



School energy storage cape town

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The German International School Cape Town (Deutsche Internationale Schule Kapstadt – DSK) has taken a significant step towards sustainability with the inauguration of a new Battery Energy Storage System (BESS) alongside their existing PV system. This advanced system marks a milestone in DSK’s ongoing journey to harness solar energy for a greener future.

Grid Peak Shaving: The primary function of the BESS is to limit the maximum power drawn from the grid, effectively preventing the school’s main supply from tripping. On typical days, solar PV generation helps in preventing grid overload. However, during winter on cloudy days, when the school’s load is higher than the grid supply, the BESS plays a crucial role. After a day of load shedding, even if there’s insufficient capacity to charge the battery fully, the system helps manage the load efficiently.

Reduced Energy Bills: Before the BESS installation, DSK sold back excess solar PV power at a fraction of what it purchases power at. The larger capacity of the BESS now allows the school to consume all the PV-generated power, significantly increasing savings and improving the payback period of the initial solar investment.

Energy Management System: The new energy management system provides greater control over energy usage. It offers a central monitoring platform for solar generation, load, and battery storage, enabling users to change the battery’s primary function between backup and increased self-consumption as needed.

Through our comprehensive service level agreement, we offer an extended 10-year total product warranty to the school to ensure peace of mind in operating a complex asset. The system also grants access to additional services, future-proofing the school’s ability to adapt to changing network requirements and opportunities. These include:

We congratulate DSK on their new energy system and commend their team for the effort in realising this.

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Battery StorageGas-to-PowerEnergy Management

Sun Exchange (), an award-winning global solar micro-leasing marketplace, today announced it will solar power several Western Cape Education Department schools. The first school in the series will be Protea Heights Academy in Cape Town.

Sun Exchange enables schools and businesses to have solar power installed with no upfront or on-going operational costs. With immediate savings on their energy bills from the first day the solar project is



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operational, schools can focus their resources on what they do best - education. Not only does this help schools save money in the short term, it also provides schools with some immunity against future electricity tariff hikes from ESKOM.

Sun Exchange schools projects provide an opportunity for people across the globe to own and lease solar cells to innovative, future-minded and sustainability-oriented schools like Protea Heights Academy. Through Sun Exchange, practically anyone, anywhere in the world can purchase solar cells which are then installed on the roof of schools and other organisations in developing regions. Solar cell owners earn an income stream from the electricity generated, while schools gain access to affordable clean energy for years to come.

Protea Heights Academy, a school of the Western Cape Department of Education, specialises in maths, sciences and technology. A hub for e-learning and advanced learning, the school already has a formidable reputation for excellence and futuristic, critical thinking in preparation for the fourth industrial revolution.

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