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The UNIDO project, Towards sustainable energy for all in Mozambique, is introducing solar-powered water pumping and small irrigation systems as methods to enhance the production capacity of smallholder farmers.

powered irrigation systems (SPIS) in Mozambique by conducting an analysis of the actual off-grid solar irrigation technologies available and its promotion for small scale enterprise level farmers (<2ha) in Mozambique.

Irrigation systems to supply water to agricultural land are essential in remote and isolated areas. However, these areas often face challenges and obstacles in obtaining energy for use in irrigation ...

This study was sought to analyze the feasibility of utilizing a solar photovoltaic system as a means to reduce the environmental impact caused by the diesel pumps and simultaneously alleviate the expenses regarding the use of non-environmentally friendly technologies.

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In this context, this paper aims to analyze the technical, environmental and social feasibility of a stand-alone photovoltaic powered irrigation system applied to a familiar production unit as an energy alternative for Mozambique and other developing countries.

The study of renewable and specifically solar PV energy opportunities in Mozambique gains special importance as a way to assess the feasibility of PVWPS for irrigation implementation, mainly for developing countries.

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The main purpose of this study is the analysis of the exergy efficiency of a photovoltaic water pump system (PVWPS) at different temperatures and radiations that have not been presented in the previous works.

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