INSPIRING PACKAGING RECYCLING

Expra

Extended
Producer
Responsibility
Alliance

FOREWORDS

"The foundations of EXPRA rest on the belief of delivering quality waste management services to all citizens, which are embedded in a sustainable and global waste management vision.

FOREWORDS

Today, within Europe and globally, the linear "take-make-waste" patterns of production and consumption are considered to have had detrimental effects in relation to climate change, resource efficiency and environmental protection. The solution to these challenges is a circular economy where resources are used in an efficient and sustainable way. The Extended Producer Responsibility (EPR) is an essential part of this approach which the European Commissioni has recognised in the recently published Circular Economy Package.

The Extended Producer Responsibility Alliance (EXPRA) currently embraces 25 members from 23 countries. These include 17 EU Member States (Belgium, Bulgaria, Cyprus, Czech Republic, Estonia, Finland, Greece, Hungary, Italy, Luxembourg, Malta, the Netherlands, Romania, Slovakia, Slovenia, Spain and Sweden), Bosnia and Herzegovina, Canada, Israel, Macedonia, Norway and Turkey. Every year, our members, on behalf of the obliged industry, recover and recycle over 19 million tons of packaging, and provide over 200 million inhabitants with packaging collection, sorting and recycling infrastructure.

EXPRA's members, owned and run by the obliged companies, offer waste management solutions based on the EPR principle. In so doing, they operate on a not-for-profit model since their activities are driven by the industry's public service mission of acting in a socially-responsible manner. This allows EXPRA to deliver services of general economic interest that are both cost and resource-efficient.

William Vermeir
President of EXPRA

Joachim Quoden
Managing Director EXPRA

Over the past four years, EXPRA has become THE voice of EPR schemes in Europe. Our organisation has been recognised as a key stakeholder by the EU institutions, the obliged industry, business associations and NGOs alike. Since 2013, EXPRA has developed studies and position papers aimed at sharing expert knowledge with European audiences, including policy-makers, in the field of both EPR and packaging waste management.

This brochure explains EXPRA's principles and values, its structure and activities. It also provides key facts and figures relating to members' activities as well as EPR best practice.

We would like to thank everyone involved in the production of this publication, which, we hope, you will find of interest.

EXPRA BOARD OF DIRECTORS

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The Board of EXPRA is made up of 8 representatives of the members and is responsible for the overall strategic direction of EXPRA and overseeing its operations to ensure they fulfill the obligations of the Mission of EXPRA:

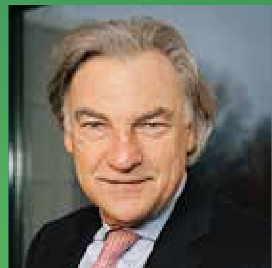
‘To be the umbrella organisation of not-for-profit producer responsibility organisations dealing with used, mainly household, packaging which is owned by the obliged industry. It aims to act as the authoritative voice and common policy platform representing the interests of its member organizations, and to run a network for the exchange of best practices within its members. Finally, it is the promoter of the EPR golden rules and works on the implementation of these rules into European and national legislation.’

The members of the Board are elected for a 2 year period and are led by a President and supported by the work of the Managing Director, who is also member of the Board. The Board receives updates from each of the work stream committees on a regular basis to maintain full oversight of the developments relating to the environments the members operate in.

PRESENTATION OF THE BOARD OF EXPRA

William Vermeir
Fost Plus

Joachim Quoden
Managing Director EXPRA



Cees de Mol van Otterloo
Nedvang

Oscar Martin
EcoEmbes

Zbynek Kozel
EKO-KOM

Bogdan Ureche
Eco-Rom Amblaje

Valter Facciotto
CONAI

Mario Schembri
Greenpak

Jaana Røine
Grønt Punkt Norge

BEST PRACTICES FOR PACKAGING EPR

> Below you will find an outline for how EPR organisations can achieve the best environmental and economic results.

The of Extended Producer Responsibility (EPR) is based on the principle that so-called 'obliged companies' take responsibility for the end-of-life management of the products they put on the market. For (household) packaging, EPR ensures that the entire packaging chain is optimized and that packaging is developed in a more sustainable manner.

To achieve the best results - both economically and environmentally – the EPR organisation should be owned by the obliged companies and run on a not-for-profit basis. The table below outlines what EXPRA considers as ten key principles for EPR.

BEST PRACTICES FOR PACKAGING EPR

1. The essence of EPR is the producer's responsibility for a product throughout its life cycle

2. PROs should be owned, run and steered by the obliged companies

3. PROs should benot-for-profit / profit-not-for-distribution

4. Collectors, sorters or recyclers of waste should not be active as not be active as PROs but deliver good services

5. There should be a strong EPR legal framework enforced by public authorities

6. Successful EPR must be based on a partnership between public authorities and PROs

7. There should be a level playing field for the provision of EPR services in a given territory

8. Obliged companies should receive equal treatment and fees should be publicly available

9. The industry-owned PROs are pursuing a public service mission

10. PROs should support obligedcompanies to improve the environmentalperformance of their products and packaging

BEST PRACTICES FOR PACKAGING EPR

1. THE ESSENCE OF EXTENDED PRODUCER RESPONSIBILITY (EPR)

According to the Organisation for Economic Co-operation and Development (OECD), EPR is "an environmental policy approach in which a producer's responsibility for a product is extended to the postconsumer stage of a product's life cycle".

It means that companies who put products on the market are obliged to collect and recycle these products and their packaging once they have reached their end-of-life stage. In this sense, it can be seen as a practical way of implementing the 'producer pays principle'.

In order to ensure that the products and their packaging are appropriately dealt with once they become waste, the obliged companies set up an EPR organisation to finance, organise, and co-ordinate the collection and recycling of the waste, using the services of licensed waste management companies.

The obliged companies receive a mandate from the authorities to shift their individual responsibility to the EPR organisation, which then becomes responsible and organizes the practical implementation.

2. THE EPR ORGANISATION SHOULD BE RUN AND CONTROLLED BY THE OBLIGED COMPANIES

The EPR organisation should be founded, run, financed and controlled by the obliged companies themselves. It is the best guarantee to ensure the lowest cost to society and that the scheme will be both sustainable and compliant with environmental and legal objectives.

When obliged companies financing the EPR organisation are sitting in the boards and committees of this organisation they have the control about the expenses for all operations of the EPR organisation and will keep them in their own interest to the necessary minimum.

Moreover, they can agree to dedicate funding to necessary long term projects like education campaigns to increase the long term performance of the system which would not be run in case of multiple systems competing just on price.

To achieve this, the obliged companies should not only pay a contribution to the EPR organisation, but they should also be actively represented in the EPR organisation.

BEST PRACTICES FOR PACKAGING EPR

3. NOT-FOR-PROFIT ORGANISATION

The EPR organisation should be a not-for-profit or profit-not-for-distribution body. There are several reasons why this is the preferred structure:

• It ensures non-discrimination among all of the obliged companies. A distribution of profit to the founding members/shareholders would constitute discrimination against non-shareholders.

• It also ensures that small and medium size participants receive full and equal service and that the EPR organisation does not just focus on big clients.

• It ensure that every obliged company has a right to join the system and is not been refused.

• It ensures that the interests of the consumers/inhabitants are served and that general interest objectives such as education, prevention, and communication will be pursued. This is especially important in the case of household packaging. Any for-profit company will make all possible efforts to avoid these costs which are - on a short term scale - not necessary to fulfill the minimum targets of the respective legislation.

4. WASTE MANAGEMENT COMPANIES AND/OR INVESTORS CANNOT BE EPR ORGANISATIONS AND VICE VERSA

The natural inclination of investors and waste management companies in an open market is to maximise profit and grow market share - a method that strives for the highest price per tonne of collected and recycled material. Moreover, investors and waste management companies have an interest in increasing the amount of packaging put on the market. This, of course, is contrary to the legal objectives of the waste hierarchy and thereby creates a conflict with serving the public interest.

The focus of the EPR organisation on the other hand is to fulfil the obliged company's obligations in the most efficient and effective way possible. In other words, at the lowest possible cost for the obliged companies and society in general. The EPR organisation should work in close collaboration with the local authorities and negotiate and tender in an open market for collection, sorting, and recycling services.

The legal framework should be set up in such a way that the role of waste management companies is focused on and restricted to the supply of the highest quality services. On the one hand, waste management companies should not interfere in the execution of the EPR. On the other, the EPR organisation should not enter into the collection, sorting, and recycling process itself. Both parties have a distinct and separate role to play in the fulfilment of the EPR - preferably based on a close partnership.

BEST PRACTICES FOR PACKAGING EPR

5. STRONG GOVERNMENTAL SUPPORT AND MONITORING

Public authorities have a key role to play in the enforcement of the EPR.

The national legislator should not only create an effective and efficient legal framework for the implementation of the EPR, it should also dedicate the necessary resources to fulfill its objectives. In this respect, special and exclusive rights can be granted to a single PROs. In anycase the national legislator should set out clear and highcriteria for the accreditation of PROs..

