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Introduction: The project focuses on the implementation of a Solartech solar pump system to power Senegal's central pivot sprinkler irrigation system. This innovative solution harnesses solar energy to drive the irrigation pump, providing a sustainable and efficient water supply for agricultural activities.

In June 2021, a Solartech central pivot sprinkler irrigation system was successfully installed in a farm in Kanel province, Matam district, Senegal. The main power supply of the system is provided by solar PV generator system, but backed up with grid power supply, automatic switching and no need of battery.

centre-pivot (also known as water-wheel or circle) irrigation system. A main pipe of 2 km draws water from the Senegal River and secondary pipes deliver the water to the segmented farm plots. Three diesel-powered surface pumps (two in daily use and one on stand-by) raise the water from a low head at river level.

Solar power enhances pivot irrigation by providing a renewable and clean energy source to power the pumps and motors that drive the system. This reduces the farm's carbon footprint and dependency on grid electricity or diesel generators.

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This article contains an evaluation of grid connected (behind the meter) solar PV technology for center pivot irrigation. Addition of solar is rarely a replacement for the electric grid, rather a supplement reducing electrical ...

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The energy landscape of Senegal, a nation in West Africa, is undergoing a spectacular transition as solar energy gains prominence. Senegal has achieved great advancements in utilising the year-round abundance of sunlight it receives during the past ten years, and a number of noteworthy trends and breakthroughs are propelling this solar revolution.

This Model Business Case studies the viability of solar photovoltaic (PV) powered water pumping investments for irrigation, compared to diesel and grid-connected options in Senegal. The modelling covers water pumping systems powered by diesel, grid electricity and PV for large-scale¹ plot sizes of: 50 and 250 hectares (ha).

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This article contains an evaluation of grid connected (behind the meter) solar PV technology for center pivot irrigation. Addition of solar is rarely a replacement for the electric grid, rather a supplement reducing electrical purchases and selling some electricity to the grid.

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