1604,6 g). High increases in the fee indicators for other packaging, which only account for a small proportion of the total weight, therefore only have a minor impact on the aggregate fee indicator. This can be seen in Italy, where the indicator for cardboard has risen by 600 %, but the aggregate fee indicator has only risen by around 10 %. Changes in fee indicators were only explicitly explained by eight PROs.

Moreover, the accessibility and transparency of fee information vary across different PRO websites, with some offering multilingual interfaces and easy access to fee structures, while others present challenges in navigation and require registration for accessing information. 13 PROs offer a detailed calculation and an annual report and eight PROs publish a list of their members. Nonetheless, the general transparency among PROs regarding fee allocation and reporting on waste collection and recycling activities underscores efforts towards accountability and sustainability in the management of packaging waste.

Annex

I. Austria

Main PRO: ARA

Source: https://www.ara.at/uploads/Dokumente/Tarifbl%C3%A4tter/ARA-

Tarifblatt-2024.pdf

Note: Some fees remain unchanged.

i. Transparent PET Bottle

July 2023:

Fee indicator:	1.04.1 "Kunststoffe Haushalt": 0,780 €/kg
Calculation	42 g * 0,078 cent/g = 3,276 cent



January 2024:

Fee indicator:	1.04.1 "Kunststoffe Haushalt": 0,870 €/kg
Calculation	42 g * 0,087 cent/g = 3,654 cent

ii. Aluminum Can

July 2023 + January 2024:

Fee indicator:	1.03.2 "Aluminium Haushalt": 0,34 €/kg
Calculation	16 g * 0,034 cent/g = 0,544 cent



iii. Cardboard Box

July 2023:

Fee indicator:	1.01.0 "Papier Haushalt": 0,100 €/kg
Calculation	222 g * 0,01 cent/g = 2,22 cent



January 2024:

Fee indicator:	1.01.0 "Papier Haushalt": 0,190 €/kg
Calculation	222 g * 0,019 cent/g = 4,218 cent

iv. Transparent Glass Water Bottle

Fee indicator:	1.02.0 "Glas Haushalt": 0,095 €/kg
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	1.03.2 "Aluminium Haushalt": 0,34 €/kg
Calculation	480 g * 0,0095 cent/g = 4,56 cent
	0,6 g * 0,034 cent/g = 0,0204 cent
	Total: 4,58 cent



January 2024:

Fee indicator:	1.02.0 "Glas Haushalt": 0,102 €/kg 1.03.2 "Aluminium Haushalt": 0,34 €/kg
Calculation	480 g * 0,0102 cent/g = 4,896 cent
	0,6 g * 0,034 cent/g = 0,0204 cent
	Total: 4,916 cent

v. Canned Tomatoes

July 2023 + January 2024:

Fee indicator:	1.03.1 "Eisenmetall Haushalt": 0,3 €/kg
Calculation	44 g * 0,03 cent/g= 1,32 cent



vi. Wooden Box

Fee indicator:	1.04.5 "Holz Haushalt": 0,02 €/kg
Calculation	800 g * 0,002 cent/g= 1,6 cent



II. Belgium

Main PRO: FOST PLUS

Source: https://www.fostplus.be/en/members/green-dot-rates

Note: There was no fee indicator for wooden packages.

i. Transparent PET Bottle

July 2023:

Fee indicator:	PET bottles and flasks - transparent colourless: 0,3125 €/kg PET rigid packaging other than bottles and flasks transparent: 0,7431 €/kg
Calculation	40 g * 0,03125 ct/g = 1,25 cent 2 g * 0,07431 ct/g = 0,14862 cent Total: 1,399 cent



January 2024:

Fee indicator:	PET bottles and flasks - transparent colourless: 0,0646 €/kg PET rigid packaging other than bottles and flasks transparent: 1,031 €/kg
Calculation	40 g * 0,03125 ct/g = 0,2584 cent 2 g * 0,1031 ct/g = 0,2062 cent Total: 0,465 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 0,0234 €/kg
Calculation	16 g * 0,00234 ct/g = 0,03744 cent



January 2024:

Fee indicator:	Aluminum: 0,0224 €/kg
Calculation	16 g * 0,00224 ct/g = 0,036 cent

iii. Cardboard Box



Fee indicator:	Paper-Cardboard: 0,0781 €/kg
Calculation	222 g * 0,00781 ct/g = 1,73382 cent

January 2024:

Fee indicator:	Paper-Cardboard: 0,1209 €/kg
Calculation	222 g * 0,01209 ct/g = 2,684 cent

iv. Transparent Glass Water Bottle

July 2023:

Fee indicator:	Glass: 0,0581 €/kg Aluminum: 0,0234 €/kg
Calculation	480 g * 0,00581 ct/g = 2,7888 cent
	0,6 g * 0,00234 ct/g = 0,001404 cent
	Total: 2,79 cent



January 2024:

Fee indicator:	Glass: 0,0687 €/kg
	Aluminum: 0,0224 €/kg
Calculation	480 g * 0,00687 ct/g = 3,2976 cent
	0,6 g * 0,00224 ct/g = 0,001344 cent
	Total: 3,299 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Steel: 0,014 €/kg
Calculation	44 g * 0,0014 cent/g= 0,0616 cent



January 2024:

Fee indicator:	Steel: 0,0591 €/kg
Calculation	44 g * 0,00591 cent/g= 0,26 cent

vi. Wooden Box



Fee indicator:	Not available
Calculation	Not available

III. Bulgaria

Main PRO: Ecopack

Source: https://www.ecopack.bg/en/members/pricing-and-business-policy

Currency exchange (July 2023 + January 2024): 1 BGN = 0,51 €.

Note: Some fees remained unchanged.

