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Solar water pumps in Niger



Overview

Can solar-powered irrigation pumps transform Niger?

Solar-powered irrigation pumps and other appliances have demonstrated their power to transform Niger by increasing crop yields and production. “Previously, I irrigated only a tiny plot using diesel water pumps,” says Alzouma. “With solar irrigation, we now grow fruit trees, onions, tomatoes, and moringa.

How many solar pumps are there in Niger?

Four solar pump companies accounting for half of all pump sales in Niger have tapped into the credit line, bringing 800 solar pumps to Niger’s farms since 2017. NESAP has loaned more than \$1.5 million to solar system importers, wholesalers, retailers, installers, and solar electricity service providers.

What is the Niger solar energy access project?

The World Bank-funded Niger Solar Electricity Access Project enables farmers to buy pumps. Based on its success, a broader \$800-million solar energy project - Niger Accelerating Electricity Access (HASKÉ) - will integrate grid power, mini-grids, and off-grid solutions for electricity and clean cooking.

What is a solar-powered water pumping system?

The solar-powered water pumping system enables Alzouma to rotate crops on his farm in Finaré, Niger. Photo credit: ICM Niger. Based on its success, a broader \$800-million solar energy project - Niger Accelerating Electricity Access (HASKÉ) - will integrate grid power, mini-grids, and off-grid solutions for electricity and clean cooking.

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3.1. Description Photovoltaic pumping system is a standard pump equipped with an electric motor, provided in electrical energy by photovoltaic panels installed on the site

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In June, 2022, Solartech PB-G3 series 4kW AC solar water pump system was successfully installed in a pasture in Niger. The system is mainly used to pump water from the deep well to ...

Solar pumps bring irrigation to farms and increase yields in food-insecure, arid Niger. The World Bank-funded Niger Solar Electricity ...

A solar-powered water pump produced by China's Sunmoy Company recently arrived in Niger. Powered by solar energy, this device provides clean drinking water and ...

The Importance of Solar Water Pumps in Niger Niger, located in the Sahel region of Africa, is prone to severe droughts that significantly impact agricultural productivity. Traditional farming ...

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Abstract and Figures For more than a decade, Niger has seen a considerable increase in the usage of gas, solar energy, and petroleum to power irrigation water pumps in ...

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