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Water use and protection against pollution in the Republic of Serbia, 2012

– Preliminary results –

The data represent the preliminary results of the Survey on water use and protection against pollution in the Republic of Serbia in 2012. The tables present data on abstracted, used, discharged, reused water from industry as well as water losses.

In 2012, water abstraction was by 9.5% increased relative to 2011, whereof, 7.1% more ground and spring water was abstracted and 9.5% more surface water.

Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available certain data relative to AP Kosovo and Metohia and therefore these data are not included in the coverage for the Republic of Serbia (total).

1. Abstracted, used, discharged, reused water from industry and water losses from industry, 2010–2012

Republic of Serbia

 mill. m³

	2010	2011	2012
Abstracted water¹⁾	232 257	155 904	170 698
From public water supply	18	19	20
From self-supply	232 239	155 885	170 678
From ground and spring water	31	28	30
From surface water	232 208	155 857	170 648
Water losses	-	-	2
Water use	232 257	155 904	170 696
For production	232 247	155 893	170 684
Flowing water in hydropower plants	229 114	152 423	167 630
For cooling purposes ²⁾	3 032	3 368	2 951
Recirculated water	-	-	2
Water in technological process	48	48	52
As a raw material	10	10	10
For other purposes	53	55	51
For sanitary use	10	11	12
Discharged water³⁾	3 134	3 446	3 046
Wastewater	102	78	95
Cooling water	3 032	3 368	2 951
Treated water	165	136	119
Reused water	-	-	1

¹⁾ Water used for hydropower plants is included.

²⁾ Included are all waters for cooling purposes in electricity production and other technological processes.

³⁾ Water used for hydropower plants is excluded.

Of the total 3 067 446 thous. m³ of abstracted waters, 99.4% are from self-supply (surface water - 98.4%, ground water - 1.0%) and 0.6% is from public water supply.

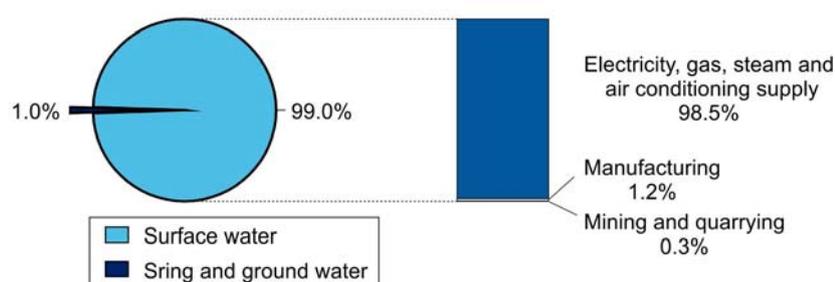
The following divisions are particularly marked: Electricity, gas, steam and air conditioning supply, Manufacture of basic metals, Manufacture of food products and Manufacture of chemicals and chemical products that abstract and use 98.6% of the total water quantity.

2. Water abstraction from industries, by type of supply system, 2012

Republic of Serbia		thous. m ³		
	Total	From public water supply	Self-supply	
			Ground water	Surface water
Abstracted water¹⁾	3 067 446	19 555	30 007	3 017 884
Mining and quarrying	11 297	891	2 339	8 067
Manufacturing	78 128	16 398	24 691	37 039
Electricity, gas , steam and air conditioning supply	2 978 021	2 266	2 977	2 972 778
Water intensive industries	3 025 587	8 411	17 093	3 000 083
Electricity, gas , steam and air conditioning supply	2 978 021	2 266	2 977	2 972 778
Manufacture of basic metals	21 475	1 381	717	19 377
Manufacture of food products	17 341	2 526	12 434	2 381
Manufacture of chemicals and chemical products	8 750	2 238	965	5 547

¹⁾ Water used for hydropower plants, which is not included in this table, in 2012 amounted 167 630 mill. m³.

Graph 1 - Abstracted water from industry in the Republic of Serbia, by type of supply system, 2012



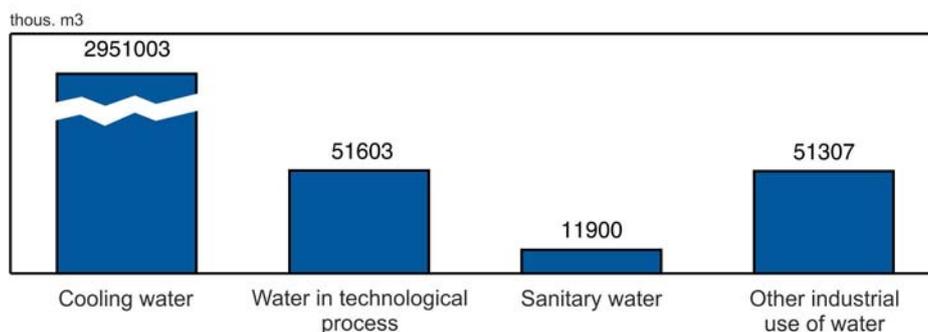
Out of the total used water in industries, 97.1% refers to water used in sections Electricity, gas, steam and air conditioning supply, 2.5% to water used in Manufacturing, while 0.4% relates to water used in Mining and quarrying.

