

# **Naypyidaw Solar Irrigation System**





## Overview

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What is a solar-powered irrigation system?

Solar-powered irrigation systems (SPIS) are a clean technology option for irrigation, allowing for the use of solar energy for water pumping, reducing greenhouse gas (GHG) emissions from irrigated agriculture, and substituting fossil fuels as an energy source. SPIS's long-term viability is highly dependent on how water resources are managed.

Are solar-powered irrigation systems sustainable?

Solar-powered irrigation systems (SPIS) are a clean technology option for irrigation, allowing the use solar energy for water pumping, replacing fossil fuels as energy source, and reducing greenhouse gas (GHG) emissions from irrigated agriculture. The sustainability of SPIS greatly depends on how water resources are managed.

How does a solar-powered smart irrigation system work?

The flowchart illustrates the operation of a solar-powered smart irrigation system designed to maximize water and energy efficiency. The process begins with a soil moisture sensor monitoring the moisture level in the soil. If the moisture falls below a predefined threshold, the system evaluates the availability of solar energy.

Does solar-powered drip irrigation improve food security in the Sudano-Sahel?

Solar-powered drip irrigation enhances food security in the Sudano-Sahel. Proceedings of the National Academy of Sciences of the United States of America, 107(5), 1848-1853. Campana PE, Li H, Zhang J, Liu J, Yan J. 2015. Economic optimisation of photovoltaic water pumping systems for irrigation. Energy Conversion and Management, 95, 32-41.



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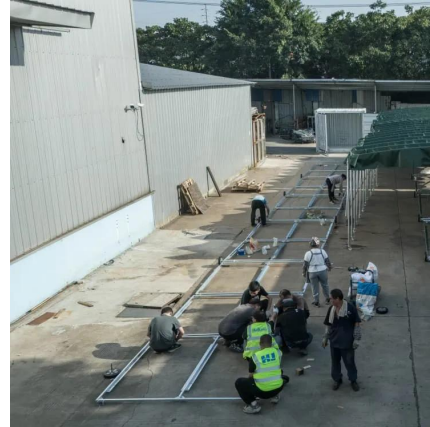
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