

[Performance Evaluation of SWRO Desalination Plant at Skikda \(Algeria\)](#)

Authors

F Ammour, R Chekroud, S Houli, A Kettab

Publication date

2018

Book

Exergy for A Better Environment and Improved Sustainability 2

Pages

1131-1138

Publisher

Springer, Cham

Description

Facing the major problem of water shortage, desalination is a strategic option for Algeria, which has implemented an ambitious program of desalination of seawater with a production capacity of 2260 million m³ (Metiche, Desalin Water Treat 14: 259–264, 2010).

The desalination plant at Skikda, with a capacity of 100,000 m³/day, was initially operated in 2009 and is part of a large program that includes 13 seawater reverse osmosis desalination plants, with various capacities.

However, the construction of desalination plants is inevitably associated with an environmental catastrophe caused by the vast discharge of brine and chemical reagents used in desalination (Ammour, F., Lounes, S., Houli, S., Kettab, A.: Environmental impact of desalination plant of Bou Smail (Algeria), 13th International Conference on Clean Energy, 2014, Fernandez-Torquemada et al., Desalination 182: 395–402, 2005