

Waste in Montenegro

Generated and treated waste in 2020

During 2020, in Montenegro, 1 314 393.6 t of waste was generated of which 763 270.9 t or 58.1% in sectors Manufacturing, mining and quarrying and other industries. Of total amounts of generated waste during 2020, 343 893.5 t of hazardous waste or 26.2%.

Compared to the previous year, there was an increase of 3.2% in relation to the total amount generated; Agriculture, forestry and fishery sector recorded a decrease of 8.0%; sectors of Manufacturing, mining and quarrying and other industries increase of 1.3%; Construction sector recorded increase of 33.4%; Service activities sectors recorded increase of 9.4 and households decrease of 10.8%.

In 2020, 304 062.7 t of municipal waste was generated or 10.8% less than in 2019. Public utility enterprises collected 273 742.5 t which is 95.3% of total collected amounts. Generated municipal waste per capita amounted 489.4 kg which is for 10.7% less than in previous year.

Total amounts of treated waste including export in 2020 was 1 131 102.6 t, which is 3.3% less than in previous year. From total treated amounts, 654 886.5 t was landfilled/disposed or 57.9%. Recycled amounts of waste recorded an decrease compared to the previous year of 3.4%.

Total amount of treated municipal waste including export, in 2020 was 286 705.2 t which is 11.5% less than in 2019. From total treated amounts, 250 796.9 t was landfilled/disposed or 87.5%.

Table 1. Generated and treated amounts of waste

	2019	2020
		tonnes
Agriculture, forestry and fishery (A)	13 764.6	12 664.3
Manufacturing, mining and quarrying and other industries (B, C, D i E)	753 239.0	763 270.9
Construction (F)	140 901.9	187 893.2
Service activities (G - U)	109 585.2	119 881.3
Households	258 753.9	230 683.9
Generated - total	1 276 244.6	1 314 393.6
of which municipal waste	340 822.6	304 062.7
Waste treatment including export - total	1 169 592.7	1 131 102.6
of which treatment of municipal waste including export, total	324 080.3	286 705.2
Index treatment/generated waste	91.6	86.1

Table 2. Generated amounts of hazardous and non hazardous

tonnes

	2019		2020	
	hazardous	non hazardous	hazardous	non hazardous
Agriculture, forestry and fishery (A)	10.2	13 754.4	6.1	12 658.2
Manufacturing, mining and quarrying and other industries (B, C, D i E)	326 002.9	427 236.1	317 136.6	446 134.3
Construction (F)	75.9	140 826.0	37.5	187 855.7
Service activities (G -U)	2 610.0	106 975.2	26 713.3	93 168.0
Households	12.6	258 741.3	0	230 683.9
Generated - total	328 711.6	947 533.0	343 893.5	970 500.1

Table 3. Collected and generated amounts of municipal waste

tonnes

	2019	2020
Municipal waste collected by Public utility enterprises	308 103.6	273 742.5
Municipal waste collected by waste collectors, waste brought to landfill sites by natural persons and directly exported from original producers	14 464.3	13 573.4
Total amounts of collected municipal waste	322 567.9	287 315.9
Amounts of waste from citizens that are not included in the system of public collection of municipal waste	18 254.7	16 746.8
Total	340 822.6	304 062.7

Table 4. Municipal waste per capita

	2019	2020
Estimated number of population by middle of year	622 028	621 306
Number of days during the year	365	366
Total amounts of collected municipal waste, t	322 567.9	287 315.9
Total collected municipal waste per capita per year, kg	518.6	462.4
Total collected municipal waste per capita per day, kg	1.4	1.3
Total generated amounts of municipal waste, t	340 822.6	304 062.7
Total generated municipal waste per capita per year, kg	547.9	489.4
Total generated municipal waste per capita per day, kg	1.5	1.3
Percentage of population coverage by municipal waste collection services	86.2	87.0

