

Amount of waste generated from industry 2013

The release comprises selected statistical data on the amount of waste generated from industry in 2013 (no amount of waste from temporary storage place, in contrast to previous Releases for 2012 and 2011) by Sectors, by Rulebook on waste catalogue and Statistical waste classification.

Of the total 424 147.09 tonnes of waste generated in industry, mining sector has generated 171.60 tonnes, i.e. 0.04%; manufacturing 39 089.11 tonnes. i.e 9.22%; and sector of electricity, gas and steam supply 384 886.38 tonne, i.e. 90.74%.

By sector, the relationship of non-hazardous and hazardous waste is the following: mining sector (70.77% of non-hazardous waste, and 29.23% of hazardous waste), manufacturing sector (93.61% of non-hazardous waste. 6.39% of hazardous waste.) and electricity, gas and steam supply (99.92% of non-hazardous waste. 0.08% of hazardous waste).

**Table 1 Industrial waste generated by sectors
2013**

CRNA GORA	Rudarstvo	Prerađivačka industrija	Snabdijevanje el. energijom, gasom i parom	Ukupno
Neopasni otpad	121,44	36 593.16	384 592,24	421 306.84
Opasni otpad	50,16	2 495,95	294,14	2 840,25
UKUPNO	171,60	39 089.11	384 886,38	424 147.09

Table 2 Industrial waste generated by Rulebook on waste catalogue 2013

Amounts of waste generated		Non-hazardous	Hazardous	Total
	Mining and quarrying	121,44	50,16	171,60
13	Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19)	0,00	39,80	39,80
15	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified	1,00	0,05	1,05
16	Wastes not otherwise specified in the list	69,84	10,31	80,15
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions	50,60	0,00	50,60
	Manufacturing	36 593,16	2 495,95	39 089,11
01	Wastes resulting from exploration, mining, quarrying, physical and chemical treatment of minerals	2 811,86	0,00	2 811,86
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing	5 022,96	0,00	5 022,96
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard	4 969,78	0,00	4 969,78
04	Wastes from the leather, fur and textile industries	2,20	0,00	2,20
08	Wastes from the manufacture, formulation, supply, and use of coatings (paints, varnishes, and vitreous enamels), adhesives, sealants and printing inks	0,01	1,99	2,00
10	Wastes from thermal processes	8 807,31	856,28	9 663,59
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydrometallurgy	0,00	0,50	0,50
12	Wastes from shaping and physical and mechanical surface treatment of metals and plastics	4 627,66	1,63	4 629,29
13	Oil wastes and wastes of liquid fuels (except edible oil, and those in chapters 05, 12 and 19)	0,00	1 565,36	1 565,36
14	Waste organic solvents, refrigerants and propellants (except 07 and 08)	0,00	0,80	0,80
15	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified	3 747,71	4,75	3 752,46

**Table 2 Industrial waste generated by Rulebook on waste catalogue
2013**

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Amounts of waste generated		Non-hazardous	Hazardous	Total
16	Wastes not otherwise specified in the list	1 208,36	55,51	1 263,87
17	Construction and demolition wastes (including excavated soil from contaminated sites)	42,94	0,00	42,94
18	Wastes from human or animal health care and/ or related research (except kitchen and restaurant wastes not arising from immediate health care)	7,98	0,00	7,98
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use	1 900,81	0,00	1 900,81
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions	3 443,58	9,13	3 452,71
	Electricity, gas and steam supply	384 592,24	294,14	384 886,38
10	Wastes from thermal processes	383 837,70	0,00	383 837,70
13	Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19)	0,00	69,15	69,15
15	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified	0,00	7,09	7,09
16	Wastes not otherwise specified in the list	225,02	209,14	434,16
17	Construction and demolition wastes (including excavated soil from contaminated sites)	490,29	0,00	490,29
18	Wastes from human or animal health care and/ or related research (except kitchen and restaurant wastes not arising from immediate health care)	1,43	0,00	1,43
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions	37,80	8,76	46,56
	MONTENEGRO	421 306.84	2 840.25	424 147.09

Table 3 Industrial waste generated by statistical waste classification 2013

Type of waste EWC/Stat Version 4		Description	Character of the waste ¹	Mining and quarrying	Manufacturing	Electricity, gas and steam supply
1	01.1	Spent solvent	1	0,00	0,80	0,00
2	01.2	Acid, alkaline or saline wastes	0	0,00	0,00	0,00
3	01.2	Acid, alkaline or saline wastes	1	0,00	217,00	0,00
4	01.3	Used oils	1	39,80	11,50	38,95
5	01.4. 02. 03.1	Spent chemical catalysts	0	0,00	6 614,44	0,00
6	01.4. 02. 03.1	Spent chemical catalysts	1	0,25	1 611,20	37,29
7	03.2	Industrial effluent sludge	0	0,00	921,30	0,00
8	03.2	Industrial effluent sludge	1	0,00	78,03	0,80
9	03.3	Sludge and liquid wastes from waste treatment	0	0,00	0,00	0,00
10	03.3	Sludge and liquid wastes from waste treatment	1	0,00	0,00	0,00
11	05	Health care and biological wastes	0	0,00	0,00	1,44
12	05	Health care and biological wastes	1	0,00	0,00	0,00
13	06.1	Metal wastes, ferrous	0	0,00	839,70	464,80
14	06.2	Metal wastes, non-ferrous	0	0,00	680,74	23,19
15	06.3	Metal wastes, mixed ferrous and non-ferrous	0	0,00	326,11	29,30
16	07.1	Glass wastes	0	0,00	587,89	0,00
17	07.1	Glass wastes	1	0,00	0,00	0,00
18	07.2	Paper and cardboard wastes	0	0,00	2 896,36	0,00
19	07.3	Rubber wastes	0	9,08	302,86	0,00
20	07.4	Plastic wastes	0	0,00	201,88	0,00
21	07.5	Wood wastes	0	0,00	5 330,51	0,00
22	07.5	Wood wastes	1	0,00	0,00	0,00
23	07.6	Textile wastes	0	0,00	3,20	0,00
24	07.7	Waste containing PCB	1	0,00	0,00	0,00
25	08 (EXCL.08.1. 08.41)	Discarded equipment (excluding discarded vehicles, batteries and accumulators)	0	10,70	0,05	225,02

