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Water use and protection against pollution in the industry 2017

The release comprises selected statistical data on captured and used water from the industry in 2017.

Of the total 1 942 065 thousands m³ of captured water, there are 1 941 308 thousands m³ of water from the own water supply system (surface water 99.9%, underground water 0.1%), and 757 thousands m³ from the public water supply.

Specially pointed out are the following areas of activity: Electricity, gas, steam and air-conditioning supply; Manufacture of basic metals and fabricated metal products, except machinery and equipment; Manufacture of food products, beverages and tobacco products and other manufacturing, and repair and installation of machinery and equipment, which capture and use 99.9% of the total water quantity.

Of the total water used in the industry, there is 99.8% of water used in sector Electricity, gas and steam supply, air-conditioning, while there are 0.2% of water used in sectors Mining and Manufacturing.

Of the total industrial waste water, there are 77.2% from Manufacturing sector, and the rest 22.8% are from Mining and Electricity, gas and steam supply, and air-conditioning supply.

The total quantity of used water in 2017 compared with 2016 decreased by 28.1%.

Table 1. Volume of water for industry by abstraction, 2017

in thousands m³

	From the own water supply system	From the public water supply system	Total
Mining	541.0	42.0	583.0
Manufacturing	3 175.0	640.0	3 815.0
Electricity, gas, steam and air-conditioning supply	1 937 592.0	75.0	1 937 667.0
Total	**1 941 308.0**	**757.0**	**1 942 065.0**

Table 2. Areas of activity with the highest capture, 2017

in thousands m³

	From the own water supply system	From the public water supply system	Total
Electricity, gas, steam and air-conditioning supply	1 937 592.0	75.0	**1 937 667.0**
Manufacture of basic metals and fabricated metal products, except machinery and equipment	2 768.0	22.0	**2 790.0**
Manufacture of food products, beverages and tobacco products	317.0	504.0	**821.0**
Mining	541.0	42.0	**583.0**

Table 3. Water used in industry by purpose, 2017

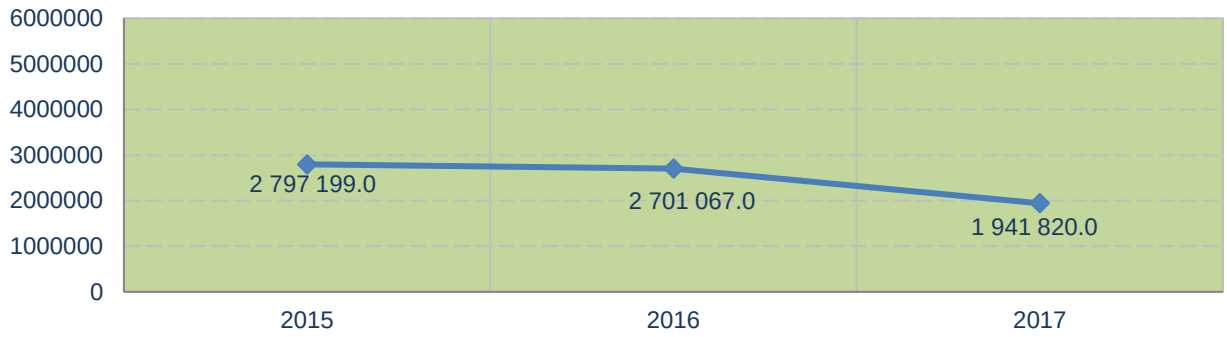
in thousands m³

	For technological process	For sanitary needs	For other purposes	Total
Mining	547.0	16.0	20.0	**583.0**
Manufacturing	3 041.0	438.0	91.0	**3 570.0**
Electricity, gas, steam and air-conditioning supply	1 936 914.0	25.0	728.0	**1 937 667.0**
Total	**1 940 502.0**	**479.0**	**839.0**	**1 941 820.0**

Table 4. Waste water from industry, 2017

	Total waste water[1] in thousands m³	Share of waste water by activity areas in %
Mining	199.0	4.7
Manufacturing	3 232.0	77.2
Electricity, gas, steam and air-conditioning supply	757.0	18.1
Total	**4 188.0**	**100.0**

Graph 1. Use of water in industry 2015-2017 (in thousands m³)



[1] Running waters excluded (as for HE power stations, etc.).

METHODOLOGICAL NOTES

The report on use and protection of water against the pollution in the industry is submitted by the reporting method at the annual level.

The purpose of this survey is to collect the data on the quantities of captured, used and discharged water within the industry.

The reporting units are business entities with ten and more employees whose main activity is classified according to the Classification of Activities 2010 in sectors: Mining, Manufacturing and Electricity Supply.

Data sources are accounting and other records, and documents possessed by a reporting unit. If there are no adequate documents and records for certain data, a person with appropriate expertise performs the assessment.

Water used is all quantities of water supplied to reporting units, and which were used in production activity during the reporting unit.

The own water supply system is every supply of water by the side of users for their final consumption.

Waste water is water treated as the waste after being used, and transported to purification plants, or drained out (underground water, surface waters). Waste water quantities do not include atmospheric or running waters (used for hydroelectric power stations).

Purified waste water is the quantity of waste water purified during the reporting year.

Surface water is all water running or stagnant at the surface of Earth. It includes springs, rivers, lakes, reservoirs, etc., as well as artificially made channels for the purposes of irrigation, waterways, and similar.

Underground water is the water resource in underground formations.

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