

# STATISTICAL RELEASE

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**Environmental statistics**

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## Water use and protection against pollution in the Republic of Serbia, 2010

### – Preliminary results –

The Statistical Release contains selected statistical data on waters use and protection against pollution in 2010. The tables present data on abstracted, used and wastewater quantities from industry.

Of the total 3 854 646 thous. m<sup>3</sup> of abstracted waters, 99.53% are from self-supply (surface water - 98.72%, ground water - 0.81%) and 0.47% 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 99.0% of the total water quantity.

### 1. Water abstraction from industries, by type of supply system, 2010

	From public water supply thous. m <sup>3</sup>	Self-supply, thous. m <sup>3</sup>		Total, thous. m <sup>3</sup>
		Ground water	Surface water	
<b>Republic Serbia<sup>1)</sup></b>	<b>18 064</b>	<b>31 317</b>	<b>3 805 265</b>	<b>3 854 646</b>
Mining and quarrying	1 046	1 411	7 551	10 008
Manufacturing	14 780	26 963	57 193	98 936
Electricity, gas, steam and air conditioning supply	2 238	2 943	3 740 521	3 745 702
<b>Water intensive industries</b>	<b>7 890</b>	<b>19 311</b>	<b>3 789 011</b>	<b>3 816 212</b>
Electricity, gas, steam and air conditioning supply	2 238	2 943	3 740 521	3 745 702
Manufacture of basic metals	1 781	879	39 190	41 850
Manufacture of food products	3 133	13 070	2 048	18 251
Manufacture of chemicals and chemical products	738	2 419	7 252	10 409

<sup>1)</sup> Water used for hydropower plants in 2010 amounted to 338 437 mill. m<sup>3</sup>.

Out of the total used water in industries, 0,26% relates to water used in mining and quarrying, 2.57% to water used in manufacturing, while 97.17% refers to water used in electricity, gas, steam and air conditioning supply.

### 2. Water use in industry, by type of use, 2010

	Cooling water for electricity generation, thous. m <sup>3</sup>	Other cooling water, thous. m <sup>3</sup>	Process water, thous. m <sup>3</sup>	Sanitary water, thous. m <sup>3</sup>	Other industrial use of water, thous. m <sup>3</sup>	Total water use in industry, thous. m <sup>3</sup>
<b>Republic Serbia<sup>1)</sup></b>	<b>2 986 319</b>	<b>756 757</b>	<b>48 032</b>	<b>10 475</b>	<b>53 063</b>	<b>3 854 646</b>
Mining and quarrying	-	219	7 755	1 522	512	10 008
Manufacturing industry	253	45 069	32 589	7 080	13 945	98 936
Electricity, gas, steam and air conditioning supply	2 986 066	711 469	7 688	1 873	38 606	3 745 702
<b>Water intensive industries</b>	<b>2 986 319</b>	<b>753 374</b>	<b>25 381</b>	<b>4 707</b>	<b>46 431</b>	<b>3 816 212</b>
Electricity, gas, steam and air conditioning supply	2 986 066	711 469	7 688	1 873	38 606	3 745 702
Manufacture of basic metals	-	35 539	4 976	1 147	188	41 850
Manufacture of food products	105	4 447	6 430	1 181	6 088	18 251
Manufacture of chemicals and chemical products	148	1 919	6 287	506	1 549	10 409

<sup>1)</sup> Water used for hydropower plants in 2010 amounted to 338 437 mill. m<sup>3</sup>.

Of the total 3 118 925 thous. m<sup>3</sup> of industrial wastewaters, 99.14% come from several divisions (electricity, gas, steam and air conditioning supply, manufacture of basic metals, manufacture of food products and manufacture of chemicals and chemical products) which are the largest consumers of water, and the remaining 0.86% come from mining and quarrying and other divisions of manufacturing.

The share of treated waters in total wastewater discharged from industry in 2010 amounted to 5.22%.

### 3. Wastewater from industry, 2010

	Treated wastewater, thous. m <sup>3</sup>	Total discharged wastewater, thous. m <sup>3</sup>	Percent of treated water in total discharged water by industrial activity divisions that water comes from
<b>Republic Serbia<sup>1)</sup></b>	<b>162 883</b>	<b>3 118 925</b>	<b>5.22</b>
Mining and quarrying	2 686	4 679	57.41
Manufacturing industry	56 569	85 022	66.53
Electricity, gas, steam and air conditioning supply	103 628	3 029 224	3.42
<b>Water intensive industries</b>	<b>150 752</b>	<b>3 092 225</b>	<b>4.88</b>
Electricity, gas, steam and air conditioning supply	103 628	3 029 224	3.42
Manufacture of basic metals	33 651	38 717	86.92
Manufacture of food products	9 116	16 594	54.94
Manufacture of chemicals and chemical products	4 357	7 690	56.66

<sup>1)</sup> In water used for hydropower plants are not included wastewater.

### Methodological notes

The survey on industry use and protection of waters against pollution involves all enterprises with 10 and more employees, with the main activity related to the sections of mining and quarrying, manufacturing and electricity, gas, steam and air conditioning supply, i.e. the divisions 05-35 of the Classification of Activities (2010).

Data are collected by the reporting method and regarding the geographical aspect, the survey encompasses enterprises that perform their activities on the whole territory of the Republic of Serbia. Starting from 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).

*Ground water* relates to water stocks found beneath the earth's surface.

*Surface water* refers to all running or stagnant waters on the earth's surface, meaning lakes, streams, rivers (waterways), recipients, etc, as well as artificial waterways including irrigation, industrial and navigation canals, drainage systems and so on.

*Self-supply* involves every water abstraction by users for their final consumption.

*Used water* covers all waters supplied to the reporting units and used by them for performing their activities.

*Wastewater* is water which is, after use, treated as wastewater and transported to treatment plant or let out into recipient (underground or surface water). Wastewater quantities do not include atmospheric water and water used for hydropower plants.

*Treated wastewater* refers to all wastewaters treated by primary, secondary or tertiary method during the reporting year.

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