Municipal waste

Waste is generated at all stages of human activities. Its composition and amounts depend largely on consumption and production patterns.

Municipal waste is only part of total waste generated (about 10%), but its management and treatment often represents more than one-third of public sector financial efforts to abate and control pollution. The main concerns raised by municipal waste relate to the potential impact from inappropriate waste management on human health and the environment (soil and water contamination, air quality, climate, land use and landscape).

Definitions

The indicators presented here refer to total amounts of municipal waste generated as well as waste generation intensities expressed per capita. Treatment and disposal shares of municipal waste, along with private final consumption expenditure, are shown as complementary information.

Municipal waste is waste collected by or on behalf of municipalities. It includes household waste originating from households (i.e. waste generated by the domestic activity of households) and similar waste from small commercial activities, office buildings, institutions such as schools and government buildings, and small businesses that treat or dispose of waste at the same facilities used for municipally collected waste.

Waste generation intensities are first approximations of potential environmental pressure; more information is needed to describe the actual pressure. These indicators should be complemented with information on waste management practices and costs, and on consumption levels and patterns.

Overview

During the 1990s, municipal waste generated in the OECD area has risen (+19%) along with a rise in private consumption expenditure (+33%) and GDP (+31%). As of the early 2000s this rise has been slowing down. Today, the quantity of municipal waste generated exceeds an estimated 660 million tonnes. A person living in the OECD area generates on average 530 kg of waste per year; this is 30 kg more than in 1990, but 30 kg less than in 2000.

The amount and composition of municipal waste vary widely among OECD countries, being related to levels and patterns of consumption, the rate of urbanisation, lifestyles, and national waste management practices.

Over the last two decades, OECD countries have put significant efforts into curbing municipal solid waste generation. More and more waste is being diverted from landfills and incinerators and fed back into the economy through recycling. Landfill nonetheless remains the major disposal method in many OECD countries.

See Annex A for OECD trends in decoupling and treatment

Comparability

The definition of municipal waste, the types of waste covered and the surveying methods used to collect information vary from country to country and over time.

The main problems in terms of data comparability relate to the coverage of waste from commerce and trade, and of separate waste collections that may include hazardous waste from households such as waste batteries or electric and electronic equipments.

In some cases the reference year refers to the closest available year.

For additional notes, see Annex B.

Source

OECD Environment Statistics (database), http://dx.doi.org/ 10.1787/data-00601-en.

Further information

OECD Resource productivity and waste, www.oecd.org/env/waste.

OECD (2012), "Review of the OECD Environmental Strategy for the First Decade of the 21st Century", OECD, Paris, www.oecd.org/env/50032165.pdf.

Information on data for Israel: http://dx.doi.org/10.1787/888932315602.

Municipal waste

800

OECD, municipal waste

400

200

Listenia Haria Repart Legan Bandari Latar Repart Latar Bandari Latar Band

Figure 1.25. Municipal waste generation intensities per capita, 2011

Source: OECD Environment Statistics (database).

StatLink http://dx.doi.org/10.1787/888932977106

Table 1.12. Municipal waste generation and private consumption

	Municipal waste generated, per capita			of which: From households	Private final consumption expenditure, per capita	
	kg/cap	% change 1990-2011	% change 2000-2011	kg/cap 2011	1 000 USD/cap 2011	% change 1990-2011
	2011					
Australia	640	-7	-7		21	51
Austria ¹	560	33	6	450	19	29
Belgium ¹	470	38	-2	360	17	25
Canada ¹				390	21	42
Chile	380	52	15	280	9	155
Czech Republic	320		-3		11	
Denmark	720			350	16	28
Estonia ¹	300		-20		9	
Finland	500		0	260	17	39
France ¹	530	18	4	410	18	26
Germany	600		-6	530	19	
Greece	520	73	27		17	
Hungary ¹	380		-16	250	9	40
celand ¹	550		20		17	20
reland ¹	620		7	380	17	68
srael	610		-3		15	
taly	540		6		17	18
Japan ¹	350	-7	-12	250	18	20
Korea ¹	380		6	310	14	117
Luxembourg	700		8	610	26	32
Mexico ¹	360		16	280	9	35
Vetherlands	600	20	-2	530	17	26
New Zealand	560		-27		15	35
Norway ¹	490		34	450	22	70
Poland ¹	320	-10	-19	180	11	141
Portugal ¹	490	63	11		14	44
Slovak Republic ¹	310		15	260	11	
Slovenia ¹	410		1	290	14	
Spain ¹	500		-18		15	34
Sweden	460	24	7		17	34
Switzerland	690	13	5	550	22	13
Turkey ¹	410	14	-15		9	70
United Kingdom ¹	530	13	-9	470	21	45
United States ¹	730	-4	-6	440	30	42
DECD ¹	530	6	-5		19	

