

CREATE Statistical Office of the Republic of Serbia

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Environmental statistics

Industrial waste in the Republic of Serbia, 2011

- Preliminary results -

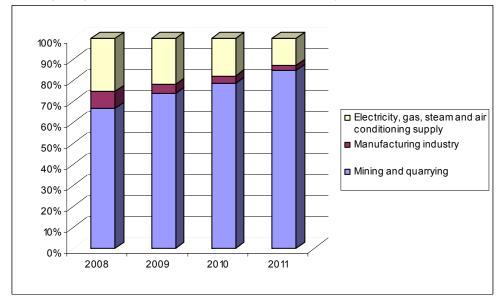
During the year 2011, the industrial sections in the Republic of Serbia produced 48.99 million tonnes of waste, recording an increase of 45.7% compared with previous results obtained according to the Survey on industrial waste. The largest increase in the amount of waste generated is recorded in the sector Mining and quarrying (56.9%) followed by 5.6% in the Electricity, gas, steam and air conditioning supply, while the section Manufacturing has decreased by 2.9%.

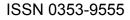
1. Generated industrial waste in the Republic of Serbia, by sections, 2008-2011

	2008	2009	2010	2011
Generated waste	22 493 289	28 546 606	33 622 998	48 985 948
Mining and quarrying	15 009 101	21 108 420	26 458 201	41 517 933
Manufacturing	1 784 346	1 229 293	1 146 010	1 112 348
Electricity, gas, steam and air conditioning supply	5 699 841	6 208 892	6 018 787	6 355 668

Of the total amount of 48 985 948 tons of industrial waste, the sections Mining and Quarrying generated 41 517 933 tons (69.41% and 30.59% of non-hazardous and hazardous waste respectively), Manufacturing 1 112 348 tons (93.93% and 6.07% of non-hazardous and hazardous waste respectively) and Electricity, Gas, Steam and Air Conditioning Supply 6 355 668 tons (99.98% and 0.02% of non-hazardous and hazardous waste respectively).







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SERB166 ZS60 290612

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				Waste generated, 2011			
EWC-Stat ²⁾		Character of waste ¹⁾	2010	Total	Mining and quarrying	Manu- facturing industry	Electricity, gas, steam and air conditioning supply
	Total		33 622 998	48 985 948	41 517 933	1 112 348	6 355 668
	Non hazardous Hazardous			36 217 246 12 768 703	28 818 141 12 699 792	1 044 861 67 487	6 354 244 1 423
01.1	Spent solvents	н	12	5	-	5	0
01.2	Acid, alkaline or saline wastes	NH	5	298	-	298	-
01.2	Acid, alkaline or saline wastes	н	66 706	47 825	0	47 825	-
01.3	Used oils	H NH	1 786 1 203	1 776 1 896	52	1 548 598	176 1 285
01.4, 02, 03.1 01.4, 02, 03.1	Chemical wastes Chemical wastes	H	6 612	5 823	13 70	596 5 146	607
03.2^{3}	Industrial effluent sludges	NH	4 919	7 483	-	7 482	1
03.2 ³⁾	Industrial effluent sludges	Н	1 675	1 691	-	1 691	-
03.3 ³⁾	Sludges and liquid wastes from waste treatment	NH	1	52	-	52	-
03.3 ³⁾	Sludges and liquid wastes from waste treatment	н	37	34	-	34	-
05	Health care and biological wastes	NH	5	13	-	13	-
05	Health care and biological wastes	Н	2	0	-	0	-
06.1	Metallic wastes, ferrous	NH	71 279	60 464	3219	42 677	14 568
06.2	Metallic wastes, non-ferrous	NH	5 292	3 150	17	2 423	710
06.3 07.1	Metallic wastes, mixed Glass wastes	NH NH	4 916 8 494	3 776 22 990	39	3 460 22 990	277 0
07.1	Glass wastes	Н	0 494	22 990	-	22 990	0
07.2	Paper and cardboard wastes	NH	20 222	16 989	5	16 958	27
07.3	Rubber wastes	NH	1 907	1 331	639	647	44
07.4	Plastic wastes	NH	6 811	9 451	125	9 320	7
07.5	Wood wastes	NH	25 713	33 181	131	31 126	1 924
07.5	Wood wastes	Н	1 596	1 957	-	1 771	186
07.6	Textile wastes	NH	1 056	1 190	-	1 190	0
07.7	Waste containing PCB	Н	22	68	4	47	17
08	Discarded equipment	NH	1 263	526	2	234	290
08	Discarded equipment	H NH	264	646 114	15 43	345 66	286
08.1 08.1	Discarded vehicles Discarded vehicles	Н	1 196 12	114	43	8	4 10
08.41	Batteries and accumulators wastes	NH	10	110	3	8	100
08.41	Batteries and accumulators wastes	Н	324	2 649	25	2 569	55
09.1	Animal and mixed food waste	NH	19 706	15 616	-	15 408	207
09.2	Vegetal wastes	NH	194 804	180 931	-	180 931	0
09.3	Animal faeces, urine and manure	NH	10 008	1 179	-	1 179	-
10.1	Household and similar wastes	NH	21 006	20 761	216	19 962	583
10.2	Mixed and undifferentiated materials	NH	217 022	366 737	255	366 424	58
10.2	Mixed and undifferentiated materials	H	44	745	3	734	8
10.3 10.3	Sorting residues	NH H	260 11	2 427	-	2 427	-
10.3 11 ³⁾	Sorting residues Common sludges	NH	1 391	681	- 1	680	-
12.1	Mineral waste from construction and demolition	NH	3 026	2 247	501	472	1 275
12.1	Mineral waste from construction and demolition	H	146	81	-	71	11
12.2, 12.3, 12.5	Other mineral wastes	NH	15 476 461	28 910 603	28 778 063	132 454	86
12.2, 12.3, 12.5	Other mineral wastes	Н	11 063 421	12 700 906	12 699 612	1 226	68
12.4	Combustion wastes	NH	6 373 094		31 229	185 116	6 332 027
12.4	Combustion wastes	Н	2 349	4 049	11	4 038	-
12.6	Soils	NH	2 551	3 461	-	2 691	770
12.6	Soils	H	2	1	-	1	0
12.7 ³⁾ 12.7 ³⁾	Dredging spoils	NH L	3 923	3 641	3 641	-	-
12.1	Dredging spoils Mineral waste from waste treatment and stabilised	Н	-	-	-	-	-
12.8, 13	waste	NH	432	-	-	-	-
·	Mineral waste from waste treatment and stabilised						
12.8, 13	waste	Н	1	3	-	3	-

