



Blue solid state battery

Is blue solutions building a solid-state battery ecosystem in Canada?

Quebec-based battery maker Blue Solutions just struck a co-development deal with the world's largest electronics manufacturer and is looking to build out an entire solid-state battery ecosystem, potentially in Canada. Blue Solutions's Boucherville, Que., plant has quietly been producing long-range, solid-state batteries since 2007.

What is a solid-state battery?

In the global race for innovation, the "solid-state" battery is recognized as one of the most promising future paths. The main characteristic of these batteries is its solid electrolyte, as opposed to conventional lithium-ion batteries where the electrolyte is liquid.

Are blue solutions solid-state batteries cheaper than nickel-manganese-cobalt batteries?

Blue Solutions' solid-state batteries are lithium-metal-polymer (LMP) batteries. Bouveret cites a 30 per cent cheaper manufacturing cost to making LMP batteries compared to nickel-manganese-cobalt (NMC) batteries.

When did Bolloré start using solid-state batteries?

Bolloré began its research into solid-state batteries in 1980. Bouveret says that some Blue Solutions batteries have been in use since 2011. The Blue Solutions batteries currently found in transit buses are the company's third-generation model. (The company is targeting 2028 for production of its fourth-generation battery.)

Are solid-state batteries better than Li-ion batteries?

Although Li-ion battery technology has been investigated for many years, a major breakthrough, the invention of solid-state batteries, has only recently arrived. It offers better safety, higher energy density, and improved cycle life.

Are solid-state batteries safe?

Additionally, it may raise the danger of oxidation and thermal runaway. Solid-state batteries must have reliable and effective sealing mechanisms to stop moisture and air from entering the battery compartment. The stability of the battery can be improved by using solid electrolyte materials that are less vulnerable to moisture and air exposure.

Blue Solutions, a solid-state battery maker, has entered into a memorandum of understanding with Hon Hai Technology Group (Foxconn) and its battery material design subsidiary SolidEdge Solution Inc., to develop a solid-state battery ...

They are the only manufacturer of solid-state batteries for electric vehicles on an industrial scale - and yet they are hardly in the spotlight: French Bolloré subsidiary Blue Solutions developed and commercialised



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batteries with ...

To bring its cutting-edge solid-state battery technology to diverse markets, Blue Solutions and its customers are actively collaborating through Joint Development Agreements (JDAs). These partnerships with leading players in various ...



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