

How does the Niger River affect wetlands and lakes?

The seasonal expansion and contraction of lakes and wetlands in the IND depends on the river inflow at the entrance of the delta: Ke-Macina for the Niger River and Sofara for the Bani River. The Niger River receives most of its runoff from rainfall in its headwaters in Guinea, located more than 600 km upstream.

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 natural wetland systems in the Sahel a good investment?

Natural wetland systems in the Sahel provide significant economic value for millions, but this is typically not factored into sectoral water management investment decisions. Water resource management solutions of the past for food and energy security may not provide the desired security for the future.

How would a new drought affect the Niger Delta?

Simultaneously, the population is growing. A new drought period would affect a larger population with more destructive consequences. The Inner Niger Delta and wetland systems like this across the Sahel have significant social and economic value from local to national scales.

**Summary:** Explore how Niger's wetland photovoltaic solar energy systems are revolutionizing sustainable power generation. This article examines technical challenges, environmental impacts, ...

In this study, Geographical Information System and multi-criteria decision-making are combined to develop a framework for solar-based hydrogen site suitability analysis in Niger by ...

The project will facilitate acquisitions of solar-powered systems for productive uses (including solar irrigation systems), focusing on vulnerable and female-headed households and ...

In Niger, where 80% of the population relies on agriculture, solar-powered irrigation systems are revolutionizing farming practices. This article explores how these systems address water scarcity, ...

The use of solar energy in Niger, particularly photovoltaic energy, for water pumping is well suited in this arid and semi-arid area due to the existence in this region of an underground water ...

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 the water tower, ...

**ABSTRACT:** Several communities in the Niger Delta region of Nigeria are without electricity to pump water. Hospitals, health centers and schools that served a sizable population of ...

About the author Miriam J Isoun is the founding Executive Director of the Niger Delta Wetlands Centre (NDWC), which was established in 1992. The focus of this NGO has been on ...

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Synthesis: Water Resilience for Economic Resilience The Inner Niger Delta and wetland systems like this across the Sahel have significant social and economic value from local to national ...

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