In their auditing role, public authorities should enforce this legal framework so that it ensures a qualitative implementation of the EPR, i.e. by using meaningful enforcement procedures to close loopholes and trace free riders. The public authorities should also develop a sound supporting policy. A compulsory Pay-As-You-Throw (PAYT) system on residual household waste can for example work as an incentive for the inhabitants to sort their household packaging waste. They should also refrain from establishing any counter-productive regulations or measures such as packaging taxes and deposit schemes which could impede the execution of the EPR.

6. ROLE OF MUNICIPALITIES/LOCAL AUTHORITIES

A close partnership between the local authorities and the PROs., based on mutual trust, is acondition sine qua non for the success and theenvironmental sustainability of the EPR.

Municipalities have several roles to play. Many of these roles depend upon the product/waste flow itself.

For example, when the flow concerns household packaging for high-volume, fast moving consumer goods, municipalities play an important role in the set-up and management of door-to-door collections and/or bring or collection point centers.

In this respect, local authorities and the EPR organisation have to agree on the most appropriate collection system, taking into account both local particularities and conformity with national and European requirements.

The local authorities and the PROs. shouldalso actively cooperate in local public communicationand awareness programmes, data gathering and monitoring, the control of the waste management operators, and the tendering for collection services.

BEST PRACTICES FOR PACKAGING EPR

7. SINGLE OR MULTIPLE PROs?

Having a single PRO responsible for anational territory - organising the collection and recyclingof a product category for all obliged companies withinnational boundaries - has many advantages.

A single PRO ensures that:

• The government can execute effective andefficient control.

• Obliged companies are treated in anon-discriminatory manner.

• An efficient functioning of the market is created, enabling the lowest societal cost for collection, sorting and recycling.

• Effective national and local awareness and communication campaigns are run.

• Reliable data on the collection, sorting, and recycling of packaging waste can be obtained.

When multiple PROs are in simultaneousoperation, it should be noted that the principle ofcompetition regarding the collection of householdpackaging seldom functions ideally.

This is because those who receive the service (inhabitants) do not choose the PROs (which is selected by the obliged companies).

In countries with multiple PROs - in somecases up to 40 in the same country - it has beenobserved that the organisations tend to cherry-pick. Thatis, they concentrate on the easiest material to collect andrecycle. Moreover, public authorities have greater difficulty monitoring the EPR organisations and the obliged companies and to avoid and penalize free riding.

Also, for each authorized PROs it becomesmore or less impossible to monitor the reports of thoseobliged companies participating in their system as theymight participate with remaining packaging in anotherEPR organisation. Therefore, usually the number of freeriders in countries with multiple PROs is higher than in a country with a single organisation.

Competition must however be assured at the level of the waste management activities, meaning on the level of collection, sorting and recycling, which represent over 80% of a successful PRO's total cost.

In any case, EPR should never be reduced to a shopping list of a large number of so-called PROs owned by waste operators and investors, making profitsat the expense of and to the detriment of the obligedcompanies, the environment, and society in general.

BEST PRACTICES FOR PACKAGING EPR

8. SUSTAINABLE FINANCING BASED ON JOINT FINANCIAL RESPONSIBILITY

The PRO must be set up in such a waythat all necessary finances are provided for an effective implementation in compliance with the legal framework. The financial contribution of the obliged companies should also be significant enough compared to the total cost. This gives them a strong position in discussions with local authorities regarding the most appropriate collection system to be employed.

The financial contribution of each obliged company must be calculated based upon the amount and type of packaging they put on the market and the real cost of operations - including awareness campaigns and potential revenues from the secondary raw material market. This ensures that all obliged companies receive equal treatment and share a fair allocation of the costs.

9. PUBLIC SERVICE MISSION AND PROCUREMENT PROCEDURES

The PRO should pursue - as part of itsstatutory purpose - a public service mission regardingthe collection, recovery, and recycling of household packaging waste. This means the organisation should serve a higher purpose - realising an environmentally and economically sustainable recycling society, which benefits the inhabitants of the country.

In this respect, the PRO should engage itselfin raising awareness about sorting and recycling amongthe inhabitants and provide support for educational programmes. It should also develop adequate programmes and actions for 'away from home' consumption of household packaging waste.

The PRO should implement transparentand efficient procurement procedures for contractingwaste treatment operators such as collectors, sorters,and recyclers. It should observe the principles of equalityand neutrality at all times.

BEST PRACTICES FOR PACKAGING EPR

10.

PACKAGING OPTIMISATION AND PREVENTION

The PRO should help the obligedcompanies to improve the environmental performanceof their products and their packaging by providing adviceand information on packaging optimisation.

Packaging optimisation efforts include improved design of the combined product/packaging, guaranteeing the greatest functionality and longest life, while using safe materials and a minimum of raw materials and resources.

Through its co-ordination efforts, the PRO functions as a 'bridge' between the obliged companies and the recyclers. This ensures that theobliged companies gain insight into the recyclability of their packaging and enables them to take the end-of-life treatment into account during the design of the packaging.

EXPRA WORKING GROUPS

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EXPRA has a Regulatory Affairs Committee, three specialised Working Groups and a Communication Platform.
These are presented below.

REGULATORY AFFAIRS COMMITTEE

Johan Goosens
Fost Plus
Committee Chair

The regulatory Affairs Committee (RAC) stimulates uniform, high standard yet practical legislation in the field of packaging and packaging waste in Europe. The RAC analyses all legislation in Europe that has an effect on packaging and packaging waste management, and draws and executes strategic plans on the positioning EXPRA should take.

The RAC also exchanges information with producers and importers of packed products.

Amanda Fuso Nerini
Conai

Alphan Eröztürk
CEVKO

Beáta Gönci
Öko Pannon

Eric Monami
Fost Plus

Eirik Oland
Green Dot Norway

Esther Colino Caro
Eco Embes

Evripidis Dimou
Herrco

Mario Schembri
Greenpak

Paul Christiaens
Nedvang

Sandra Anguiano
Ecovidrio

TECHNICAL WORKING GROUP

Rosa Trigo Fernandez
Eco Embes
(Chair)

The Technical working group (TWG) stimulates the optimal functioning of collection, sorting and recycling of packaging waste on an operational and cost basis. The TWG gathers, pools and shares information on the collection, sorting and recycling of packaging waste. The information is shared with both members of EXPRA (best practices) and other stakeholders (demonstrated expertise), particularly the producers and importers of packed products.

Amanda Fuso Nerini
Conai

Daniel Tabone
Greenpak

Filip Ivanovski
Pakomak

Laura Garcia Campo
Ecovidrio

Mik Van Gaever
Fost Plus

Petr Balner
EKO KOM

Rani Aidler
TAMIR

Roman Vandak
Envipak

Rumen Shurliev
ECOPACK

Vassilis Makridis
Herrco

ECO DESIGN WORKING GROUP

The Eco Design working group (EDWG) stimulates the activities of producers and importers of packed products towards the eco-design of their packaging. The EDWG gathers, pools and exchanges information on the activities regarding packaging prevention. The information is shared with both members of EXPRA (best practices) and other stakeholders (demonstrated expertise), particularly with producers and importers of packed products. The Eco Design working group looks to communicate information to stakeholders on eco-design innovations and examples of packaging prevention best practices.

Amanda Fuso Nerini
CONAI
WG Chair

Jorge Serrano Pacheco
Ecoembes

Beata Gönci
Öko Pannon

Eirik Oland
Green Dot Norway

Karen van der Stadt
Nedvang/Kennis

Philippe Gendebien
Fost Plus

DATA, REPORTING AND BENCHMARKING WORKING GROUP

Paul Christiaens
Nedvang
(Chair)

The Data and Reporting Working Group (DRWG) aims to support the development of a level playing field in data, information and statistics on packaging and packaging waste. The DRWG gathers, pools, and analyses information about performance, operations and costs of extended producer responsibility for packaging. The information is shared with both members of EXPRA (best practices) and other stakeholders (demonstrated expertise), particularly producers and importers of packed products.

Alphan ERÖZTÜRK
CEVKO

Daniel Moradiellos Zapico
Eco Embes

Nadia Puttemans
Fost Plus

Kobi Dar
TAMIR

Marie Dembski
Valorlux

Petr Šikýř
EKO KOM

Sjur Kvifte Nesheim
Green Dot

Tassos Arvanitis
Herrco

EPR IMPLEMENTATION WORKING GROUP

The EPR Implementation Working Group gathers, pools and shares information on best practices in running of a non for profit EPR scheme, especially but of course not only in a competitive environment. The EPR Implementation WG also exchanges information with both members of EXPRA (best practices) and other EU and National stakeholders (demonstrated expertise).

Alphan Erozturk
CEVKO
(Chair)

Esther Colino Caro
Eco Embes

Hana Novakova
Envipak

Iko Brdaroski
PAKOMAK

Kobi Dar
TMIR

Mihail Mitev
ECOPACK

Srečko Bukovec
Slopak

Steve Claus
Fost Plus

COMMUNICATION PLATFORM

The communication platform supports the mission of EXPRA by showing the organization's and its members' commitment to sound packaging waste management. The CN gathers and exchanges information on communication regarding the collection of packaging waste. The information is shared with both members of EXPRA (best practices) and other stakeholders (demonstrated expertise).