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastic, Base fee rate for recover: 0,209 BGN/kg
	→ 0,10659 €/kg
Calculation	42 g * 0,010659 cent/g = 0,448 cent



January 2024:

Fee indicator:	Plastic, Base fee rate for recover: 0,225 BGN/kg
	→ 0,11475 €/kg
Calculation	42 g * 0,011475 cent/g = 0,482 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum, base fee rate: 0,175 BGN/kg
	→ 0,08925 €/kg
Calculation	16 g * 0,008925 ct/g = 0,143 cent



January 2024:

Fee indicator:	Aluminum, base fee rate: 0,265 BGN/kg
	→ 0,13515 €/kg
Calculation	16 g * 0,013515 ct/g = 0,216 cent

iii. Cardboard Box

Fee indicator:	Paper and cardboard, base rate: 0,204 BGN/kg
	→ 0,10404 €/kg
Calculation	222 g * 0,010404 ct/g = 2,31 cent



iv. Transparent Glass Water Bottle

July 2023 + January 2024:

Fee indicator:	Glass, base fee rate: 0,235 BGN/kg
	Aluminum: 0,175 BGN/kg
	 → Glass: 0,11985 €/kg → Aluminum: 0,08925 €/kg
Calculation	480 g * 0,011985 ct/g = 5,753 cent
	0,6 g * 0,008925 ct/g = 0,005 cent
	Total: 5,758 cent



v. Canned Tomatoes

July 2023 + January 2024:

Fee indicator:	Steel Base Amount: 0,105 BGN/kg
	→ 0,05355 €/kg
Calculation	44 g * 0,005355 cent/g= 0,236 cent



vi. Wooden Box

Fee indicator:	Wood Base Amount: 0,108 BGN/kg
	→ 0,05508 €/kg
Calculation	800 g * 0,005508 cent/g = 4,406 cent



IV. Cyprus

Main PRO: Green Dot Cyprus

Source: https://greendot.com.cy/en/packaging-definition-and-fees/packaging-fees/

Note: Values for 2023 and 2024 remained unchanged.

i. Transparent PET Bottle

July 2023 + January 2024:

Fee indicator:	PET: 100,6 €/t
Calculation	42 g * 0,01006 ct/g = 0,42 cent



ii. Aluminum Can

July 2023 + January 2024:

Fee indicator:	Aluminum: 20,31 €/t
Calculation	16 g * 0,002031 ct/g = 0,03 cent



iii. Cardboard Box

July 2023 + January 2024:

Fee indicator:	Carton: 44,78 €/t
Calculation	222 g * 0,004478 ct/g = 0,99 cent



iv. Transparent Glass Water Bottle

July 2023 + January 2024:

Fee indicator:	Glass: 27,61 €/t Aluminum: 20,31 €/t
Calculation	480 g * 0,002761 ct/g = 1,325 cent 0,6 g * 0,002031 ct/g = 0,0012 cent Total: 1,33 cent



v. Canned Tomatoes

Fee indicator:	Metal: 90,62 €/t
Calculation	44 g * 0,009062 ct/g= 0,4 cent



vi. Wooden Box

Fee indicator:	Wood: 11,80 €/t
Calculation	800 g * 0,00118 ct/g = 0,94 cent



V. Czech Republic

Main PRO: Ekokom

Source: https://www.ekokom.cz/wp-content/up-

loads/2023/11/Fees valid from 1 1 2024.pdf and https://www.ekokom.cz/wp-content/uploads/2023/05/EKOKOM fees valid from 1 7 2023.pdf

Currency exchange:

July 2023: 1 CZK = 0,042 €
January 2024: 1 CZK = 0,041 €

Note: All fees are from the category "Sales one-way packaging". The result for the glass bottle, which is cheaper in 2024, only results in different currency exchange.

i. Transparent PET Bottle

July 2023:

Fee indicator:	PET clear transparent, beverage, soft flexible: 13.617 CZK/t → 571,914 €/t PET colored opaque, beverage, virgin up to 3L: 13.224 CZK/t → 555,408 €/t
Calculation	40 g * 0,0571914 ct/g = 2,288 cent 2 g * 0,0555408 ct/g = 0,111 cent Total: 2,399 cent



January 2024:

Fee indicator:	PET clear transparent, beverage, soft flexible: 15.478 CZK/t → 634,598 €/t PET colored opaque, beverage, virgin up to 3L: 13.117 CZK/t → 537,797 €/t
Calculation	40 g * 0,0634598 ct/g = 2,538 cent 2 g * 0,0537797 ct/g = 0,108 cent Total: 2,646 cent

ii. Aluminum Can

Fee indicator:	Aluminum, beverage, soft: 5.930 CZK/t
	→ 249,06 €/t
alculation	16 g * 0,024906 ct/g = 0,398 cent



January 2024:

Fee indicator:	Aluminum, beverage, soft: 7.601 CZK/t
	→ 311,641 €/t
alculation	16 g * 0,0311641 ct/g = 0,499 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Paperboard, non-beverage: 5.208 CZK/t
	→ 218,736 €/t
Calculation	222 g * 0,0218736 ct/ = 4,856 cent



January 2024:

Fee indicator:	Paperboard, non-beverage: 5.090 CZK/t → 208,69 €/t
Calculation	222 g * 0,020869 ct/ = 4,633 cent

iv. Transparent Glass Water Bottle

July 2023:

Fee indicator:	Glass, clear transparent, beverage: 1.843 CZK/t
	→ 77,40 €/t
	Aluminum, beverage, rigid, virgin, up to 3L: 3.099 CZK/t
	→ 130,16 €/t
Calculation	480 g * 0,0077406 ct/g = 3,715 cent
	0,6 g * 0,0130158 ct/g = 0,008 cent
	Total: 3,723 cent



