# Paris lithium-ion battery technology

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ProLogium"s 100 percent silicon composite anode enhances energy density and fast-charging performance.

ProLogium Technology, which specializes in the development and production of lithium ceramic batteries, has unveiled its 100 percent silicon composite anode battery.

According to a press release by ProLogium, the battery technology has been adopted in partnership with Germany"s FEV Group to make a next-generation battery pack.

The company says that the next-generation LCB battery surpasses traditional lithium-ion batteries in energy density and charging efficiency. It"s a step forward in the process of commercialization of lithium ceramic batteries, marking a significant step towards its adoption in the industry.

ProLogium"s 100 percent silicon composite anode enhances energy density and fast-charging performance, the company said in the press release.

The system currently achieves a "volumetric energy density of 749 Wh/L and a gravimetric energy density of 321 Wh/kg, with projections to increase to 823 Wh/L and 355 Wh/kg by the end of 2024."

When compared to traditional lithium iron phosphate battery (under 200 Wh/kg), and Lithium-Nickel-Manganese-Cobalt battery (NCM) battery (200 to 300 Wh/kg), the ProLogium LCB has surpassed them in performance.

The test data from T?V Rheinland shows that the cell can charge from 5 percent to 60 percent in just five minutes and reach 80 percent in 8.5 minutes. This greatly impacts the vehicle range, and also significantly reduces charging time.

ProLogium has introduced the "Small Battery, Big Future" concept, which is aimed at revitalizing the EV industry by offering a potent blend of efficiency, performance, and sustainability.

"With only 66% of the total energy capacity of current lithium-ion batteries (from 83 kWh to 55 kWh), ProLogium has cut vehicle weight by 300 kg (661 pounds), the press release mentioned.

While the weight cut will benefit the electric vehicles (EVs) using ProLogium"s technology, they will also benefit from the 186 miles (300 km) approximate range that it can get from just a five-minute charge.

This outpaces the industry"s current 30-minute average charging time and reduces the wait time by a massive 83.3 percent.

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