Adriaan Lowet
Fost Plus


Beáta Gönci
Öko Pannon


Bijou Boom
Nedvang


Dilek Özcanli
CEVKO


Lorita Constantinescu
Eco Rom


Luca Brivio
CONAI


Luckas Grolmus
Eco Embes


Mario Schembri
Greenpak


Sandy TROMMER
Valorlux

KEY FACTS ABOUT EXPRA MEMBERS

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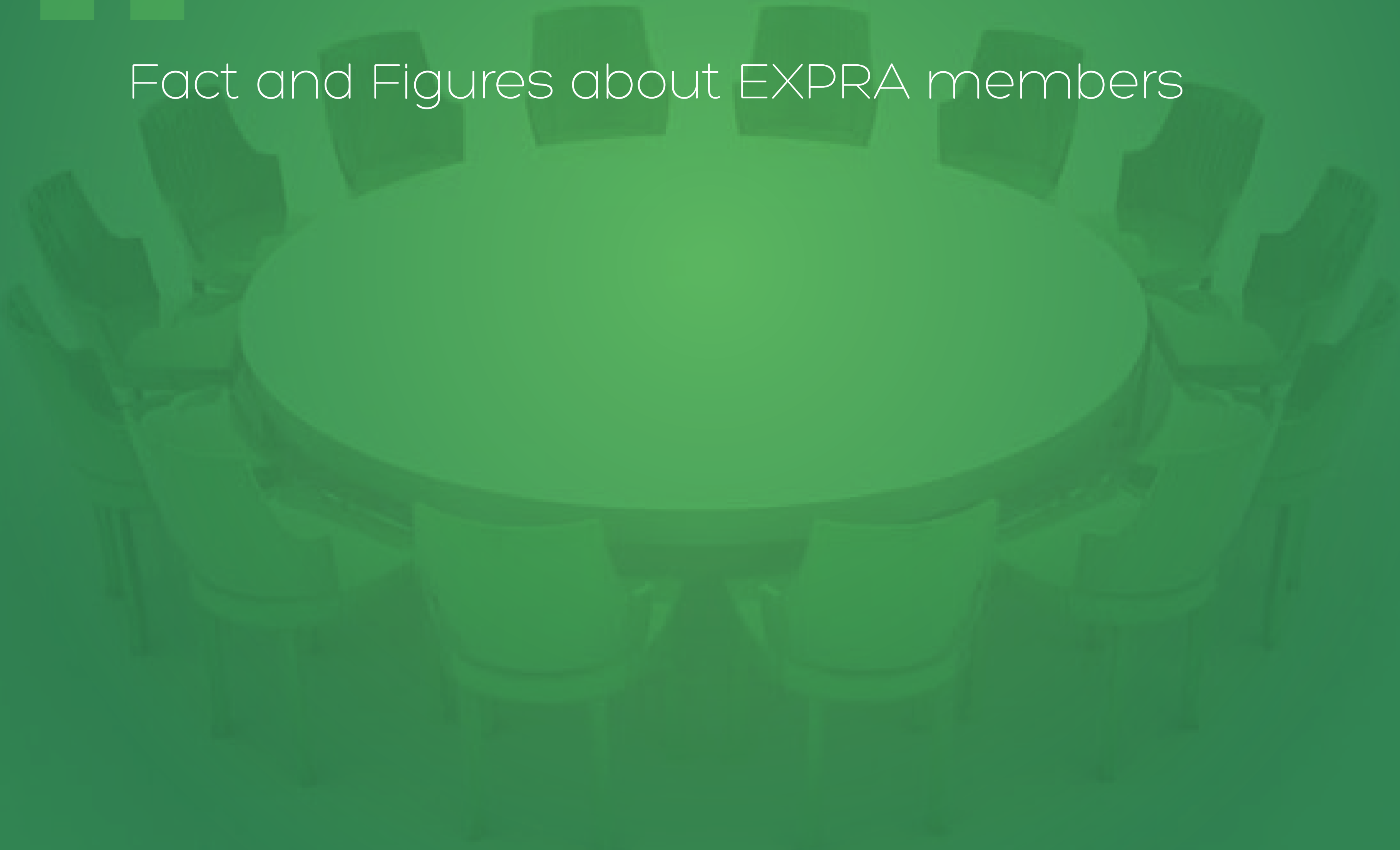
Fact and Figures about EXPRA members



EXPRA MEMBERS

BELGIUM

Fostplus

asbl Fost Plus vzw
Avenue des Olympiades 2
BE-1140 Brussel
T: +32 2 775 03 50
E: fostplus@fostplus.be
www.fostplus.be

COUNTRY	BELGIUM
Name of the system	Fost Plus
Founded	1994
Scope of business	Household packaging
Number of authorized Household systems	1
Financial share of producer responsibility	full costs
Operational responsibility for collection	Local Authorities (usually via call for tender)
Operational responsibility for sorting	
Operational responsibility for marketing	Fost Plus
Number contributing companies	5054
Income from obliged companies	61,03 million €
Coverage of the country (territory)	100 %
Number of inhabitants	11,2
- with access to infrastructure	11,2
Costs per included inhabitant	5,45 €
Cost average per recovered ton	32,3 €

BELGIUM

TOTAL AMOUNT OF PACKAGING PUT ON THE MARKET	n/a
(thereof household packaging)	851,3 Kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	92 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	705,7 4 kt = 89,7%
Glass	335,1 kt = 109,5 %
Paper	174, 3 kt = 99, 6%
Plastics	79,9 kt = 38,3 %
Composites (including PMD residue from the blue bags)	39,9 kt = 96%
Tinplate	76,2 kt = 102,8 %
Aluminum	Included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	682, 4 kt = 86,8%
Glass	335,1 kt = 109,5 %
Paper	174,3 kt = 99,6 %
Plastics *mechanical recycling	79,9 kt = 38,3 %
Composites	16,8 kt = 91 %
Tinplate	76,2 kt = 102,8%
Aluminum	Included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	2,9%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	

COLLECTION	
Glass	Collected via banks* *separated by color
Paper	Collected together with newspapers *mostly via curbside collection, but also collection stations
Plastics	Mostly by curbside collection with transparent bags *(Blue PMD bag) and also in some cases by container stations
Beverage Cartons	
Metal packaging	Mostly by curbside collection with transparent bags *(Blue PMD bag) and also in some cases by container stations. From MSW, recycling from bottom ashes from incineration plants (all MSW is incinerated).

EXPRA MEMBERS

BELGIUM

VAL-I-PAC

VAL-I-PAC
Avenue Reine Astrid 59 bte 11
1780 Wemmel
T: +32 (0)2 456 83 10
F: +32 (0)2 456 83 20
E: info@valipac.be
www.valipac.be

COUNTRY	BELGIUM
Name of the system	VAL-I-PAC
Founded	1997
Scope of business	Promote & coordinate the recycling of industrial packaging waste
Number of authorized Industrial systems	1
Financial share of producer responsibility	mixed
Operational responsibility for collection	Private waste collectors
Operational responsibility for sorting	Unpackers
Operational responsibility for marketing	VAL-I-PAC
Number contributing companies	7.200
Income from obliged companies	13.5 mio €
Coverage of the country (territory)	100 %
Number of inhabitants	-
- with access to infrastructure	irrelevant
Costs per included inhabitant	n/a
Cost average per recovered ton	19 € / ton

BELGIUM

TOTAL AMOUNT OF PACKAGING PUT ON THE MARKET	800.000 tons
put on the market by the 7.200 members	700.000 tons

HH PACKAGING PARTICIPATING IN THE SYSTEM	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	655 000 t = 93 %
Paper	405 000 t = 100 %
Plastics	64 000 t = 70 %
Metals	30 000 t = 80 %
Wood	156 000 t = 95 %
Other	500 t = 6 %

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	600 000 t = 85 %
Paper	398 000 t = 99 %
Plastics *mechanical recycling	52 000 t = 56 %
Metals	30 000 t = 80 %
Wood	120 000 t = 73 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	n/a
Paper	n/a
Plastics	n/a
Beverage cartons	n/a
Metal packaging	n/a

EXPRA MEMBERS

BULGARIA

ECOPACK Bulgaria Jsc
60 Tzarigradsko Shousse Blvd.
1750 Sofia, Bulgaria
T: +359 2 401 91 00, +359 2 975 19 25
F: +359 2 401 91 01, +359 2 975 19 26
E: office@ecopack.bg
www.ecopack.bg

COUNTRY	BULGARIA
Name of the system	ECOPACK *
Founded	2004
Scope of business	All Packaging
Number of authorized Household systems	4
Financial share of producer responsibility	Full costs
Operational responsibility for collection	ECOPACK
Operational responsibility for sorting	ECOPACK
Operational responsibility for marketing	ECOPACK
Number contributing companies	1.230
Income from obliged companies	5,88 million €
Coverage of the country (territory)	38%
Number of inhabitants	7,2 million
- with access to ECOPACK infrastructure	2,77 million
Costs per included inhabitant	2,3 €
Cost average per recovered ton	73 €

EXPRA MEMBERS

BULGARIA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	330 kt
(by ECOPACK clients)	143 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	9 kt

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	87,14 kt = 60%
Glass	20,5 kt = 60%
Paper	44,7 kt = 60 %
Plastics	13 kt = 22,5 %
Composites	Included in paper
Tinplate	4 kt = 50 %
Aluminum	Included in tinplate
Wood	5 kt = 15%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	0,01 Kt = 1%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	87,14 kt = 61 %



COLLECTION	
Glass	Green containers, no color separation
Paper	Blue containers
Plastics	Yellow container
Beverage cartons	Included in blue containers
Metal packaging	Included in yellow containers

EXPRA MEMBERS BOSNIA & HERZEGOVINA

ekopak

First licensed packaging recovery organisation in Bosnia and Herzegovina.

