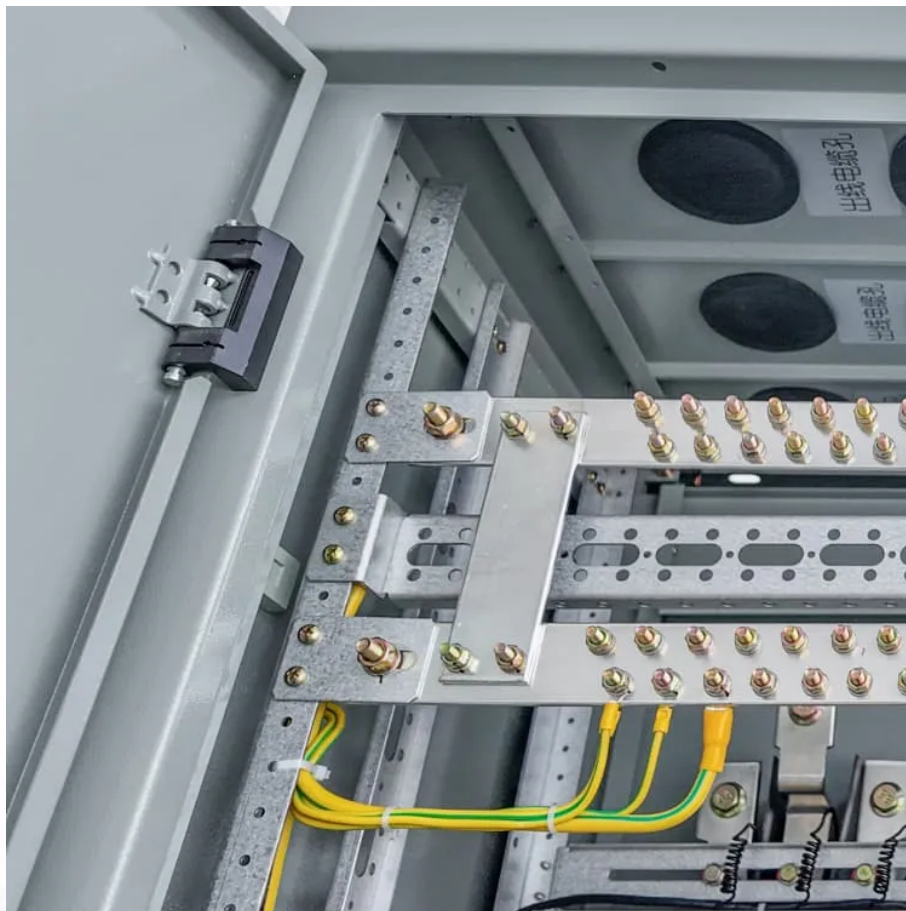


Kampala Off-Grid Solar Container 10MW





Overview

There is increasing interest in solar PV installations in Uganda, however, there is little or no information available on performance of solar PV systems in Uganda. Since solar PV performance is site specific, ther.

How much solar energy does Uganda have?

Given Uganda's total surface area of 236 040 km², and, on average, over 5 kWh/m²/day global solar radiation on horizontal surface, Uganda has more than 400 000 TWh of solar energy potential, each year falling on its surface area.

What is the energy sector in Uganda?

Overall, the energy sector of Uganda is dominated by use of biomass of fuel wood, charcoal and agricultural residues, contributing 88% to national primary energy mix by mid-2019, while electricity and petroleum products contributed 2% and 10%, respectively [32]. This overdependence on wood fuel is mainly due to its accessibility and affordability.

How much does a solar power plant cost?

As expected, all the indicators except levelized cost of energy (LCOE), changes with feed-in tariff. The calculated LCOE for this solar power is US\$0.1087/kWh, which is less than the global weighted average of US\$0.1200/kWh and within the range of LCOE (US\$0.0900/kWh to US\$0.3000/kWh [50], for solar PV power plants commissioned in 2016.

What is Soroti solar power plant?

The Soroti solar power plant is the first grid-connected solar plant in Uganda and, at the time of its commissioning in December 2016, it was the largest solar power plant in East Africa.



Kampala Off-Grid Solar Container 10MW

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