

Zagreb

Croatia



In April 2004 WTE signed the contract for design, detail engineering, construction, commissioning, financing and operational management of the waste water treatment plant for the City of Zagreb.

Phase 1 included mechanical treatment stage, Phase 2 - design and construction of the biological waste water and the anaerobic sludge treatment stage.

Technical details

With the use of biological process technology, no additional chemicals are required to achieve the necessary reductions.

Project key figures

Start of operation April 2004

Operation WTE 28 years

WWTP key figures

PE 1,500,000

Max. m³/h 906,960

Average m³/d 488,160

Main Collection Pipeline 5,0 km

Chemical and biological parameters

	Influent	Effluent
BOD ₅	203 mg/l	≤ 25 mg/l
COD	433 mg/l	≤ 125 mg/l
TSS	308 mg/l	≤ 35 mg/l
Total P	10 mg/l	n.a.
Total N	45 mg/l	n.a.

As a result of increasing ecological requests and the legal requirement to reduce water impurities, especially in the Sava River, the City of Zagreb and Croatian Waters have put out to tender the Central Waste Water Treatment Plant Zagreb (CWWTP Zagreb) BOT Project. This environmental protection project is one of the greatest challenges in environmental protection in Europe.

Furthermore the following additional performances have been implemented:

- Construction of 4-lane Domovinski Bridge over the Sava river,
- Construction of the road connection for the bridge and the access roads for the waste water treatment plant.

