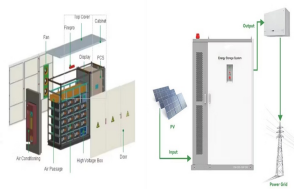
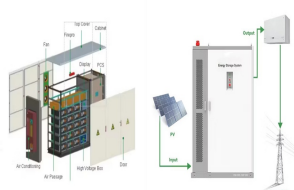


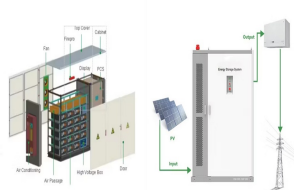
ENERGY STORAGE AFRICA



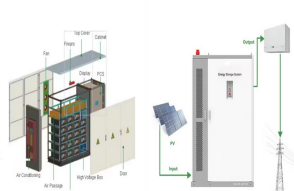
What is the future of energy storage in South Africa? This is according to a new report by the World Bank which says that over the next five years SA is expected to show rapid growth in energy storage demand. The rise in demand will come from the transformation of the energy system to include more renewables and developing demand in the electric vehicle (EV) sector



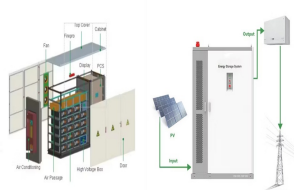
What is a battery energy storage system? Battery energy storage systems are becoming increasingly vital in enabling renewable energy generation, especially in addressing energy crises and combating climate change. With the rapid growth of the market for these systems, Globeleq's Red Sands project is poised to revolutionize energy storage capabilities in South Africa and beyond.



What is the Drakensberg pumped storage scheme? Designed to generate electricity for 10 hours per day through its four 250 MW turbine generators, the Drakensberg Pumped Storage Scheme is an energy storage facility, situated in the northern parts of the Drakensberg Mountain range of South Africa, which provides up to 27.6 GWh of electricity storage.

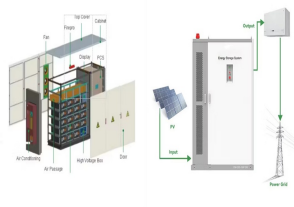


What is the energy storage capacity of the Ingula PSS? Straddling the border of South Africa's KwaZulu-Natal and Free State provinces, the Ingula PSS has an energy storage capacity of 21 GWh, or 15.8 electricity generating hours.



Where is the largest concentrated solar power plant in the world? Situated in the Draa-Tafilalet Region of the Kingdom of Morocco, approximately 10 km from the city of Ouarzazate, the 580MW Ouarzazate Solar Power Complex is the largest concentrated solar power (CSP) plant in the world.

ENERGY STORAGE AFRICA



In the context of frequent power off, household and industrial and commercial energy storage solutions have become an important measure to ensure power consumption. In recent years, South Africa has committed to advancing a?|



Situated in the South African town of Bokpoort in the Northern Cape province, the 50 MW CSP plant, with an output capacity of 200 GWh per year, uses a 1.3 GWh molten salt energy storage facility, capable of providing a?|



In South Africa, Battery Energy Storage is a key aspect of the first-of-its-kind hybrid project, Oya. Straddling the Western and Northern Cape Provinces, the hybrid facility will offer 86MW wind and 155MW Solar PV dispatchable power, a?|



With the rapid growth of the market for these systems, Globeleq's Red Sands project is poised to revolutionize energy storage capabilities in South Africa and beyond. Driving Renewable Energy Transition. As South Africa a?|

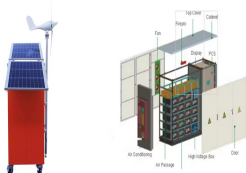


In this way, battery storage is a "critical enabler" for renewable energy in Africa, says Damola Omole, director of utility innovation at the non-profit Global Energy Alliance for People and Planet (GEAPP). A handful of large a?|



As South Africa seeks to transition to clean energy and reduce its reliance on fossil fuels, widespread energy storage becomes indispensable. The Red Sands project, with its R5.7 billion (US\$300 million) investment, a?|

ENERGY STORAGE AFRICA



The United Kingdom is backing investment of more than \$300 million in South Africa's green energy transition as the country struggles to end power shortages that nearly tipped its economy into a



Situated in the South African town of Bokpoort in the Northern Cape province, the 50 MW CSP plant, with an output capacity of 200 GWh per year, uses a 1.3 GWh molten salt energy storage facility, capable of providing a?|



The high energy density of Lithium-ion battery systems stands as a cornerstone in contemporary portable and stationary electrical energy storage. This paradigm shift demands a fresh set of skills and a a?|



South Africa's state-owned power utility, Eskom, has inaugurated Africa's largest battery energy storage system (BESS), marking a major milestone for the country and the continent. The project in Worcester in the Western a?|



Daimler, the German automotive company best-known for the Mercedes-Benz line of vehicles, evidently knows a lot about cars. So perhaps it's no surprise its subsidiary, Mercedes-Benz Energy, is using vehicle technology a?|



Sungrow's cutting-edge solar power systems provide efficient solutions for South Africa's energy needs in residential and commercial fields. Thanda Island solar energy system comprises 225kWp of Solar PV with 4 x SG50CX Sungrow a?|

ENERGY STORAGE AFRICA



The energy transition presents a unique opportunity for South Africa to not only address its internal challenges, but also become a global player in the battery storage industry. By leveraging its existing resources, a?



Several African countries have formally expressed interest to join the groundbreaking Battery Energy Storage Systems (BESS) Consortium, launched Saturday during COP28, which could revolutionise Africa's energy a?|



This comes amid a gradual shift by Kenya towards the utility-scale Battery Energy Storage Systems (BESS) technology concepts which have picked up pace globally as renewable energy generation expands. The Energy a?|

Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget-Friendly Solution
- Increased Energy Efficiency
- Modular Design for Flexible Expansion



At ACES, our expertise lies in deploying Solar PV, Building Integrated Solar Glass (BiPV), and Energy Storage (BESS) systems. We provide comprehensive services covering the entire project life cycle, from feasibility studies through a?|