

Have sun!

**RENEWVIA ENERGY** 

SRE WI

# Success Story

Educaid Academy





## RENEWVIA ENERGY School, Kenya

#### **Background & Challenge**

The installation of the photovoltaic system at Educaid Academy was a complex endeavour, presenting numerous challenges due to the lack of local reference projects and the high cost of energy in Kenya. Constructing a separate building for the technology and hiring a dedicated employee to manage the system were crucial steps to ensure the project's success. The school's kitchen, the primary consumer of electricity, now benefits from the solar energy system, eliminating the need for heavy gas bottles and improving overall efficiency. Furthermore, the system has significantly enhanced the school's facilities, allowing air conditioning to be used in the headmistress's room and the teachers' room during consultations.

In an extraordinary turn of events, just as the team, including Tobias Nyakiya, Paul Odhiambo, and Nicholas Selby, commissioned the system, Kenya's national utility company reported a nationwide power outage. However, thanks to the solar panels which had charged batteries throughout the day, Educaid Academy remained a beacon of light and hope, unaffected by the blackout. This event underscored the importance and impact of Renewvia's systems, designed to withstand the challenges of remote and unstable grid locations.



RENEWVIA, a leading photovoltaic solutions provider, recently completed a pivotal solar installation at Educaid Academy, located in a rural area near Mombasa, Kenya. Educaid Academy is dedicated to enhancing educational opportunities for young people, serving 623 students from kindergarten to junior secondary school, and employing 41 staff members. This project was made possible through the generous support of various stakeholders, including a donation from the Thuringian State Chancellery, which enabled the purchase of essential kitchen appliances.

### **Project Background**

Educaid Academy implemented a solar power system with a peak load of 12 kW to enhance energy efficiency and reduce grid reliance. The installation features 30 IBC SOLAR panels (410 Wp each) mounted on the school's roof, seamlessly integrated with the existing KPLC connection for backup. Power electronics are housed in an on-site concrete powerhouse. This system aims to lower operational costs and promote sustainability, serving as a reliable power source and an educational tool for students.



#### **About IBC SOLAR**

IBC SOLAR is a leading full-service provider of energy solutions and services in the field of photovoltaics and storage. The company offers complete systems and covers the entire product range from planning to the turnkey handover of photovoltaic systems. The range includes energy solutions for private homes, trade and industry as well as solar parks. IBC SOLAR is a project developer and general contractor in these areas, and plans, implements and markets large-scale SOLAR projects worldwide. IBC SOLAR works closely with a network of Premium Partners who ensure competent and high-quality installation of the systems worldwide. IBC SOLAR was founded in 1982 in Bad Staffelstein by Udo Möhrstedt and is now a pioneer in the energy revolution in over 30 countries.