

Improving sewerage system operations for Italy

Establishing a real-time decision support system for the 'Orientale Goriziano' area

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Reduction of wastewater spillway



Energy savings and costs reduction



Improved efficiency of the wastewater treatment plant

Challenge

Our client needed to reduce environmental pressure on the receiving water – mainly the River Isonzo and Panzano Bay – due to releases from the existing sewerage network and wastewater treatment plants, as well as to reduce management costs. They wanted to implement a solution for a revamp of the water systems. Furthermore, there was also a need for compliance with regulatory constraints.

Solution

Implementing a real-time decision support platform for the management and optimisation of the water volume in the sewerage system.

Solution highlights

The platform is based on MIKE Powered by DHI's MIKE OPERATIONS and is mainly composed of:

- a central database for data storing
- a web interface for data and results publication; and
- an expert graphical user interface for the configuration of an advance management of the system

This solution was completed in partnership with Sistemi Territoriali.

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'Our ambition was to establish a real-time system for monitoring the sewage network and the treatment plant. We are impressed by the solution that achieved the objective of simulating and forecasting rainfall events to optimise runoff management.'

Pierpaolo Braidotti
Engineer, IrisAcqua S.r.l.



Contact: mike@dhigroup.com



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