

Environmental Impact Evaluation of Solar Park Project in Western Desert, Minia, Egypt.

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More than 95% of the Egyptian lands are desert, Groundwater in this arid desert area is considered as a very valuable and unique source of water for agricultural and manufacturing development projects; therefore environmental impact evaluation of these projects is very important step to protect groundwater from pollution. Three geophysical techniques used for groundwater exploration and upper geological layers evaluation, these techniques are, Vertical electrical sounding, two dimension electrical imaging, and Time Domain electromagnetic techniques. And depending on this study we described the hydro-geological settings of the area, detect the best locations for drilling groundwater wells, safe environmental injection points, and finally safe environmental landfill.

Keywords: Geophysics, Groundwater, Environmental evaluation, Arid Desert lands