



# Average school solar storage price per 5MW in South Africa

What size Solar System do you need in South Africa?

Typically, South African households require solar systems with an inverter capacity in the range of 3kW to 12kW, depending on their energy consumption needs. To determine the size of the solar system you need, it's essential to calculate your household's average energy consumption.

How much does a solar system cost?

A typical backup system for a house is, a 5kW inverter plus a 5kWh battery. The cost of such a system is around: R 80 000 5 kWh battery. So, if we have a look at the solar system part components and costs. A typical solar system is around 2 kW. Return on investment. So, let's calculate, what our return on investment will be.

How much does electricity cost in South Africa?

Even though electricity has drastically increased, electricity in South Africa is still relatively cheap compared to other countries. Especially compared to Germany, where the prices are 2 and a half times more expensive, at R7 per kilo watt hour. So, what does a complete backup and solar system cost today, and what is the payback like?

Should South Africa Invest in solar energy?

South Africa has an abundance of solar energy, we just need to make use of it. If more people invested in solar, loadshedding can be eliminated within a few years. Solar, wind, and storage replacing Eskom. Eskom is in what they call a Utility death spiral. Investing in a solar power system is like.

Are South African households facing an energy Perfect Storm?

With Eskom's latest 18.65% tariff hike approved in February 2025 and rolling blackouts lasting up to 10 hours daily, South African households are facing an energy perfect storm. But here's the kicker - solar power installation costs have dropped 42% since 2020 while battery storage efficiency has nearly doubled.

How have solar prices changed in South Africa?

How prices of solar, storage and electricity have changed over the last years in South Africa, and where we are today. South Africa imported a record amount, of solar panels in 2023. Historically, less than a 100 million Dollars per year were imported, but in 2023, more than 450 million dollars were imported.



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