January 2024:

Fee indicator:	Glass, clear transparent, beverage: 1.884 CZK/t
	→ 77,244 €/t
	Aluminum, beverage, rigid, virgin, up to 3L: 3.269 CZK/t
	→ 134,029 €/t

Calculation	480 g * 0,0077244 ct/g = 3,708 cent
	0,6 g * 0,0134029 ct/g = 0,008 cent
	Total: 3,716 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Metals Fe, non-beverage, rigid, up to 3L: 2.060 CZK/t → 86,52 €/t
Calculation	44 g * 0,008652 ct/g= 0,381 cent



January 2024:

Fee indicator:	Metals Fe, non-beverage, rigid, up to 3L: 1.992 CZK/t → 81,672 €/t
Calculation	44 g * 0,0081672 ct/g= 0,359 cent

vi. Wooden Box

July 2023:

Fee indicator:	Wood and chipboard, non-beverage:
	9.079 CZK/t
	→ 381,818 €/t
Calculation	800 g * 0,0381318 ct/g = 30,505 cent



January 2024:

Fee indicator:	Wood and chipboard, non-beverage:
	5.412 CZK/t
	→ 221,892 €/t
Calculation	800 g * 0,0221892 ct/g = 17,751 cent

VI. Estonia

Main PRO: ETO

Source: https://www.eto.ee/en/producerimporter/service-fees/

Note: All values represent the "calculated rate of service fee EUR/t". The values remain unchanged; however, there is no information on the website for which year(s) the presented fees are applicable.

i. Transparent PET Bottle

July 2023 + January 2024:

Fee indicator:	Plastic (monomaterial): 433 €/t
Calculation	42 g * 0,0433 ct/g = 1,819 cent



ii. Aluminum Can

July 2023 + January 2024:

Fee indicator:	Aluminum: 270 €/t
Calculation	16 g * 0,027 ct/g = 0,432 cent



iii. Cardboard Box

July 2023 + January 2024:

Fee indicator:	Paper and carton: 112 €/t
Calculation	222 g * 0,0112 ct/g = 2,486 cent



iv. Transparent Glass Water Bottle

July 2023 + January 2024:

Fee indicator:	Glass and ceramics: 108 €/t Aluminum: 270 €/t
Calculation	480 g * 0,0108 ct/g = 5,184 cent 0,6 g * 0,027 ct/g = 0,016 cent Total: 5,2 cent



v. Canned Tomatoes

Fee indicator:	Ferrous metal: 270 €/t
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Calculation	44 g * 0,027 ct/g= 1,188 cent
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vi. Wooden Box

Fee indicator:	Wood: 44 €/t
Calculation	800 g * 0,0044 ct/g = 3,52 cent



VII. Finland

Main PRO: Rinki

Source: https://rinkiin.fi/en/producer-responsibility/price-lists/

Note: The values represent the average of the two PROs that exist in Finland, Finnish Packaging Producers Ltd. and Sumi Oy. For the last report and for the July 2023 values, only fees from Finnish Packaging Producers were used. The values cannot be adjusted since the values for Sumi Oy for 2023 are not available anymore. Therefore, the comparison needs to be seen with caution.

i. Transparent PET Bottle

July 2023:

Fee indicator:	Finnish Packaging Producers, Plastic, B2c, Class B: 290 €/t
Calculation	42 g * 0,029 ct/g = 1,218 cent



January 2024:

Fee indicator:	Finnish Packaging Producers, Plastic, B2c, Class B: 259 €/t Sumi Oy, Plastic, B2C, Class B: 270 €/t
Calculation	42 g * ((0,0259+0,027)/2) ct/g = 1,111 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Finnish Packaging Producers, Metals, Aluminum packaging, B2c, Class A: 96 €/t
Calculation	16 g * 0,0096 ct/g = 0,1536 cent



January 2024:

Fee indicator:	Finnish Packaging Producers, Metals, Aluminum packaging, B2c: 79 €/t Sumi Oy, Metals, Aluminum packaging, B2c, Class A: 86 €/t
Calculation	16 g * ((0,0079+0,0086)/2) ct/g = 0,132 cent

Cardboard Box

Fee indicator:	Finnish Packaging Producers, Paper fibre, carton and paper packaging, B2C: 86 €/t
Calculation	222 g * 0,0086 ct/g = 1,9092 cent



January 2024:

Fee indicator:	Finnish Packaging Producers, Paper fibre, carton and paper packaging, B2C, Class A: 81 €/t Sumi Oy, Paper fibre, carton and paper packaging, B2C, Class A: 113 €/t
Calculation	222 g * ((0,0081+0,0113)/2) ct/g = 2,153 cent

iii. Transparent Glass Water Bottle

July 2023:

Fee indicator:	Finnish Packaging Producers, Glass packaging Class A: 98 €/t Aluminum: 96 €/t
Calculation	480 g * 0,0098 ct/g = 4,704 cent 0,6 g * 0,0096 ct/g = 0,00576 cent Total: 4,709 cent



January:

	<u></u>
Fee indicator:	Finnish Packaging Producers, Glass packaging Class A: 101 €/t
	Sumi Oy, Glass, Class A: 88 €/t
	FPP, Aluminum, Class C: 114 €/t
	Sumi Oy, Aluminum, Class C: 154 €/t
Calculation	480 g * 0,00945 ct/g = 4,536 cent
	0.6 g * 0.0134 ct/g = 0.008 cent
	Total: 4,544 cent

iv. Canned Tomatoes

consumer, Class A: 96 €/t		Finnish Packaging Producers, Steel Packaging consumer, Class A: 96 €/t
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Calculation	44 g * 0,0096 cent/g= 0,4224 cent
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January 2024:

