

# Slovakia reservoir storage monitoring system

What is the history of small water reservoirs in Slovakia?

The history of small water reservoirs (SWRs) in Slovakia is simple and short. It is very similar to the history of irrigation in this country, because the reservoirs are part of the irrigation system. Slovakia is located in a region where the snow melts from March to May, depending on the weather.

What is the water utilization situation in Slovakia?

Slovakia is situated in the region of river distribution between the Black Sea and the Baltic Sea. Its natural characteristics create conditions in which most of the water from precipitation is subject to outflow. The water utilization situation in Slovakia also depends on the variable characteristics of water in time and space.

What is the surface area of a reservoir in Slovakia?

The total water surface area of all SWRs in Slovakia is 2,102 ha, and the average surface area is 11.24 ha per reservoir. The width of the dam crest is also significant. In Slovakia, 18 SWRs have a dam crest width of less than 3 m. Most of the reservoirs have a dam crest width of 3 to 4 m.

Identifying, laboratory testing and modelling of the suitable geological objects in Slovakia for hydrogen storage, depending on specific geological conditions as well as the amount of hydrogen mixed with the natural gas

The monitoring of hydrological balance components has a long tradition in Slovakia. The number of stations for monitoring the flow of water has varied and there has been an increasing trend in recent years (2001, 391 stations; 2016, 416 stations).

Decree of the Ministry of Health of the Slovak Republic no. 91/2023, Coll., which establishes the indicators and limit values of drinking water quality and hot water quality, the procedure for monitoring drinking water, risk management of the drinking water supply system and risk management of domestic distribution systems,

Pumped storage plants with peaking hydro power are able to cover outfalls of other sources of energy; they help to take over sudden changes of energy demand and also render regulation services - thus assuring the stability of the electricity system and the quality of energy produced in Slovakia.

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Therefore, accurate monitoring of the current state and dynamics of siltation processes is critical to maintaining their economic, environmental, and societal functions. This study presents a simple method to evaluate the sedimentation rate of a ...

Information on small reservoir storage is crucial for water management in a river basin. However, it is most of the time not freely available in remote, ungauged, or conflict-torn areas. We propose a novel approach using satellite imagery information only to quantitatively estimate storage variations in such inaccessible areas.

Through successfully implementing monitoring systems across the world, we have the experience and expertise to tackle reservoir storage monitoring projects both big and small. Take a few moments to learn how a solution from MS can provide valuable insights about your infrastructure.

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