
Grundfos supplies responsible solution for Taiwanese water treatment

LAKE CHENGCHING, TAIWAN: Lake Chengching is one of the best known scenic spots in the Kaohsiung area, offering attractions such as the Lakeside Park, the Nine-Corner Bridge, and the Chungshing Pagoda. Very importantly, the lake also provides drinking water for the Kaohsiung region of Taiwan.

The quality of the drinking water was not sufficiently high, however, so a new Lake Chengching Water Treatment Plant project was launched in 2002. The objective of the project was to improve water quality in terms of colour, odour, and taste.

The final solution, delivered in 2003, demonstrates how a responsible solution can contribute to improving the well-being of the final recipient.

The Situation

After clarification, water from Lake Chengching is pumped into a pellet reactor for softening before being distributed to the end consumers. Softened water makes hair feel softer and smoother. It also preserves the life of appliances such as coffee makers and dishwashers.

The water intake at the main pumping station exceeds 20,000 m³ per hour or almost 6 m³ per second! Obviously, this demands serious pump performance.

In the initial design, the location of the intake openings would have caused less-than-perfect flow conditions for the pumps. Grundfos recommended a different solution to improve operating conditions. The intake openings were moved and enlarged in the new design.

TOPIC:

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LOCATION:

Taiwan

COMPANY:

LAKE CHENGCHING, TAIWAN

The Grundfos Solution

The pumping station comprises 10 submersible 80 kW pumps. The pumps are installed in separate tubes, and several of them use frequency converters to adapt to flow demands.

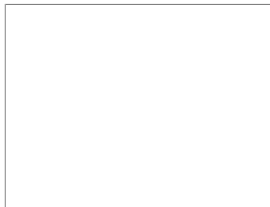
This means that when demand falls, so does pump output. The frequency converters thus ensure that no more energy is used than is necessary. Minimising energy consumption wherever possible is a hallmark of Grundfos, as we take our responsibility to the environment seriously.

Both the customer and Grundfos paid special attention to health and safety regulations and to protecting the environment. For example, the pumps use only non-toxic paint and vegetable oils to avoid any risk of contaminating the water. This benefits both the people who drink the water and the aquatic life found in the lake.

The Outcome

The customer has expressed full satisfaction with the solution. The pumps operate as promised, providing the Kaohsiung with better water while also protecting the beautiful Lake Chengching area.

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