



Project Completion Report
Bomigo Basic School Solar Power System and IT Lab

Introduction

In 2020, Bright Senam Mensah attended Dream Renewables training. He left inspired, and later travelled with fellow trainees to local schools in the region to share his knowledge. During the visits, it was recognised that Bomigo Basic School did not have electricity or computers despite having a skilled IT teacher.

Two years after this, Bright successfully opened the Bomigo IT lab alongside Dream Renewables volunteers. Dream Renewables worked hard with Bright to complete the project, providing mentoring, technical skills and funds. Bright had the local knowledge, relationships and enthusiasm to make it happen.



The project

Dream renewables installed a solar powered IT lab to improve quality of education and access to resources for people from the community of Bomigo, while also providing school classrooms with lighting for after-hours activities and phone charging for the wider community.

The system includes:

- ✓ A 1.8kW, 7.2kWh hybrid solar power and energy storage system
- ✓ A dustproof and well-ventilated classroom and projector screen
- ✓ 15 computers, donated from businesses and individuals in the UK
- ✓ A projector, and laserjet printer
- ✓ A phone charging hub for community use
- ✓ Lighting for two adjacent classrooms



Local people exploring the new resource

The Impact

People from the local community helped to design the project after being given the opportunity to learn about new technology and match this to their needs. We believe that working in this way allows projects to have genuine and long-lasting impacts.

1. 300 students will go through a structured IT training programme
2. IT classes will be run for adults on the weekend
3. Other schools will be invited to use the IT lab
4. People in the community will have a resource for charging phones and other appliances
5. The headmaster is working on plans to open the space as a printing shop or Internet café during weekends to provide the community with an invaluable resource.



Performance at the Inauguration ceremony

What did Dream Renewables do?

This project was conceptualised and project managed by Bright Mensah, a teaching assistant from a local school, however, Dream Renewables aided him by providing the necessary funds and skills to make this project happen

- ✓ Designed and installed the solar power and battery system
- ✓ Installed electrical wiring to provide lighting to two adjacent classrooms the computer lab, and the phone charging hub
- ✓ Sourced 15 computers donated by businesses and individuals in the UK and Ghana
- ✓ Refurbished and set up the computer equipment
- ✓ Renovated the classroom to make it completely dustproof and well ventilated
- ✓ Mentored Bright in project management skills
- ✓ Worked with the headmaster and the parent and teachers associations to develop a financial sustainability plan so the school can generate some revenue to use for routine operation and maintenance of the system
- ✓ Trained 2 local people on basic monitoring and maintenance of the solar power system



Our volunteers and Trainees installing the solar power system