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China Solar PV News Snippets: TCL TZE Starts Mass Production Of New-Gen BC Modules & More

Renshine Solar partners on perovskite materials; Maxwell invests RMB 90 million in Leascend subsidiary; SUNY begins in-orbit validation of space PV encapsulation material.

TCL TZE has rolled out a new generation of high-efficiency BC modules, featuring a low-light performance coefficient above 95%, a maximum module efficiency of 25.2%, and power output up to 680 W. Image Credit: TCL TZE

TCL TZE Starts Mass Production of New BC Modules

Leading integrated solar manufacturer TCL TZE has rolled out a new generation of high-efficiency back-contact (BC) modules from its Tianjin manufacturing base.

The company said the modules integrate proprietary BC-specific silicon wafers and a new cell-level hot-spot prevention design that lowers hot-spot temperatures by more than 50°C compared with conventional modules.
The BC modules feature a low-light performance coefficient above 95%,

with a maximum module efficiency of 25.2% and power output up to 680 W. TCL TZE said the products are designed for both utility-scale and commercial & industrial (C&I) PV applications.

Renshine Solar has signed a strategic cooperation agreement with perovskite materials supplier Jingling Technology to jointly develop key perovskite materials and downstream applications. Image Credit: Renshine Solar

Renshine Solar Partners with Jingling Technology on Perovskite Materials

Perovskite solar developer Renshine Solar has signed a strategic cooperation agreement with perovskite materials supplier Jingling Technology to jointly develop key perovskite materials and downstream applications.

The partnership will focus on materials, including microcrystalline substances and fullerenes, aiming to establish an integrated innovation platform spanning core materials through module applications. The companies also plan to expand perovskite deployment in utility-scale solar plants and space PV applications.

The collaboration includes establishing a joint R&D center to accelerate

commercialization. Jingling Technology brings its expertise in advanced electronic materials to this partnership, including perovskite absorber microcrystalline materials with 99.9999% purity, while Renshine Solar will provide module manufacturing, equipment integration, and system solution capabilities.

Earlier this month, Renshine Solar announced that it is developing the 'world's largest' perovskite BIPV rooftop project.

Maxwell Invests RMB 90 Million in Leascend Subsidiary

Heterojunction (HJT) solar cell manufacturer Leascend announced that PV equipment supplier Maxwell will invest RMB 90 million in its subsidiary, Meishan Leascend, through a capital increase.

Under the transaction, RMB 42.525 million will be added to registered capital, with the remaining amount recorded as capital reserve. Following the investment, Maxwell will hold a 4% stake in Meishan Leascend, whose registered capital will increase from RMB 1.02 billion to RMB 1.06 billion.
Leascend said the investment is intended to strengthen its strategic position in ultra-high-efficiency HJT solar cell technologies.

Earlier this month, Leascend and satellite manufacturer ADA Space announced the establishment of a joint venture, Leascend Guoxing Space Technology (Sichuan) Co., Ltd.

Xingyi Xinneng (SUNY) has launched and begun in-orbit validation of its proprietary CPI flexible encapsulation material for space PV applications. Image Credit: SUNY, via WeChat

Flexible Space PV Encapsulation Material

Xingyi Xinneng, a satellite perovskite solar developer operating under the SUNY brand name and backed by Drinda Corporation, has launched and begun in-orbit validation of its proprietary CPI flexible encapsulation material for space PV applications.

The material was launched aboard the 'Youxi' satellite (Tianyan-27) from the Jiuquan Satellite Launch Center on May 15 and has entered sun-synchronous orbit.

Designed for flexible solar wings and lightweight space PV systems, the ultra-thin encapsulation material features a thickness of around 20 μm and an areal density below 30 g/m^2. The current validation program involves flexible HJT cells encapsulated with the CPI material, which are being tested under space radiation, atomic oxygen erosion, temperature cycling, and exposure to energetic particles.

SUNY said it plans to begin in-orbit validation of integrated perovskite cell + CPI products in Q3 2026.