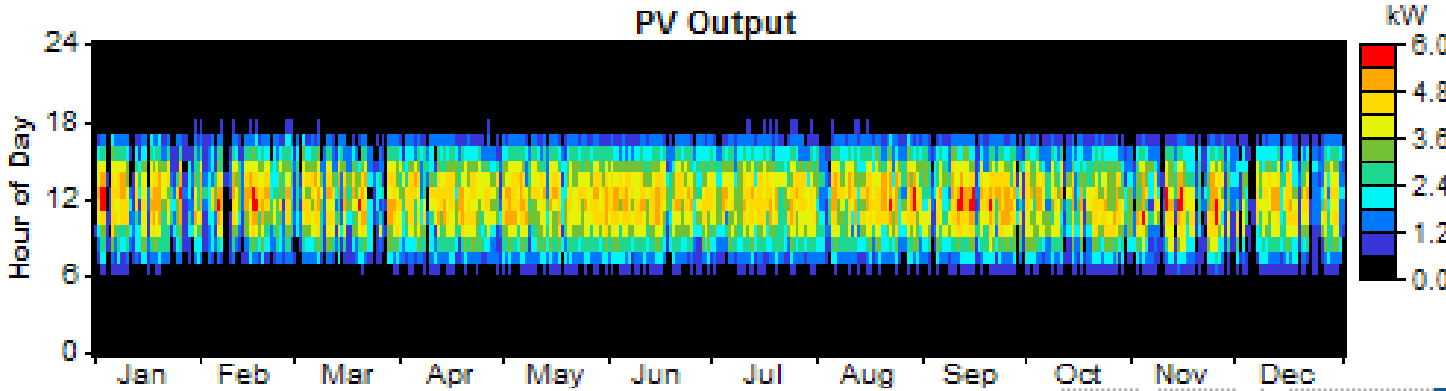


Project Profile



Solar system for a 12 rural BTS sites with 750W average power consumption in Angola



Description:

Likusasa designed and supplied the equipment for a solar powered rural BTS site, with an average power consumption of 750W, for Unitel Angola.

Scope of Work:

The power system consisted of 2 arrays of polycrystalline PV modules with 6000Wp, and 1500Ah deep cycling batteries. The load consisted of a low power outdoor BTS unit with 600W average consumption, a mini-link with 150W average consumption, and a cooling load of 200W peak. The site peak load was estimated at 930W.

A thermally insulated battery cabinet, which was shaded by the panels, was provided with free ambient cooling as standard. The battery compartment was cooled by a low power DC air conditioner.

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Project Facts and Figures:

Value	US \$0.8 million
Location	Throughout Angola
Client	Unitel Angola
Lead contractor	Brolaz Angola
Start and duration	2011, 8 months
Solar insolation level	5.5 kWh / m ² / day
PV array size	6000Wp (30 x 200Wp)
PV array elevation	24°
Site size	9m x 12m
Solar energy produced	10 030 kWh per annum
Excess solar energy produced	28%
Site autonomy	60 hours
Battery life	10 years



Likusasa