

# ODOUR

## ODOUR REMOVAL SYSTEMS FOR KARŞIYAKA, BAYRAKLI, ÇIĞLI VE GÜMRÜK WASTEWATER PUMPING STATIONS



### Location

İzmir

### Client

İzmir Water and  
Wastewater Administration

### Date

10/2017-03/2018

### Financing

İzmir Water and  
Wastewater Administration  
(İZSU)

### Cost

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### Project Description:

The wastewater generated in İzmir is pumped to Çiğli Wastewater Treatment Plant by means of huge Gümrük, Bayraklı, Karşıyaka and Çiğli wastewater pumping stations. The H<sub>2</sub>S, ammonium and mercaptan in the wastewater cause discomfortable odour for the residents living around the pumping stations. For this reason, 3-stage (serial) wet scrubbers and additional dry scrubbers as polishing units are designed for each pumping stations. The capacities of Karşıyaka, Bayraklı, Gümrük and Çiğli odour removal units will be 66.000 m<sup>3</sup>/hour, 66.000 m<sup>3</sup>/hour, 23.000 m<sup>3</sup>/hour and 132.000 m<sup>3</sup>/hour respectively. In design of odour removal the inlet maximum and average odour concentrations are assumed at 120 ppm<sub>v</sub> and 60 ppm<sub>v</sub> respectively and outlet concentration is assumed at 0.1 ppm<sub>v</sub>.

### Scope of Services:

- Process design,
- Preparation of implementation design,
- Preparation of tender documents.