

Brussels battery technologies

Brussels, 14 September 2023 - At the recent launch of its BEV Factory Toyota Motor Corporation (Toyota) revealed that its next-generation BEVs (battery electric vehicles) will start production in 2026.

Toyota plans to offer advanced specification BEVs that are loved as driving machines.

Not only will they be designed and built differently, they will also be powered by a range of new advanced batteries developed specifically to exceed Toyota customers' diverse needs and expectations.

During a recent technical workshop under the theme of "Let's Change the Future of Cars", Toyota communicated a first insight into its next-generation BEV breakthrough technologies, including a preview of its advanced battery technology rollout plan.

Takero Kato, president of Toyota's BEV Factory, indicated that the next-generation BEVs will first hit the market in 2026 and that 1.7m of the 3.5m BEVs Toyota expects to sell by 2030 will be these next-generation models. He also highlighted that a range of battery technologies will be key to appealing BEVs to a wider range of customers and their needs.

We will need various options for batteries, just like we have different variations of engines. It is important to offer battery solutions compatible with a variety of models and customer needs

Toyota has unveiled four next generation batteries including state-of-the-art advances with both liquid and solid electrolytes, and gave a preview of two further steps with solid electrolyte battery technology.

Improved performance from liquid electrolyte batteries

Batteries with liquid electrolytes, which are currently the mainstream technology for BEVs, are being further developed by Toyota to deliver improved energy density, cost competitiveness and charging speeds.

There are three main technologies under development for liquid electrolyte batteries - "Performance", "Popularised" and "High Performance"

Figure: Monopolar vs. Bipolar structure

Breakthrough with Solid-State Batteries [Lithium-Ion]

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Web: <https://www.kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

