

# RECO

REGIONAL COOPERATION IN WASTE MANAGEMENT



## "Barriers and incentives for development of waste - friendly products" - Packaging Waste treatment in Latvia



WOJEWÓDZKI FUNDUSZ  
OCHRONY ŚRODOWISKA  
I GOSPODARKI WODNEJ  
W GDAŃSKU

WMAL



Project part-financed by the European Union



## Separate collection of recycables

Under development.

The main producers responsibility princile organizers are:

- „Latvijas Zaļais punkts” JSC
- „Zaļā josta” Ltd
- “Latvijas Zaļais elektrons” JSC

Implementation - by waste management companies

- Regional waste management companies
- Other municipal and private municipal waste collection companies
- Hazardous and special waste collection companies



### Volume and type of the collected Used Packaging and the Recourse Recovery in 2005, listed accordingly to the Cabinet Regulation No 953

<i>Type of packaging</i>	<i>Used packaging</i>	<i>Managed packaging in Latvia</i>				<i>Used packaging exported to other countries</i>	
		<i>Recycling, t</i>	<i>Regeneration with energy recovery, t</i>	<i>Incineration with energy recovery, t</i>	<i>Recycling and regeneration total, t</i>	<i>Recycling, t</i>	<i>Regeneration, t</i>
Glass	58565,21	21557,79		0	21557,79	5785,81	00
Plastic	29305,18	10350,94	540,56	0	10891,50	1817,32	21,31
Paper and carbon	53944,74	9346,65	2307,34	0	11653,98	30162,70	186,65
Metal	11143,60	2873,86		0	2873,86	2448,57	0
Wood	54683,41	14490,30	23836,97	0	38327,27	9909,22	8551,06
Others	5477,03	61,64	52,40	0	114,04	291,57	0
<b>Total</b>	<b>213119,16</b>	<b>58681,17</b>	<b>26737,26</b>	<b>0</b>	<b>85418,44</b>	<b>50415,19</b>	<b>8759,02</b>

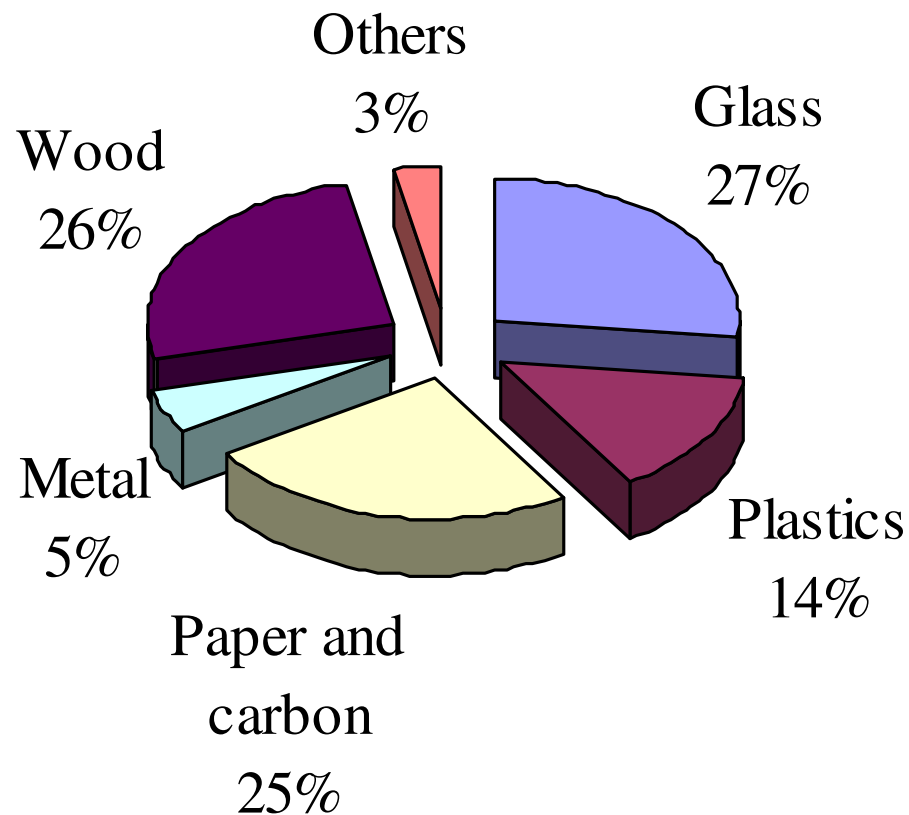


### Implementation of Packaging material regeneration rate in 2005

<i>Type of Packaging material</i>	<i>Defined regeneration rate in the Cabinet Regulation No 953, %</i>	<i>Implementation of the regeneration rate, %</i>	<i>Real implementation of the defined rates, %</i>
Paper and carbon	56	77,9	+21,9
Plastics	15	43,4	+28,4
Metal	23	47,8	+24,8
Glass	28	46,7	+18,7
<b>Total</b>	<b>42</b>	<b>57,1</b>	<b>+15,1</b>



### Division of Used packaging by materials





## „Latvijas Zaļais punkts” JSC



[www.zalais.lv](http://www.zalais.lv),

Member of "Packaging Recovery Organisation Europe s.p.r.l." (PRO Europe), has a licence to use the trademark „Green dot”.

