



alpha bio

WASTEWATER INNOVATION

Application of the bioaugmentation technology in the industrial WWTP of Komotini, Greece

The industrial WWTP of Komotini is processing wastewater from local industries (dairy, brewery, paper industries etc.). Due to the unstable influent characteristics and the low dissolved oxygen levels in the aeration tanks, bio-augmentation was a key solution for the stable plant operation. After the implementation, effluent COD dropped under 50 mg/L and TSS under 10 mg/L in the effluent. Also, SVI has reduced far below the typical values for activated sludge systems (≈ 150 mL/g) reaching 95 mL/g, in average, while dewatered sludge production was significantly reduced. The total operational cost has been also reduced, due to major cuts in sludge disposal, less usage of thickening chemicals and less electricity consumption for blowers and decanter operation.

