

# Wastewater Treatment Plant - Zagreb, Croatia

## Complete fire alarm system from Bosch



**BOSCH**

Invented for life

### Industry:

Critical Infrastructure

### End User:

#### Wastewater treatment plant

This project is a first for a wastewater treatment plant in Croatia. For the city of Zagreb, it allows for adaptation and compliance with the European Union's environmental standards in the field of environmental protection and biological water purification.

The Homeland Bridge, a brand new four-lane bridge over the Sava River, was also built as an essential part of this project.

### Business Objective:

The most important objective for this project was employee safety, as well as the safety of the entire plant. Therefore, reconstruction and expansion of the old system was carried out.

The plant consists of dozens of buildings divided into several groups: mechanical treatment, biological treatment, and treatment of sludge.

The main challenge was to implement different fire alarm systems into one wholly integrated system. It was also necessary to connect the Bosch fire alarm system installed in a remote plant location.

### Solution:

The Bosch solution consists of five UEZ2000 fire alarm systems connected via fiber optics over the SRT network, one FPA5000 fire alarm network, and one BZ500 fire alarm system in a remote location.

Given the plant's complexity, several areas where a risk of explosion exists are also especially protected. At the specific request of the client, GSM fire alerts as well as the termination alerts for each fire alarm were installed in each facility.

All events from the Bosch fire alarm systems are monitored in the 24-hour control room within the plant (fire, battery faults, main power fault for each fire control panel, etc.).

This plant is the one of the few which is protected by different generations of Bosch fire alarm systems at the same time.

**"Bosch Security Systems proved to be an excellent and reliable solution for the protection of such a complex plant; all of our high safety requirements have been fulfilled."**

**Mr. Hannes Schweitzer**

**SHW/RWE Umwelt Aqua Vodogradnja Ltd.**



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### Customer Benefit:

All peripheral elements are compatible with all generations of Bosch fire alarm control panels. This means that the customer will not be at a disadvantage in the future due to technological progress, such as a need to replace existing fire panels with newer generations.

Due to the extreme reliability of the Bosch systems, the client experiences long-term financial savings because service is kept to a minimum.

An essential detail for the user is the fact that there are no false fire alarms due to the use of the 420 Series of Bosch Fire Detectors. Integration of all Bosch systems into an existing monitoring system increases safety to a higher level.

### Key Success Factors:

- High system reliability
- Financial advantages
- Unique technical, service features
- Product quality
- Brand image

### Installed by:

**Fidens alarm Ltd.**

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