



Uniqa reduces the lifting costs in Israel

Situation

Hadera is an Israeli city founded in 1891 by few farmers' families. Nowadays it is an important commercial center that counts more than 77.000 inhabitants.

The Hadera municipality needed to replace at the local municipal wastewater treatment plant the old and no longer efficient submersible pumps, B-WATER units in operation since 25 years, whose production has been discontinued since. The pumps' task was to lift the civil wastewater to the treatment plant.

The municipality of Hadera asked us to manage the substitution of their pumps with a contemporary and more efficient water solution.

Solution

In cooperation with our partners in Israel from MADAN Technologies we have supplied three Zenit Uniqa pumps, selected for the duty point of 1.000 m3/h at 10 meters head.

Depending on the service required, each Uniqa comprises of a motor-hydraulics combination chosen to provide optimal performance at the specific duty point.

The old B-WATER units had been equipped with 55 kW motors and had a rather poor hydraulic efficiency with 60% only. In comparison, by supplying the new Uniqa Series pumps we have improved the hydraulic efficiency by 15 points to 75%.

Benefits

Thanks to the strong local support and professional service provided by MADAN Technologies, we have helped the customer to save 11 kW/hour of energy costs.

Calculated for the entire year it means, only for energy costs, a saving of more than € 6.000/year (5.500 hours of operation/year x € 0.10/kWh energy cost).

As a consequence, both the Hadera wastewater treatment plant operator, and the municipality are very satisfied.

With the Zenit solution they could cut down the running costs, thanks to the premium energy efficiency and low maintenance costs, while the reliability and quality of Zenit Uniqa Series pumps has reduced drastically the risk of system stoppages and undesirable downtime.



Installation phases



The Hadera wastewater treatment plant

Customer	Hadera municipality				
Company Profile	Municipality				
Location	Hadera	Country	Israel	Area	Asia
Application	Civil wastewaters lifting				
Installed Products	ZUG OC300B 45.6 AW 405 x 3				
Date	January, 2019				