



Zenit UNIQA for a cutting-edge waste water treatment facility

water solutions

ENERGY EFFICIENCY IN A CUTTING-EDGE WASTE WATER TREATMENT FACILITY IN ITALY

Situation

The Borghetto Santo Spirito waste water treatment facility collects some 30,000 cubic meters of waste water a day from 90,000 homes near the famous seaside resort on the Ligurian coast.

The facility is known for its cutting-edge waste water treatment technology and its perfect integration into the environment. As part of a pilot project of the European Community, the waste water treatment facility aims at achieving energy self-sufficiency but also at generating renewable energy to be supplied back to the grid.

The local water cycle manager Servizi Ambientali S.p.A. called us to select the electric pumps needed to lift and boost the domestic waste water from collection station at zero level to the treatment plant located at about 60 meters above sea level. The main requirement was simple: energy efficiency.

Solution

Zenit Group technicians studied the best solution for lifting and boosting waste water in a plant in which the prerogative was energy efficiency.

The high-efficiency Premium (IE3) UNIQA Series was the natural choice. In particular, they chose a Zenit UNIQA 160kW DRY channel model. UNIQA electric pumps are designed for heavy-duty professional use. This makes them perfect for conveying waste water containing solid matter.

The UNIQA electric pumps are all equipped with independent hydraulic circuit cooling jacket, which allows continuous operation in S1 Service conditions even when they are partially immersed or even totally uncovered.

Benefits

The energy efficiency of the Borghetto Santo Spirito waste water treatment facility was increased by installing UNIQA pumps. The main characteristic of the UNIQA range is being always designed on the basis of the performance specifications required by the customer. Each model is equipped with a unique combination of motor and hydraulics to achieve optimal working point performance, low energy consumption and high reliability by using the materials most suited for the application type.

The local integrated water cycle managers are very satisfied by the performance of the UNIQA Series pumps and the benefits of efficient water cycle management for citizens and the surrounding environment.



The waste water treatment facility



Pre installation phases



The installation of Zenit UNIQA in the sump

Customer	Local municipality				
Company Profile	Integrated services				
Location	Borghetto Santo Spirito	Country	Italy	Area	Europe
Application	Civil application				
Installed Products	Zenit UNIQA 160kW DRY channel model				
Date	September, 2018				