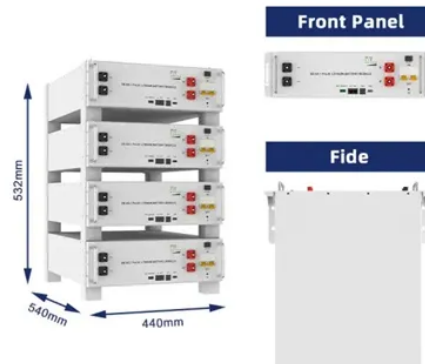




The park s photovoltaic panels are connected to the grid



Overview

In a grid connected PV system, also known as a “grid-tied”, or “on-grid” solar system, the PV solar panels or array are electrically connected or “tied” to the local mains electricity grid which feeds electrical energy back into the grid. The International Energy Agency (IEA) estimates that 450 gigawatts (GW) of new green power will be installed worldwide by the end of 2023, two-thirds of which will be photovoltaic (PV) systems. The transmission grid is the network of high-voltage power lines that carry electricity from centralized generation sources like large power plants. That point is called the “point of interconnection,” or POI. In the previous tutorial we looked at how a stand alone PV system uses photovoltaic panels. The grid is a large network that includes power stations, transformers and transmission lines. When you plug in your phone, turn on a light, or use your microwave, the.



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