

Solar inverter production plant in Lomé





Overview

Can a solar power plant be installed in Togo?

Consumption data from 6 a.m. to 6 p.m. from the CEET Lomé A substation in Togo are considered. A statistical characterization is carried out then the PVsyst and Homer software are used to explore the possibilities of installing the solar power plant. The theoretical target area is a no man's land in the locality of Noépé near the Togo-Ghana border.

What is the UTM position of a photovoltaic power plant?

The UTM position is BG89 and the Joint Operation Graphics reference is NB31-05. The theoretical installation area of the photovoltaic power plant (Noépé) is shown in Figure 9 by Homer and Figure 10 presents the results of the simulation at $\cos\phi_i = 0.9$ by HOMER.

Does Togo have solar power?

TOGO being a country in humid and coastal West Africa, it has a significant solar resource . Unfortunately, its electricity supply is ensured by imports and some internal production, , .

How much energy does a solar module produce a year?

The power of the module considered is 550Wp. Thus, the highest annual energy to be produced is given by Homer with $\cos\phi_i = 0.81$ and amounts to 40.936 GWh per year compared to the lowest (32.34 GWh/year) given by PVsyst for $\cos\phi_i = 0.9$.



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