

WAIV Commercial Pilot in Ketziot Desalination Plant

The BWRO (Brackish Water Reverse Osmosis) plant was established in 2002, producing 8,600 m³/d of water for both drinking and irrigation purposes.

Intake water is sourced from 2 drillings conducted in Kadesh Barne'a area.

The plant supplies water to nearby communities, military facilities and farms.

Brine disposal method used in the plant is evaporation ponds (90 acre with additional 40 acre under planning). Under the framework of Watech (Entrepreneurship & Partnership Center for Water Technologies), Mekorot supports new innovative water technologies solutions which are relevant to the daily operation of the company, Hence, WAIV technology was selected to proof feasibility as an enhanced evaporation system that will eventually replace the land intensive evaporation ponds. Lesico and Mekorot have signed a beta site agreement under which the WAIV technology will be tested for 6 months in Ketziot. Successful outcome of the pilot unit will pave the way for WAIV to be implemented in many of the inland desalination facilities in Israel.



Evaporation Ponds in Ketziot desalination plant