

Can solid-state batteries be produced in Europe?

The Chair of Production Engineering of E-Mobility Components (PEM) at RWTH Aachen University has completed a study on the future production of solid-state batteries in Europe together with partners. Among other things, the experts analyze the global activities in this area and work out the unique selling points of domestic production.

What is a solid-state battery?

The solid-state battery uses a solid electrolyte in the case of both BASQUEVOLT and Blue Solution this is a polymeric compound. The solid-state battery has several potential advantages over traditional Li-ion batteries, including higher energy density, longer lifespan, faster charging times, and improved safety.

Why is solid-state battery development important in China?

In China, solid-state battery development is a key focus in the "New Energy Vehicle Industry Development Plan (2021-2035)," with policies emphasizing the importance of scaling up new energy storage technologies. Globally, solid-state batteries have become a strategic priority, marking a pivotal moment for the new energy sector.

Are solid-state batteries the future of energy storage?

Solid-state batteries stand at the forefront of energy storage revolution, promising to reshape how we power everything from electric vehicles to renewable energy systems. Recent breakthroughs by European researchers have achieved unprecedented energy density levels, pushing these batteries closer to mass-market adoption.

Can solid-state batteries be commercialised?

According to the consortium study, partnerships for the commercialisation of solid-state batteries are currently emerging worldwide, each pursuing their own approaches.

Are solid-state batteries better than conventional lithium-ion batteries?

Recent performance data from leading European research institutions reveals significant improvements in solid-state battery technology. The latest prototypes demonstrate energy densities reaching 400-500 Wh/kg, nearly double that of conventional lithium-ion batteries.



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