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The Nexus Approach in Water, Food and Energy: Implemented Cases from Algeriat

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In Algeria, water resources are limited and often of low quality, fragile and unevenly distributed in space and time. Industrial development, population growth, and irrigation requirements are exasperating pressure on water resources by generating competition for water between agriculture, drinking water, and other uses. As for the future impact of climate change on the water-energy-food (WEF) nexus, the climate change is placing increasing stress on this nexus. Desalination technologies could play an increasing role in the country's linkages between water, food, and energy and contribute to the national economy. Demand for desalination will likely grow in the country due to limiting water resources and even changing preferences for food and consumption in general. The water reuse and desalination in agriculture also offer an opportunity to expand significantly implementing WEF nexus integration when meeting health standards, thus providing access to healthy foods and a subsequent way allowing stakeholders to optimize their water supply resources. Even though desalination can ensure efficiency and sustainability of the water, food, and energy nexus and mitigate the impact of climate change.

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