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Case Study - Raach Solar



CBI Q range MCB from Emcomp supply a village in Sierra Leone with electricity

RAACH SOLAR successfully commissioned a 100kW photovoltaic village power supply system close to Freetown in Sierra Leone.

The local NGO "WAMA GRISO" backed by funding of the German Ministry of Economic Cooperation (BMZ) implemented the water supply project and invested in a 100kW photovoltaic AC mini grid and water distribution system for their school and the nearby Mambo village, about 10km from the capital Freetown in Sierra Leone. "The school with about 400 students profits directly from clean borehole water and sees for the first time



electricity and lighting” says happily Mrs. Maria Walz, head of the NGO. “We did not want to compromise on quality of components and chose only the best suppliers and installer” added Mrs Walz.



The nearby village could soon profit from electricity supplies. At present, the installed water prepayment meters GRUNDFOS AQtap which work with a personalized electronic card per user, are there to manage and test the water consumption over a time. During this test period, water is donated for free to the school and population, which is especially important to be supplied during the dry season.



During nighttime a 150kWh industrial solar battery guarantees a 24hours / day electricity supply. The battery is protected by four 500 Amps EMCOMP hydraulic magnetic battery breaker assemblies which link the SMA inverter-chargers to the maintenance free lead-gel battery. The solar power system supplies four school buildings, a sickroom, a sewing room, a computer class and the school’s administration. Refrigerators and deep freezers will be soon added.



” We are happy to find in EMCOMP the right technology partner to boost rural development and renewable energy technologies. We also would like to express our thanks to the companies Heckert Solar modules, SMA inverters and BAE batteries for their continuous support of our business.

— Jürgen Raach , General manager of RAACH SOLAR



Would you like to know more about how Emcomp can assist you in your requirements for battery MCBs DC or how Emcomp can support you with assemblies?

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