

# Municipal waste management in Mazowieckie voivodship in 2017

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Dynamics of the amount of municipal waste y/y

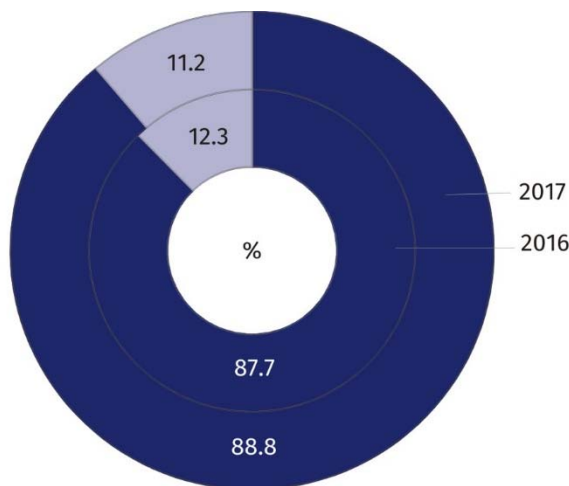
**In 2017, the amount of municipal waste generated increased as compared to the previous year (14.8% of share in the country). There was an average of 294 kg of municipal waste collected from households per 1 inhabitant of the voivodship. The number of municipal waste landfills was lower than a year before.**

## Municipal waste

In 2017, there were 1777.0 thous. tonnes of municipal waste collected from the area of Mazowieckie voivodship, which accounted for 14.8% of the total municipal waste collected in the country. Compared to the previous year, the mass of generated municipal waste increased by 1.0%. There was an average of 330.7 kg (compared to 328.3 kg in 2016) per one inhabitant of the voivodship. The number of enterprises that collected municipal waste from property owners in 2017 was 151 (a 9.0% decrease compared to the previous year). Private sector companies collected 60.3% of municipal waste (compared to 61.7% in 2016). Among the public sector companies, the highest share in the collection of municipal waste was held by entities constituting municipal (local government) property - 97.7%.

There were 1.8 million tonnes of municipal waste collected from Mazowieckie voivodship

**Figure 1. Structure of municipal waste collected by source of origin**



■ Households ■ Municipal services, trade, small business, offices and institutions

In 2017, among generated municipal waste dominated waste from households — 1578.5 thous. tonnes, i.e. an increase by 2.4% compared to the previous year. There was an average of 293.8 kg of collected municipal waste per 1 inhabitant (by 5.9 kg more than in 2016). 198.4 thous. tonnes were collected from municipal services, small business, trade, offices and institutions, i.e. less by 8.5% compared to 2016.

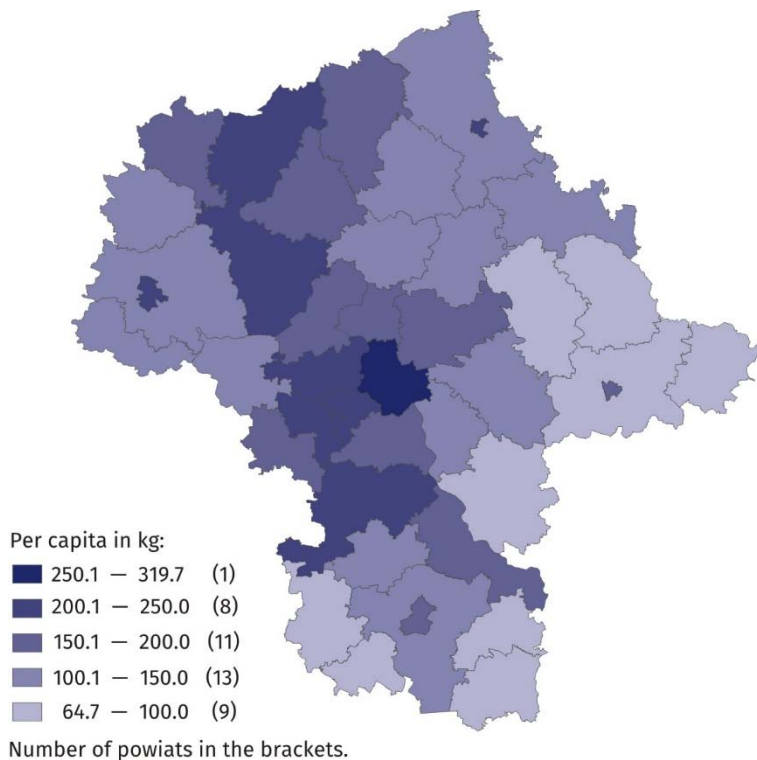
Waste mixed (73.5%) dominated in the total weight of collected municipal waste

The mass of collected municipal waste consisted of mixed waste and waste collected separately. In 2017, the share of waste mixed in the total weight of municipal waste collected was 73.5% (compared to 73.6% in 2016).

