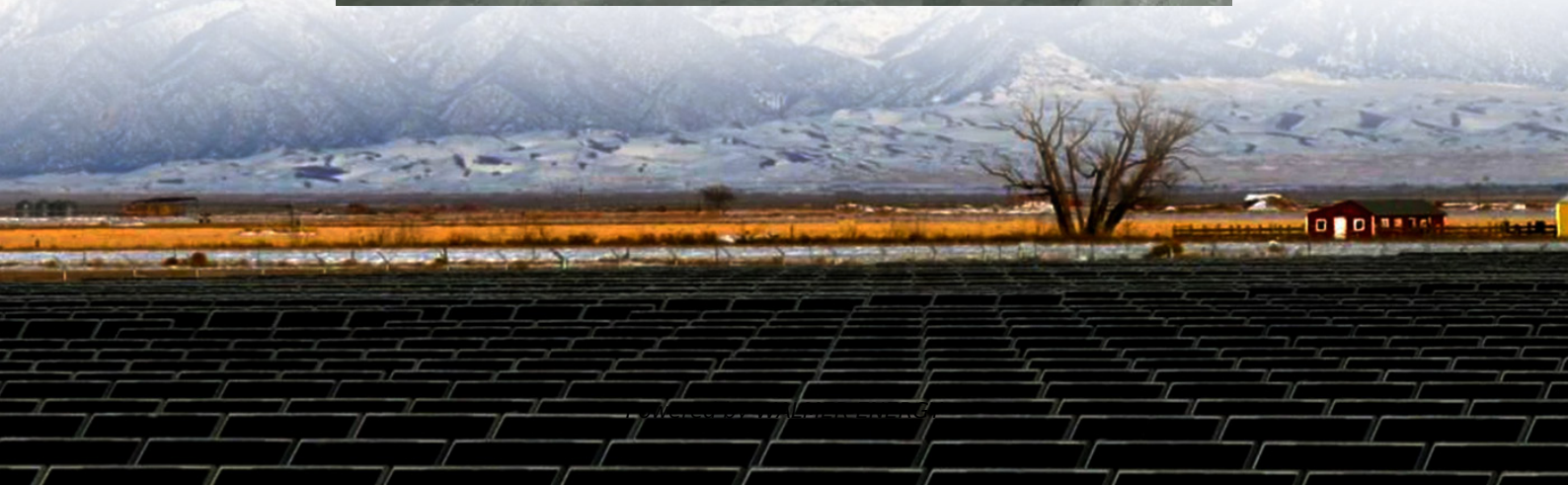


Off-grid photovoltaic container for agricultural irrigation in Niger





Overview

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.

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."

Are off-grid solar-powered irrigation pumps a viable solution?

Off-grid solar-powered irrigation pumps (SIPs) can overcome many of the energy access and other challenges in the region, but their uptake has been slow.

What is Niger accelerating electricity access (Haské)?

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. Boubacar Issoufou Alzouma manages a large farm in Finaré, Niger.



Off-grid photovoltaic container for agricultural irrigation in Niger

Solar energy brings water to Niger's farms

Mar 16, 2023 · Solar pumps bring irrigation to farms and increase yields in food-insecure, arid Niger. The World Bank-funded Niger Solar Electricity Access Project enables farmers to buy ...

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Solar energy brings water to Niger's farms

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GACSA PRACTICE BRIEF Climate-smart agriculture. Solar ...

May 9, 2023 · In a solar-powered irrigation systems (SPIS), electricity is generated by solar



photovoltaic (PV) panels and used to operate pumps for the abstraction, lifting and/or ...

Design and installation of solar-powered irrigation systems ...

Water scarcity and high energy costs are challenges for many farmers in Niger. Our team offers fully autonomous solar-powered irrigation systems designed for large agricultural fields and ...

(PDF) TECHNICAL AND ECONOMIC ...

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