

CASE STUDY

A Bright Future for the Next Generation

Greensprings School and Rainbow College Lead the Way in Sustainable Education

In Nigeria's journey towards development and global competitiveness, the role of education at institutions like Greensprings School and Rainbow College is paramount, serving as a catalyst for innovation and leadership among young minds.

These schools prioritise reliable infrastructure, particularly consistent and cost-effective power supply, which is crucial for creating an optimal learning environment. With frequent power disruptions within the country that might hinder academic activities, the need for sustainable and uninterrupted energy solutions becomes essential not only for the success of these institutions but also for the nation's progress in a knowledge-driven economy.



The Key Stats

	Solution Delivered	Cooling and Power-as-a-Service (CPaaS)
	Energy Generation Type	Solar Power
	Project Tenor	10 years
	Sector	Education
	Location	Lagos, Nigeria
	Completion Date	Greensprings School: September 2018 Rainbow College: May 2019
	Installed Capacity	Greensprings School: 267kw (Full Hybrid) Rainbow College: 373kw (Full Hybrid)
	Annual Savings	Greensprings School: ₦12.5m Rainbow College: ₦50m
	CO₂ Offset (kg)	Greensprings School: 22,115 Rainbow College: 88,428

Greensprings School

Greensprings School is an independent, non-partisan, day and boarding school for boys and girls from 18months to 18years. We encourage students to be lifelong learners by instilling in them great confidence, respect, and a consciousness of societal needs.

We are goal-oriented and strive for continuous improvement in teaching and learning. We value not only academic success, but we also encourage talents of all kinds, whether in the arts, drama, music or sports.

Rainbow College

Rainbow College was established in September 1996 as the first all-boys' private college in Lagos, and two years later, in 1998, Rainbow College for Girls followed suit. The demand for high-quality education from the parents of pupils attending Pampers Private School is what drove Rainbow College to set such high educational standards.

By September 2005, the schools had merged to become a leading co-educational international school in Lagos, attracting numerous students from around the globe.

The Problem

Despite the growing importance of sustainable and reliable energy in Nigeria's education sector, many schools continue to struggle with unstable power supply and rising energy costs, problems that directly disrupt classroom time, student well-being, and school progress. As Greensprings School Lagos and Rainbow College Lagos further develop their facilities, academic programs, and boarding capacities, the need for continuous, environmentally-sound power becomes even more pressing.

The bigger question then becomes: how can primary and secondary institutions in Nigeria scale up renewable energy solutions so that their operations are uninterrupted, their sustainability secured over the long term, and their exposure to the fluctuations of conventional energy markets reduced

The Smart Choice for Reliable and Predictable Energy

At Starsight Energy, we understood their need for unwavering power and predictable costs, especially given the current economic climate. Our Cooling and Power-as-a-Service (CPaaS) model enables both schools to acquire a world-class system with zero upfront capital cost, thereby freeing up their capital to invest directly into their core business growth. The use of Tier 1 technology ensures that our equipment is of the highest quality, guaranteeing maximum efficiency, durability, and a longer operational life, providing unparalleled reliability for their critical operations.

The Results & Impact



Energy Cost Savings
The switch to solar energy has prevented CO₂ emissions, supporting global sustainability and demonstrating its commitment to environmental responsibility.



Diesel Consumption Reduction
The solar power systems reduced reliance on diesel generators, cutting fuel usage and improving energy efficiency.



Brand and Community Impact:
Reliable power supports a consistent learning environment and enhances the university's reputation as a leader in sustainability. This not only attracts environmentally conscious students and faculty but also strengthens Nile University's role as a forward-thinking academic institution in Nigeria.



Carbon Emissions Avoidance
With solar energy powering the campus, the university have significantly reduced power costs, allowing for better allocation of resources toward academic priorities.



Uptime
The renewable energy infrastructure has ensured an uninterrupted power supply across the campus, minimising disruptions to academic activities, research, and administrative functions

TAKE THE LEAP

It's time to rethink your energy strategies and consider the benefits of alternative, reliable energy sources. Join the movement toward sustainability and operational efficiency!

Explore how transitioning to solar power and battery systems can not only reduce your energy costs but also enhance your commitment to environmental stewardship.

Leading The Way In Renewable Energy For Schools

Greensprings School Lagos and Rainbow College Lagos' pioneering commitment to renewable energy marks transformative steps toward school-wide energy sustainability and resilience. These bold initiatives not only advance their environmental objectives but also align with national and global efforts to combat climate change.

Such renewable projects directly address persistent challenges, including unreliable grid supply and escalating diesel costs, which frequently disrupt academic schedules and school operations in Nigerian schools. By ensuring consistent, clean power across their campuses, Greensprings School Lagos and Rainbow College Lagos lay a robust foundation for long-term energy independence, operational efficiency, and environmental stewardship in the primary/secondary education sector.

As Nigeria accelerates its transition toward a more sustainable energy future, Greensprings School Lagos and Rainbow College Lagos stand out as models for how educational institutions can adopt renewable energy at scale. Their success offers a blueprint for other schools across the country, demonstrating that clean energy solutions are not only environmentally necessary but also financially and operationally sound.

About Starsight Energy

The Starsight Energy Africa Group is an Africa-focused pure-play commercial and industrial ("C&I") renewable energy service provider covering the full scope of C&I projects, from rooftop projects to large-scale corporate Power Purchase Agreement ("PPA") backed projects, including power-as-a-service and cooling-as-a-service.

We provide carbon reduction, power security and cost savings to blue-chip clients in several key economic sectors, including agro-processing, education, financial services, data storage, healthcare, and manufacturing.

Our presence spans three key geographical hubs (Southern, Western and Eastern Africa) with operations in Nigeria, Ghana, Kenya, Namibia, South Africa, Tanzania and Uganda.

Our primary objective is to offer complete solar solutions at no upfront cost, enabling our clients to reduce their energy expenses, enhance energy efficiency, and reduce their carbon footprint.

For any enquiries, visit