



The Palmachim Desalination Plant in Israel



Aerial view of the Palmachim Desalination Plant in Israel



Filtralite® Pure increased production at Palmachim desalination plant

THE FACTS:

- Raw water salinity : 39 g/L
- Raw water temperature : 16-32°C
- Need to increase production by 50%

In 2009, the Palmachim Desalination plant in Israel planned to increase the production capacity by 50 %.

After a series of pilot trials it was decided that Filtralite® Pure was to be installed in the pre-treatment filters. In 2010 Leca Norge AS delivered Filtralite® Pure to the dual media pre-treatment filters. This was the first full scale desalination plant in Israel to use Filtralite® Pure.

The installation of Filtralite® Pure in the dual media filters shows that the production capacity could be increased by 50 % without building new filters.

When Filtralite® Pure was installed, they could increase filtration velocity from 7 m/h to 12 m/h. Runtime between back-washes increased from 30 hours to 200 hours and biofouling of the RO membranes was reduced. Silt density index ~2.0, sometimes as low as 1.5. In the past they used Cartridge of 20 microns and those were changed every month. Now Palmachim uses Cartridge filters of 5 microns and the Cartridges filters are changed twice a year. Savings for the Cartridge filters only amounts to 300.000 €/year, with total savings of millions of Euros.