

Climate Change and the Impact of Wastewater Management in Palestine

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Abstract : Climate change refers to long-term shifts in temperatures and weather patterns. Mostly caused by human activities, as most scientists agree, climate change will have a substantial impact on our planet as we move ahead in time. Since Palestine is a country with limited water resources, with a growing population, increasing urbanization and rapid growth, agriculture requires better development of the available resources. Most water resources are the scarcity of precipitation and groundwater only. This research discusses a mitigation effort to the impact of climate change by considering a better utilization of wastewater. Water, which is a scarce resource in vast locations across the earth, can prove very valuable again if purified and reused. Taking a concrete example within an agricultural village in Palestine, Fara' is an agricultural village that is impacted by the passage of waste waters coming from the nearby Nablus city. A wastewater treatment project is discussed alongside the environmental impact and how it relates to climate change. The research addresses the purposes of wastewater treatment, descriptions of the quantity and quality of wastewater that will be treated, and a description of the environmental impact of the project on agriculture and groundwater and the acceptance of people to the idea of the reuse of wastewater after treatment.

Keywords : waste, water, climate, treatment

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