EKOPAK d.o.o.
1Zmaja od Bosne 7-7a, Objekat 03/6 Importanne center
71000 Sarajevo, Bosnia and Herzegovina
T: 033 921 934
F: 033 921 935
E: info@ekopak.ba
www.ekopak.ba

COUNTRY	BOSNIA & HERZEGOVINA
Name of the system	Ekopak
Founded	2011 (Operational from May 2012)
Scope of business	PWM
Number of authorized Household systems	2
Financial share of producer responsibility	Full costs
Operational responsibility for collection	Local Authorities
Operational responsibility for sorting	Local Authorities
Operational responsibility for marketing	Ekopak
Number contributing companies	510
Income from obliged companies	0,7 million €
Coverage of the country (territory)	51 %
Number of inhabitants	3,8 million
- with access to Ekopak infrastructure	50 k
Costs per included inhabitant	3,74 €
Cost average per recovered ton	24,42 €

EXPRA MEMBERS BOSNIA & HERZEGOVINA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	280 kt
(thereof household packaging)	49 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	9,95 kt
Glass	0,53 kt = 5 %
Paper	8,09 kt = 20 %
Plastics	1,04 kt = 8 %
Tinplate	0,12 kt = 4 %
Aluminum	Included in tinplate
Wood	0,17 kt = 5 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	0,22 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	10,16 kt = 20 %

COLLECTION	
Glass	Green containers, no color separation
Paper	Blue containers
Plastics	Yellow container
Beverage cartons	Included in yellow containers
Metal packaging	Included in yellow containers

EXPRA MEMBERS

CANADA

COUNTRY	CANADA
Name of the system	Éco Entreprises Québec*
Founded	2003
Scope of business	All Packaging
Number of authorized Household systems	1
Financial share of producer responsibility	Total net costs
Operational responsibility for collection	Municipalities
Operational responsibility for sorting	Municipalities
Operational responsibility for marketing	Sorting centers
Number contributing companies	3000
Income from obliged companies	73.357.725 €
Coverage of the country (territory)	99%
Number of inhabitants	8,1 million
- with access to infrastructure	~ 8,1 million
Costs per included inhabitant	9,04 €
Cost average per recovered ton (for containers and packaging only)	197 €

Éco Entreprises Québec
1600, René-Lévesque Blvd. West Suite 600
Montréal (Québec) H3H 1P9
Phone : 514 987-1491
E: service@ecoentreprises.qc.ca
www.ecoentreprises.qc.ca

CANADA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	683 kt
(thereof household packaging)	595 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	683 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	377 kt = 55 %
Glass*	119 kt = 77 %
Paper packaging	154 kt = 61%
Plastics*	66 kt = 34%
Composites	17 kt = 49%
Tinplate	included in aluminium
Aluminum*	5 kt = 29%
Steel containers	15 kt = 51%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	377 kt = 55 %
Glass	n/a
Paper	n/a
Plastics	n/a
Composites	n/a
Tinplate	n/a
Aluminum*	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Curbside recycling collection
Paper	Curbside recycling collection* *together with newspapers
Plastics	Curbside recycling collection
Beverage cartons	Included in paper
Metal packaging	Curbside recycling collection

*In Quebec, beer and soft drinks, either in glass, plastic or aluminum containers, are subject to a deposit system, thus excluded from curbside recycling compensation plan.

EXPRA MEMBERS

CYPRUS

Green Dot (Cyprus) Public Co Ltd
229 Tseriou Avenue, 2047 Strovolos, Nicosia
P.O.Box 25463 1310 Nicosia Cyprus
T: +357 22 586020
F: +357 22 586001
E: admin@greendot.com.cy
www.greendot.com.cy

COUNTRY	CYPRUS
Name of the system	Green Dot Cyprus
Founded	2004
Scope of business	All Packaging
Number of authorized Household systems	1
Financial share of producer responsibility	80% - 100% of total costs
Operational responsibility for collection	Green Dot Cyprus
Operational responsibility for sorting	Green Dot Cyprus
Operational responsibility for marketing	Green Dot Cyprus
Number contributing companies	923
Income from obliged companies	3,9 million €
Coverage of the country (territory)	85%
Number of inhabitants	0,84 million
- with access to infrastructure	0,7 million
Costs per included inhabitant	8 €
Cost average per recovered ton	154 €

CYPRUS

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	103 kt
(thereof household packaging)	77 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	62 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	42 kt = 67%
Glass	5,7 kt = 37%
Paper	25 kt = 126%
Plastics	4,3 kt = 32%
Composites	-n/a
Tinplate	4 kt = 130%
Aluminum	0,2 kt = 10%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	39 kt = 63%
Glass	5.7 kt = 37%
Paper	25 kt = 126%
Plastics *mechanical recycling	4,3 kt = 32%
Composites	n/a
Tinplate	4 kt = 130%
Aluminum	0,3 kt = 10%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Iglu stations, 1 bin/600 cap
Paper	Brown bags door to door* *together with newspapers magazines & office paper
Plastics	Transparent bag door to door
Beverage cartons	Transparent bag door to door
Metal packaging	Transparent bag door to door

EXPRA MEMBERS

CZECH REPUBLIC

EKO KOM

EKO-KOM, a.s.
Na Pankráci 1685/17140 21 Prague 4
Czech Republic
T: +420 729 848 111
F: +420 729 848 119
E: info@ekokom.cz
www.ekokom.cz

COUNTRY	Czech Republic
Name of the system	EKO KOM
Founded	1997
Scope of business	All Packaging
Number of authorized Household systems	1
Financial share of producer responsibility	Full costs for packaging waste (standardized costs)
Operational responsibility for collection	Local authorities
Operational responsibility for sorting	Local authorities
Operational responsibility for marketing	Local authorities
Number contributing companies	20.277
Income from obliged companies	59,18 million €
Coverage of the country (territory)	99%
Number of inhabitants	10,53 million
- with access to infrastructure	10,48 million
Costs per included inhabitant	5,61 €
Cost average per recovered ton	85,7 €

CZECH REPUBLIC

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	(est.) 2.980 kt (2014)
(thereof household packaging)	n/a

HH PACKAGING PARTICIPATING IN THE SYSTEM	1.067i kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	690 kt = 75%
Glass	129kt = 73%
Paper	330 kt = 89%
Plastics	135 kt = 67%
Composites	included in paper (BC) & plastics
Tinplate	29 kt = 61%
Aluminum	included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	690 kt = 75%
Glass	129 kt = 73%
Paper	317 kt = 87%
Plastics	135 kt = 67%
Composites	included in paper (BC) & plastics
Tinplate	29 kt = 61%
Aluminum	included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Container stations* *color separation
Paper	Collected together with newspapers* *container stations
Plastics	Container stations
Beverage Cartons	Container stations* included in paper
Metal packaging	Collected via recycling stations* *collection usually via recycling stations run by local authorities, partly collected via container stations

EXPRA MEMBERS

ESTONIA

E|T|O

Eesti Taaskasutusorganisatsioon MTÜ
Mustamäe tee 24 10621 Tallinn Estonia
T: +372 640 32 40
F: + 372 640 32 48
E: eto@eto.ee
www.eto.ee

COUNTRY	ESTONIA
Name of the system	Eesti Taaskasutusorganisatsioon MTÜ (ETO)MTÜ (ETO)
Founded	2004
Scope of business	All Packaging
Number of authorized Household systems	3
Financial share of producer responsibility	32%
Operational responsibility for collection	Waste management companies via tenders
Operational responsibility for sorting	
Operational responsibility for marketing	ETO system
Number contributing companies	1000
Income from obliged companies	3 569 606 €
Coverage of the country (territory)	99%
Number of inhabitants	1 313 271
- with access to infrastructure	1 300 138
Costs per included inhabitant	2,75€
Cost average per recovered ton	148,73 €

ESTONIA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	40 163,5 t
(thereof household packaging)	60%

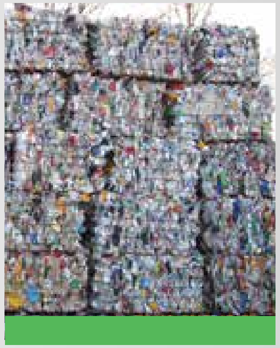
HH PACKAGING PARTICIPATING IN THE SYSTEM	99%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	24 949 t = 62,1%
Glass	6 031 t = 71,7%
Paper	8 732 t = 71,7%
Plastics	4 818 t = 55,6%
Composites	not collected separately
Tinplate	1 098 t = 61,1%
Aluminum	Included in tinplate
Wood	4 269 t = 46,8%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	20 250 t = 50,4%
Glass	6 031 t = 71,7%
Paper	8 732 t = 71,7%
Plastics* *mechanical recycling	2 474 t = 8,6%
Composites	not collected separately
Tinplate	1 098 t = 61,1%
Aluminum	Included in tinplate
Wood	1 915 t = 21%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

