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Water use and protection against pollution in the industry 2016

The release comprises selected statistical data on captured, used and waste water from the industry in 2016.

Of the total 2 702 338 thousands m³ of captured water, there are 2 701 377 thousands m³ of water from the own water supply system (surface water 99.8%, underground water 0.2%), and 961 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 99.9% of water used in sector Electricity, gas and steam supply, air-conditioning, while there are 0.1% of water used in sectors Mining and Manufacturing.

Of the total industrial waste water, there are 81.7% from Manufacturing sector, and the rest 18.3% are from Mining and Electricity, gas and steam supply, and air-conditioning supply.

The total quantity of used water in 2016 compared with 2015 decreased by 3.4%.

Table 1. Volume of water for industry by abstraction, 2016

in thousands m³

	From the own water supply system	From the public water supply system	Total
Mining	532	35	**567**
Manufacturing	4 836	858	**5 694**
Electricity, gas, steam and air-conditioning supply	2 696 009	68	**2 696 077**
Total	**2 701 377**	**961**	**2 702 338**

Table 2. Areas of activity with the highest capture, 2016

in thousands m³

	From the own water supply system	From the public water supply system	**Total**
Electricity, gas, steam and air-conditioning supply	2 696 009	68	**2 696 077**
Manufacture of basic metals and fabricated metal products, except machinery and equipment	4 444	67	**4 511**
Manufacture of food products, beverages and tobacco products	314	662	**976**
Mining	532	35	**567**

Table 3. Water used in industry by purpose, 2016

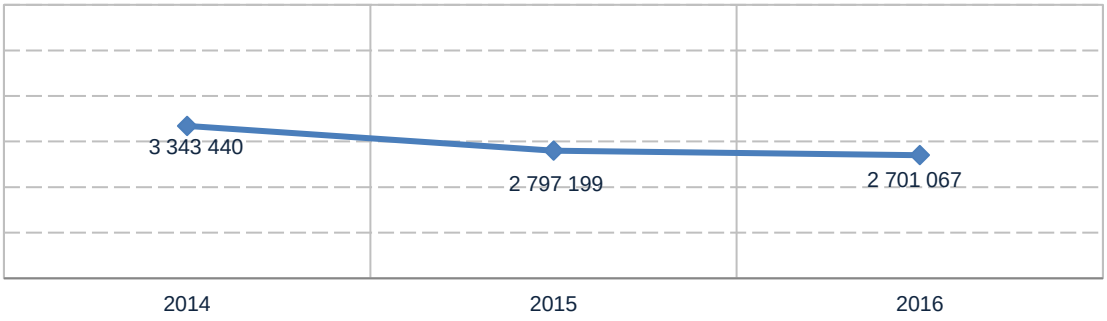
in thousands m³

	For technological process	For sanitary needs	For other purposes	**Total**
Mining	528	16	23	**567**
Manufacturing	3 686	645	92	**4 423**
Electricity, gas, steam and air-conditioning supply	2 695 092	61	924	**2 696 077**
Total	**2 699 306**	**722**	**1 039**	**2 701 067**

Table 4. Waste water from industry, 2016

	Total waste water[1] in thousands m³	Share of waste water by activity areas in %
Mining	195	3.0
Manufacturing	5 295	81.7
Electricity, gas, steam and air-conditioning supply	989	15.3
Total	**6 479**	**100**

Graph 1. Use of water in industry 2014-2016 (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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