# Photovoltaic panels LONGi and photosynthetic silicon energy

Is Longi Green Energy a crystalline silicon solar module?
China's Longi Green Energy has set a new world record for crystalline silicon solar module efficiency, according to a certification report from Germany's Fraunhofer ISE. Longi's independently developed HPBC 2.0 module has achieved a conversion efficiency of 25.4%, surpassing previous global records.

How efficient are LONGi Solar cells?
The theoretical efficiency limit for crystalline silicon solar cells is commonly viewed as 29%; LONGi BC cells have already achieved 26.5%. That means LONGi has already reached over 91% of the theoretical efficiency limit. BC technology therefore represents the ultimate technology route in our view.

What will Longi do for the photovoltaic industry?
BC technology is set to be a pivotal milestone in the evolution of the photovoltaic industry,and LONGi's uptake of this technology will mirror our pivotal role in the industry's shift from polycrystalline to monocrystalline technology through our development of RCZ technology and diamond wire cutting.

Is Longi a record breaker for solar cells?
Record-breaker LONGi Once Again Sets a New World Efficiency for Silicon-perovskite Tandem Solar Cells

Which crystalline silicon solar module has the best conversion efficiency?
China's Longi Green Energyhas set a new world record for crystalline silicon solar module efficiency with its independently developed hybrid passivated back contact (HPBC) 2.0 module,achieving a conversion efficiency of 25.4%,according to a certification report from Germany's Fraunhofer Institute for Solar Energy Systems (Fraunhofer ISE).

Is back contact the future of crystalline silicon PV?
Leon Zhang: LONGi considers back contact (BC) technology as the future of crystalline silicon PVin view of its great potential for efficiency maximisation. The theoretical efficiency limit for crystalline silicon solar cells is commonly viewed as 29%; LONGi BC cells have already achieved 26.5%.

LONGi"s technological and manufacturing leadership in solar wafers, cells and modules underscores our commitment to helping accelerate the clean energy transition. By offering high-quality, reliable products and systems, we provide ...

In the recent paper titled "Silicon heterojunction back contact solar cells by laser patterning", LONGi Green Energy Technology Co., Ltd. (referred to as "LONGi") reported for the first time that crystalline silicon solar ...

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Part 1 of the PV Cells 101 primer explains how a solar cell turns sunlight into electricity and why silicon is the semiconductor that usually does it. ... or the electricity output of a PV system over time. To boost energy yield, ...

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