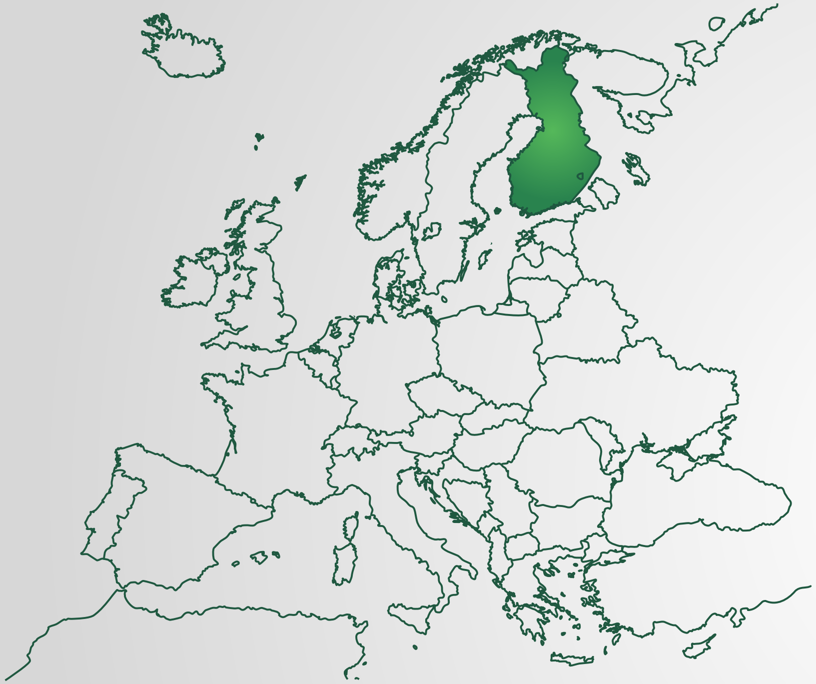
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a



COLLECTION	
Glass	Green containers
Paper	Blue containers
Plastics Bottles	Yellow container
Flasks, Beverage	Yellow container
Metal packaging	Yellow containers

EXPRA MEMBERS

FINLAND



RINKI

The Environmental Register of Packaging PYR Ltd
Mikonkatu 15 B
FI-00100 HELSINKI, Finland
T: +3589 616 230
F: +3589 6162 3100
E: pyr@pyr.fipyr@pyr.fiV
http://info.pyr.fi/aiheet/in-english/

COUNTRY	FINLAND
Name of the system	Finnish Packaging Recycling RINKI Ltd
Founded	1997
Scope of business	Consumer packaging collection
Number of authorized Household systems	1
Financial share of producer responsibility	100 %
Operational responsibility for collection	RINKI, local authorities, private waste management companies
Operational responsibility for sorting	Waste producers
Operational responsibility for marketing	PROs
Number contributing companies	4,200
Income from obliged companies	10 million € (2014)
Coverage of the country (territory)	100 % (excluding Aland)
Number of inhabitants	5,5 million
- with access to infrastructure	5,5 million
Costs per included inhabitant	2 €
Cost average per recovered ton	15 €

FINLAND

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	716,686 t
HH PACKAGING PARTICIPATING IN THE SYSTEM	not reported

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	667 706 t = 93 %
Glass	63 122 t = 77 %
Paper	292 399 t = 113 %
Plastics	63 751 t = 54 %
Composites	Included in paper
Tinplate	Included in metals
Aluminum	Included in metals
Metals	42 135 t = 82 %

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	415 436 t = 58 %
Glass	63 122 t = 77 %
Paper	252 399 t = 98 %
Plastics* *mechanical recycling	26 751 t = 23 %
Composites	Included in paper
Metals	42 135 t = 82 %
Tinplate	Included in metals
Aluminum	Included in metals

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Curbside collection & recycling stations
Paper	Curbside collection & recycling stations
Plastics Bottles	Curbside collection & recycling stations
Flasks, Beverage	Curbside collection & recycling stations

EXPRA MEMBERS

GREECE

COUNTRY	GREECE
Name of the system	Herrco
Founded	1991
Scope of business	All Packaging
Number of authorized Household systems	3
Financial share of producer responsibility	Additional costs
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Herrco
Operational responsibility for marketing	Herrco
Number contributing companies	1,817
Income from obliged companies	20,6 million €
Coverage of the country (territory)	87%
Number of inhabitants	10,8 million
- with access to infrastructure	9,4 million
Costs per included inhabitant	1,91 €
Cost average per recovered ton	53,12 €

HELLENIC RECOVERY RECYCLING CORPORATION

HERRCO (Hellenic Recovery & Recycling Corporation)
Himaras 5
Maroussi 15125,Greece
T: 00 30 210 8010962/ 963
F: 00 30 210 8012272
E: info@herrco.gr
www.herrco.gr

GREECE

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	706 kt
HH PACKAGING PARTICIPATING IN THE SYSTEM	50%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	389 kt
Glass	20 kt
Paper	251 kt
Plastics	59 kt
Composites	Included in paper
Tinplate	44 kt
Aluminum	7 kt
Wood	8 kt

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	389 kt
Glass	20 kt
Paper	251 kt
Plastics	59 kt
Composites	Included in paper
Tinplate	44 kt
Aluminum	7 kt
Wood	8 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a



COLLECTION	
Glass	Co-mingled collection - blue container* *separate bin
Paper	Co-mingled collection - blue container
Plastics	Co-mingled collection - blue container
Beverage cartons	Co-mingled collection - blue container
Metal packaging	Co-mingled collection - blue container

EXPRA MEMBERS

HUNGARY

COUNTRY	HUNGARY
Name of the system	Öko Pannon
Founded	1996
Scope of business	Lobbying for EPR solution from 2012 (formerly all packaging)
Number of authorized Household systems	0 (State owned & run organization)
Financial share of producer responsibility	Packaging Tax
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Local Authority
Operational responsibility for marketing	National Waste Management Authority
Number contributing companies	23 000
Income from obliged companies	113 million € Packaging Tax
Coverage of the country (territory)	90%
Number of inhabitants	10 million
- with access to infrastructure	9 million
Costs per included inhabitant	12,26 €
Cost average per recovered ton	not published

ÖKO-Pannon Nonprofit Kft.
1146 Budapest
Hungária krt. 179-187,Hungary
T: +36-1-383-9305
F: +36-1-383-9306
E: info@okopannon.hu
www.okopannon.hu

HUNGARY

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	1 064 kt
(thereof household packaging)	585,2 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	585,2 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	633,9 kt = 59,45 %
Glass	32, kt = 32,29 %
Paper	349 kt = 96,09 %
Plastics	156,3 kt = 56,4 %
Composites	8,5 kt = 33,4 %
Metal	59 kt = 83,7 %

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	487,8 kt = 48,2%
Glass	36,4 kt = 34,2 %
Paper	323,4 kt = 88,86 %
Plastics* *mechanical recycling	88,86 kt = 31,86 %
Composites	4,6 kt=18,41%
Metal	59 kt = 83,7 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	not published
Paper	not published
Plastic	not published
Beverage Cartons	not published
Metal packaging	not published

EXPRA MEMBERS

ISRAEL

COUNTRY	ISRAEL
Name of the system	TAMIR
Founded	2011 (operation started in 2012)
Scope of business	All packaging except beverage containers under deposit
Number of authorized Household systems	2
Financial share of producer responsibility	100%
Operational responsibility for collection	TAMIR
Operational responsibility for sorting	TAMIR
Operational responsibility for marketing	TAMIR
Number contributing companies	860
Income from obliged companies	11 million €
Coverage of the country (territory)	165 local municipalities out of 255. 5.5M inhabitants out of 7.7M.
Number of inhabitants	7.7 million
- with access to infrastructure	n/a
Costs per included inhabitant	2 €
Cost average per recovered ton	46 €

TAMIR
Packaging Recovery Organization of Israel

TAMIR - Packaging Recovery Organization of
Israel Ltd (cc).Shenkar 18 st.
Herzliya. P.O.B 2078, Israel.
T: 972-9-8800046
F: 972-9-8866053
E: info@tmir.org.il
www.tmir.org.il

EXPRA MEMBERS

ISRAEL

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	est. 755K
(by TAMIR clients)	350K

HH PACKAGING PARTICIPATING IN THE SYSTEM	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	240 kt = 68 %
Glass	1 kt = 6.5 %
Paper	190 kt = 124 %
Plastics	36 kt = 33 %
Wood	3.4kt = 50%
Tinplate	10 kt = 41 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Container stations no color separation
Paper	Container stations for paper cardboard* *collected together with newspapers
Plastics	Container stations via orange bins DTD collection
Beverage cartons	Orange bins DTD collection
Metal packaging	Orange bins DTD collection

EXPRA MEMBERS

ITALY

CONAI, Consorzio Nazionale Imballaggi
Via Pompeo Litta, 5
20122 Milano, ITALY
T: +39 (0) 2 54044 1
F: +39 (0) 2 54122648
E: international@conai.org
www.conai.org

