



Solar Installation

Don Bosco TVET in Buterere

Bujumbura / Burundi, March ,2021



Installation Description

This solar installation is done in the Don Bosco TVET Center in Buterere. On this very large campus we find the following buildings: a large youth centre with big hall and classroom for studies, a Don Bosco Bar and Restaurant, a technical school with carpentry, electric and metal workshops, a house for the Salesian community, offices and the school administration block, as well as several classrooms. Also a big church with pastoral centre is located on this campus. The entire campus is now enjoying electric solar power and don't need any more the service of a generator or from the public grid. For the installation we chose an AC coupled system with a DC branch. To power the campus at night and rainy days. We installed seven BYD Lithium batteries with a total capacity of 108kWh. For the DC branch we selected two Victron MPPT charge controller 250/85 and connected 15 PV modules each (total 4950Wp). For the AC branch we used 3 Victron Quattro Inverter / Charger 48/15000 and three Fronius Symo 15kW. All together there are 210 PV modules installed on several buildings with a total power of 69kWp. The system is controlled by a Victron Color Control GX. For the remote control we are using Victron Remote Monitoring and Fronius Solar web.

Facts

Location

The solar installation was done in Don Bosco TVET in Buterere / Bujumbura / Burundi.

Installation Date

March, 2021

End Users

Salesian Community

Technical Data

- 7 BYD batteries each 15.4kWh.
- 210 PV modules 330Wp each = 69kWp.
- 3 Fronius grid inverter each 15 kW.
- 3 Victron Quattro Charger / Inverter 48V / 15.000VA.
- 2 MPPT Charge Controller 250/85.
- 1 Victron Color Control CCGX.



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