

## Relevance in the Water-Energy-Food nexus: an Opportunity for Promoting Socio Economic Development in Algeria

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**Abstract :** Water resources in Algeria are scarce, often low quality, fragile, and unevenly distributed in space and time. The pressure on water resources can be associated with industrial development, a steady population growth, and demanding land irrigation measures. These conditions create a tense competition for managing water resources and sharing them between agricultural development, drinking water supply, industrial activities, etc. Moreover, the impact of climate change has placed in the forefront national policies focused on the water-energy-food nexus (WEF). In this context, desalination membrane technologies could play an increasing role for supporting segments of the Algerian economy that are heavily water-dependent. By implementing water reuse and desalination strategies together in the agricultural sector, there is an opportunity to expand the access to healthy food and clean water, thereby keeping the WEF nexus effects under control.

**Keywords :** desalination, mitigation, climate change, sustainable development goals

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