Fee indicator:	Finnish Packaging Producers, Steel Packaging consumer, Class A: 79 €/t Sumi Oy, Steel, Class A: 86 €/t
Calculation	44 g * 0,00825 cent/g= 0,363 cent

v. Wooden Box

July 2023:

Fee indicator:	Finnish Packaging Producers, Other wooden pallets and other wooden packaging, Class B: 2,60 €/t
Calculation	800 g * 0,00026 cent/g = 0,208 cent



January 2024:

Fee indicator:	Finnish Packaging Producers, Other wooden pallets and other wooden packaging, Class B: 2,20 €/t
	Sumi Oy, Wood packaging, Class B: 2,60 €/t
Calculation	800 g * 0,00024 cent/g = 0,192 cent

VIII. France

Main PRO: CITEO

Source: https://www.citeo.com/tarifs-citeo-emballages-et-papiers

Calculation method



^{*} Premiums for integration of recycled materials

i. Transparent PET Bottle

July 2023:

Fee indicator:	clear PET bottles: 33,04 ct/kg Rigid PET packaging: 38,91 ct/kg
Units per CSU:	2 → 0,146 ct
Bonus/ Premium / Penalty:	4%/0/0
Calculation	(40 g * 0,03304 ct/g + 2 g * 0,03891 ct/g + 0,146 cent) * 0,96 = 1,4836 cent



January 2024:

Fee indicator:	clear PET bottles: 38,16 ct/kg Rigid PET packaging: 50,74 ct/kg
Units per CSU:	2 → 0,1773 ct
Bonus/ Premium / Penalty:	4%/0/0
Calculation	(40 g * 0,03816 ct/g + 2 g * 0,05074 ct/g + 0,1773 cent) * 0,96 = 1,733 cent

ii. Aluminum Can

Fee indicator:	Aluminum: 13,03 ct/kg
Units per CSU:	1 → 0,0859 cent



^{**} 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).

Bonus/ Premium / Penalty:	4%/0/0
Calculation	(16 g * 0,01303 ct/g + 0,0859 cent) * 0,96 = 0,2826 cent

January 2024:

Fee indicator:	Aluminum: 15,43 ct/kg
Units per CSU:	1 → 0,1043 cent
Bonus/ Premium / Penalty:	4%/0/0
Calculation	(16 g * 0,01543 ct/g + 0,1043 cent) * 0,96 = 0,3358 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Paper/cardboard: 17,07 ct/kg
Units per CSU:	1 → 0,0859 cent
Bonus/ Premium / Penalty:	0%/0/0
Calculation	(222 g * 0,01707 ct/g + 0,0859 cent) * 1 = 3,8754 cent



January 2024:

Fee indicator:	Paper/cardboard: 20,19 ct/kg
Units per CSU:	1 → 0,1043 cent
Bonus/ Premium / Penalty:	0%/0/0
Calculation	(222 g * 0,02019 ct/g + 0,1043 cent) * 1 = 4,5865 cent

iv. Transparent Glass Water Bottle

Fee indicator:	Glass: 1,27 ct/kg
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	Aluminum: 13,03 ct/kg
Units per CSU:	2 → 0,146 cent
Bonus/ Premium / Penalty:	4%/0/0
Calculation	(480 g * 0,00127 ct/g + 0,6 g * 0,01303 ct/g + 0,146 cent) * 0,96 = 0,7329 cent



January 2024:

Fee indicator:	Glass: 1,5 ct/kg Aluminum: 15,34 ct/kg
Units per CSU:	2 → 0,1773 cent
Bonus/ Premium / Penalty:	4%/0/0
Calculation	(480 g * 0,0015 ct/g + 0,6 g * 0,01534 ct/g + 0,1773 cent) * 0,96 = 0,8702 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Acier: 4,88 ct/kg
Units per CSU:	1 → 0,0859 cent
Bonus/ Premium / Penalty:	0%/0/0
Calculation	(44 g * 0,00488 ct/g + 0,0859 ct) * 1 = 0,3006 cent



January:

Fee indicator:	Acier: 5,72 ct/kg
Units per CSU:	1 → 0,1043 cent
Bonus/ Premium / Penalty:	0%/0/0
Calculation	(44 g * 0,00572 ct/g + 0,1043 ct) * 1 = 0,3560 cent

vi. Wooden Box

July 2023:

Fee indicator:	Unprocessed materials from renewable, sustainably managed resources for which a recycling stream or organic recovery is under development (wood, cork): 37,58 ct/kg
Units per CSU:	1 → 0,0859 cent
Bonus/ Premium / Penalty:	0%/0/0
Calculation	(800 g * 0,03758 ct/g + 0,0859 ct) * 1 = 30,1499 cent



Fee indicator:	Unprocessed materials from renewable, sustainably managed resources for which a recycling stream or organic recovery is under development (wood, cork): 20,19 ct/kg
Units per CSU:	1 → 0,1043 cent
Bonus/ Premium / Penalty:	0%/0/0
Calculation	(800 g * 0,02019 ct/g + 0,1043 ct) * 1 = 16,2563 cent

IX. Germany

Main PRO: Grüner Punkt

Source: https://www.verpackgo.com/de/license-calculator/

Notes:

To calculate the fees, 1 ton of each material was entered into the calculator.
 The respective values for the materials were then used for the product specific indicator.

