Classification of South Sudan Wind Energy Storage Systems

South Sudan faces a serious energy crisis due to a number of factors, including devastating conflicts (e.g. 1955-172, 1983-2005 & 2013-present) and reliance on the fossil fuel source. ...

This study includes a historical analysis of the daily wind and solar data collected over a period of 40 years (1974-2014) at four meteorological stations in South Sudan.

The purpose of this study is to make a preliminary assessment of the wind resource in South Sudan. This is mainly to get data on the quality of the wind resource at different locations in ...

This study comparatively presents a widespread and comprehensive description of energy storage systems with detailed classification, features, advantages, environmental impacts, and ...

The hybrid energy storage combinations used in PV and wind systems are presented, detailing their advantages in terms of short-term and long-term energy storage, energy capacity, ...

This quantitative assessment offers clear perspectives into the renewable-energy landscape of South Sudan, emphasizing the potential of solar and wind energy to address the country"s energy crisis.

A just-commissioned solar and battery storage system will reduce diesel consumption by at least 80% at a base for 300 humanitarian workers in South Sudan, managed by the UN"s International ...

These classifications lead to the division of energy storage into five main types: i) mechanical energy storage, ii) chemical energy storage, iii) electrochemical energy storage, iv) electrostatic and ...