The main source of generating municipal waste mixed are households. In 2017, 1133.9 thous. tonnes of waste were collected from households, which constituted 86.8% of the weight in the voivodship. 900.2 thous. tonnes were collected in urban areas of the voivodship., while in rural areas 233.6 thous. tonnes (in 2016, respectively, 893.7 thous. tonnes and 221.4 thous. tonnes). Calculated per 1 inhabitant, an average of 211.0 kg was collected and it was 2.8 kg more than in 2016. The largest amount of mixed municipal waste from households per 1 inhabitant was collected in the powiats: the Capital City of Warszawa (319.7 kg), grodziski (245.9 kg) and Ostrołęka (229.3 kg), and the least in garwoliński (64.7 kg), siedlecki (69.2 kg) and zwoleński powiat (72.6 kg).

Nearly 87% of mixed municipal waste was collected from households

**Map 1. Mixed municipal waste collected from households by powiats in 2017**



Another significant source of municipal waste mixed is waste collected from municipal services, trade, small business, offices and institutions. In 2017, from this source 171.7 thous. tonnes of waste were collected in Mazowieckie voivodship, which accounted for 13.2% of total weight of mixed municipal waste. In comparison with 2016, their weight decreased by 8.0 thous. tonnes, i.e. by 4.4%.

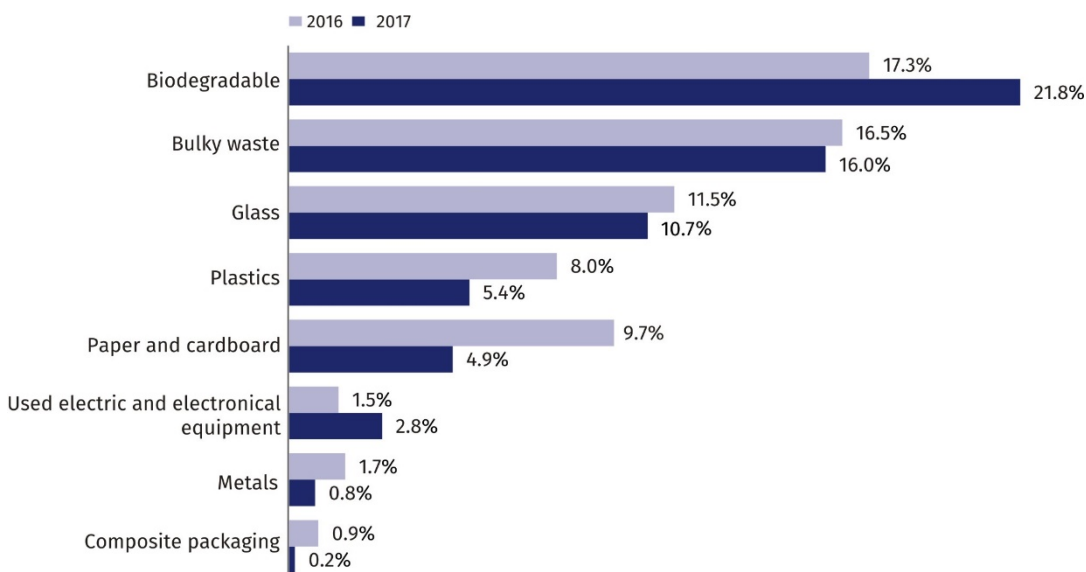
The increase in the amount of waste collected separately has a large impact on reducing the amount of collected mixed waste. In 2017, 471.4 thousand tonnes of municipal waste was collected separately in Mazowieckie voivodship, which constituted 26.5% of the total weight of this waste (more by 0.1 pp than in 2016). Compared to the previous year, the weight of waste collected separately increased by 7.3 thousand, i.e. by 1.6%.

In 2017, the amount of waste collected separately increased by 1.6% compared to the previous year

In 2017, the most waste collected separately came from households, their share accounted for 94.3% and was higher by 2.3 pp than a year before. Compared with 2016, the share of waste collected separately from municipal services, trade, small business and institutions decreased by 2.3 pp.

In Mazowieckie voivodship in 2017, there were 269 points for selective collection of municipal waste (less by 1.1% than in 2016); in urban areas — 70 (26.0% of the total number of points for selective collection of municipal waste), and in rural areas 199 (74.0%).

**Figure 2. Share of selected fractions in the total amount of municipal waste collected separately**



In 2017, out of waste collected separately there was an increase in the amount of used electrical and electronic equipment (by 90.5%) and biodegradables (by 28.0%) compared to 2016. However, the amount of collected composite packaging decreased by 74.2%, metals (by 54.0%), paper and cardboard (by 49.2%), plastics (by 30.8%), glass waste (by 5.8%), bulky waste (by 1.6%).