- Fees include the use of the label
- No fee indicator for wood was available

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastic: 799 €/t
Calculation	42 g * 0,0799 ct/g = 3,3558 cent



January 2024:

Fee indicator:	Plastic: 850 €/t
Calculation	42 g * 0,085 ct/g = 3,57 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 820 €/t
Calculation	16 g * 0,082 ct/g = 1,1312 cent



January 2024:

Fee indicator:	Aluminum: 850 €/t
Calculation	16 g * 0,085 ct/g = 1,36 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Carton: 171 €/t
Calculation	222 g * 0,0171 ct/g = 3,7962 cent



Fee indicator:	Carton: 184 €/t
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Calculation	222 g * 0,0184 ct/g = 4,085 cent	
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July 2023:

Glass: 48 €/t Aluminum: 820 €/t
480 g * 0,0048 ct/g = 2,304 cent 0,6 g * 0,082 ct/g = 0,0492 cent Total: 2,3532 cent
4 4



January 2024:

Fee indicator:	Glass: 62,5 €/t Aluminum: 850 €/t
Calculation	480 g * 0,00625 ct/g = 3 cent 0,6 g * 0,085 ct/g = 0,051 cent Total: 3,051 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Ferrous metals: 760 €/t
Calculation	44 g * 0,076 cent/g= 3,344 cent



January 2024:

Fee indicator:	Ferrous metals: 840 €/t
Calculation	44 g * 0,084 cent/g= 3,696 cent

vi. Wooden Box

July 2023 + January 2024:

Fee indicator:	Not available
Calculation	Not available



X. Italy

Main PRO: CONAI

Source: https://www.conai.org/en/businesses/environmental-contribution/ and

https://www.conai.org/imprese/contributo-ambientale/

Note: Some fees remained unchanged.

i. Transparent PET Bottle

July 2023 + January 2024:

Fee indicator:	Plastic B1.2: 20 €/t Plastic B2.1: 350 €/t
Calculation	40 g * 0,002 ct/g = 0,08 cent 2 g * 0,035 ct/g = 0,07 cent Total: 0,15 cent



ii. Aluminum Can

July 2023 + January 2024:

Fee indicator:	Aluminum: 7 €/t
Calculation	16 g * 0,0007 ct/g = 0,0112 cent



iii. Cardboard Box

July 2023:

Fee indicator:	Paper level 1: 5 €/t
Calculation	222 g * 0,0005 ct/g = 0,111 cent



January 2024:

Fee indicator:	Paper level 1: 35 €/t
Calculation	222 g * 0,0035 ct/g = 0,777 cent

iv. Transparent Glass Water Bottle

Fee indicator:	Glass: 23 €/t
	Aluminum: 7€/t
Calculation	480 g * 0,0023 ct/g = 1,104 cent



0,6 * 0,0007 ct/g = 0,00042 cent
Total: 1,10442 cent

January 2024:

Fee indicator:	Glass: 15 €/t
	Aluminum: 7€/t
Calculation	480 g * 0,0015 ct/g = 0,72 cent 0,6 * 0,0007 ct/g = 0,00042 cent Total: 0,720 cent

v. Canned Tomatoes

July 2023 + January 2024:

Fee indicator:	Steel: 5 €/t
Calculation	44 g * 0,0005 cent/g= 0,022 cent



vi. Wooden Box

July 2023:

Fee indicator:	Wood: 8 €/t
Calculation	800 g * 0,0008 ct/g = 0,64 cent



Fee indicator:	Wood: 7 €/t
Calculation	800 g * 0,0007 ct/g = 0,56 cent

XI. Luxembourg

Main PRO: Valorlux

Source: https://www.valorlux.lu/media/634doafc6db92 gruener-punkt-tarife-2023-detailliert-.pdf and https://www.valorlux.lu/media/652fe3b3e00e5 gruener-punkt-tarife-2024-detailliert-.pdf

Note: No specific indicator for wooden packaging was given (only for B2B).

i. Transparent PET Bottle

July 2023:

Fee indicator:	PV06: 0,1226 €/kg
	PV10: 0,1538 €/kg
Calculation	40 g * 0,01226 ct/g = 0,4904 cent
	2 g * 0,01538 ct/g = 0,03076 cent
	Total: 0,52116 cent



January 2024:

Fee indicator:	PV06: 0,1865 €/kg PV10: 0,179 €/kg
Calculation	40 g * 0,01865 ct/g = 0,758 cent 2 g * 0,0179 ct/g = 0,0358 cent Total: 0,794 cent

ii. Aluminum Can

July 2023:

Fee indicator:	PV05: 0,0286 €/kg
Calculation	16 g * 0,00286 ct/g = 0,04576 cent



January 2024:

Fee indicator:	PVo5: 0,0184 €/kg
Calculation	16 g * 0,00184 ct/g = 0,029 cent

iii. Cardboard Box

PV02: 0,0444 €/kg

Calculation	222 g * 0,00444 ct/g = 0,98568 cent
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January 2024:

Fee indicator:	PV02: 0,0451 €/kg
Calculation	222 g * 0,00451 ct/g = 1,001 cent



iv. Transparent Glass Water Bottle

July 2023:

Fee indicator:	PV01: 0,0161 €/kg PV05: 0,0286 €/kg
Calculation	480 g * 0,00161 ct/g = 0,7728 cent 0,6 g * 0,00286 ct/g = 0,001716 cent Total: 0,7745 cent



January 2024:

Fee indicator:	PV01: 0,0201 €/kg PV05: 0,0184 €/kg
Calculation	480 g * 0,00201 ct/g = 0,9648 cent 0,6 g * 0,00184 ct/g = 0,0011 cent Total: 0,966 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	PV04: 0,0107 €/kg
Calculation	44 g * 0,00107 cent/g= 0,04708 cent



January 2024:

Fee indicator:	PV04: 0,0180 €/kg
Calculation	44 g * 0,0018 cent/g= 0,079 cent

vi. Wooden Box

Fee indicator:	Not available
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XII. Netherlands

Main PRO: Afvalfonds Verpakkingen (SAV)

Source: https://www.afvalfondsverpakkingen.nl/en/node/450

Please note: Some fee indicators changed in their description (plastic).

