Rural microgrids banjul

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The electricity supply on the African continent is at an extremely low level. The current population is about 1.3 billion people, 62% of whom do not have access to electricity. The per capita energy consumption is the lowest in the world, and there are high power generation costs and unstable energy supply., low electrification rate and other issues. There are huge differences between economically developed cities and rural areas.

In the event of a power shortage, people usually use diesel generators as backup power. However, diesel power generation is not only expensive but also pollutes the environment. In many countries where diesel generators are used to supplement or fully support daily life, the cost of electricity can be three times higher than relying on the grid.

Therefore, using solar panels and energy storage system is an efficient and cost-effective way for residents who are far away from the existing transmission and distribution system. Especially in rural areas, it can effectively reduce dependence on polluting and inefficient energy.

“Now, the microgrid system of photovoltaic + inverter + lead-acid battery + diesel generator used in this rural area provides a solution for power supply, but the lead-acid battery has a short service life, takes up a lot of space, and is troublesome to maintain. The problem challenges the reliability and economy of the system."

In order to solve the above problems, the customer found SCU to provide them with a solution, SCU’s GRES energy storage system. SCU uses a direct current (DC) solution to connect to the photovoltaic system directly and comprehensively monitors and manages the entire microgrid system, including photovoltaic power generation, energy storage and diesel generators, through our advanced power management system (PMS).

Microgrids can significantly reduce the power generation cost of the power supply system, reduce air pollution and noise pollution to the environment, and provide a reliable, stable, and high-quality power supply for factories and enterprises. The microgrid background energy management system optimizes the control of the microgrid based on pre-customized control strategies to achieve rational utilization of energy and ensure the economical and reliable operation of the system.

The successful application of SCU’s energy storage technology in rural Africa has also set an example for promoting the application of renewable energy in African countries. SCU will continue to be committed to making more contributions to rural electrification in Africa and helping it achieve sustainable development and clean energy utilization.

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