

Al Bashair BWRO Desalination

Modern Water was awarded the Al Bashair Farm brackish water desalination plant contract in August 2016. The contract scope included a skid-mounted 100m³/day AquaPak brackish water reverse osmosis unit, installation supervision, commissioning and client operator training as well as ongoing operational support and maintenance.

Project Description

Located between Adam and Nizwa in the interior of the Sultanate of Oman, Al-Bashair Farm covers an area of 3.1km² and employs 200 staff. The main crops are dates, citrus fruit, mangos and vegetables.

This is the second brackish water reverse osmosis desalination plant that Modern Water has supplied to the Farm, the first having been supplied in 2011, still operating today.

The well water quality on the farm is deteriorating over time due to the level of extraction and the permeate water from the desalination plants is blended with the well water to ensure that the salinity of the irrigation water is kept below the required limits for the crops, thereby maximising crop yield.

The plant supplied by Modern Water; a skid mounted 100m³/day AquaPak brackish water desalination plant, has semi-automatic controls for ease of operation. The equipment used on the plant comes from industry-standard suppliers including Grundfos, Danfoss, Pentair, Filmtec and G+F.

The plant was installed by the farm's maintenance staff under the supervision of a Modern Water commissioning engineer, who then commissioned the plant and provided operator training. The plant was in full operation within two weeks of delivery to site.

Key Facts

- Country - Oman
- Client - Al Bashair Farm



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