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%) mostly in line with private consumption expenditure (+33%) and GDP (+31%). As of the early 2000s, this rise has been slowing down (+2%). Today, the quantity of municipal waste generated exceeds an estimated 650 million tonnes. A person living in the OECD area generates on average 520 kg of waste per year; this is 20 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. On average, Europeans generate around 130 kg less than people living in America but 80 kg more than people living in the OECD Asia-Oceania region. Over the past 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. Mechanical and biological pre-treatment is increasingly used to enhance recovery rates and incineration efficiency, and reduce the amounts being landfilled. Manufacturers are increasingly encouraged or required to accept responsibility for their products after the point of sale. The European Union has introduced recycling targets for all its member countries. Landfilling of municipal waste has been banned in a few countries. Landfill nonetheless remains the major disposal method in many OECD countries.

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 household like waste from commerce and trade, and of separate waste collections that may include hazardous waste from households such as waste batteries or waste electric and electronic equipment (WEEE) and waste collected by the private sector in the framework of extended producer responsibility schemes.

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

For additional notes, see the Annex.

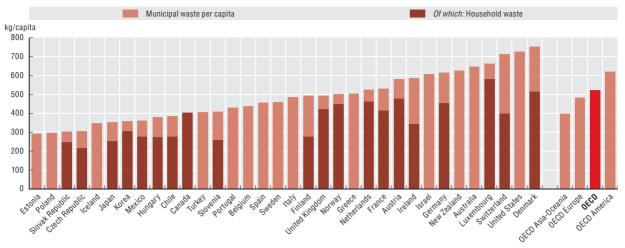
Source

OECD (2015), "Municipal Waste", OECD Environment Statistics (database), http://dx.doi.org/10.1787/data-00601-en.

Further information

- OECD (2015), "Material Resources, Productivity and the Environment", OECD Green Growth Studies, OECD Publishing, Paris, http://dx.doi.org/10.1787/9789264190504-en.
- OECD, Resource Productivity and Waste, www.oecd.org/env/ waste.
- Information on data for Israel: http://dx.doi.org/10.1787/ 888932315602.

Municipal waste





Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).

StatLink and http://dx.doi.org/10.1787/888933261972

	Mu	nicipal waste generated per ca	pita	Of which: From households	Private final consumption expenditure, per capita	
	Kg/cap	% change	% change	Kg/cap	1 000 USD/cap	% change
	2013 or latest	1990-2013	2000-13	2013 or latest	2013	2000-13
Australia	647	-6	-7		26	27
Austria	580	39	8	477	21	10
Belgium	438	27	-8		20	6
Canada			10	403	23	27
Chile	385	55	17	275	13	88
Czech Republic	307		-8	215	13	29
Denmark	751		10	515	18	11
Estonia	293				13	77
Finland	493		-2	276	19	25
rance	530	15	3	414	19	10
Germany	614	-2	-4	454	22	12
Greece	504	56	13		16	-3
Hungary	378		-15	275	9	23
celand	347		-25		19	6
reland	587		-20	344	17	9
srael	607		-4		19	23
taly	484	18	-5		17	-9
Japan	354	-13	-18	253	19	13
Korea	358	-43	-1	304	17	42
_uxembourg	661		1	581	24	4
Vexico	360	17	18	277	11	23
Vetherlands	525	6	-12	462	18	-4
New Zealand	626	-43	-27		15	36
Vorway	501		37	448	28	42
Poland	297				13	55
Portugal	429	43	-3		15	-2
Slovak Republic	304		13	247	13	54
Slovenia	409			257	10	14
Spain	455		-26		17	1
Sweden	458	22	7		20	22
Switzerland	712	17	8	399	25	9
Furkey	407				1	47
Jnited Kingdom	494	4	-14	422	27	17
Jnited States	725	-4	-7		34	18
DECD	522	4	-6		21	17
DECD America	619	1	-4		27	19
DECD Asia-Oceania	399	-7	-4 -12		19	21
DECD Asia-Oceania DECD Europe	483	-7	-12 -7		19	10

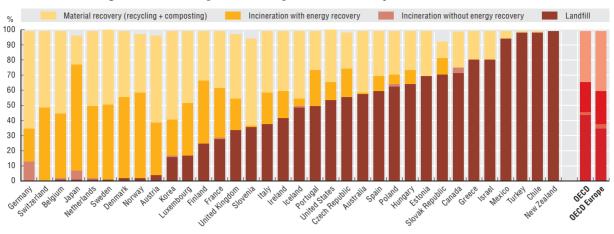
Table 1.11. Municipal waste generation and private consumption

Note: See the Annex for country notes.

Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).

StatLink and http://dx.doi.org/10.1787/888933262352

Municipal waste





Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).

StatLink and http://dx.doi.org/10.1787/888933261986

		% of amo	% change since	% change since 2000		
	Recycling and composting	Incineration with energy recovery	Incineration without energy recovery	Landfill	Recycling and composting	Landfill
Australia	41	1		58		
Austria	58	35	0	4	5	-87
Belgium	55	43	1	1	16	-95
Canada	24		4	72	21	3
Chile	1	0	0	99	-78	27
Czech Republic	24	19	0	56		
Denmark	44	54	0	2	54	-63
Estonia	30	0	0	70	600	-41
Finland	33	42	0	25	0	-57
France	38	33	1	28	71	-26
Germany	65	22	13	0	16	-99
Greece	19			81	176	3
Hungary	26	9		65		
Iceland	45	5	1	49	150	-44
Ireland	40	18	0	42	263	-51
Israel	19			81	95	13
Italy	41	21	0	38		
Japan	19	71	6	1	20	-79
Korea	59	24	1	16	51	-64
Luxembourg	48	35		17	65	3
Mexico	5			95	190	33
Netherlands	50	48	1	1		
New Zealand				100		
Norway	39	57	0	2	37	-87
Poland	29	6	2	63	886	-50
Portugal	26	24	0	50	162	-26
Slovak Republic	11	11	0	71		
Slovenia	58	1	0	36	497	-72
Spain	30	10	0	60		
Sweden	50	50	0	1	50	-97
Switzerland	51	49	0	0	36	-100
Turkey	1		0	99	-33	6
United Kingdom	43	21	0	34	256	-62
United States	35	12		54	25	-91
OECD	34	20	2	44	42	-18
OECD Europe	40	22	3	35	56	-49

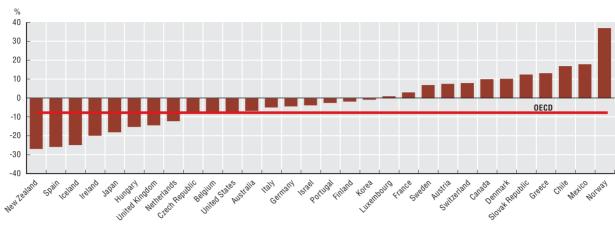
Table 1.12. Municipal waste disposal and recovery shares, 2013 or latest

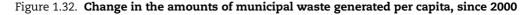
Note: See the Annex for country notes.

Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).

StatLink and http://dx.doi.org/10.1787/888933262364

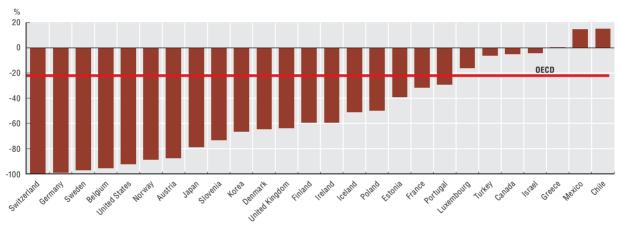
Municipal waste

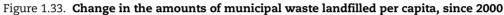




Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).

StatLink and http://dx.doi.org/10.1787/888933261997





StatLink and http://dx.doi.org/10.1787/888933262006

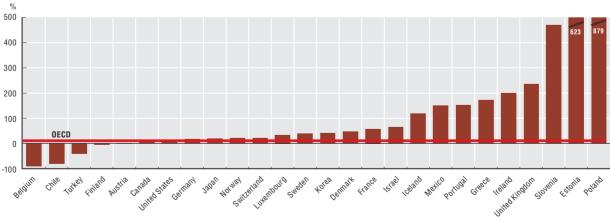


Figure 1.34. Change in the amounts of municipal waste recovered and composted per capita, since 2000

Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).

StatLink and http://dx.doi.org/10.1787/888933262015

Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database).



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