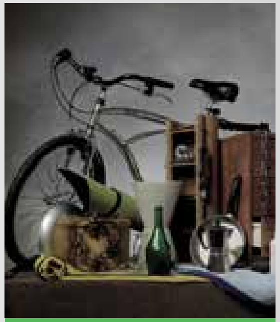
COUNTRY	ITALY
Name of the system	CONAI
Founded	1997
Scope of business	All Packaging
Number of authorized Household systems	1
Financial share of producer responsibility	Additional fee
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Local Authority
Operational responsibility for marketing	CONAI
Number contributing companies	1.069.227
Income from obliged companies	377 million €
Coverage of the country (territory)	71% - 96%
Number of inhabitants	60.8 million
- with access to infrastructure	57.3 million
Costs per included inhabitant	6.6 €
Cost average per recovered ton	41.0 €

* Data for 2014

ITALY

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	11.851 kt
(thereof household packaging)	5.551 kt
HH PACKAGING PARTICIPATING IN THE SYSTEM	100%
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	9.203 kt = 77.7%
Glass	1.615 kt = 70.3%
Paper	3.859 kt = 88.2%
Plastics	1.717 kt = 82.5%
Composites	Included in paper
Tinplate	336 kt = 74.63%
Aluminum	50.2 kt = 79.2%
Wood	1.626 kt = 63.1%
TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	7.808 kt = 6.9 %
Glass	1.615 kt = 70.3%
Paper	3.482 kt = 79.5%
Plastics	790 kt = 37.9%
Composites	Included in paper
Tinplate	336 kt = 74.3%
Aluminum	47.1 kt = 74.3%
Wood	1539 kt= 59.7%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a



COLLECTION	
Glass	Stationary - mobile waste container
Paper	Stationary - mobile waste container* *together with newspapers
Plastics	Stationary - mobile waste container
Beverage cartons	Included in paper or plastic
Metal packaging	Included in plastic

EXPRA MEMBERS

LUXEMBOURG

VALORLUX
Ensemble, en route vers un monde durable

VALORLUX A.S.B.L.
9, rue Nicolas Brosius, L-3372 Leudelange
B.P. 26, L-3205 Leudelange , Luxemburg / Luxembourg
T: + 352/37 00 06-1
F: + 352/37 11 37
E: message@valorlux.lu
www.valorlux.lu

COUNTRY	Luxembourg
Name of the system	Valorlux
Founded	1995
Scope of business	Household packaging + commercial packaging from retailers
Number of authorized Household systems	1
Financial share of producer responsibility	Total costs for household packaging + financial support for commercial pack.
Operational responsibility for collection	PMC: VALOLUX; other packaging: local authorities
Operational responsibility for sorting	PMC: VALOLUX; other packaging: local authorities
Operational responsibility for marketing	PMC: VALOLUX; other packaging: local authorities
Number contributing companies	1.100
Income from obliged companies	4,9 million €
Coverage of the country (territory)	100%
Number of inhabitants	0,52 million
- with access to infrastructure	0,52 million
Costs per included inhabitant	9,4 €
Cost average per recovered ton	104 €

* Data for 2012

LUXEMBOURG

TOTAL AMOUNT OF PACKAGING PUT ON THE MARKET	n/a
(thereof household packaging)	67 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	63 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	47 kt = 73%
Glass	21 kt = 78%
Paper	15 kt = 82%
Plastics	5 kt = 43%
Composites	1 kt = 97% (beverage cartons only)
Tinplate	2 kt = 79%
Aluminum	1 kt = 71%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	46 kt = 72%
Glass	21 kt = 78%
Paper	15 kt = 82%
Plastics	5 kt = 43%
Composites	1 kt = 97% (beverage cartons only)
Tinplate	2 kt = 79%
Aluminum	1 kt = 71%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a


COLLECTION	
Glass	Collected via iglu stations, curbside and recycling stations mixed colors
Paper/cardboard	Together with newspapers in bundle collection door to door,cardboard only collected in recycling stations
Plastics Bottles &Plastics Bottles & Beverage Cartons	Collection via blue bag door to door and recycling stations
Metal packaging	n/a
Other plastics	Collection usually via recycling stations run by local authorities

EXPRA MEMBERS

MACEDONIA

ПАКОМАК

Pakomak - Asset packaging and packaging waste
blv, Partizanski odredi, Porta Vlae blok 4,
1000 Skopje,
R. Macedonia
T: 389 2 20 44 567
E: info@pakomak.com.mk

COUNTRY	Macedonia
Name of the system	Pakomak
Founded	2010
Scope of business	All Packaging
Number of authorized Household systems	4
Financial share of producer responsibility	35%
Operational responsibility for collection	Pakomak
Operational responsibility for sorting	Public/private companies
Operational responsibility for marketing	Public/private companies
Number contributing companies	830
Income from obliged companies	0,8 million €
Coverage of the country (territory)	70%
Number of inhabitants	2.1 million
- with access to infrastructure	1.47 million
Costs per included inhabitant	0,5 €
Cost average per recovered ton	26 €

MACEDONIA

TOTAL AMOUNT OF PACKAGING PUT ON THE MARKET	100 kt total (Pakomak 42 kt)
(thereof household packaging)	100 kt

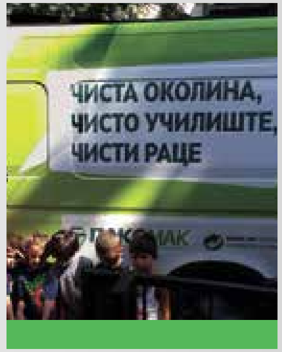
HH PACKAGING PARTICIPATING IN THE SYSTEM	42%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	11,5 kt
Glass	770 tons = 8,4 %
Paper	6.15 tons= 55,9 %
Plastics *mechanical recycling	4,015 tons = 36,5 %
Composites	33 tons = 0,3%44 kt
Tinplate	n/a
Aluminum	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	11,5 kt
Glass	770 tons = 8,4 %
Paper	6.15 tons= 55,9 %
Plastics *mechanical recycling	4,015 tons = 36,5 %
Composites	33 tons = 0,3%44 kt
Tinplate	n/a
Aluminum	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a



COLLECTION	
Glass	HoReCa
Paper	collected in containers* *blue in public areas
Plastics	collected in containers* *yellow in public places
Beverage Cartons	included in paper
Metal packaging	collected via container stations

EXPRA MEMBERS

MALTA

GreenPak Cooperative Society Ltd
St. John Street
Fgura FGR1447, Malta
T: (00356) 21 660233
F: (00356) 21 803434
E: info@greenpak.com.mt
www.greenpak.com.mt

COUNTRY	MALTA
Name of the system	GreenPak
Founded	2005
Scope of business	All Packaging
Number of authorized Household systems	2
Financial share of producer responsibility	Total costs
Operational responsibility for collection	GreenPak
Operational responsibility for sorting	GreenPak
Operational responsibility for marketing	GreenPak
Number contributing companies	1228
Income from obliged companies	1,65 million €
Coverage of the country (territory)	70%
Number of inhabitants	0,445 million
- with access to infrastructure	0,305 million
Costs per included inhabitant	6,62 €
Cost average per recovered ton	181 €

MALTA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	90 kt
(thereof household packaging)	67,5 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	13,18 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	11,12 kt = 62%
Glass	1,58 kt = 34%
Paper	5,08 kt = 71%
Plastics	2,55 kt = 69%
Composites	Included in paper
Tinplate & Aluminum	0,65 kt = 59%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	9,84 kt = 55%
Glass	1,58 kt = 34%
Paper	5,06 kt = 70%
Plastics *mechanical recycling	2,54 kt = 69%
Composites	Included in paper
Tinplate & Aluminum	0.66 kt = 58%

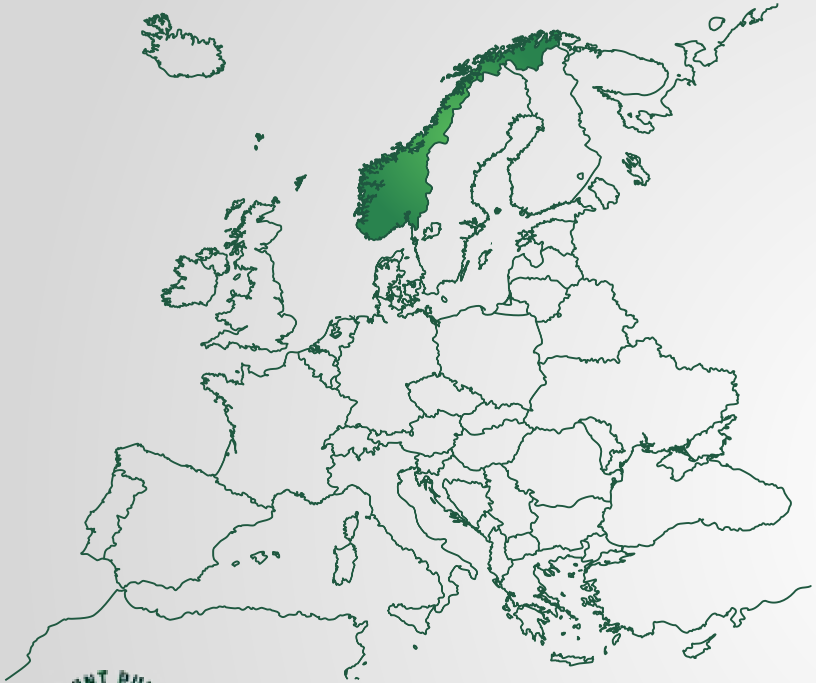
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a