3. Water use in industry, by type of use, 2012

Republic of Serbia		thous. m ³					
	Total water use in industry	Cooling water for electricity generation	Other cooling water	Water in technological process	Sanitary water	Other industrial use of water	Water losses
Water use¹⁾	3 065 813	2 929 346	21 657	51 603	11 900	51 307	1 633
Mining and quarrying	10 933	0	205	8 378	1 469	881	364
Manufacturing industry	76 870	73	20 680	35 079	8 658	12 380	1 258
Electricity, gas, steam and air conditioning supply	2 978 010	2 929 273	772	8 146	1 773	38 046	11
Water intensive industries	3 024 458	2 929 338	19 026	26 612	4 862	44 620	1 129
Electricity, gas, steam and air conditioning supply	2 978 010	2 929 273	772	8 146	1 773	38 046	11
Manufacture of basic metals	20 510	-	14 499	4 857	928	226	965
Manufacture of food products	17 188	65	2 157	8 107	1 345	5 514	153
Manufacture of chemicals and chemical products	8 750	-	1 598	5 502	816	834	-

¹⁾ Water used for hydropower plants, which are not included in this table, in 2012 amounted to 167 630 mill. m³.

Graph 2 – Water use in industry in the Republic of Serbia, by type of use, 2012



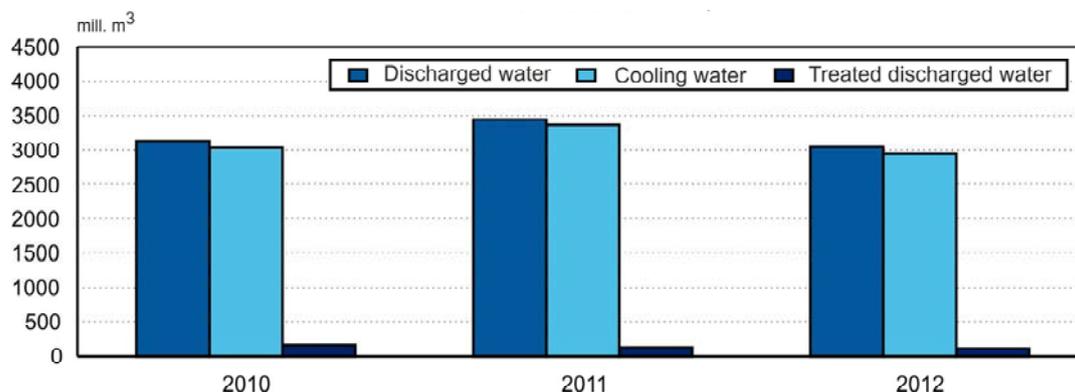
Of the total discharged wastewater from industry, 45.7% comes from section Electricity, gas, steam and air conditioning supply, 48.7% from Manufacturing and 5.6% from Mining and quarrying.

4. Discharged¹⁾ water form industry, 2012

Republic of Serbia		thous. m ³		
	Укупно	Испуштене воде, од тога:		
		за хлађење	рециркулационе воде	отпадне воде
Discharged water	3 046 166	2 951 003	215	95 163
Mining and quarrying	5 546	205	-	5 341
Manufacturing industry	67 121	20 753	23	46 368
Electricity, gas, steam and air conditioning supply	2 973 499	2 930 045	192	43 454
Water intensive industries	3 014 351	2 948 364	200	65 987
Electricity, gas, steam and air conditioning supply	2 973 499	2 930 045	192	43 454
Manufacture of basic metals	19 485	14 499	-	4 986
Manufacture of food products	15 493	2 222	8	13 271
Manufacture of chemicals and chemical products	5 874	1 598	-	4 276

¹⁾ In total discharged water, water used for hydropower plants are not included.

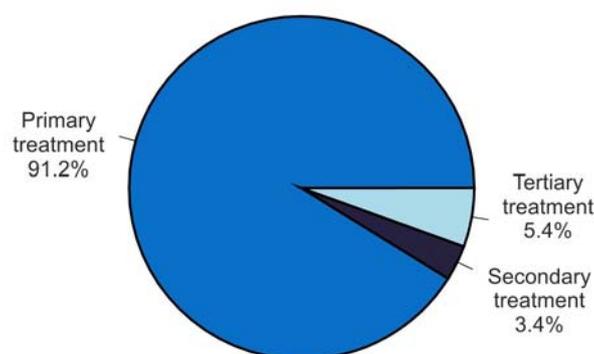
Graph 3 – Total discharged and treated water from industry in the Republic of Serbia, 2012



5. Treated and reused water from industry, 2012

Republic of Serbia					thous. m ³
	Treated discharged water				Reused water
	Total	Primary treatment	Secondary treatment	Tertiary treatment	
Treated and reused water	118 953	108 508	3 985	6 460	966
Mining and quarrying	3 564	1 566	1 998	-	2
Manufacturing industry	38 016	30 070	1 486	6 460	100
Electricity, gas, steam and air conditioning supply	77 373	76 872	501	-	864
Water intensive industries	106 769	101 135	1 701	3 933	871
Electricity, gas, steam and air conditioning supply	77 373	76 872	501	-	864
Manufacture of basic metals	14 275	13 431	2	842	-
Manufacture of food products	8 510	5 776	1 050	1 684	1
Manufacture of paper and paper products	4 605	4 555	-	50	6
Manufacture of chemicals and chemical products	2 006	501	148	1 357	-

Graph 4. Treated discharged water in the Republic of Serbia, by type of treatment, 2012.



Methodological notes

Methodological explanations on Water use and protection against pollution can be found on the SORS website: <http://webrzs.stat.gov.rs/WebSite/Public/PageView.aspx?pKey=201>
 Data series on Water use and protection against pollution from the reference year 2002 are available within the SORS database: <http://webrzs.stat.gov.rs/WebSite/public/ReportView.aspx>, and as a part of the SORS publications: <http://webrzs.stat.gov.rs/WebSite/Public/PageView.aspx?pKey=200>.

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