Activities: implementation and coordination of management system for following wastes

- used packaging and throwaway crockeries and table things
- waste electric and electronic waste (WEEE)
- environmentally hazardous goods.
- Created 52 reception centres for WEEE.



## „Latvijas Zaļais punkts” JSC

Collected WEEE ~ 0,7 kg/capita.yr 2006 in Latvia.

EU requirement: to collect and treat 4 kg/capita.yr in 2009.

Current consumption of electric and electronic equipment ~ 11 kg/capita.yr.

1250 co-contractors,  
managed 144 000 t of packaging,  
recycled 78 000 t of packaging.

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## „Zaļā josta” Ltd



[www.zalajosta.lv](http://www.zalajosta.lv)

Organizing management of used packaging and environmentally hazardous waste management, implementing environment education activities.

Using ECO sign

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## „Latvijas Zaļais elektrons”



[www.lze.lv](http://www.lze.lv)

Implementation of producers responsibility principle and management of waste electric and electronic waste (WEEE).

Member of „WEEE FORUM” of EU.

Organized by several electronics related branch associations



## 1. Plastics recycling, PET

**„PET Baltija” JSC, [www.petbaltija.lv](http://www.petbaltija.lv)**

PET bottle recycling started in May 2004 and since the middle of 2005 the factory is working 24 hours, 7 days a week.

The factory's capacity is ~3500 t of bottles per year. 2500 t of PET bottles were processed in 2005 and 2006. Difference related with the insufficiency of staff. Will be increased to the 15000 t/yr at food grade quality (bottle – to - bottle).

**Producing:** Clear PET bottle flakes, Light Mix PET bottle flakes (Light blue/Green/Blue) and Brown/dark mixed colour PET bottle flakes



## 1. Plastics recycling, PET

**„PET Baltija” JSC,**

**Purchase prices for each specification:**

<b>Bale specification</b>	<b>Price for 1 ton of material delivered Riga (EUR)*</b>
1. Transparent PET bales	From 280
2. Light blue PET bottle bales	From 240
3. Green transparent PET bottle bales	From 240
4. Mix / brown colour PET bottle bales	From 135

\* Delivery address:

PET Baltija factory Meldru iela 3, Riga, LV-1015



## 2. Plastics recycling, PET

**„Partneris LV” Ltd., [www.innovation.lv/partneris](http://www.innovation.lv/partneris)**

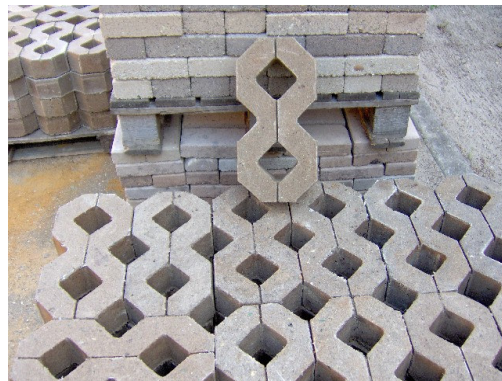
Utilise of the polymer waste using it for the production of building materials, particularly paving plates.

Material - composite polymer concrete, made from binding (cohesive) material is obtained by melting the unsorted polyethyleneterftalate (PET) and adding waste filler (inert substances like sand, gravel, building waste, crashed glass and similar materiāls).

Guarantee period: 3 years



## 2. Plastics recycling, PET, „Partneris LV” Ltd





## Plastics recycling, PE,

### **Polyethylen.**

#### **Bigger plants are:**

- „Nordic plast” Ltd, [www.nordicplast.lv](http://www.nordicplast.lv), in Olaine  
2200 t of LDPE processed in 2006,  
85 % from recycable PE films collecting in Latvia,  
but 15 % – importing.

Enlarging the production capacities, will accept the plastic cans and boxes, offering grinding service for hard plastics.

- „Ādažu polimēru industrija” Ltd, Telephone: +371-67997755



## Paper, cardboard

**We have insufficient processing capacities for paper in Latvia and insufficient amount of available glass.**

Paper and cardboard factories:

- „**Līgatnes papīrfabrika**”,

Telephone: +371-64153337

Processed 12000 t of used paper in 2006.

From used paper they producing packaging paper and drawing paper.



- „**V.L.T.**” Ltd, Telephone: +371-64222145.

Produciong eggs tays and boxes, from seconary paper and cardboard.

Capacity: 2500 t/in 2005, and 3400 t/in 2006 y.



## Glass

Glass is exported to the Estonia and Ukraina, because Latvia do not have factories with small capacities, but to use present capacities we do not have sufficient amount of used glass to provide continuous work of glass melting plant in Riga.

We have:

- „Griziņkalns” Ltd (Tel.: +371-67506566) glass factory in Riga and
- "Lettglas" Ltd in Livani town, Preili region.



## Tenders in waste management

- Financing source: EU Cohesive fund and EU Structural funds
- Supervision of funds – by The Ministry of Environment of Latvia
- Information on accepted environmental projects available:
  - [www.vidm.gov.lv](http://www.vidm.gov.lv)
  - [www.esfondi.lv](http://www.esfondi.lv)

Time table on tenders in Latvia available in web site:

**[www.iub.gov.lv](http://www.iub.gov.lv)**

(LT - [www.vpt.lt](http://www.vpt.lt) )

(EE - [www.rha.gov.ee](http://www.rha.gov.ee))



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