

BACK UP STORAGE SYSTEM

➤ DUNHILL TOWERS - NAIROBI, KENYA



“TROJAN’S SOLAR AGM BATTERIES PROVIDE A SMALL FOOTPRINT DESIGN IN OUR LIMITED SPACE WHILE DELIVERING RELIABLE POWER TO RUN THE CRITICAL EQUIPMENT NECESSARY TO BACK UP SERVERS AND COMPUTERS IF THEY ARE EXPOSED TO INCONSISTENT POWER DUE TO GRID-SUPPLIED POWER FAILURES.”

NAWIR IBRAHIM ➤ CENTER FOR ALTERNATIVE TECHNOLOGIES, KENYA

➤ LOCATION	➤ CHALLENGE	➤ SOLUTION	➤ OUTCOME
Nairobi, Kenya	Provide consistent power to critical equipment.	Back-up power system for computers and servers.	Kenya's first Green Certified building was achieved.



104 SAGM 06 375 BATTERIES

BACK-UP POWER FOR SENSITIVE INFORMATION

PROTECTION AGAINST POTENTIAL POWER FAILURES

LOCATION

Late in 2018, the European Union Delegation to Kenya relocated offices from the Upper Hill region of the Kenyan capital of Nairobi to the 21st floor of the Dunhill building in Westlands.

CHALLENGE

The delegation set very high standards regarding general security which also extended to requirements in terms of energy security. Due to the important nature of the information stored and the systems running on their servers and computers, it is critical that the equipment is not exposed to power fluctuations due to grid-supplied power failures.

SOLUTION

In order to ensure continuous power supply to the new offices, the decision was made to install a back-up system that included several back-up components and energy storage. The new system ensures that the offices never experience periods without power. If the grid fails, the offices and all of the equipment, devices and lights they use to perform their work, remain connected to the system and use the energy stored in the batteries.

SYSTEM SPECIFICATIONS

- Batteries: (104) Trojan SAGM 06 375
- Battery Life: 8+ years (per IEC 61427)
- Inverter-chargers: (17) STUDER Xtender XTH 6000-48
- Controller: (4) RCC-02 STUDER Remote Control Centre
- Battery Temperature Sensor: (4) BTS-01 STUDER

OUTCOME

This building was the first in East Africa to be assessed under the Green Star SA rating tool and was awarded 5-stars by the World Green Building Council. The sustainable design uses energy stored in fully recyclable AGM batteries to provide reliable power supply to the offices.

BATTERY SOLUTION



- 8+ Year Life Span
- Highest total energy delivered over life
- Lowest cost of energy over lifetime



PARTNERS



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