WATER DISTRIBUTION:

A NEW LEVEL OF ENERGY EFFICIENCY

GRUNDFOS iSOLUTIONS

PUMP CLOUD SERVICES

WASSERVERBAND SÜDLICHES BURGENLAND (WVSB)

AUSTRIAN UTILITY: "WE DIDN'T BELIEVE ENERGY SAVINGS OF THIS SIZE WERE POSSIBLE"

When he saw the 'small' size of the new pressure-boosting pump from Grundfos, Managing Director Christian Portschy was sceptical. WVSB, the water utility of Southern Burgenland in Oberwart, had worked with Grundfos for many years – mainly in the submersible pumps area. Portschy heard Grundfos was field-testing a new 'extra-large' series of CR multistage pumps, which WVSB could use in its water booster supply application after sand filtration/ backwash to lift water into storage tanks. Grundfos suggested the new CR could do the same work with up to 30% more efficiency than the current solution. Portschy was interested but when he saw its size, he didn't think the CR-95 pump could provide the necessary pressure to ensure a safe, energy- and cost-efficient water supply to Oberwart's 50,000 residents. Are its power consumption readings correct? Is the small motor overloaded? Does the pump still run in its characteristic curve? Is it delivering 25 litres/second (l/s) – up to 8 l/s more than the old pumps?

UP TO 30%
ENERGY SAVINGS

m^2 REDUCED **FOOTPRINT**

REDUCED **OPEX**

NEW SYSTEM

For the water booster supply application after sand filtration/ backwash at WVSB, Grundfos supplied a CR-95 22 kW model from its new line of 'extra-large' series of CR multistage pumps. First measures revealed that for every litre per second delivered, the new Grundfos CR-95 used 689 W – versus 895 W from the old pumps. Further evaluations showed a maximum savings potential of 30%.

OUTCOME

- **GRUNDFOS CR-95 MULTISTAGE PUMPS RESULTED IN UP TO 30% LESS ENERGY USE**
- **NEW PUMP DELIVERS 25 LITRES/SECOND (L/S) – UP TO 8 L/S MORE THAN THE OLD PUMP**
- **GRUNDFOS PUMP REQUIRES SIGNIFICANTLY LESS SPACE**

FROM SCEPTICAL TO SURPRISED

Like Portschy, operators in WVSB's control room were also sceptical about the new Grundfos solution. But it didn't take long for the doubts to clear. "We've achieved huge energy savings with this one pump," says Portschy, explaining that the pump fits into the utility's own sustainability ambitions – which include solar energy supply on nearby building rooftops. With these 200 PV panels, the new pump and lower energy consumption, WVSB can now run important equipment in case of a power blackout. "Our goal for the future is to keep supplying water in a sustainable manner to the people in our area," adds Portschy. "I'm very proud that we've won a stage in our vision for the future, so we can supply future generations with this precious liquid at any time."

"With this new type of pump, Grundfos helps us realise our vision of supplying water sustainably to the people in our area."

Christian Portschy
Managing Director, WVSB

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