



Hybrid System (PV - Genset / Grid)

The Don Bosco mini-grid is a quite complex PV installation. The purpose of this system is to provide reliable and renewable source of electric power for the entire Don Bosco Campus in Ashaiman / Tema.

The main PV installation is located in the power room of the Don Bosco Solar And Renewable Energy Centre. In addition to this system we have on the Hostel and the Container School PV modules which feed the mini-grid with SMA grid inverters. In our chapel we have installed a Studer PV-System which is also connected to the mini-grid. One PV system is installed in the Provincial House. This system is designed as a standalone system. It serves the demand of the Don Bosco community and the offices located in this building. In case this batteries are fully charged the PV modules feed into the Don Bosco mini-grid. When the power demand in this house is too big and the capacity of the installed batteries are not sufficient it take electric power from the mini-grid, (the batteries located in the Chapel, Canteen and the Power Room).

The Don Bosco canteen provide catering services to students, teachers and staff working on the campus. The canteen was renovated in 2021 with an additional block which is used by the catering department for practical training. The canteen solar system feed the canteen with energy and send surplus energy to the mini-grid.

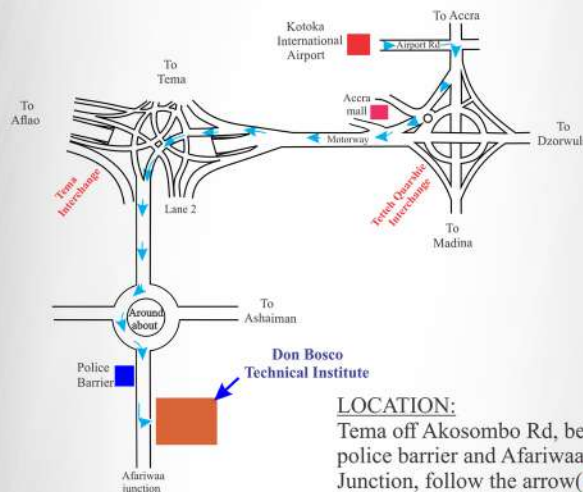
Don Bosco Centre is no longer dependant on ECG, the campus is completely 100% self reliant on solar energy .

Off grid PV - System

An off grid PV - System is the type of system which is not connected to the national grid (ECG).

All power is provided by the sun with the help of the installed PV - Modules. For night time or clouded and raining days when the sun cannot provide enough power. The energy is taken from the installed batteries. To keep the batteries at a reasonable size (reduction of cost) a stand by generator can be installed.

This installation is mostly done in the remote areas where the national grid is not available.



LOCATION:
Tema off Akosombo Rd, between
police barrier and Afariwaa
Junction, follow the arrow(➡)
GHANA POST - GPS ADDRESS:
GB-031-4412

Contact Info:

Don Bosco Solar And Renewable Energy Center
P.O.Box 776,
Tema / Ghana
Mobile No. +233 (0) 244 641 542
WhatsApp: +233 (0) 246 867 075
E-mail: donboscosolar2018@gmail.com
Website: www.solar-in-africa.org



DON BOSCO SOLAR INSTALLATION