**Table 3 Industrial waste generated by statistical waste classification
2013**

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Type of waste EWC/Stat Version 4		Description	Character of the waste ¹	Mining and quarrying	Manufacturing	Electricity. gas and steam supply
26	08 (EXCL. 08.1. 08.41)	Discarded equipment (excluding discarded vehicles, batteries and accumulators)	1	0,59	10,63	173,18
27	08.1	Discarded vehicles	0	0,00	0,00	0,00
28	08.1	Discarded vehicles	1	0,00	0,00	41,53
29	08.41	Batteries and accumulators wastes	0	0,06	76,06	0,00
30	08.41	Batteries and accumulators wastes	1	9,52	1,05	2,38
31	09.1	Animal and mixed food waste	0	0,00	84,34	0,00
32	09.2	Vegetal wastes	0	0,00	1 045,55	0,00
33	09.3	Slurry and manure	0	0,00	1 217,00	0,00
34	10.1	Household and similar wastes	0	50,60	2 968,30	8,50
35	10.2	Mixed and undifferentiated materials	0	51,00	4 447,37	0,00
36	10.2	Mixed and undifferentiated materials	1	0,00	0,00	0,00
37	10.3	Sorting residues	0	0,00	0,00	0,00
38	10.3	Sorting residues	1	0,00	0,00	0,00
39	11	Common sludge	0	0,00	0,05	0,00
40	12.1	Construction and demolition wastes	0	0,00	0,00	2,30
41	12.1	Construction and demolition wastes	1	0,00	0,00	0,00
42	12.2. 12.3. 12.5	Other mineral wastes	0	0,00	6 617,16	0,00
43	12.2. 12.3. 12.5	Other mineral wastes	1	0,00	0,15	0,00
44	12.4	Combustion wastes	0	0,00	143,77	383 837,70
45	12.4	Combustion wastes	1	0,00	565,58	0,00
46	12.6	Soils	0	0,00	71,00	0,00
47	12.6	Soils	1	0,00	0,00	0,00
48	12.7	Dredging spoil	0	0,00	0,00	0,00
49	12.7	Dredging spoil	1	0,00	0,00	0,00
50	12.8. 13	Waste from waste treatment, solidified, stabilized or vitrified waste	0	0,00	1 217,53	0,00
51	12.8. 13	Waste from waste treatment, solidified, stabilized or vitrified waste	1	0,00	0,00	0,00
TOTAL				171.60	39 089.11	384 886.38

¹⁾ 1-Hazardous waste; 0-Non-hazardous waste

METHODOLOGICAL NOTES

The data on industrial waste in 2012 were collected by statistical surveys *Statistical Survey on waste generated in the industry*. The survey used the reporting method, and the geographical aspects covered are business entities that carry out its production activities in the whole territory of Montenegro. The report includes all businesses with 10 or more employees whose primary activity is defined in the mining sector, manufacturing, and electricity, gas and steam supply, i.e. areas 05-35 of the Classification of Activities 2010.

For the data used was of *Rulebook on waste catalogue and waste classification* (Official Gazette of Montenegro 59/13 from 26.12.2013.) which is compliant the European List of Wastes (LOW), and contains more than 800 types of waste systematized according to their characteristics and place of origin in 20 groups.

Of these 20 groups the most is based on activities in which waste is generated, while some groups are based on materials and processes.

The waste is defined by a code of 6 digits, where the first two digits are a group of other two sub-groups of waste. Hazardous waste in the Waste Catalogue is marked with *.

The Waste Catalogue is a list of the properties and place of origin, classified into groups, subgroups and types of waste from industries who se products a reproducing the waste.

Waste is any substance or subject that the holder discarded or intends to discard it in compliance with the Law (Law on Waste Management, Official Gazette of Montenegro 64/11 as of 29 November 2011).

The waste producer is the original waste producer or any person who performs the pre-treatment, mixing or other processes that change the quality or composition of waste.

Industrial waste is the waste generated in production processes in industry and handicrafts, and differs from municipal waste in their composition and characteristics.

Hazardous waste is the waste containing elements or compounds that have one or more of the following hazardous properties: explosiveness, reactivity, flammability, irritability, harmfulness, toxicity, infectivity, carcinogenicity, corrosiveness, mutagenicity, teratogenicity, eco-toxicity, etching property and property release toxic gases by chemical or biological reaction and sensitivity/irritability, as well as waste from which, after a delay may occur another substance containing some of hazardous characteristics.

Non-hazardous waste is the waste that by composition and characteristics does not possess some of characteristics of hazardous waste.

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