



Blue Heat Recovery Operation

Keep the heat withing your company

- ✓ 90% less energy consumption
- ✓ 73% less heating costs
- ✓ 65% less CO₂ emissions
- ✓ Discharge of cold wastewater



BlueHero in operation

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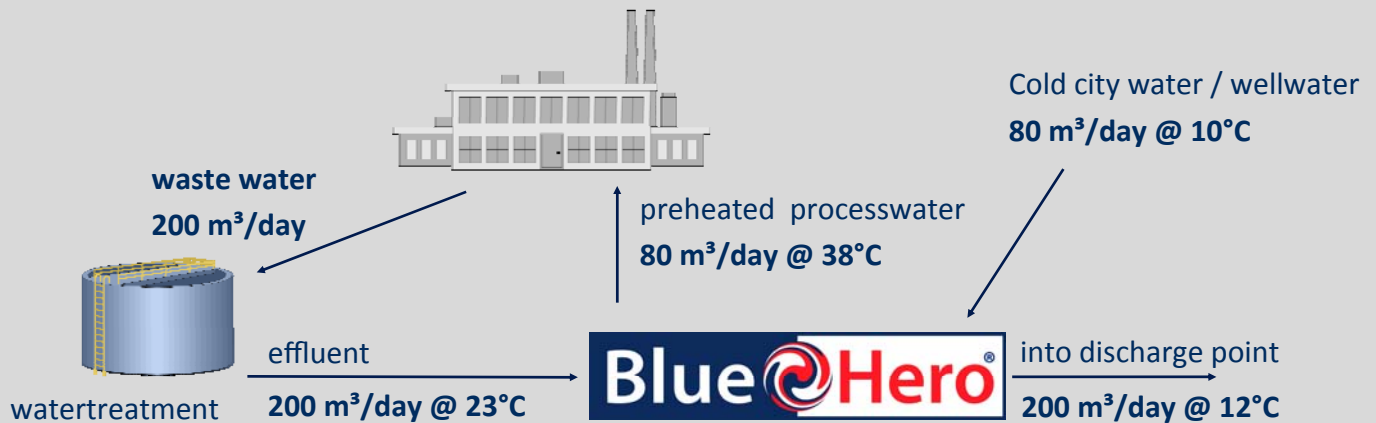
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WORKING PRINCIPLE :

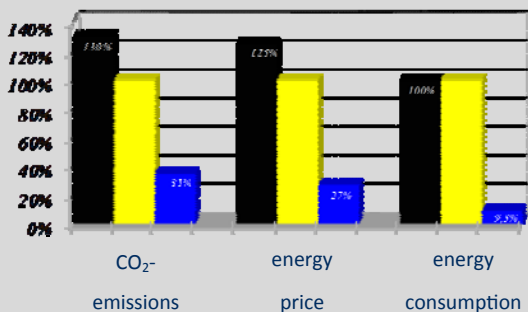
Blue@Hero extracts low grade heat from a waste water stream. Waste water is used as a sustainable energy source. The waste water is processed through the usual water treatment into a fully dischargeable effluent. From this effluent the thermal energy is recovered using a combination of heat exchangers and a heat pump.



CALCULATION EXAMPLE:

- Your company purifies 200 m³/day via your waste water treatment plant .
- From your treatment you discharge 200 m³/day at an average year temperature of 23°C.
- The heat of the wastewater** is recycled using heat exchangers and a heat pump in order **to preheat** 80 m³/day cold proceswater from 10°C to 38°C.
- On an annual basis (265 production days) you will save approximately **790.000 kWh/year** of energy.
- This results into a cost saving of **± €20.000 /year** (= 73%).
- You save **4x** more energy than your waste water treatment consumes
- PAY-BACK < 3 years.**

Comparison energy sources compared to gas



To heat 1m³ water with 8,6°C you need 10kWh of energy

Energiesour-	Quantity	Energy	CO2 emis-	Cost
Electricity	10 kWh el.	10 kWh	7,6 kg	€ 1,15
Heating oil	1 liter	10 kWh	2,6 kg	€ 0,50
Gas	1 m³	10 kWh	2,0 kg	€ 0,40
Blue@Hero	0,93 kWh el.	10 kWh	0,7 kg	€ 0,11