

Energy cost savings of EUR 13,000 per year

With the new Grundfos CR booster pumps, ZPW2 Grenzland Süd-Ost / Bad Gleichenberg water works can achieve energy savings of up to 30%.

THE SITUATION

Bad Gleichenberg is situated at the foot of the Gleichenberger Kogel in the middle of 40 volcano hills and cones. Its mineral springs were already used by the Romans - this was proved by the discovery of the „Roman fountain“ in the year 1845.

The pumping station ZPW2 Grenzland Süd-Ost delivers, on average, 100,000 m³ water per month to the surrounding housing estates, spa hotels and business enterprises. The yearly demand of water is in the area of 1,100,000 m³.

THE GRUNDFOS SOLUTION

The water supply company decided to make an energy analysis, because the system had been in operation for 20 years. Grundfos has many years of experience in the field of measurements and control technology for hydraulic systems - so the Grundfos pump audit experts were therefore called in to perform the energy analysis. A system analysis was made at the water works by determination of flow and electric power consumption of each and every pump in operation, as well as the corresponding pressure ratio. The recorded measurements of the water works' pumps were compared against various benchmarks and best-in-class pumps.

THE OUTCOME

The result of the analysis showed that if the water supply company replaced the existing pumps with energy efficient Grundfos CR booster pumps, energy savings of up to 30%

TOPIC:
Energy optimisation

LOCATION:
Austria

COMPANY:
ZPW2 Grenzland Süd-Ost / Bad
Gleichenberg

were possible. The new Grundfos CR booster pumps are now in operation at the pumping system, delivering many years of trouble free operation and energy savings for the benefit of the water supply company - and for their customers. What is more, the payback time of the investment is only 15 months!

Note: Annual energy savings are based on 0.1€/kWh

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