COLLECTION	
Glass	Green containers
Paper	Container stations *together with newspapers
Plastic	Container stations
Beverage Cartons	Included in paper
Metal packaging	Container stations

EXPRA MEMBERS

NORWAY



Grønt Punkt Norge
Visiting address: Karenslyst alle 9 A
Postal address: Postbok 91Skøyen,
0212 Oslo, Norway
T: +47 22121500
E: post@grontpunkt.no
www.grontpunkt.no

COUNTRY	Norway
Name of the system	Green Dot Norway
Founded	1991 - 1997
Scope of business	All Packaging*
Number of authorized Household systems	1**
Financial share of producer responsibility	Additional costs for separate collection and sorting
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Green Dot Norway + material companies
Operational responsibility for marketing	
Number contributing companies	9.500
Income from obliged companies	31,5 million €
Coverage of the country (territory)	100 %
Number of inhabitants	5 million
- with access to infrastructure	5 million
Costs per included inhabitant	6,3 €
Cost average per recovered ton	62 €

*except beverage containers under deposit
**no authorization required, also two deposit systems - one for reusable glass and PET and one for recyclable PET and PE bottles and aluminum cans

NORWAY

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	542 kt
(thereof household packaging)	265 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	225 = 85%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	542 kt = 93,7 %
Glass	70 kt = 90 %
Paper	302 kt = 97 %
Plastics	157 kt = 92 %
Composites	included in paper & plastics
Tinplate	14 kt = 58 %
Aluminum	included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	520 kt = 69,5 %
Glass	70 kt = 90 %
Paper	302 kt = 81 %
Plastics	157 kt = 38,5 %
Composites	included in paper & plastics
Tinplate	14 kt = 58 %
Aluminum	included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Collected via bring stations* *together with metals (more kerbside collection on the way)
Paper	Collected together with newspapers at home
Plastics	Collected viakerbside collection and bring stations
Beverage Cartons	Included in paper
Metal packaging	Collected via bring stations together with glass

EXPRA MEMBERS

ROMANIA

ECO-ROM AMBALAJE
51-55, 1 Mai Blvd.
Bucharest, 061629, Romania
T: +4021 413 08 44
F: +4021 413 08 57
E: contact@ecoromambalaje.ro
www.ecoromambalaje.ro

COUNTRY	Romania
Name of the system	Eco Rom Ambalaje
Founded	2003
Scope of business	All Packaging
Number of authorized Household systems	9
Financial share of producer responsibility	Additional costs
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Local Authority
Operational responsibility for marketing	Eco Rom Ambalaje
Number contributing companies	3,056
Income from obliged companies	9,81 million €
Coverage of the country (territory)	48 %
Number of inhabitants	20,1 million
- with access to infrastructure	9 million
Costs per included inhabitant	0,56 €
Cost average per recovered ton	33 €

Data for 2015

ROMANIA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	624 kt
(thereof household packaging)	no split on IC and HH

HH PACKAGING PARTICIPATING IN THE SYSTEM	56 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	387kt = 62 %
Glass	66 kt = 69 %
Paper	114 kt = 61 %
Plastics	129 kt = 94 %* *plastic+PET
Composites	Included in paper
Tinplate	14 kt = 73 %
Aluminum	3,2 kt = 23 %
Wood	61 kt = 50 %

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	376 kt = 60 %
Glass	66 kt = 69 %
Paper	114 kt = 61 %
Plastics* *mechanical recycling	124 kt = 90,3 %* *plastic+PET
Composites	Included in paper
Tinplate	14kt = 72,6 %
Aluminum	3,2 kt = 23,5 %
Wood	55 kt = 45 %

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Green container stations
Paper	Blue container stations
Plastics	Yellow container stations
Beverage Cartons	Blue container stations
Metal packaging	Yellow container stations

EXPRA MEMBERS

SLOVAKIA

ENVI-PAK, a. s.
Galvaniho 7/B
821 04 Bratislava 2, Slovensko
T: +421 2 333 227 10
F: +421 2 335 200 10
E: www.envipak.sk
envipak@envipak.sk

COUNTRY	SLOVAKIA
Name of the system	ENVI-PAK
Founded	2003
Scope of business	All Packaging
Number of authorized Household systems	1
Financial share of producer responsibility	Additional costs
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Local Authority
Operational responsibility for marketing	ENVI-PAK
Number contributing companies	1 239
Income from obliged companies	2,4 million €
Coverage of the country (territory)	48,76%
Number of inhabitants	5,4 million
- with access to infrastructure	5,4 million
Costs per included inhabitant	0,85 €
Cost average per recovered ton	16,424 €

SLOVAKIA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	463 613 t
(thereof household packaging)	n/a

HH PACKAGING PARTICIPATING IN THE SYSTEM	95 882 t

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	130 244,570 = 68,50%
Glass	28 586,829 = 72,68%
Paper	57 665,336 = 76,53%
Plastics	29 107,305 = 62,66%
Composites	896,082 = 57,77%
Metal	6 357,360 = 58,65%
Wood	7 531,681 = 45,72%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	124 440,670 = 65,45%
Glass	28 586,829 = 72,68%
Paper	57 281,506 = 76,03%
Plastics* *mechanical recycling	25 678,524 = 55,28%
Composites	888,520 = 57,28%
Metal	6 357,360 = 58,65%
Wood	5 647,931 = 34,29%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Bring system
Paper	Bring and kerbside collection *together with newspapers
Plastic	Bring and kerbside collection
Beverage Cartons	Bring and kerbside collection* *mostly together with plastic
Metal packaging	Bring and kerbside collection* *mostly together with plastic

EXPRA MEMBERS

SLOVENIA

Slopak d.o.o.
Vodovodna cesta 100
1000 Ljubljana, Slovenia
T: +386 1 5600 250
F: +386 1 5600 260
E: www.slopak.si
slopak@slopak.si

COUNTRY	SLOVENIA
Name of the system	SLOPAK d.o.o.
Founded	2002
Scope of business	All Packaging
Number of authorized Household systems	6
Financial share of producer responsibility	Shared
Operational responsibility for collection	Local authorities
Operational responsibility for sorting	PRO's
Operational responsibility for marketing	PRO's
Number contributing companies	819
Income from obliged companies	2.7 Million €
Coverage of the country (territory)	100%
Number of inhabitants	2.061.952
- with access to infrastructure	2.061.952
Costs per included inhabitant	-
Cost average per recovered ton	-

SLOVENIA

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	46,341 t
(thereof household packaging)	no split on IC and HH

HH PACKAGING PARTICIPATING IN THE SYSTEM	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	36,062 t = 92%
Glass	7,923 t = 100%
Paper	8,569 t = 100%
Plastics	17,497 t = 100%
Composites	Included in plastics
Tinplate	Included in metals
Aluminum	Included in metals

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	28,789 t = 73%
Glass	7,923 t = 100%
Paper	8,142 Tt = 95%
Plastics* *mechanical recycling	9,735 t = 56%
Composites	Included in plastics
Metals	2,073 t = 100%
Tinplate	Included in metals
Aluminum	Included in metals

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Container stations
Paper	Container stations
Plastics	Container stations
Beverage Cartons	Together with plastic & metal pack.
Metal packaging	Together with plastic pack. & bevarage

EXPRA MEMBERS

SPAIN

Ecoembalajes España
Paseo de la Castellana, 83-85 (Planta 11)
28046 Madrid, Spain
T: 00 34 / 91 567 24 03
F: 00 34 / 91 598 06 24
E: atencionalcliente@ecoembes.com
www.ecoembes.com

B

COUNTRY	SPAIN
Name of the system	Ecoembes
Founded	1996
Scope of business	Household Packaging excluding glass; commercial & industrial packaging only if collected by Municipalties
Number of authorized Household systems	1 for plastic/paper/metals + 1 for glass
Financial share of producer responsibility	Additional costs for separate collection and sorting
Operational responsibility for collection	Local Authority
Operational responsibility for sorting	Local Authority
Operational responsibility for marketing	Eco Embes (via call for tender)
Number contributing companies	11947
Income from obliged companies	435,5 million €
Coverage of the country (territory)	99,97%
Number of inhabitants	47,117 million
- with access to infrastructure	46,738 (paper/cardboard) 46,573 (lightweight packaging)
Costs per included inhabitant	9,24 €
Cost average per recovered ton	324 €

SPAIN

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	6695,84 kt
(thereof household packaging Ecoembes)	1707,265 kt

HH PACKAGING PARTICIPATING IN THE SYSTEM	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	1344,0 Kt = 78,7%
Paper	587,9 Kt=85,0%
Plastics	472,7 Kt=70,6%
Composites	Included in paper
Tinplate	276,5 Kt= 83,6%
Aluminum	Included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	1258,6 Kt= 73,7%
Paper	564,7 Kt=81,7%
Plastics* *mechanical recycling	410,8 Kt=61,4%
Composites	Included in paper
Tinplate	276,5 Kt= 83,6%
Aluminum	Included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Included in Ecovidrio section
Paper	Collected via container stations* *together with newspapers
Plastic	Container stations
Beverage Cartons	Collected together with metals and plastic
Metal packaging	Collected via container stations

