

What rack configurations are used in photovoltaic plants?

The most used rack configurations in photovoltaic plants are the 2 V &#215; 12 configuration (2 vertically modules in each row and 12 modules per row) and the 3 V &#215; 8 configuration (3 vertically consecutive modules in each row and 8 modules per row). Codes and standards have been used for the structural analysis of these rack configurations.

How to choose suitable locations for photovoltaic (P V) plants?

The selection of the most suitable locations for photovoltaic (P V) plants is a prior aim for the sector companies. Geographic information system (G I S) is a framework used for analysing the possibility of P V plants installation. With G I S tools the potential of solar power and the suitable locations for P V plants can be estimated.

Does a ground-mounted photovoltaic power plant have a fixed tilt angle?

A ground-mounted photovoltaic power plant comprises a large number of components such as: photovoltaic modules, mounting systems, inverters, power transformer. Therefore its optimization may have different approaches. In this paper, the mounting system with a fixed tilt angle has been studied.

What affects the gap between photovoltaic modules in the north-south direction?

(iv) The gap between the photovoltaic modules in the North-South direction is affected by the longitudinal spacing for maintenance, and it gives rise to a smaller influence of the parameter length of the rack configuration on the number of photovoltaic modules that can be installed in that direction.

How to optimize a photovoltaic plant?

The optimization process is considered to maximize the amount of energy absorbed by the photovoltaic plant using a packing algorithm (in Mathematica(TM) software). This packing algorithm calculates the shading between photovoltaic modules. This methodology can be applied to any photovoltaic plant.

Does a 3 v 8 photovoltaic plant have a tilt angle?

The results show that the 3 V &#215; 8 configuration with a tilt angle of 14(&#176;) increases the amount of energy captured by up to 32.45% in relation to the current configuration of Sigena I photovoltaic plant with a leveled cost of the produced electricity efficiency of 1.10.

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