¹⁾ H - Hazardous / NH - Non hazardous. ² According to Commission Regulation No 849/2010 ³⁾ Sludges (*EWC*-Stat categories 03.2, 03.3, 11 and 12.7) in dry weight.

SERB166 ZS60 290612

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	2010	Waste trea	ated, 2011	
	2010	total	of which: hazardous	
Used principally as a fuel or other means to generate energy Incineration on land Recovery	25 981 1 028	24 817 4 874	1 172 698	
Recycling ¹⁾ Backfilling	568 221	764 753	90 026	
Deposit into or onto land (e.g. landfill) Other disposal	32 457 095 13 491	47 785 864 105 005	12 711 059 44	

¹⁾ Also include waste received from other enterprises and exclude waste internally recycling from industrial activities.

Explanatory notes

Industrial waste data for 2011 were collected in regular statistical survey, which covered all enterprises with 10 and more employees, the principal activity of these being defined in sections Mining and Quarrying, Manufacturing, Electricity, Gas, Steam and Air Conditioning Supply, i.e. in sections from 05 to 35 of the Classification of Activities 2010.

Data are collected by reporting method and regarding the geographical aspect, the survey encompasses enterprises that perform their activities on the whole territory of the Republic of Serbia. Since 1999, the Statistical Office of the Republic of Serbia does not have available certain data for AP Kosovo and Metohia, and thus are not included in the data for the Republic of Serbia (total).

Data have been collected on the basis of the Waste Catalogue¹.

Waste refers here to materials that are not prime products (i.e. products produced for the market) for which the generator has no further use for own purpose of production, transformation or consumption, and which he discards, or intends or is required to discard.

Hazardous waste means waste which displays one or more of the hazardous properties listed in Annex III; Framework Directive on waste (WFD).

Non-hazardous waste is the waste that has no characteristics of hazardous waste.

Treatment means the physical, thermal, chemical or biological processes, including sorting, that change the characteristics of the waste in order to reduce its volume or hazardous nature, facilitate its handling or enhance recovery.

Recovery means any operation the principal result of which is waste serving a useful purpose by replacing other materials which would otherwise have been used to fulfill a particular function, or waste being prepared to fulfill that function, in the plant or in the wider economy.

Recycling means any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes. It includes the reprocessing of organic material but does not include energy recovery and the reprocessing into materials that are to be used as fuels or for backfilling operations.

Incineration is a thermal treatment of waste in a stationary or mobile facility with or without the use of energy produced by combustion, which primary purpose is waste thermal treatment and which covers pyrolisis, gasification and combustion in plasma.

Disposal means any operation which is not recovery even where the operation has as a secondary consequence the reclamation of substances or energy.

Changes in data for 2010, compared to the Statistical Release ZS60 of 30.06.2011, have occurred as a result of changes in methodology. More detailed methodologies are available on the website of the Office: http://webrzs.stat.gov.rs/WebSite/Public/PageView.aspx?pKey=201.

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¹⁾ Rulebook on categories, testing and classification of waste ("Official Gazette of RS" No. 56/10)