

# Ataköy/Istanbul

## Turkey



In 2007, following an international tender, WTE Wassertechnik GmbH was awarded the contract to build the WWTP Ataköy near to the airport of the metropolis Istanbul.

Together with its local construction partners, WTE completed the WWTP Ataköy in summer 2010. In addition to the turnkey construction of the new plant, the project also comprises operation management for a further five years period. The plant is one of the largest waste water treatment plants in Turkey.

# Technical details

The plant is equipped with a fully automatic control system, thereby allowing optimisation of manpower requirements for supervisory and operating personnel.

## Project key figures

Commissioning    November 2009

Operation WTE    5 years

## WWTP key figures

PE                    1,950 Mio.

Max. m<sup>3</sup>/h        21,250

Average m<sup>3</sup>/d    510,000

## Chemical and biological parameters

|                  | Influent     | Effluent   |
|------------------|--------------|------------|
| BOD <sub>5</sub> | 117.000 kg/d | ≤ 25 mg/l  |
| COD              | 234.000 kg/d | ≤ 125 mg/l |
| TS               | 195.000kg/d  | ≤ 35 mg/l  |
| TN               | 23.400 kg/d  | ≤ 10 mg/l  |
| TP               | 3.120 kg/d   | ≤ 3 mg/l   |

The WWTP Ataköy employs state-of-the-art technology and features a performance which is even better than the strict EU standards. The treated effluent can be used for irrigation purposes and as a result of its efficient design and the fact that most of the energy from the biogas generated is utilised by means of gas turbine, the plant also minimises energy consumption.

Operating safety is assured by an overall three-stream layout of the biological stage. The biological treatment is fully maintained even with only one biological section.

