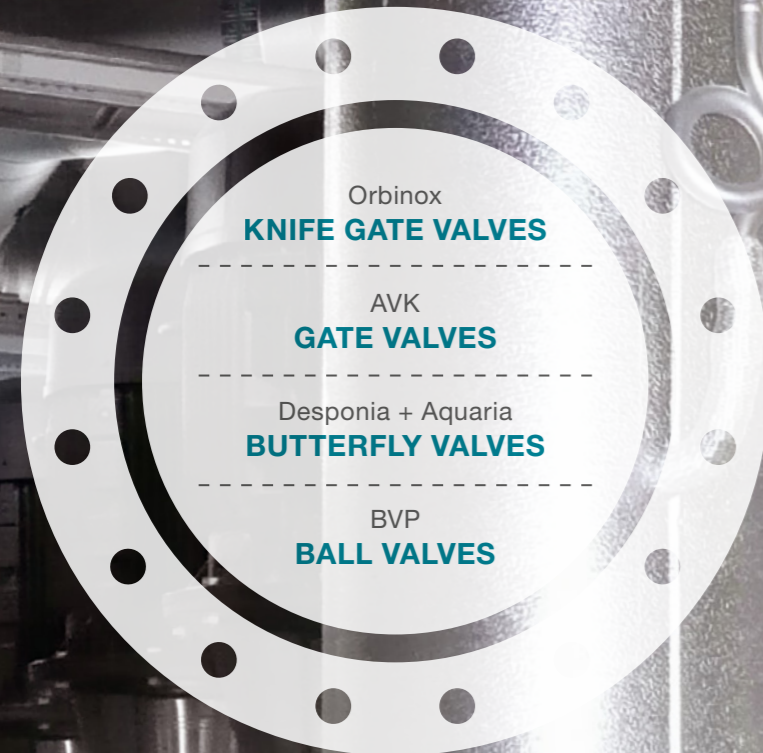





## Waste-fired combined heat and power plant Giubiasco / Switzerland

Efficient recycling and power generation thanks  
to InterApp



GRID FEED-IN  **100 GWh/year**

NOMINAL INCINERATION CAPACITY  **140,000 t/year**

COSTS  **331 million francs**

The days in which waste generated in Ticino was brought by rail to German-speaking Switzerland are over. The waste-fired combined heat and power plant in Giubiasco, which went into operation in 2009, is the most modern facility of its kind in Switzerland. This is due to the efficient waste recycling processes it uses to generate power for the district heating network, and due to the utilisation of reliable InterApp products.

A total of CHF 331 million was invested in the Giubiasco combined heat and power plant with the aim of enabling the canton of Ticino to recycle waste independently and making an important contribution to the region's energy supply. The plant's main task is to dispose of non-recyclable municipal waste, including sewage sludge, screenings and certain types of waste from the medical industry.

Thanks to smart investments, the Giubiasco combined heat and power plant now incinerates some 160,000 tonnes of waste per year. The flue gases are treated in a four-stage cleaning process consisting of an electrostatic precipitator, a three-stage scrubber, a catalyst and a tissue filter.

The steam turbine and generator in the plant generate 100 GWh of electrical energy per year, which is made available to the public energy grid. The residual heat from the steam – the energy of which was converted into electricity via the turbine – is fed into the district heating network using a heat exchanger. An entire region is thus able to profit from this

efficiency. The supply of alternative energy to industry, municipalities and private households will save around 5 million litres of heating oil per year in the future.

The fact that the waste disposal and power generation processes are environmentally friendly is proven by the impeccable air quality readings around the plant's two 55-metre-tall chimneys. Former Environmental Director Marco Borradori proudly reported that, following an extensive testing phase, "the Giubiasco waste incineration plant has been confirmed as one of the most modern and powerful facilities of its kind in Europe."

Furthermore, InterApp products, such as the knife gate, butterfly and ball valves used in the plant's heating and cooling circuits, will ensure that processes run reliably in the future. In addition, InterApp products will make an important contribution to the supply of the district heating network, which is set to be further expanded in the future.

InterApp is a subsidiary of the international AVK Group and develops, produces and distributes valves and valve systems. As a customer-focused technology and project management company, InterApp supplies the most innovative fluid technology solutions for the most sophisticated applications and industry sectors in the world.

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