

ED Pilot plant for brine volume reduction at GAT BWRO desalination plant

Lesico CleanTech, in partnership with Ben Gurion University and Mekorot-Israel's national water company, is currently developing a new designed Electro-Dialysis stack that will enable the company to transfer the reverse osmosis rejected waste into a highly concentrated solution, approximately 15% solid, reducing the waste volume many-fold. The **ED unit** will later on combine in a large treatment scheme minimizing concentrate volumes further treated by the WAIV - a state-of-the-art enhanced evaporation technology that was introduced to the market during 2007.

The objective of the R&D program is to develop a novel stack for Electrodialysis, based on sealed modules and new ion-exchange membranes. This innovation will reduce investments in equipment, will save desalting energy by reducing pumping power requirements, and improves operation and maintenance. Inland desalting and brine volume reduction are two important examples of promising industrial applications.



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