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Norit Haffmans sells first CO₂ injection system for a desalination plant in China

Norit Haffmans is supplying a carbon dioxide (CO₂) injection system to a desalination plant in the Caofeidian Industrial Zone near the city of Tangshang, 220 km from Beijing. Aqualyng Norway and Hangzhou Water Technology Development Center Co Ltd is constructing the 50,000 m³/d seawater reverse osmosis (SWRO) plant. Commissioning is scheduled for June this year.

“This is a great accomplishment for our company,” said Olaf Müller, Managing Director Norit Haffmans. “Our expertise in CO₂ & O₂ management and gas treatment technologies from the brewing industry has helped us to move into new markets, including desalination for drinking water.”

Norit Haffmans’ CO₂ dosing and injection system will add CO₂ to the permeate flow during the post treatment process. Water leaving the RO membranes is carbonized so that it can dissolve the minerals at the calcite filters. This process is required to convert RO water into potable water.

A side stream carbonation system, Norit Haffmans’ CCR, is part of the package. This technology doses the CO₂ into the water to adjust (decrease) the pH value and allow the calcium ion to re-create some hardness and alkalinity in the water as required by the World Health Organization standards.

In the SWRO process, post treatment stabilizes the water so it meets the relevant standards and/or guidelines. Carbon dioxide is an ideal solution for this purpose as it is a non-toxic, non-hazardous additive to potable water. Norit Haffmans CO₂ technologies, know-how and insights are specifically geared towards providing a safe, environmentally friendly and efficient solution to improve the water quality in the desalination process.

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About Norit Haffmans

Norit Haffmans, based in the Netherlands and part of the Norit Group, develops and manufactures quality control and process equipment to both recover and manage carbon dioxide and to upgrade biogas. As a world market leader, Norit Haffmans offers a competitive range of components, systems and solutions to breweries, beverage producers, wineries, distilleries, and the bio-fuels industry.