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastic (lower rate): 0,79 €/kg
Calculation	42 g * 0,079 ct/g = 3,318 cent

January 2024:

Fee indicator:	Plastic flexible: 1,32 €/kg Plastic rigid: 1,22 €/kg
Calculation	40 g * 0,132 ct/g = 5,28 cent 2 g * 0,122 ct/g = 0,244 cent
	Total: 5,524 cent



ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 0,16 €/kg
Calculation	16 g * 0,016 ct/g = 0,256 cent



ALUMINIUM CAN 33 cl 16 g

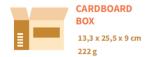
January 2024:

Fee indicator:	Aluminum: 0,2 €/kg
Calculation	16 g * 0,02 ct/g = 0,32 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Paper and cardboard: 0,012 €/kg
Calculation	222 g * 0,0012 ct/g = 0,2664 cent



Fee indicator:

Calculation	222 g * 0,0017 ct/g = 0,377 cent
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July 2023:

Fee indicator:	Glass: 0,06 €/kg Aluminum: 0,16 €/kg
Calculation	480 g * 0,006 ct/g + 0,6 * 0,016 ct/g = 2,8896 cent



January 2024:

Fee indicator:	Glass: 0,1 €/kg Aluminum: 0,2 €/kg
Calculation	480 g * 0,01 ct/g = 4,8 cent 0,6 * 0,02 ct/g = 0,0012 cent Total: 4,812 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Other metals: 0,25 €/kg
Calculation	44 g * 0,025 cent/g= 1,1 cent



January 2024:

Fee indicator:	Other metals: 0,33 €/kg
Calculation	44 g * 0,033 cent/g= 1,452 cent

vi. Wooden Box

July 2023:

Fee indicator:	Wood: 0,010 €/kg
Calculation	800 g * 0,0010 cent/g = 0,8 cent



Fee indicator:	Wood: 0,015 €/kg
Calculation	800 g * 0,0015 cent/g = 1,2 cent

XIII. Portugal

Main PRO: SPV

Source: https://www.pontoverde.pt/aderentes-uk/Green%20Dot%20Fees%202023.pdf

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastic: 0,1616 €/kg
Calculation	42 g * 0,01616 ct/g = 0,67872 cent



January 2024:

Fee indicator:	Plastic: 0,2960 €/kg
Calculation	42 g * 0,0296 ct/g = 1,243 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 0,0405 €/kg
Calculation	16 g * 0,00405 ct/g = 0,0648 cent



January 2024:

Fee indicator:	Aluminum: 0,0658 €/kg
Calculation	16 g * 0,00658 ct/g = 0,105 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Paper and Cardboard: 0,1067 €/kg
Calculation	222 g * 0,01067 = 2,36874 cent



January 2024:

Fee indicator:	Paper and Cardboard: 0,1477 €/kg
Calculation	222 g * 0,01477 = 3,279 cent

iv. Transparent Glass Water Bottle

Fee indicator:	Glass: 0,0204 €/kg Aluminum: 0,0405 €/kg
Calculation	480 g * 0,00204 ct/g = 0,9792 cent 0,6 * 0,00405 ct/g = 0,00243 cent Total: 0,98163 cent



January 2024:

Fee indicator:	Glass: 0,0258 €/kg Aluminum: 0,0658 €/kg
Calculation	480 g * 0,00258 ct/g = 1,2384 cent 0,6 * 0,00658 ct/g = 0,0039 cent Total: 1,242 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Steel: 0,1581 €/kg
Calculation	44 g * 0,01581 cent/g= 0,69564 cent



January 2024:

Fee indicator:	Steel: 0,1985 €/kg
Calculation	44 g * 0,01985 cent/g= 0,873 cent

vi. Wooden Box

July 2023:

Fee indicator:	Wood: 0,0564 €/kg
Calculation	800 g * 0,00564 cent/g = 4,512 cent



Fee indicator:	Wood: 0,0996 €/kg
Calculation	800 g * 0,00996 cent/g = 7,968 cent

XIV. Romania

Main PRO: ECO-ROM

Source: https://ecoromambalaje.ro/informatii-publice/tarife/

Currency exchange:

July 2023: 1 Lei → 0,201 €
January 2024: 1 Lei → 0,2 €

i. Transparent PET Bottle

July 2023:

Fee indicator:	PET: 740 lei/t → 148,74 €/t
Calculation	42 g * 0,014874 ct/g = 0,625 cent



January 2024:

Fee indicator:	PET: 770 lei/t → 154 €/t
Calculation	42 g * 0,0154 ct/g = 0,647 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 725 lei/t → 145,725 €/t
Calculation	16 g * 0,0145725 ct/g = 0,233 cent



January 2024:

Fee indicator:	Aluminum: 785 lei/t → 157 €/t
Calculation	16 g * 0,0157 ct/g = 0,251 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Carton: 395 lei/t → 79,395 €/t
Calculation	222 g * 0,0079395 ct/g = 1,763 cent



Fee indicator:	Carton: 415 lei/t → 83 €/t
Calculation	222 g * 0,0083 ct/g = 1,843 cent

July 2023:

Fee indicator:	Glass: 490 lei/t → 98,49 €/t Aluminum: 725 lei/t →145,725 €/t
Calculation	480 g * 0,009849 ct/g = 4,728 cent
	0,6 g * 0,0145725 ct/g = 0,008 cent
	Total: 4,736 cent



TRANSPARENT GLASS WATER BOTTLE 75 cl 480 gr aluminium cap 0,60 g

January 2024:

