

This manuscript proposes an efficient hybrid method for power flow management (PFM) in smart grid (SG) system with hybrid renewable energy sources (HRES), such as photovoltaic (PV), Wind...

The study made on Kalangala Island on Lake Victoria in Uganda analyzed energy cost and cost comparison of a thermal generator and proposed a hybrid system of solar and wind. They ...

A study made in Ntoroko village, Uganda, emphasizes that the use of a hybrid storage system is economical in remote areas where electrical demand is low and uses a method of varying PV sizes, batteries, inverters, and batteries to ...

Renewable energy sources which are readily available can be used to power irrigation systems. This study hence sought to design an appropriate wind-solar hybrid system for irrigating 1 acre...

of standalone solar systems, Uganda has begun in-troducing hybrid solar electricity systems. These unique configurations combine PV and diesel power generation components to provide reliable power to communities, particularly evident in the deployment of a 1.6 MW hybrid system on Bugala Island (Kayima et al., 2023).

integration and net metering. This was done by designing an alternative solar hybrid system for Kyagalanyi Coffee Limited using HOMER software. The system is compared with the common one in Uganda of grid backed up with a generator. A saving of \$668,033 is recorded throughout the project life of 25 years with a discounted payback time of 10.9 ...

The shift towards renewable energy is resulting in increased investment in energy infrastructure, affecting communities of all sizes worldwide. A study on Bugala Island in Lake Victoria, Uganda, ... Expand

In recent time, hybrid renewable energy systems are increasing being utilized to provide electricity in remote areas especially where the grid extension is considered very expensive. This study ...

On-grid hybrid solar energy (HSE) infrastructure has become a popular transitional approach to support local socio-economic development on Bugala island, Uganda. However, studies on the spatial extent of HSE users and empirical evidence on the effects of HSE on education, health, local economy, and access to information on the island are scarce.

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The study made on Kalangala Island on Lake Victoria in Uganda analyzed energy cost and cost comparison of a thermal generator and proposed a hybrid system of solar and wind. They used daily load profile data given by a power analyzer and did not look at the growing energy demand of the island [26].

Analysis of the socio-economic benefits of on-grid hybrid solar energy system on Bugala island in Uganda. Energy for Sustainable Development, 77(October), 101332. <https://doi/10.1016/j.esd.2023.101332>

In recent time, hybrid renewable energy systems are increasing being utilized to provide electricity in remote areas especially where the grid extension is considered very expensive. This study presents a techno-economic analysis of a Mini grid solar

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