



Pretreatment with DOW™ Ultrafiltration Helps to Save Water at Jumeirah Beach Hotel



In 2009 Jumeirah Beach Hotel installed a treatment system using DOW™ Ultrafiltration technology with a capacity of 750 m³/d, to polish the treated municipal sewage effluent water. The system was designed to eliminate odor, suspended solids and bacteria so that the treated water was safe for irrigation and use near hotel guests and staff. By using treated sewage effluent (TSE) water from Dubai municipality for gardens and landscaping, the Jumeirah Beach Hotel implemented a very cost effective solution that saves on energy consumption and reduces its global footprint. Using TSE water helps conserve increasingly scarce and expensive water resources efficiently, responsibly and intelligently, and offers important economical benefit by creating a new use for lower cost municipal sewage effluent water. These benefits can be realized for the environment and for all of Jumeirah staff working towards a greener Dubai.

Fast Facts

Country:	United Arab Emirates
OEM:	Veolia
Membrane Type:	DOW™ Ultrafiltration SFP 2860
Total # of Elements:	22
Number of Trains:	1
Plant Capacity:	750 m³/day
Product Quality:	Bacteria Free, Turbidity less than 0.2NTU
Pretreatment:	Auto Self Cleaning Filter

Performance

TSS and Turbidity varied between less than 5 mg/L and 0.2 NTU accordingly. The treatment system using DOW™ Ultrafiltration technology produces bacteria-free water at a quality and flow according to the UAE limits derived for Irrigation Water (TSE) from the "Environment Standards and allowable limits for Pollutants and Air-Environment"