1. See Annex B for country notes.

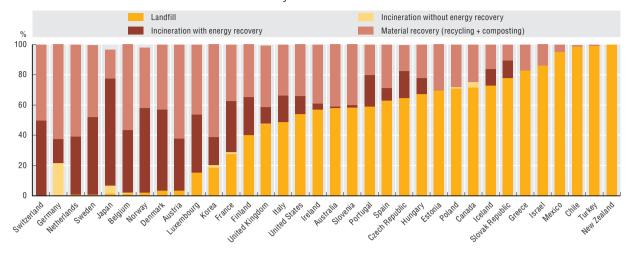
Source: OECD Environment Statistics (database).

StatLink http://dx.doi.org/10.1787/888932978303

Municipal waste

Figure 1.26. Municipal waste disposal and recovery shares, 2011

% of amounts treated



Source: OECD Environment Statistics (database).

StatLink http://dx.doi.org/10.1787/888932977125

Table 1.13. Municipal waste disposal and recovery shares, 2011

% of amounts treated

	Recycling and composting	Incineration with energy recovery	Incineration without energy recovery	Landfill
Australia	41	1	-	58
Austria ¹	62	34	-	3
Belgium ¹	57	41	1	1
Canada ¹	25	-	4	72
Chile	1	-	-	99
Czech Republic	17	18	-	65
Denmark	43	54	-	3
Estonia ¹	30	-	-	70
inland	35	25	-	40
rance ¹	37	34	1	28
Germany	63	16	21	-
Greece	17	-	-	83
Hungary ¹	22	11	-	67
celand ¹	16	11	-	73
reland ¹	39	4	-	57
srael	14	-	-	86
taly	34	17	-	49
Japan ¹	19	70	6	2
Korea ¹	61	19	2	19
_uxembourg	46	38	-	15
Mexico ¹	5	-	-	95
Vetherlands	61	38	-	1
New Zealand	-	-	-	100
Norway ¹	40	56	-	2
Poland 1	28	-	1	71
Portugal ¹	20	21	-	59
Slovak Republic ¹	11	11	-	78
Slovenia ¹	40	2	-	58
Spain ¹	29	8	-	63
Sweden	47	51	-	1
Switzerland	50	50	-	
Turkey ¹	1	-	-	99
United Kingdom ¹	40	11	-	48
United States ¹	34	12	-	54
DECD ¹	33	19	3	46

1. See Annex B for country notes.

Source: OECD Environment Statistics (database).

StatLink http://dx.doi.org/10.1787/888932978322

40 20 10 -10 -20

Figure 1.27. Change in the amounts of municipal waste generated per capita, since 2000

Source: OECD Environment Statistics (database);.

-30

StatLink http://dx.doi.org/10.1787/888932977144

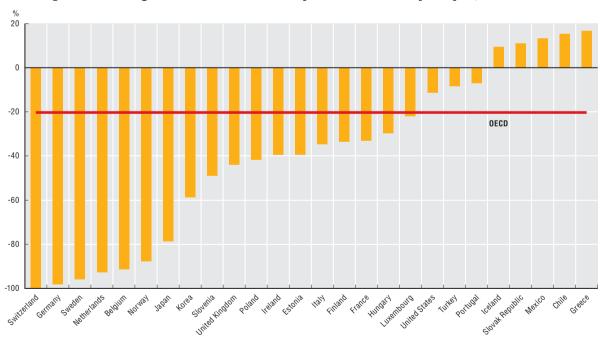


Figure 1.28. Change in the amounts of municipal waste landfilled per capita, since 2000

 $Source: \ OECD \ Environment \ Statistics \ (database).$

StatLink http://dx.doi.org/10.1787/888932977163



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