

# Toyota says solid-state battery breakthrough can halve cost and size

Will Toyota halve battery size?

Toyota has unveiled ambitions to halve the size, cost and weight of batteries for its electric vehicles following a breakthrough in its solid-state battery technology.

Why did Toyota announce a 'breakthrough' in lithium-ion battery technology?

Last September, Toyota announced plans for their improved lithium-ion batteries, as well as a "breakthrough" in solid-state battery technology. It's notable, because the company had been resisting its transition to electric vehicles (EVs), focusing instead on hybrids and vehicles powered by hydrogen fuel cells.

Will solid-state batteries solve Toyota's battery problems?

Shares in Toyota have risen 13 per cent since the company announced its solid-state batteries plan last month. But Hiroki Nakajima, its chief technology officer, cautioned that the company did not necessarily see the technology as "the ultimate solution" for battery challenges.

Is Toyota launching a solid-state battery technology?

The comments come after the world's largest carmaker by sales surprised investors last month with plans to commercialize its solid-state battery technology in an electric vehicle by 2027 at the earliest. Toyota is also working on the technology with Panasonic through their joint battery venture.

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.

Are solid-state batteries a 'game-changer' for Toyota?

For Toyota, which has been slower than rivals to roll out electric vehicles, analysts said solid-state batteries could be a "game-changer" to narrow the gap with Tesla. Shares in Toyota have risen 13 per cent since the company announced its solid-state batteries plan last month.

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Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

