



CAPACITY
DEVELOPMENT



INSTALLATION

Solar PV System and Training at “Casa do Gaiato” Orphanage

SUMMARY

Country	Mozambique
Implementer	Azimut360
Co-implementer	Casa do Gaiato de Maputo
Target groups	Orphaned children and local youth
Duration	03/2022 – 06/2023
Type of energy use	Electrification

CHALLENGE

Mozambique is one of the poorest countries in the world with 72% of its population living in poverty. In addition, it is one of the countries with the highest HIV rate worldwide amounting to 13%. More than half of its population is under 18 years old, making it also one of the youngest countries overall. Since many children have lost their parents to HIV, approximately 13% are orphans. Even though education is one of the main pillars for sustainable development, Mozambican children only attend 3.5 years of school on average, and only 16% attend high school. These problems are amplified in rural areas, where only 5% of the population have access to electricity. In those cases where electricity is available, the national grid often proves unreliable and is prone to power cuts. This makes it impossible to run machinery reliably and further limits the quality of health care and education facilities.

IMPACT LOGIC

The project's main goal is to provide the orphanage and education centre Casa do Gaiato de Maputo with sustainable and stable access to electricity. To this end and with technical and administrative support from the Spanish non-profit engineering cooperative Azimut360, a 40 kWp solar PV system is installed at the premises of Casa do Gaiato. The system has enough capacity to power both the electrical appliances in the residential area, including freezers, lighting, kitchen, washroom appliances and computer systems, and those in the professional area, including machinery for carpentry and air compressors for cleaning. To foster local knowledge about solar energy, Azimut360 also helps to train 15 youths during the installation of the solar PV system – seven are residents of the orphanage, the remaining eight come from the surrounding region. Together with these youths, the technical team at Casa do Gaiato will ensure the long-term maintenance of the system.

INNOVATIVE PROJECT ELEMENTS

The project measures not only ensure the sustainable supply with electricity for Casa do Gaiato de Maputo, but also include important training for local youths, which provides them with prospective employment in an important sector. Furthermore, while considering economic needs, the project also considers aspects such as gender and rural development by encouraging girls and women to participate in the training. After the trainees leave the orphanage, they can apply their knowledge, and thus help to promote the use of solar power in the region.

FURTHER INFORMATION

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