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WATER-ENERGY-FOOD NEXUS FOR CLIMATE CHANGE MITIGATION IN JORDAN

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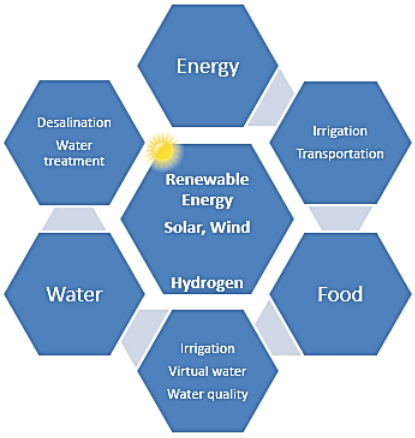
Abstract – In Jordan, the struggle for survival hinges on balancing water, energy, and food security. This arid nation, acutely vulnerable to climate change, holds the Water-Energy-Food (WEF) Nexus approach – weaving water, energy, and food systems into a resilient tapestry. This study delves into Jordan's intricate WEF Nexus, revealing a parched landscape dependent on groundwater, reliant on imported energy, and clinging to agriculture under a harsh sun. However, amidst these challenges lie glimmers of hope: existing initiatives addressing individual sectors and promising interventions leveraging the Nexus approach. The key to a sustainable future is scaling up renewable energy for desalination and efficiency, promoting climate-smart agriculture, and fostering regional resource management. Nevertheless, navigating this complex tapestry demands more than just interventions. Robust governance, empowered stakeholders, and active community engagement are the needles and threads that bind the WEF Nexus together, stitching Jordan's path toward a future where water, energy, and food security sing in harmony. Jordan's narrative is not just about climate vulnerability but about resilience. By embracing the WEF Nexus and its inherent interconnectedness, this nation can transform itself from a thirsty landscape into a beacon of hope, showcasing how climate resilience can develop even in arid regions.

Keywords – Arid region; capacity building; climate change; climate-smart agriculture; desalination; governance; Jordan; regional cooperation; renewables; resilience; sustainability; WEF Nexus



Renewable energy is essential to meet WEF's challenges in Jordan.

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