



South Africa Mobile Energy Storage Site

Wind Power 125kWh

What is battery energy storage in South Africa?

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, coupled with 92MW/242 MWh battery energy storage.

How do virtual power plants work in South Africa?

Using AI energy management systems, these renewable energy plants dispatch solar, wind and battery energy on demand. Increasingly in use in South Africa, Virtual Power Plants (VPPs) are a network of different power sources such as wind, solar and battery energy storage systems working together, sometimes at different locations.

Should South Africa switch to a low-carbon energy system?

Today, large renewable energy battery systems are seen as the best future option for storing renewable power with South Africa's state-owned electricity company, Eskom, beginning to set up battery storage. Several factors complicate South Africa's transition to a low-carbon energy system.

Where are solar projects located in South Africa?

In December 2023, Saudi Arabia's ACWA Power signed a 20-year PPA with Eskom for a 442 MW solar facility with 1,200 MWh of battery storage, also located in Northern Cape province. In June 2023, Scatec ASA reached financial close on three more solar projects in South Africa, with a total capacity of 273 MW, all located in Western Cape province.

Why is energy storage important in South Africa?

Experts say that widespread energy storage is vital to expanding the reach of renewables and speeding the transition to a carbon-free power grid -- this is key to helping reduce South Africa's reliance on fossil fuels as it seeks to transition to clean energy.

Who owns a power plant in South Africa?

It is owned by Norwegian renewables developer Scatec ASA. The company holds a 51% stake in the \$1 billion project, marked as the largest commitment in its history. South African investment company H1 Holdings holds 49%. Power from the facility will be sold to South African state-owned utility Eskom, under a 20-year power purchase agreement (PPA).



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