



# Solid state battery company working with toyota

What company will Toyota use to mass produce solid-state batteries?

Toyota has struck a deal with fellow Japanese company Idemitsu Kosanto mass produce ultra-high-range EVs with solid-state batteries. Using material developed by Idemitsu Kosan will allow Toyota to commercialize these energy-dense batteries by 2028.

Will Toyota make solid-state EV batteries?

Last October, Toyota announced signing a deal with Japanese petroleum company Idemitsu Kosanto mass produce solid-state batteries. The collaboration will focus on sulfide solid electrolytes, a promising material for EV batteries. According to Toyota, the two companies have been working together on materials development since 2013.

Can Toyota produce solid-state batteries at scale?

Toyota is collaborating with Panasonic through their joint venture, Prime Planet Energy & Solutions, to produce solid-state batteries at scale. However, challenges remain: Material Sourcing: Solid electrolytes are difficult and expensive to produce. Durability Testing: Solid-state cells must withstand real-world road and climate conditions.

Does Toyota have a solid-state battery partnership with Idemitsu?

While Toyota isn't the only company reaching outside the auto industry for solid-state battery collaboration, its partnership with Idemitsu is unique. Idemitsu is a petroleum corporation, and every other automaker is working with technology or battery companies.

Will Toyota make ultra-high-range EVs with solid-state batteries?

Toyota has struck a deal with Idemitsu Kosan to mass produce ultra-high-range EVs with solid-state batteries. This is the first major update on Toyota's plans to be the first to offer these next-gen batteries.

Is Toyota launching a solid-state battery car?

Toyota has laid out a phased approach to launching its solid-state battery vehicles: The first models equipped with solid-state batteries are expected to be high-end or performance-oriented vehicles, gradually making their way into more affordable segments as production scales up.

In 2019, Toyota announced that it would debut its solid-state battery EV in the Tokyo Olympics, but COVID-19 dashed that plan. In 2020, Toyota established Prime Planet Energy & Solutions, Inc., a joint venture with Panasonic to ...

Toyota and Idemitsu Kosan partner to build a lithium sulfide plant for all-solid-state EV batteries, boosting Japan's battery supply chain. Set for 2027-2028, this \$142M facility aims to accelerate solid-state battery



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production ...

Our first solid-state battery is expected to offer 20% increase in cruising range 4 and a charging time of 10 minutes or less 1. Moreover, a higher specification Li-ion solid-state battery with 50% more driving range than the "Performance" ...



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