

Capital factsheet on separate collection

Note: This ‘Capital factsheet’ has been prepared within the EC study “**Assessment of separate collection schemes in the 28 capitals of the EU**”. The document represents the status-quo of the EU Member States capitals in May2015. The information included in this document has been elaborated for all 28 EU-capitals based on expert interviews with various stakeholders on capital level, e.g. capital administrations, waste management operators, associations etc. as well as further publically available reports, statistics and websites.

All information is cited in the factsheet and a complete list of information sources including the interviews held can be found at the end of this document.

Ville de Luxembourg	Luxembourg
<p>SUMMARY: In the capital of Luxembourg paper, glass and bio-waste are collected in door-to-door separate system. Plastic, metal and composite material is co-mingled collected door-to-door. The system is accompanied by bring-systems. The total amounts for recycling and composting of municipal waste was 37.7 % of total generation in 2012, more information on recycling and losses is not available. Households have to pay for the separate door-to-door collection of paper, glass and bio-waste whereas the co-mingled collection is free of charge (covered by EPR scheme).</p>	
1 Capital general data	
City population (inhabitants)	107 340 [5]
City area (km ²)	51.73 [6]
City density (persons/km ²)	2 075
City climate (relevant for bio-waste collection)	Temperate continental
2. Capital waste data	
Total (municipal) waste generation (t in indicated year)	71 488.23 t (2012) [4]
Total (municipal) waste generation (kg/cap)	712.11 kg/cap [4]
Total separate collection (kg/cap) & (% of generation)	310.43 & 43.59% [4] Only paper, glass, PMC and bio-waste: 19 862.2 t (185 kg/cap) and 27.8% of total generation
Percentage breakdown of total collection for separate collection by fraction	<ul style="list-style-type: none"> • 33 % paper and cardboard • 21 % bio-waste • 18 % glass • 1 % plastic • 2 % metal • 25 % other [4]
3. Description of overall separate collection systems operating in capital	
<p>In the city of Luxembourg the municipality is responsible for the separate collection. Namely the division “Service d’hygiène” is in charge of the collection of paper and cardboard, glass and bio-waste in separate bins and for the co-mingled collection of paper, metal and composite materials on behalf of the EPR scheme VALORLUX. In addition garden/green wastes are collected on request which do not belong in the bio-waste bin. [1]</p> <p>Furthermore, the municipality provides 62 bring points across the city for paper and cardboard, glass, textiles and batteries. Paper and cardboard, metal, plastic, composite material, glass, bulky waste, WEEE, hazardous waste and other waste streams</p>	

are collected free of charge at the civic amenity site. The municipality also provides a free of charge service for the collection of bulky wastes and WEEE for inhabitants but not for companies and businesses. [1] [12]

Paper and cardboard: weekly separate door-to-door collection (blue bin), bring points and civic amenity site

Glass: weekly separate door-to-door collection (green bin), bring points and civic amenity site

Plastic, metal and composite material (PMC): biweekly (every 14 days) separate door-to-door collection (blue bags from VALORLUX) and civic amenity site. The municipality is in charge of the collection of the blue bags on the behalf of VALORLUX [7].

Bio-waste: weekly separate door-to-door collection (brown bin) and additional collection of green/garden waste once monthly, civic amenity site (previously to 2012 green/garden waste was collected at bring points, these have been abolished in favour of door-to-door collection once a month)

Annual Running Costs: Annual running costs and setup costs non available at the moment – the “Service d’hygiène” is about to determine the calculation of the costs per collection [12]

Setup costs: Annual running costs and setup costs non available at the moment – the “Service d’hygiène” is about to determine the calculation of the costs per collection [12]

Coverage:

- 100 % of households with door-to-door separate collection [3]
- 100 % households with door-to-door co-mingled collection [3]

Every owner of a building can order a separate door-to-door collection, but there is no obligation. The coverage of “Service d’hygiène” is 100%. But still not every household is attached to the municipal separate collection system, so connection rate to system is not known [12]

4. Elements of the collection system

MUNICIPALITIES OR THEIR CONTRACTORS

 Door-to-door collection of source separated waste	
Fractions collected	Paper, glass and bio-waste [8]
Collection frequency	Paper: once a week [8]
	Glass: once a week [8]
	Bio-waste: weekly (free of charge) and additionally green/garden waste once monthly [1]
Coverage of collection	Paper: 100 % of households, businesses (but see comment above on coverage [12])
	Glass: 100% of households [3] (households, businesses, % of each)#
	Bio-waste: 100 % of households [9] [3]
Annual collected quantities (in 2012)	Paper and cardboard: 3 677 t & 34.3 kg/cap [4]
	Glass: 1 585 t & 14.8 kg/cap [4]
	Bio-waste: 1 507 (total)
	Kitchen waste: 970 t & 9 kg/cap Green garden waste: 537 t & 5 kg/cap [4]
Setup costs	Not available , see comment above on setup costs [12]
Running costs	Not available , see comment above on running costs [12]
Source of funding	Municipal service tax [12]
Cost to consumer (annual)	Paper: 72 €/household (120l) ; 144 €/household (240l) ; 278 €/household (660l); 464 €/household (1 100l)
	Glass: 65.5 €/household (120l); 130 €/household (240l)