Municipal waste treatment includes recovery and disposal. In 2017, 1042.3 thous. tonnes of municipal waste were allocated for recovery, which accounted for 58.7% of the total weight of municipal waste collected in the voivodship. 411.2 thous. tonnes of municipal waste were designated for recycling (23.1% of the amount of municipal waste generated), 100.7 thous. tonnes of municipal waste were transferred to biological processing (composting or fermentation) (5.7% of the amount of municipal waste generated), while 530.3 thous. tonnes of municipal waste were sent to incineration with energy recovery (29.8% of the amount of municipal waste generated). 734.7 thous. tonnes of municipal waste were allocated to the disposal processes. tonnes of municipal waste; 685.5 thous. tonnes were sent to landfilling (38.6% of municipal waste generated), and to incineration without energy recovery - 49.2 thous. tonnes (2.8% of municipal waste generated).

### Municipal waste landfill sites

At the end of 2017, in Mazowieckie voivodship operated 29 (compared to 33 in 2016) municipal waste landfills with a total area of 167.4 ha (compared to 168.3 ha in 2016).

Out of the total number of active landfill sites, the majority (75.9%) were located in rural areas. In 2017, 26 landfill sites, i.e. 89.7%, were equipped with a degassing installation, including 10 with gas escaping directly into the atmosphere. As a result of landfill gas disposal by incineration, 12792.1 thous. MJ of heat energy and 15515.3 thous. kWh of electricity was produced.

A worrying phenomenon is the emergence of illegal dumps on which waste is thrown. In 2017, in Mazowieckie voivodship, 1298 illegal dumps were liquidated, out of which a total of 5.1 thous. tonnes of municipal waste were collected. Compared to the end of December 2016, their number increased by 14.0% (in urban and rural areas it increased by 14.8% and 10.6% respectively). There are still 143 wild dumps in the voivodship with a total area of 80.9 thous. m<sup>2</sup>.

Almost 59% of municipal waste generated was destined for recovery

Almost 39% of municipal waste collected was destined for landfilling

Nearly 76% of landfill sites for municipal waste were located in rural areas

Out of 1298 illegal dumps liquidated in the voivodship 5.1 thous. tonnes of municipal waste were collected

**Table 1. Landfill sites in 2017**

SPECIFICATION	In operation (as of 31 XII)		Not operational (as of 31 XII)	
	number	area in ha	number	area in ha
WOJEWODZTWO MAZOWIECKIE MACROREGION				
<b>GRAND TOTAL</b>	<b>29</b>	<b>167.4</b>	<b>5</b>	<b>10.6</b>
urban areas	7	56.3	—	—
rural areas	22	111.1	5	10.6
WARSZAWSKI STOŁECZNY REGION				
<b>TOTAL</b>	<b>7</b>	<b>44.5</b>	<b>1</b>	<b>3.1</b>
subregions:				
Capital City of Warszawa	—	—	—	—
Warszawski wschodni	3	15.1	1	3.1
Warszawski zachodni	4	29.4	—	—
MAZOWIECKI REGIONALNY REGION				
<b>TOTAL</b>	<b>22</b>	<b>122.9</b>	<b>4</b>	<b>7.5</b>
podregiony:				
Ciechanowski	5	29.8	—	—
Ostrołęcki	3	15.9	1	3.8
Radomski	4	18.8	1	0.4
Płocki	3	21.2	—	—
Siedlecki	5	16.6	1	1.6
Żyrardowski	2	20.6	1	1.7

**Table 2. Mazowieckie voivodship against the background of the country in 2017 – selected data**

SPECIFICATION	Poland	Voivodship	
		total	Poland=100
Municipal waste total in thous. tonnes	11968.7	1777.0	14.8
of which public sector units	4572.0	704.8	15.4
mixed	8729.3	1305.6	15.0
collected from:			
municipal services, trade, small business, offices and institutions	1709.1 <sup>1</sup>	171.7	10.0
households	7020.1	1133.9	16.2
per capita in kg	182.7	211.0	x
Collected or collected separately	3239.4	471.4	14.6
designated for recovery and disposal operations:			
landfilling	4999.7	685.5	13.7
incineration			
with energy recovery	2724.2	530.3	19.5
without energy recovery	198.1	49.2	24.8
recycling	3198.7	411.2	12.9
biological processing	848.0	100.7	11.9
Controlled landfill sites in operation (as of 31 XII)			
number	301	29	9.6
Area in ha	1741.6	167.4	9.6
Illegal dumps			
existing (as of 31 XII)	1661	143	8.6
liquidated (during a year)	13000	1298	10.0

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#### **Related information**

[Statistical Yearbook of Mazowieckie Voivodship 2017](#)

[Mazowieckie Voivodship – Subregions Powiats Gminas 2017](#)

#### **Data available in databases**

[Local Data Bank Stan and Environmental Protection](#)

[Knowledge Databases](#)

#### **Terms used in official statistics**

[Illegal dumps](#)

[Waste composting](#)

[Biodegradable waste](#)

[Municipal waste](#)

[Municipal waste collected separately](#)

[Municipal waste collected from households](#)

[Waste recovery](#)

[Recycling](#)

[Landfill sites](#)

[Waste incineration](#)