



Modernisation of the Nysa Reservoir

Data and facts

Company	PORR S.A. (leader), Metrostav A.S.
Type	Hydraulic engineering & harbours
Runtime	01.2013 - 05.2016
Principal	Regional Water Management Authority in Wrocław

[Project report online](#)

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Taming an element – modernisation of the Nysa reservoir.

The modernisation was one of Poland's most spectacular ventures and most complicated hydrotechnical investments to be executed in recent years, both in terms of technological and logistical aspects. The works were carried out on an operating reservoir while maintaining the waterflow. The high complexity of the Nysa project necessitated, among others, to manage and coordinate works with multiple stakeholder connections – both inside and outside of the main project and subprojects. The latter were supervised by independent subproject managers.

The reservoir in Nysa is counted among as a first class hydrotechnical building structure covering an area of 3,253 km². The reservoir's flooding surface is about 2,080 ha with a capacity of 123 million m³. It is protected from the basin onwards by a frontal flood protection dam in the shape of a horseshoe with the following parameters: height 13.6 m, width in the crown 5 m, length more than 5 km. The sluice structure consists of a 4-span segmental concrete weir. Its segments can be closed one by one, and inside the weir's pillars two power turbines were installed.

[More insights can be seen in the video](#)

Impressions



Image notes

1

Operational building on the premises of the flood protection reservoir in Nysa.

The modernisation of the Nysa reservoir is a key project for increasing flood safety in the south of Poland.

2

Water discharge structure at the reservoir in Nysa.

As part of the project, the water discharge structure of the frontal dam of the Nysa Reservoir was reconstructed and a new bridge and footbridge were built. The automatic control system, the signalling and the visual control system were modernised as well.

3

Flood protection infrastructure from the Nysa Reservoir modernisation project.

The modernisation project improved the management of the reservoir facilities. The automation of the control system now allows to monitor and control facility operations remotely in the riverbed below the Nysa flood protection dam.

4

Water Reservoir Nysa.

The reservoir in Nysa spans an area of 2,000 ha and holds more than 120 million m³ of water. It is of supraregional significance and has an essential impact on residents' flood safety.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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