	Bio-waste: collection is free of costs, but unique payment for the bin of 30€/household (40l, 120l & 240l); 175 €/household (660l, 770l & 1 100l) [8]
 Door-to-door collection of co-mingled recyclables	
Fractions collected together in one bin	Metal, plastic and composite material (PMC) [8]
Collection frequency	Bi-weekly [8]
Coverage of collection	100 % Households [3] 100 % Businesses [3] [12]
Annual collected quantities (in 2012)	Metal, plastic and composite material: 1 198 t & 11.2 kg/cap [4]
Setup costs	Not available , see comment above on setup costs [12]
Running costs	Not available , see comment above on running costs [12]
Source of funding	EPR scheme for packaging material – VALORLUX [7] [2] and waste budget [11]
Cost to consumer (annual)	Metal, plastic and composite material: free of costs (once a year each household gets a roll of blue bags for the collection) [1]
 Bring Collection Points	
Fractions collected	Paper, glass, green/garden waste
Number of collection points	62 (total) [10] 57.8 (per 100 000 inhabitants) Only 1 collection point does not accept glass (rue Luc Housse) [10]
Collected quantities (in 2012)	Paper: 2 945 t & 27.4 kg/cap [4]
	Glass: 2 697 t & 25.1 kg/cap [4]
	Green garden waste: 3 594 t & 33.5 kg/cap [4]
Setup costs	Not available , see comment above on setup costs [12]
Running costs	Not available , see comment above on running costs [12]
Source of funding	Waste budget [11] and financial contribution from VALORLUX [2] [12]
Cost to consumer	No cost to consumer
 Bring-in Civic Amenity sites	
Fractions collected	Paper and cardboard, metal, plastic, composite material, glass, bulky waste, WEEE, hazardous waste, inert waste, wood waste, bio- and green waste, textile, tires and rubber waste and other waste streams
Number of sites	1 (total) 0.93 (per 100 000 inhabitants) [1]
Collected quantities (in 2012)	Paper and cardboard: 1 392 t & 13 kg/cap [4]
	Glass: 479 t & 4.5 kg/cap [4]
	Packaging (VALORLUX): 4.5 & 0.04 kg/cap [4]
	Plastic: 175 t & 1.6 kg/cap [4]

	Metal: 609 t & 5.7 kg/cap [4]				
	Green garden waste: 440 t & 4.1 kg/cap [4]				
Setup costs	Not available , see comment above on setup costs [12]				
Running costs	Not available , see comment above on running costs [12]				
Source of funding	Waste budget and financial contribution from VALORLUX [2] [12]				
Cost to consumer	None [14]				
PRODUCERS OR THEIR AGENTS					
 Deposit Return Systems					
In the city of Luxembourg there are no collection systems established that are outside the auspices of the municipality [12], but EPR schemes are in place for WEEE (Ecotrel), packaging (Valorlux), mineral oils/edible oils (SuperDrecksKëscht®), batteries and drugs (SuperDrecksKëscht®) [4]					
5. Materials, Quantities and costs					
SUMMARY OF COLLECTION SYSTEMS IN PLACE					
Collected waste (t)	Paper	Glass	Plastic and metal	Bio-waste	City Coverage
Door-to-door	3 677	1 585		1 507	100% Households (see comment)
Co-mingled			1 198		100% Households (see comment)
Bring points	2 945	2 697		3 594	62 bring points + 57.8 per 100 000 inhabitants
Civic amenities	1 392	479	4.5 (VALORLUX packaging), 175 (Plastic), 609 (Metal)	440	1 civic amenity + 0.93 per 100 000 inhabitants
Producer / Retailer take-back					
Total	8 014	4 761	1202.5	5 541	
SUMMARY OF COSTS FOR SEPARATE COLLECTION SYSTEMS IN PLACE					
Costs (€)	Authorities / waste management companies		Consumer costs		
	Setup (€)	Running (€/year)	Funding type	Amount (€)	
Door-to-door	Not available	Not available	Municipal service tax	Paper: 72 €/household (120l) ; 144 €/household (240l) ; 278 €/household (660l); 464 €/household (1 100l) Glass: 65.5 €/household (120l); 130 €/household (240l) Bio-waste: unique payment of 30€/household or 175 €/household	
Co-mingled	Not available	Not available	EPR scheme and waste budget	free of costs	

Bring points	Not available	Not available	Waste budget and financial contribution from EPR	free of costs			
Civic amenities	Not available	Not available	Waste budget and financial contribution from EPR	free of costs			
Producer / Retailer take-back	Not available	Not available	Not available	Not available			
Total	Not available	Not available	Not available	Not available			
6. Recycling and losses							
RECYCLING OF THE COLLECTED WASTE							
Recycled (t)	Paper	Glass	Plastic	Metal	PMC	Bio-waste	Total
Generated in 2012]	Not available [12]	Not available [12]	Not available [12]	Not available [12]	Not available [12]	Not available [12]	Not available [12]
Collected in 2012 [4]	8 014	4 761	176	609	1 202	5 542	20 052
Recycled nationally	Not available	Not available	Not available	Not available	Not available	4 571 [4] (green garden waste composted)	Not available
Exported for recycling	Not available						
Rejected							
ADDITIONAL FINDINGS							
Only total amounts for recycling and composting of municipal waste is available: 27 032 t of municipal waste was recycled and composted which represents 37.7 % of total generation [4]							

References

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- [12] Information provided by Email Mr Wulff, Ville de Luxembourg, 05 May 2015.