



DuPont™ FilmTec™ at Australia's First Large-scale Desalination Plant in Perth

The challenge

Climate change and population growth have taken a significant toll on potable water supplies in Perth, Western Australia. Located south of Perth, the Perth Seawater Desalination Plant was the first largest seawater desalination plant when constructed at that time in the southern hemisphere.

The solution

Since 2006, the plant has consistently delivered safe, reliable and high quality drinking water, which accounts for about 17% of Perth's water supply. Around 18,000 DuPont FilmTec™ reverse osmosis (RO) elements were installed and now play a vital role in securing long-term water supply for local residents.

The benefits

Since commissioning the installation, the plant operates at a recovery rate of 45% for the first pass seawater RO, and 90% for the second pass brackish water RO. The well-maintained membranes have been operating since 2006 without replacement and consistently demonstrate excellent operating performance, reliability and durability.

Fast Facts

Location: Perth, Australia

Technology: Reverse Osmosis

Products: DuPont FilmTec™ SWRO & BWRO

End-user: Water Corporation

Water Type: Seawater

Total # of elements: 17,976

Plant capacity: 6,042 m³/h= 145 ML/d
[38 MGD]

Feed water quality: 37,000 ppm TDS, SDI<5

Product water quality: <200 ppm TDS,
<0.1 ppm Br

Temperature range: 14-26 °C

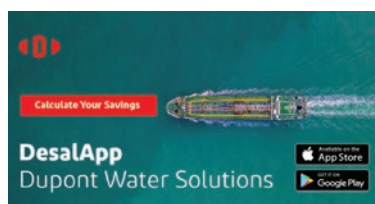
Pretreatment: Dual media filters

Start-up date: 2006

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