

## Manila solid-state batteries

The electric-vehicle market is gaining traction in the Philippines.

Have you seen the increase of charging stations in Metro Manila? Here is a list from Unbox.Ph:

EV penetration in the Philippines According to the Department of Energy, the Philippine government aims 10% penetration rate for electric vehicles for road transport (motorcycles, cars, jeepneys) by 2040, a 5% aggregate energy savings from oil and electricity by 2040, and deploy applicable Alternative Fuel Vehicles for transport and non-transport sector.

As the electric-vehicle (EV) market continues to grow, various stakeholders are finding ways to hurdle technical mountains.

How solid-state batteries could revolutionize electric vehicles Among the biggest issues of EV are batteries—their charging capabilities and environmental footprint of lithium-ion batteries. However, a new type of 3D solid-state battery developed in the Netherlands could enable rapid charging and power the next generation of electric vehicles, according to LionVolt.

Solid-state batteries has the potential to charge faster and contain enough power internal combustion engine cars even on fast lane of highways.

It would be a few more years before we revolutionize the car industry. But we could hope for a more sustainable one with the steps the country is currently taking.#

Energy, like art, is life. The 1987 movie Batteries Not Included follows tenants who enlist alien robots to save their building. In the sci-fi film, aliens settle in the building's shed, forming a bond with the tenants.

Fast forward to 2024: A real-life, power-saving battery that lasts longer, charges faster, and cuts the risk of fire--sounds too good to be true, right?

Solid-state batteries are poised to deliver exactly that. With cutting-edge designs swapping liquid electrolytes for solid ones, they promise to redefine how we power electric vehicles, smartphones, air taxis, and more.

While industry giants like CATL, BYD and QuantumScape are racing to commercialise this technology, questions loom: Can they overcome the high production costs?

Will they scale in time? Experts suggest that by 2025, the game-changing potential of solid-state batteries may finally hit the market.



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