Table 5. Treated amounts of waste by treatment procedures

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	2019	2020
Waste removal (R1-R11)	84 077.0	80 775.5
of which waste recycling (R2-R11)	81 980.7	79 166.3
Waste disposal (D1-D7, D10-D12)	984 049.1	994 628.5
of which incineration (D10)	0.6	0.8
of which landfilling (D1)	633 920.9	654 886.5
Waste export	101 466.6	55 698.5
(R) + (D), total	1 068 126.1	1 075 404.0
(R) + (D) + export, total	1 169 592.7	1 131 102.5

Tabela 6. Treatment of municipal waste

tonnes

	2019	2020
Municipal waste removal (R1-R11)	4 033.0	3 566.5
of which waste recycling (R2-R11)	4 031.5	3 557.4
Municipal waste disposal (D1-D7, D10-D12)	301 452.8	268 415.3
of which landfilling (D1)	282 384.4	250 796.9
Municipal waste export	18 594.5	14 723.4
(R) + (D) - total	305 485.8	271 981.8
(R) + (D) + export - total	324 080.3	286 705.2

METHODOLOGICAL NOTES

Data on waste are collected through following surveys: Survey on municipal waste, Survey on waste collection and processing and Survey on generated waste. Reporting method is used for data collection for the Survey on municipal waste and Survey on waste collection and processing, while the data on generated waste are collected through interview method.

The reporting units for the Survey on municipal waste are public utility enterprises, with the permit issued by Secretariat for Local Government for performing public service of municipal waste collection and transportation. For the Survey on waste collection and processing, reporting units are all enterprises that have permits for waste collection, treatment and export/import and issued by Nature and Environmental Protection Agency, as well as enterprises that manage landfill sites.

The Survey on generated waste covers all business entities with 10 and more employees whose main activity is defined in sectors B - Mining and quarrying, C - Manufacturing, D - Electricity, gas, steam and air conditioning supply, E - Water supply; sewerage, waste management and remediation activities, A – Agriculture, forestry and fishing, F – Construction, G - Wholesale and retail trade; repair of motor vehicles and motorcycles - group 45.2 Maintenance and repair of motor vehicles, M - Professional, scientific and technical activities - division 75 Veterinary activities, Q - Human health and social work activities - classes: 86.10 Hospital activities, 86.21 General medical practice activities, 86.23 Dental practice activities and 86.90 Other human health activities according to Classification of activities 2010.

Data on generated waste were processed using statistical methods in order to obtain greater coverage and international data comparability. Data on generated amounts of waste in Service activities are obtained by compiling data from different surveys: data on waste generated in service activities (G - Wholesale and retail trade; repair of motor vehicles and motorcycles - group 45.2 Maintenance and repair of motor vehicles, M - Professional, scientific and technical activities - division 75 Veterinary activities, Q - Human health and social work activities - classes: 86.10 Hospital activities, 86.21 General medical practice activities, 86.23 Dental practice activities and 86.90 Other human health activities), data on amounts of waste collected by original waste producers from Survey on waste collection and processing and data on collected waste in manufacturing and service activities from Survey on municipal waste.

Waste is any substance or object which the holder has discarded or intends to discard or is obliged to discard in accordance with the law.

Non-hazardous waste is waste whose composition and properties do not have any of the characteristics of hazardous waste.

Hazardous waste is waste containing elements or compounds having one or more of the following hazardous properties: explosiveness, reactivity, flammability, irritability, harmful, toxic, infectious, carcinogenic, corrosiveness, mutagenicity, teratogenicity, eco-toxicity, the property of abrasion and the property of release of toxic gases by chemical or biological reaction and sensitivity / irritability, as well as waste from which, after a delay, other matter may arise that has any of the hazardous properties.

Municipal waste is waste from households or when performing activities whose properties are similar to waste from households.

Mixed municipal waste is the waste from the household left after separation of some municipal waste fractions for which the possibility of selective collection is envisaged including communal waste packaging.

The original waste producer is any person whose activities produce waste.

Waste treatment is the procedure for removal of and/or disposal of waste, including preparation prior to removal and/or disposal. Data on waste treatment includes internal waste treatment.

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