

# Sunwoda unveils polymer-based solid-state battery cell with 400-Wh/kg energy density

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## Sunwoda plans a 0.2-GWh pilot production line, aiming for mass production by 2026 at competitive costs

Chinese battery-maker Sunwoda has unveiled a new generation of solid-state battery cells, marking a new advancement in this emerging battery technology space. The company showcased its Xin-Bixiao polymer all-solid-state battery, which boasts an energy density of 400 watt-hours per kilogram (Wh/kg) and a cycle life of 1,200

cycles, on the sidelines of the 2025 New Energy Battery Industry Development Conference in mainland China. The event was organized in Zaozhuang city, Shandong province, mainland China.

The company plans to establish a 0.2-GWh pilot production line for these cells by the end of 2025. Additionally, Sunwoda has developed laboratory samples of lithium metal super batteries with an energy density of 520 Wh/kg.

It can be recalled that Chery Automobile had recently unveiled an all-solid-state battery module featuring a cell energy density of up to 600 Wh/kg, promising to provide electric vehicles a driving range of 1,200-1,300 km on a single charge. Chery aims to start vehicle integration testing for these batteries in 2027.

In July 2024, Xu Zhongling, Sunwoda's vice president of research and development, said that the company had developed all-solid-state batteries with a capacity of 20 ampere-hours (Ah) and energy density exceeding 400 Wh/kg.

Sunwoda was in the process of constructing an all-solid-state battery production line, targeting mass production by 2026 with a capacity of 1 GWh. Furthermore, the battery-maker plans to complete laboratory samples with energy densities exceeding 700 Wh/kg by 2027. The company also plans to reduce the cost of polymer-based all-solid-state batteries to 2 yuan (about \$0.281) per watt-hour by 2026, aligning with the cost of semisolid-state batteries.

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