Seawater desalination (RO) as a wind powered industrial process — Technical and economical specifics

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ABSTRACT
Already today wind power offers low and long-term stable costs of energy and therefore is able to compete with large scale conventional power generation. Using wind power directly for energy intensive industrial processes requires an optimized hybrid configuration as well as a balanced load and/or energy management. The technical and economical specifics for wind powered seawater desalination with reverse osmosis as a completely integrated solution are presented and emphasize its capability and potential to be implemented in medium and large scale within the next few years.

Keywords: Seawater desalination; Reverse osmosis; Wind power; Load management; SYNWATER®