Advanced solar

Chase Solar is a solar energy company providing advanced solar energy solutions to our clients. We are the sole system integrator of Tsinghua Solar and Tus-Clean Energy with partnership with Canadian Solar.

We examine the latest solar panels and explain how advanced PV cell technologies help improve performance and efficiency, plus we highlight the most advanced panels from the leading manufacturers. Learn about recent innovations such as micro busbars, high-density heterojunction and TOPCon N-type cells.

We"re seeing advances in tandem technology, which is why we named super-efficient tandem solar cells one of our 2024 Breakthrough Technologies. But perovskites" nasty tendency to degrade is a...

Perovskite materials could potentially replace silicon to make solar cells that are far thinner, lighter, and cheaper. But turning these materials into a product that can be manufactured competitively has been a long struggle.

Solar cells that combine traditional silicon with cutting-edge perovskites could push the efficiency of solar panels to new heights. By Emma Foehringer Merchant archive page

7 · 1:09. A leading Chinese solar manufacturer announced plans for a new factory in Southwest China, in a bet that continuing to advance technology in the sector will outweigh the risks of adding to ...

By capturing solar energy without obstructing natural light or obstructing views, these advanced panels enable buildings to be both energy-generating and visually striking. Whether used in modern skyscrapers or residential homes, transparent solar panels exemplify the fusion of form and function, paving the way for a greener, more sustainable ...

Amy Nordrum. October 1, 2024. First Solar is expanding production of its thin-film solar cells and opening new factories to meet a surge of demand. Meanwhile, it"s investing in perovskites--tiny...

2 · Quantum dot solar cells (QDSCs) have been noted for their exceptional optoelectronic properties, including strong light absorption and a tunable bandgap, which are vital for photovoltaic applications. However, quantum dots (QDs) are limited by their electronic properties and stability owing to the insulating nature