Fee indicator:	Glass: 520 lei/t → 104 €/t Aluminum: 785 lei/t →157 €/t
Calculation	480 g * 0,0104 ct/g = 4,992 cent
	0,6 g * 0,0157 ct/g = 0,00942 cent
	Total: 5,001 cent



TRANSPARENT GLASS WATER BOTTLE 75 ct 480 gr aluminium cap 0,60 g

v. Canned Tomatoes

July 2023:

Fee indicator:	Otel: 400 lei/t → 80,4 €/t
Calculation	44 g * 0,00804 cent/g= 0,354 cent



CANNED TOMATOES (STEEL)

January 2024:

Fee indicator:	Otel: 420 lei/t → 84 €/t
Calculation	44 g * 0,0084 cent/g= 0,37 cent

vi. Wooden Box

July 2023:

Fee indicator:	Lemn: 300 lei/t → 60,3 €/t
Calculation	800 g * 0,00603 cent/g = 4,824 cent



Fee indicator:	Lemn: 330 lei/t → 66 €/t
Calculation	800 g * 0,0066 cent/g = 5,280 cent

XV. Slovenia

Main PRO: Slopak

Source: https://www.slopak.si/cache/docu-

ments/63562b2f4386f6e11afa5424/Slopak embalaznina cenik2023.pdf and inter-

nal information from EXPRA.

Note: Some values remained unchanged.

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastika PET: 220 €/t
Calculation	42 g * 0,022 ct/g = 0,924 cent



January 2024:

Fee indicator:	Plastika PET: 234 €/t
Calculation	42 g * 0,0234 ct/g = 0,983 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Metal Aluminum: 220 €/t
Calculation	16 g * 0,022 ct/g = 0,352 cent



January 2024:

Fee indicator:	Metal Aluminum: 234 €/t
Calculation	16 g * 0,0234 ct/g = 0,374 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Papir: 8 €/t
Calculation	222 g * 0,0008 ct/g = 0,178 cent



Fee indicator:	Papir: 7 €/t
Calculation	222 g * 0,0007 ct/g = 0,155 cent

July 2023:

Fee indicator:	Glass: 10 €/t
	Metal Aluminum: 220 €/t
Calculation	480 g * 0,001 ct/g = 0,48 cent
	0,6 g * 0,022 ct/g = 0,0132 cent
	Total: 0,493 cent



January 2024:

Fee indicator:	Glass: 6 €/t
	Metal Aluminum: 34 €/t
Calculation	480 g * 0,006 ct/g = 0,288 cent
	0,6 g * 0,0234 ct/g = 0,01404 cent
	Total: 0,302 cent

v. Canned Tomatoes

July 2023 + January 2024:

Fee indicator:	Kovine jeklo: 279 €/t
Calculation	44 g * 0,0279 cent/g= 1,228 cent



vi. Wooden Box

July 2023 + January 2024:

Fee indicator:	Les: 35 €/t
Calculation	800 g * 0,0035 cent/g = 2,8 cent



XVI. Spain

Main PRO: Ecoembes

Source: https://www.ecoembes.com/en/companies/packaging-declaration/green-

dot-fees

Note: Spain introduced ecomodulation for some materials.

i. Transparent PET Bottle

July 2023:

Fee indicator:	PET Packaging: 0,423 €/kg PET rigid: 0,396 €/kg
Calculation	40 g * 0,0423 ct/g = 1,692 cent 2 g * 0,0396 ct/g = 0,0792 cent Total: 1,7712 cent



January 2024:

Fee indicator:	PET Packaging: 0,6€/kg
	PET rigid: 0,576 €/kg
	Ecomodulation/Discounted Fee (1 attribute, colour): -0,57 %
Calculation	(40 g * 0,06 ct/g + 2 g * 0,0576 ct/g)*(1-0,0057) = 2,501 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Beverage cans: 0,048 €/kg
Calculation	16 g * 0,0048 ct/g = 0,0768 cent



January 2024:

Fee indicator:	Beverage cans: 0,062 €/kg
Calculation	16 g * 0,0062 ct/g = 0,099 cent

iii. Cardboard Box

Fee indicator:	Paper and cardboard: 0,088 €/kg
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Calculation	222 g * 0,0088 ct/g = 1,9536 cent
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January 2024:

Fee indicator:	Paper and cardboard: 0,135 €/kg
Calculation	222 g * 0,0135 ct/g = 2,997 cent

iv. Transparent Glass Water Bottle

July 2023:

Fee indicator:	Glass (weight): 0,03045 €/kg Glass (unit): 0,00432 € / unit Other aluminum: 0,034 €/kg
Calculation	480 g * 0,003045 ct/g + 0,432 ct = 1,8936 cent 0,6 g * 0,0034 ct/g = 0,00204 cent Total: 1,89564 cent



January 2024:

Fee indicator:	Glass (weight): 0,03167 €/kg Glass (unit): 0,00449 € / unit Other aluminum: 0,048 €/kg
Calculation	480 g * 0,003167 ct/g + 0,449 ct = 1,9692 cent 0,6 g * 0,0048 ct/g = 0,00288 cent Total: 1,972 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Other steel packaging: 0,133 €/kg
Calculation	44 g * 0,0133 cent/g= 0,5852 cent



January 2024:

Fee indicator:	Other steel packaging: 0,185 €/kg
Calculation	44 g * 0,0185 cent/g= 0,814 cent

vi. Wooden Box

July 2023 + January 2024:

Fee indicator:	Wood and cork: 0,007 €/kg
Calculation	800 g * 0,0007 cent/g = 0,56 cent



XVII. Sweden

Main PRO: 2024: NPA, 2023: FTI

Source: https://npa.se/en/producer-responsibility/packaging-fees and

https://fti.se/en/company/packaging-fees

Currency exchange:

July 2023: 1 SEK → 0,086 €
January 2024: 1 SEK → 0,089 €

Note: A new PRO (NPA) has taken over the responsibilities of FTI. Therefore, fee indicators may change significantly.

