

Which solar cell system is better





Overview

Which type of solar cell is best?

The first type of solar cell developed in 1954 by Bell Labs used an N-type doped silicon wafer, but over time, the more cost-effective P-type silicon became the dominant cell type, with over 80% of the global market in 2017 using P-type cells.

Which solar panels are more efficient?

However, the latest REC, Longi, Huasun, Trina, and Canadian Solar panels also utilise more efficient N-type heterojunction (HJT) and TOPCon cells. Panels featuring HJT cells offer an extremely low power temperature co-efficient, which means they can outperform even IBC cells under certain conditions.

Why is solar panel efficiency important?

Solar panel efficiency is one of several important factors and is dependent upon both the PV cell type and panel technology. Average panel efficiency has increased considerably over recent years from around 16% to well above 22% as manufacturers incorporate the latest cell technologies and innovations.

Do solar panels produce more power?

Given the same amount of sunlight shining simultaneously on two equal-sized solar panels with different efficiency ratings, the more efficient panel will produce more power than the less efficient panel. Solar panels comprise multiple silicon solar cells, which determine their overall efficiency rating.



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