Office energy storage juba

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The power station would be located on a 25 hectares (62 acres) piece of real estate, approximately 20 kilometres (12 mi) from Juba, the capital and largest city of South Sudan.[1][3]

The power station is reported to cost an estimated US$45 million to construct. The project has received a loan from the African Export-Import Bank.[2][4]

Amidst growing concerns over climate change and energy security, Aptech Africa Ltd. has spearheaded a transformative shift towards renewable energy solutions in Juba. With the region’s abundant sunshine and unreliable electricity infrastructure, solar power emerges as a beacon of hope for businesses and residences alike.

Recognizing the immense potential of solar energy in Juba, Aptech Africa embarked on a mission to provide tailored solar solutions to meet the diverse needs of the community. Recently, they successfully designed, supplied, installed, and commissioned a cutting-edge 229.9kWp solar rooftop grid-tied system in the heart of Juba.

Comprising 415 high-efficiency panels and sophisticated inverters, the system operates seamlessly alongside the existing power supply, ensuring a continuous and reliable electricity source for a local hotel. These grid-tied inverters play a pivotal role in converting solar energy into usable AC power, empowering the hotel to meet its energy needs sustainably.

Equipped with smart meters, the system offers real-time insights into power generation and consumption, enabling efficient management and optimal performance. By integrating solar power into their operations, the hotel not only reduces reliance on conventional energy sources but also slashes energy costs and fosters environmental sustainability.

This transformative shift towards solar power not only mitigates climate change but also enhances energy resilience. With a reliable electricity source complementing the conventional grid, the hotel can navigate power outages and fluctuations while significantly reducing their carbon footprint and electricity bills.

Aptech Africa’s innovative solar solutions herald a brighter, more sustainable future for Juba, paving the way for a greener and more resilient energy landscape.

Aptech Africa, a prominent player in the renewable energy sector, has successfully installed 26MWp of solar panels in Juba, South Sudan, as part of a self-financed project by Ezra Construction Company. The installation, carried out in two phases of 13MWp each, is integrated with 30MW of diesel generators to create a reliable and cost-effective power supply.

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The solar power plant utilizes high-efficiency Ulica Solar Panels, including 540Wp modules in Phase I and 545Wp models in Phase II. A total of 108 Huawei inverters with a capacity of 200KTL are employed, and the installation is divided into four Smart Transformer Stations (STS) with a capacity of 6.5 MVA each.

One of the key features of this project is its remote monitoring capability through Huawei Fusion Solar, which enables real-time monitoring of power generation, fault detection, and efficient management of the entire power plant.

Before the solar system’s implementation, Juba faced severe load-shedding issues due to maintenance problems with the existing diesel generation system. The solar plant now operates in conjunction with the diesel plant, supplying approximately 70% of the power during daylight hours, significantly reducing energy demand, and alleviating load-shedding problems.

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