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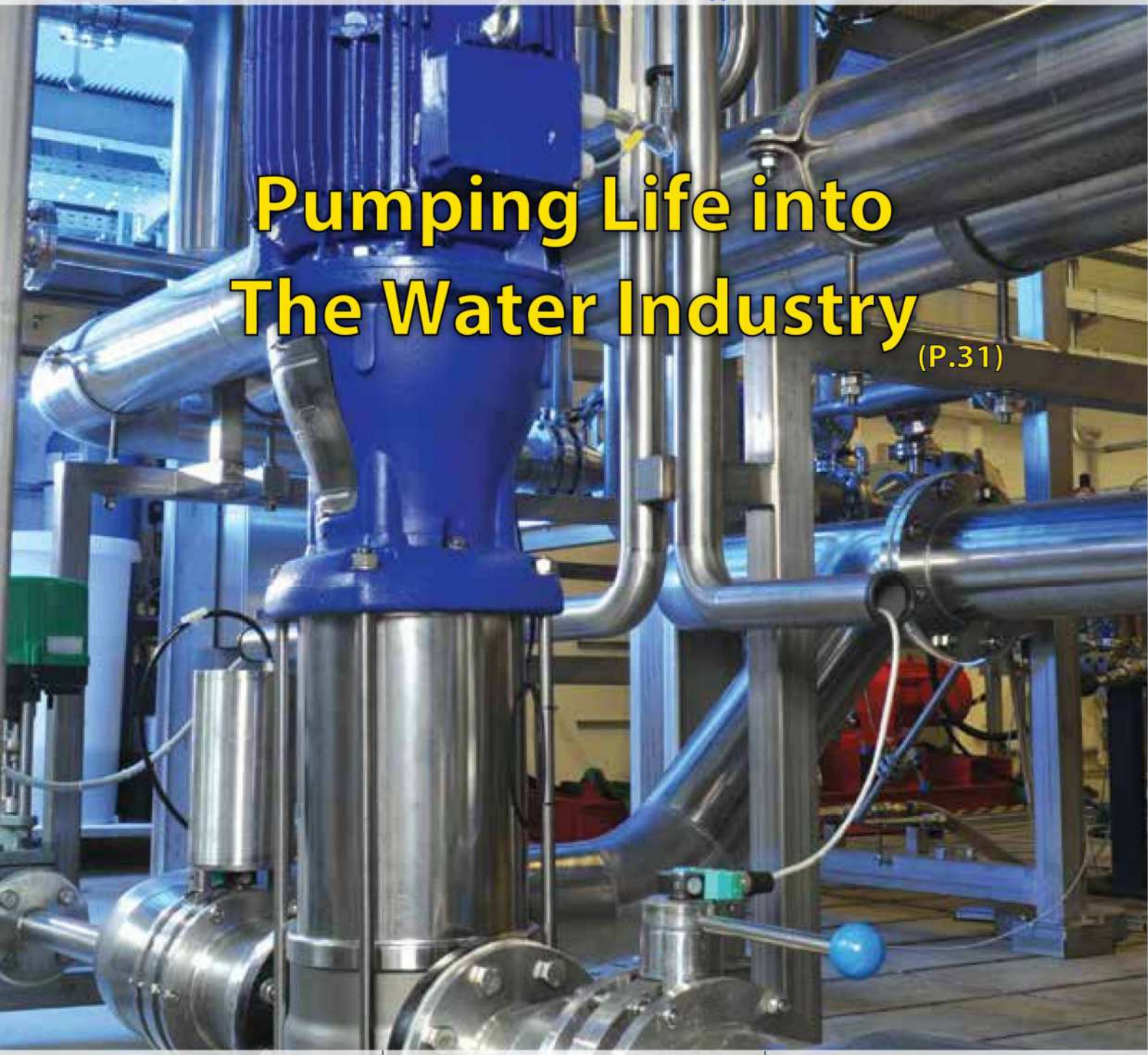

Pumping Life into The Water Industry

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Nuclear Desalination:
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World's 37 Most
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Coping with Water Scarcity
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New Control Generation: GEA Westfalia Separator IO

The new control generation GEA Westfalia Separator IO reduces complexity and focuses on user-friendliness. Accordingly, the initial consideration when developing the human machine interface was not what the implemented logical controller or the centrifuge are able to do; instead, the focus was on what the user needs, either the operator, the commissioner or the company's own service engineer. Who needs what information and functionalities in which situation and what is not required, or in short: user-friendliness. This was the motto of the developers at **GEA Westfalia Separator Group** when they started to develop the new IO control. For the customer, this has enormous benefits: operating personnel are quickly able to understand and handle the control units of the centrifuge, the familiarization is relatively short. This increases flexibility in production. The reliability of the production processes also improves because, if the system only displays what the user needs, the error potential declines automatically. The equation is simple: the fewer the buttons, the lower the probability to hit the wrong one. However, this does not mean that the new generation of control units has less functionality. It is the user guidance facility which has been consistently reduced to the essentials to make sure that the user is not consistently overloaded with useless options or information. The benefit for the customer is that the wide range of functionalities is now available in a much more intuitive manner. ■

GEA Westfalia Separator IO reduces complexity and focuses on user-friendliness

Xylem Cuts WWT Plant's Annual Costs

Xylem Inc. has reduced the energy consumption of a wastewater treatment plant in Italy by 65 percent. According to a comparison study conducted by **Comopedur** which operates the plant, Xylem's Flygt 4530 submersible mixers have saved €50,000 (USD69,155) in annual operational costs at the facility. Xylem advised that the existing mixers be replaced with the new, mid-size energy efficient Flygt 4530 model. A submersible mixer featuring a robust, high-efficiency propeller of 1.2 meters in diameter, the Flygt 4530 is specifically designed for biological wastewater treatment applications. The new mixers consume 175,000 kWh of energy annually, a 65 percent reduction on the 500,000 kWh the old mixers required to operate. Due to the very positive energy and cost savings Comodepur has ordered an additional three Flygt 4530 mixers to replace mixers in another equalization tank that they operate. ■

Flygt mixer 4530

Epuramat's Innovative ExSep®

Epuramat's key product is the ExSep®, a highly efficient patented technology for solid-liquid separation. This primary treatment solution is based on gravity and fluid dynamics, and requires no energy as well as no chemicals in most applications. It is scalable from 0,5 m^3/h to more than 200 m^3/h and can be used for a wide range of municipal and industrial wastewaters with separation efficiency up to 99%. Subsequent treatment steps are relieved and can be designed in smaller scale. Furthermore, the standard version of ExSep® can be designed in ISO shipping container frame to allow easier transport and implementation. For industrial applications, it takes over the complete primary treatment and allows companies with high demand for fresh water to reuse their own purified process water and save expenses. In the municipal field, ExSep® can be used as pre-treatment solution to relieve overloaded municipal wastewater treatment plants, allowing capacity increase with low space or construction time and cost issues. ■

The ExSep®

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Serving the Water, Wastewater, Desalination & Energy Sectors in MENA Since 1977

Epuramat's key product is the ExSep®, a highly efficient patented technology for solid-liquid separation. Apart from the different applications of this innovation, the ExSep® is also used in Box4Water, a complete, turn-key, compact and mobile wastewater treatment plant, fully integrated in a standard container: buffer tank, primary treatment (by ExSep®), biological treatment (Membrane Bio-Reactor) and sludge dewatering device. This system is available in different sizes and allows treating 12,5 to 120 m^3/day (60 to 600 PE). These containerized wastewater treatment plants are in particular largely implemented in Canada, where the regulations for wastewater discharge are the most exigent, and where they are used on remote working camps.