

# REAL TIME CONTROL SYSTEM FOR THE SEWER NETWORK OF DRESDEN

## Assignment

In order to meet all legal requirements relative to water protection of the city of Dresden, an integrated sewer control system is being implemented.



The implementation is divided in three parts of the city: Dresden-East (up to the storm water basin Johannstadt), Dresden-West (up to the wwtp) and Dresden-North (up to the wwtp).

In the areas of Dresden-East and -North, control structures and -measurement points are already existent and largely integrated into the control system operation.

The last section to be included before commissioning is Dresden-West.

Within the scope of the project, three control areas are to be joined and the existing regulatory concepts are to be adjusted and verified accordingly.

The main focus is on the coordination and adjustment of the control systems in relation to the interface between sewer system and waste water treatment plant with its storm water overflow basin.



## Scope

- Adapting the simulated control system to the real sewer system
- Matching interfaces between sewer system and waste water treatment plant
- Determining the flow sections for slide gates, depending on the gate position and water level
- Extension of the existing regulatory base in the control centre
- Adapting the interaction/communication modules in the control centre
- Setting up and support of the test phase
- Gradual commissioning of the monitored and automated control system
- Analysis of the control actions
- Optimisation of regulations and model adaptation
- Training of the staff members on the issuing of new operating regulations

## Short description

**Client** Stadtentwässerung Dresden GmbH

**Project period** 2007

**Fee** 89,000 €

### Characteristics

Controlled hydrodynamic simulation (Use of HYSTEM-EXTRAN)

Automated realisation of an integrated control system (Use of CONTROL)

**Project number** 40771

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