

# WWTP Varna

**Name of Employer:** Hydrostroy AD

**Taking Over:** 2015

**Address:** Andrei Saharov Str. 1  
9000 Varna  
Bulgaria



## Capacity of the plant:

**Hydraulic Load:** Q average, day = 85 400 m<sup>3</sup>/d

**Equivalent Population:** 360 000 PE

**Methods/Technology:** Mechanical pre-treatment, full biological treatment with activated sludge, including nitrogen and phosphorous removal, further chemical sedimentation of phosphorus using FeCl<sub>3</sub>, mechanical and gravitational sludge thickening of the excess activated sludge, anaerobic stabilization through anaerobic digesters, dewatering of the anaerobic stabilized sludge, heat and electrical power generation from biogas

## Scope of Performance:

Production, delivery and installation (supervision) of huge range of technological equipment, as penstocks with electrical and manual drives, rack separator of wastewater flow, longitude bridges for sand traps, scraper bridges and outflow channels with weirs for primary sedimentation tanks, screw conveyors for flotsam collection, sludge suction bridges and outflow channels with weirs for secondary sedimentation tanks, scraper bridges for sludge thickeners, disintegrators for cavitation of the excess activated sludge, spiral sludge heating system, biogas equipments as anaerobic digester gas hood, fine filter, over and under pressure valve.

