

Senegal Solar Water Pump Inverter Agricultural Irrigation



Overview

Solar-powered water pumps are enabling farmers in Senegal to irrigate their crops year round which, in turn, has seen trade pick up. The farmers till their land in the shadow of the Taiba N'Diaye wind farm, the largest such power station in West Africa by generation capacity. Solar modules were introduced on an agrovoltaic scheme, reducing the high impact of evapotranspiration from the own . JIVO Energy has completed the solarization of five water pumping systems used for irrigation in northern Senegal, marking an important step toward sustainable agriculture in the region.

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Senegal: Solar irrigation are transforming farmers' lives

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Senegal Farmers Flourish with Solar Irrigation

In Senegal, a remarkable transformation is underway as farmers harness the power of solar energy to irrigate their crops throughout the year, a development that has revitalized trade and



[Study of the Impact of Solar Pumping Solutions on Agricultural](#)

The results of this study on the use of solar pumps in the Niayes region of Senegal, via the Woomal Mbay project, demonstrate a notable shift from the use of diesel pumps to solar solutions.

[400 Market Farmers Benefit from New Solar Pumping System in Senegal](#)

A rural community near the port town of Saint-Louis on the Senegal-Mauritania border will now benefit from a solar-powered pump system financed by the German Agency for International





JIVO Energy Solarizes Irrigation Pumps in Northern Senegal

The project involved installing solar PV systems on existing water pumps that support irrigation for rice farming communities.

JIVO Energy Solarizes Irrigation Water Pumps To Support Rice

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[Technical and Economic Feasibility of Solar Pump Irrigation in the](#)

The objective of this study was to assess the techno-economic feasibility of solar irrigation pumps. Regarding technical feasibility, pump sizing was carried out on the basis of irrigation management,

[Senegal Ministry of Agriculture and GGGI inaugurates solar-powered](#)

Part of the facilities inaugurated include solar-powered irrigation pumps that will operate at 100% solar during the day, with a capacity of 47kw-peak, and have the capacity to irrigate over 330 hectares of



Solar pump systems bring Food Security to Senegal and Guinea

Senegal and Guinea-Conakry have introduced solar irrigation pumping systems (SIPS),

replacing traditional diesel generators with Africa's cheapest power - under 4 cents per kWh - and

GFM installs solar-powered pumping system in north Senegal

In April 2024, ARE Member GFM FOTOVOLTAICA in collaboration with ONGAWA installed three solar-powered pumping demonstrators for stable and clean water provision in northern



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