

Do photovoltaic solar trees generate a structured knowledge?

Were reviewed, in the scientific literature, the subject photovoltaic solar trees considering their academic, technological and social relevance, to generate a structured knowledge.

What are the advantages of a photovoltaic solar tree?

The main advantage of a photovoltaic solar tree, when compared to photovoltaic systems with single orientation panels, is the possibility of optimizing the orientation of each solar panel. This characteristic may allow the energy generation to be optimized in desired periods.

What are the design parameters of photovoltaic solar tree development?

This research aimed to survey the state-of-the-art review of photovoltaic solar tree development. Thus, design parameters such as: modeling and simulation; topology; orientation of the panels; constructive characteristics; solar tracking; occupied area; and multiple uses, were analyzed to evaluate trends in these lines of research.

What is independent photovoltaic power generation?

Independent photovoltaic power generation is also called an off-grid photovoltaic system, which is different from a grid-connected system by adding a controller, battery, and AC inverter. Sunrise company China has thousands of solar system solutions, focusing on the design of the distributed photovoltaic system.

Should a photovoltaic system be based on a tree topology?

Variables such as local altitude and clearness index are also influential parameters. This means that designing a photovoltaic system with fixed orientation panels based just on local latitude may not always be the best option. It is attractive to design a photovoltaic system based on a tree topology.

Why is tree topology important for photovoltaic systems?

It is attractive to design a photovoltaic system based on a tree topology. Natural trees are effective in absorbing sunlight due to the diversified orientation of their leaves, which optimizes solar radiation absorption. Consequently, not all leaves will have optimal incidence angles at the same time [14].

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