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastic (low): 5,52 SEK/kg → 0,47472 €/kg
Calculation	42 g * 0,047472 ct/g = 1,994 cent



January 2024:

Fee indicator:	Plastic (compatible with material recycling): 7,6 SEK/kg → 0,6764 €/kg
Calculation	42 g * 0,06764 ct/g = 2,841 cent

ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 6 SEK/kg → 0,516 €/kg
Calculation	16 g * 0,0516 ct/g = 0,826 cent



July 2023:

Fee indicator:	Aluminum: 6 SEK/kg → 0,534 €/kg
Calculation	16 g * 0,0534 ct/g = 0,854 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Paper (low): 2,24 SEK/kg → 0,19264 €/kg
Calculation	222 g * 0,019264 ct/g = 4,277 cent



Fee indicator:	Paper (compatible with material recycling): 3,9 SEK/kg → 0,3471 €/kg
Calculation	222 g * 0,03471 ct/g = 7,706 cent

iv. Transparent Glass Water Bottle

July 2023:

Fee indicator:	Glass: 0,83 SEK/kg → 0,07138 €/kg Aluminum: 6 SEK/kg → 0,516 €/kg
Calculation	480 g * 0,007138 ct/g = 3,42624 cent 0,6 g * 0,0516 ct/g = 0,0396 cent Total: 3,457 cent



January 2024:

Fee indicator:	Glass: 2 SEK/kg → 0,178 €/kg
	Aluminum: 6 SEK/kg → 0,534 €/kg
Calculation	480 g * 0,0178 ct/g = 8,544 cent
	0,6 g * 0,0534 ct/g = 0,032 cent
	Total: 8,576 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Steel plate: 4,20 SEK/kg → 0,3612 €/kg
Calculation	44 g * 0,03612 cent/g= 1,589 cent



Fee indicator:	Steel plate: 11,4 SEK/kg → 1,0146 €/kg
Calculation	44 g * 0,10146 cent/g= 4,464 cent



vi. Wooden Box

July 2023:

Fee indicator:	Not available
Calculation	Not available

WOODEN BOX 30 x 50 cm 800 g

Fee indicator:	Wood packaging – in systems for reuse: 0,05 SEK/kg → 0,00445 €/kg
Calculation	800 g * 0,000445 ct/g = 0,356 cent

XVIII. UK

Main PRO: VALPAK

Source: https://www.letsrecycle.com/prices/prns/prn-prices-2023/ and https://www.letsrecycle.com/prices/prns/prn-prices-2023/ and https://www.packagingnews.co.uk/news/environment/prn-pricewatch/prn-pricewatch/prn-pricewatch-week-ending-12-january-2024-15-01-2024">https://www.packagingnews.co.uk/news/environment/prn-pricewatch/prn-pricewatch/prn-pricewatch/prn-pricewatch-week-ending-12-january-2024-15-01-2024">https://www.packagingnews.co.uk/news/environment/prn-pricewatch/prn-pricewatch/prn-pricewatch-week-ending-12-january-2024-15-01-2024

Currency exchange:

• July 2023: 1 Pound → 1,16 €

January 2024: 1 Pound → 1,17 €

• Note: PRN prices are derived from a different website, starting 2024.

i. Transparent PET Bottle

July 2023:

Fee indicator:	Plastic: 315 £/t → 365,40 €/t
Calculation	42 g * 0,036540 ct/g = 1,5347 cent

January 2024:

Fee indicator:	Plastic: 164,53 £/t → 192,5 €/t
Calculation	42 g * 0,0192,5 ct/g = 0,8085 cent



ii. Aluminum Can

July 2023:

Fee indicator:	Aluminum: 290 £/t → 336,40 €/t
Calculation	16 g * 0,03364 ct/g = 0,5382 cent



January 2024:

Fee indicator:	Aluminum: 4,92 £/t → 5,76 €/t
Calculation	16 g * 0,000576 ct/g = 0,0092 cent

iii. Cardboard Box

July 2023:

Fee indicator:	Paper: 25 £/t → 29 €/t
Calculation	222 g * 0,0029 ct/g = 0,6438 cent



Fee indicator:	Paper: 4,98 £/t → 5,83 €/t
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Calculation	222 g * 0,000583 ct/g = 0,1294 cent
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July 2023:

Fee indicator:	Glass (remelt): 130 £/t → 150,8 €/t Aluminum: 290 £/t → 336,40 €/t
Calculation	480 g * 0,01508 ct/g + 0,6 g * 0,03364 ct/g = 7,2586 cent



January 2024:

Fee indicator:	Glass (remelt): 119,94£/t → 140,33 €/t Aluminum: 4,92 £/t → 5,76 €/t
Calculation	480 g * 0,014033 ct/g +0,6 g * 0,000576 ct/g = 6,7362 cent

v. Canned Tomatoes

July 2023:

Fee indicator:	Steel: 41,5 £/t → 48,14€/t
Calculation	44 g * 0,004814 cent/g= 0,2118 cent



January 2024:

Fee indicator:	Steel: 8,5 £/t → 9,95 €/t
Calculation	44 g * 0,000995 cent/g= 0,0438 cent

vi. Wooden Box

July 2023:

Fee indicator:	Wood: 23,5 £/t → 27,26 €/t
Calculation	800 g * 0,002726 cent/g = 2,1808 cent



Fee indicator:	Wood: 4,68 £/t → 5,48 €/t
Calculation	800 g * 0,000548 cent/g = 0,4380 cent