EXPRA MEMBERS

SPAIN

COUNTRY	SPAIN
Name of the system	Ecovidrio
Founded	1997
Scope of business	Glass packaging
Number of authorized Household systems	1 for plastic/paper/metals (Ecoembes) + 1 for glass (Ecovidrio)
Financial share of producer responsibility	Additional costs
Operational responsibility for collection	Local Entities
Operational responsibility for sorting	n/a
Operational responsibility for marketing	Ecovidrio
Number contributing companies	2,655
Income from obliged companies	41,675 million €
Coverage of the country (territory)	99,3% (7,976 Local Entities)
Number of inhabitants	47 million
- with access to infrastructure	46,8 million
Costs per included inhabitant	1,41 €
Cost average per recovered ton	96,9 €/ton (glass only)

ecovidrio

Ecovidrio
General Oraa, 3 - 2. 28006 Madrid (Spain)
T: 00 34 91 411 83 44
E: info@ecovidrio.es
www.ecovidrio.es

EXPRA MEMBERS

SPAIN

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	n/a
(thereof household packaging)	n/a

HH PACKAGING PARTICIPATING IN THE SYSTEM	Horeca represents 48% of collection

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	694.325 tons (+1%)

Additional tons recycled (via other sources monitored by Ecovidrio, collaboration plans to collect and recycle glass from non-municipal channels): 162.045 tons (19%)

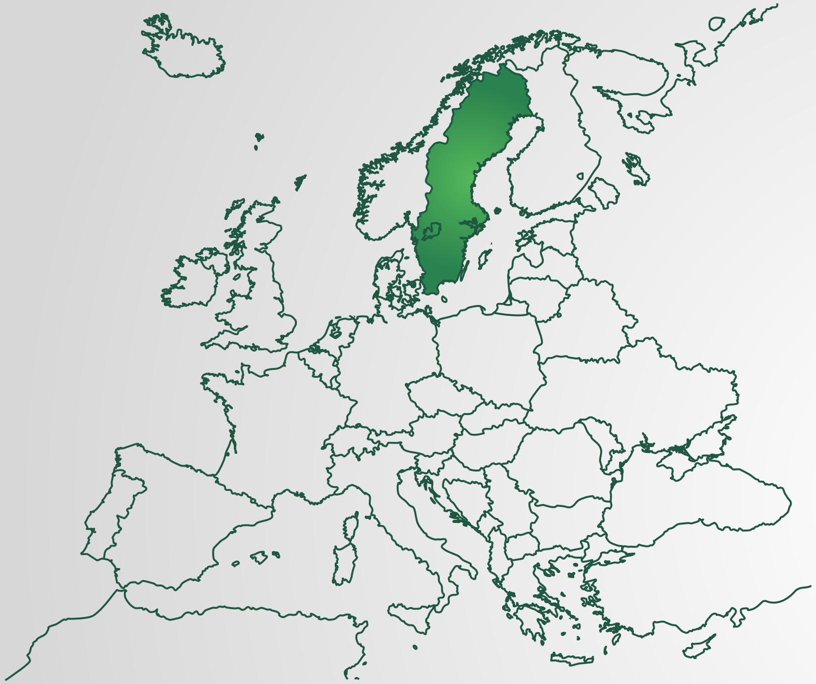
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Curbside containers* *no colour separation
Paper	n/a
Plastics	n/a
Beverage Cartons	n/a
Metal packaging	n/a

EXPRA MEMBERS

SWEDEN



FÖRPACKNINGS & TIDNINGS INSAMLINGEN

Förpacknings- och Tidningsinsamlingen (FTI)
Box 17033, S-104 62 Stockholm Sweden
(visiting address: Magnus Ladulåsgatan 63A, Stockholm)
T: (+46) 8 566 144 00
F: (+46) 8 566 144 44
E: mailto:repainfo@ftiab.se
www.ftiab.se/english

COUNTRY	SWEDEN
Name of the system	FTI
Founded	1994
Scope of business	All Packaging
Number of authorized Household systems	2
Financial share of producer responsibility	100%
Operational responsibility for collection	FTI
Operational responsibility for sorting	FTI
Operational responsibility for marketing	FTI
Number contributing companies	Local authorities
Income from obliged companies	9,000
Coverage of the country (territory)	100%
Number of inhabitants	10 million €
- with access to infrastructure	10 million €
Costs per included inhabitant	6, 60 €
Cost average per recovered ton	n/a

SWEDEN

TOTAL AMOUNT OF PACKAGING PUT ON THE MARKET	938 kt
(thereof household packaging)	not reported

(excluding alu cans and PET bottles that are covered by deposit scheme)

HH PACKAGING PARTICIPATING IN THE SYSTEM	not reported

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	not reported
Glass	n/a
Paper	n/a
Plastics	n/a
Composites	n/a
Tinplate & Aluminum	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	683 kt = 73%
Glass	180 kt = 93%
Pape cartons	403 kt = 78%* *paper packaing including used beverage
Plastics* *mechanical recycling	72 kt = 38%* *plastic packaging excluding PET bottles
Composites	n/a
Tinplate	28 kt = 73%* *metal packaging excluding alu cans
Aluminum	included in tinplate

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Collected from households via bring stations
Paper	
Plastics	
Metal	

EXPRA MEMBERS THE NETHERLANDS

nedvang

Nedvang
Schorpioenstraat 290, 4th floor
3067 KW Rotterdam, The Netherlands
T: +31 10 420 61 61
E: info@nedvang.nl
www.nedvang.nl

COUNTRY	The Netherlands
Name of the system	Afvalfonds Verpakkingen & Nedvang
Founded	2012 & 2006
Scope of business	All Packaging
Number of authorized Household systems	1
Financial share of producer responsibility	Total costs
Operational responsibility for collection	Municipalities
Operational responsibility for sorting	Municipalities
Operational responsibility for marketing	Municipalities
Number contributing companies	2,800
Income from obliged companies	155 million €
Coverage of the country (territory)	100%
Number of inhabitants	17.0 million
- with access to infrastructure	17,0 million
Costs per included inhabitant	9,11€
Cost average per recovered ton	49 €

Data for 2012

THE NETHERLANDS

TOTAL AMOUNT OF PACKAGING PUT ON THE MARKET	n/a
HH PACKAGING PARTICIPATING IN THE SYSTEM	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	2,053 kt = 74%
Glass	414 kt = 79%
Paper	955 kt = 82%
Plastics	269 kt = 57%
Composites	Included in paper
Metals	208 kt = 94%
Aluminum	Included in metals
Wood	208 kt = 54%

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	1,909 kt = 69%
Glass	414 kt = 79%
Paper	955 kt = 82%
Plastics	236 kt = 50%
Composites	Included in paper
Metals	208 kt = 94%
Aluminum	Included in metals
Wood	97 kt = 25%

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a
TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Container stations
Paper	Collected together* *with newspapers
Plastics	Collection with transparent bags
Beverage Cartons	Separate, with plastics & metals or with paper
Metal packaging	Collection via MSW

EXPRA MEMBERS

TURKEY

ÇEVKO Foundation
Cenap Sahabettin Sk. No: 94 Kosuyolu
Kadiköy - Istanbul / Türkiye
T: +90 (216) 428 78 90 - 94
F: +90 (216) 428 78 95
E: cevko@cevko.org.tr
www.cevko.org.tr

COUNTRY	Turkey
Name of the system	CEVKO
Founded	1991
Scope of business	All Packaging
Number of authorized Household systems	3
Financial share of producer responsibility	Shared
Operational responsibility for collection	Local authorities
Operational responsibility for sorting	Local authorities
Operational responsibility for marketing	CEVKO
Number contributing companies	1.759
Income from obliged companies	8,5 million €
Coverage of the country (territory)	31%
Number of inhabitants	75 million
- with access to infrastructure	21.4 million
Costs per included inhabitant	0,65 €
Cost average per recovered ton	22 €

TURKEY

TOTAL AMOUNT OF PACK AGING PUT ON THE MARKET	1.000.000 t (est.)
(thereof household packaging)	n/a

HH PACKAGING PARTICIPATING IN THE SYSTEM	980.000 t

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY	545,6 kt
Glass	98,5 kt
Paper	223 kt
Plastics	17,497 t
Composites	25,3 kt
Tinplate	25,5 kt
Aluminum	11 kt

TOTAL AMOUNT AND PERCENTAGE OF RECYCLING	545,6 kt
Glass	98,5 kt
Paper	223 kt
Plastics	153 kt
Composites	25,3 kt
Tinplate	25,5 kt
Aluminum	11 kt

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY WITH INCINERATION	n/a

TOTAL AMOUNT AND PERCENTAGE OF RECOVERY (RECYCLING + RECOVERY WITH INCINERATION)	n/a

COLLECTION	
Glass	Container stations* *no color separation, bin
Paper	Container stations
Plastics	Container stations
Beverage Cartons	Container stations
Metal packaging	Container stations

Expra
Avenue Olympiades 2, 1140 Brussels (Evere) / BELGIUM
Tel: +49 171 201 70 55
Info@expra.eu
www.expra.eu

Expra

Extended
Producer
Responsibility
Alliance