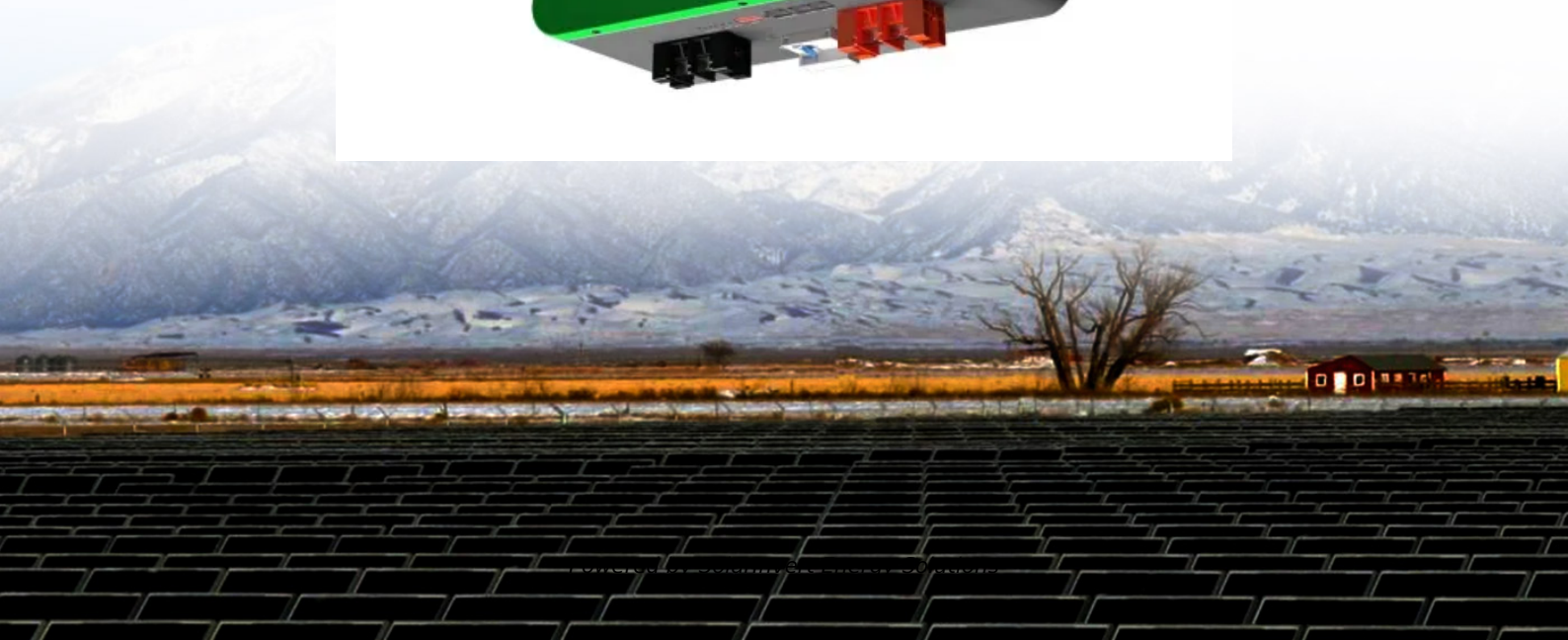


SolarInvert Energy Solutions

How much does it cost to power a communication base station in Uganda



Overview

Due to the widespread installation of Base Stations, the power consumption of cellular communication is increasing rapidly (BSs). Power consumption rises.

In this work, the following materials were used to collect data: Clamp meter and Multimeter and a laptop to save these data.

Data for this study was collected from base stations in the forementioned research locations. Data collection took place at 6 base stations in the Bushenyi, Ishaka.

A typical power consumption for each equipment at site has been provided by Airtel company, in order for us to use it and compare the data we have to see.

A linear regression model was developed to validate data. Our data being linear, this regression gives us a clear view on how best power can be managed.

How many MW are commissioned in Uganda?

In 2019 alone, a total of 269 MW were commissioned while an additional 700 MW was expected in 2020 alone as shown in Table 10. Uganda enjoyed a Mix of Energy sources including Hydro, Cogeneration/Bagasse, Solar, and Heavy Fuel Oil (HFO).

How is electricity supply regulated in Uganda?

Legally, Uganda's Electricity Supply Industry is Regulated under the Electricity Act, 1999, Chapter 45 of the Laws of Uganda, the Energy Policy, the National Environment Act, Chapter 153, and the Statutory Instruments and Guidelines issued by the Electricity Regulatory Authority (ERA).

How much electricity does Uganda need?

Uganda recorded a Maximum System Peak Demand of 723.8 MW in December 2019. In terms of Electricity Access, the Uganda Bureau of Statistics in its 2016/17 National House Hold Survey reported access to Clean Energy for

lighting at 24% on the National Grid while 27% Off-Grid, Rooftops, and Solar Lanterns and Home Systems.

What is the electricity demand in Uganda?

The demand for Electricity Consumption in Uganda remains low and among the lowest in Africa with Annual Average Electricity Consumption of 100kWh per capita.

What is Uganda's Electricity generation capacity?

Uganda's Electricity Generation Capacity has grown over the years from about 872.2 MW in 2012 to the current 1,254.2 MW (with 5.9 MW on Off-Grid) by December 2019.

Will Uganda face a challenge of excess generation capacity?

Considering both the Base Case and the High Case Forecast of Demand, it is observed that if all planned Generation Projects are commissioned as assumed in the study, Uganda will face a challenge of Excess Generation Capacity if no additional mitigation measures are undertaken immediately.

How much does it cost to power a communication base station in Uganda



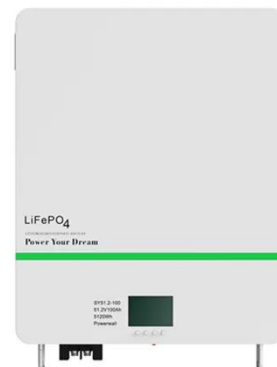
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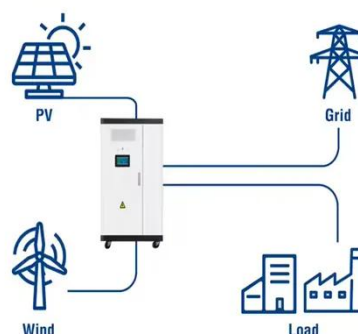
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In conclusion, building and maintaining a communication base station involves significant initial setup costs and ongoing maintenance expenses. These costs can vary widely depending on ...

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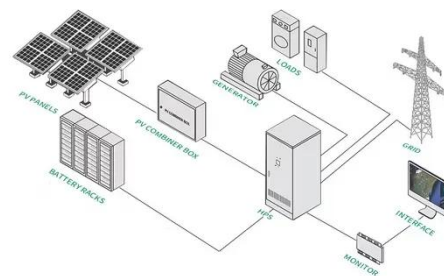
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