



INSTALLATION



MAINTENANCE

# e-Education: Energy for Schools

## SUMMARY

Country	Zambia
Implementer	PAMODZI NDI ANA
Target groups	Students and teachers in Chipangali District
Duration	12/2021 – 05/2023
Type of energy use	Electrification

## CHALLENGE

The electrification rate in Zambia averages at only 31% overall with only 4% of the rural population having access to electricity. Especially for schools in remote locations, this poses a serious barrier to quality education. Besides the importance of electricity for basic needs including lighting there are two main challenges. First, students living in rural areas cannot complete their IT study programmes as energy supply and IT equipment including computers are not available. Second, it is difficult to motivate teachers, who are currently living and working in urbanised and electrified areas, to move to more rural and remote locations. In the long term this might lead to severe shortages of qualified teachers in rural areas. Accordingly, these challenges must be overcome in order to ensure a high level of quality education even in rural Zambia.

## IMPACT LOGIC

The primary aim of the project is to electrify five schools in rural villages with off-grid systems as the national grid infrastructure is unavailable. In order to ensure the success of the project, local stakeholders are contacted and connected with the relevant actors at each school to anchor the project locally. Each school is supplied with a solar PV system, a preassembled electrical cabinet and an appropriate supporting structure. Furthermore, the schools each receive a fully equipped computer science room consisting of five computers, one printer and one projector. In addition, to encourage teachers to remain at the schools or to move there, solar PV systems are installed at three teacher's houses at each school to allow energy access for domestic use. Not only are important local stakeholders included in the planning process, but the project also ensures that the schools are supported beyond the installation period. By providing electricity to teacher houses, which encourages teachers to come and work at the schools, the project provides support on another level than just the installation of solar PV systems at the schools.

## INNOVATIVE PROJECT ELEMENTS

The project presents a holistic approach with a sustainable long-term plan. Complementing the installations, each school receives support in establishing a sustainable business model for solar system monitoring, maintenance and management. In order to do so, technical staff is selected and trained in maintenance to support the schools.

## FURTHER INFORMATION

[www.gruene-buergerenergie.org](http://www.gruene-buergerenergie.org)