Heber Water Transfer – Rosegg

Application market	Construction
Market segment	Canal & Well Renovation
Pumped medium	River Water
Pump product	Heber 2000
Country	Austria

Challenge

During the renovation work on the stilling basin at the “Rosegg” power plant, 5’000 litres of river water per second had to be continuously discharged into the old arm of the “Drau” to prevent it from drying out and, in particular, to protect the flora and fauna. Due to the geographical location, the difference in height between the headwater and tailwater was significantly greater than would normally be the case for a siphon operation. A suitable solution had to be found for this tricky task.

Solution

Based on the **Heber 2000** water transfer system, two pipes with a nominal diameter of 1’000 millimetres and a length of 250 meters were constructed from steel pipes. The large geodetic height difference of 22 meters was overcome with the help of forced ventilation of the siphon line, but without an additional source pot. The pipeline was then aerated, allowing the water to continue to flow freely. An electrically controlled knife gate valve was used to ensure precise regulation of the flow rate for both pipes.

Benefits

Ensuring the required flow rate without taking too much water from the headwater.

- → The large pipe with free passage and no other obstructions allows fish and small creatures to pass through without any problems.
- → Thanks to the constant water level, the fish ladder in the course of the “Drau” also remained accessible, allowing larger fish to pass through at any time.

Quantity of units sold	2 pieces
Pump type	Heber 2000 – pipe diameter DN 1’000 mm, length 250 m
Motor data	not required
Material combination	Steel pipe system
Duty point	Flow : 2x 2’500 litres per second / Difference in water levels : 22 meter
In operation since	from February to May 2020 (rental period)