

# Seoul cylindrical lithium iron phosphate battery manufacturer

Are Korea's three key battery makers launching a lithium-iron-phosphate battery?

Korea's three key battery makers -- LG Energy Solution Ltd., Samsung SDI Co. and SK On Co. -- are leaning into so-called lithium-iron-phosphate (LFP) battery technology as fast as they can, according to Byoungwoo Kang, a professor at Pohang University of Science and Technology who conducts research with Korean cell firms.

Are South Korean battery companies a suitable alternative to Chinese batteries?

The deal is LGES' first large-scale supply deal for LFP batteries and could indicate that South Korean battery companies are a suitable alternative to their Chinese counterparts for LFP batteries. LGES claims that it will offer a competitive price for its LFP batteries.

Why are South Korean battery makers accelerating the development of LFP technology?

Pushed by new market dynamics, South Korean battery-makers, known for their expertise in nickel-based lithium batteries, are accelerating the development of LFP technology. This is also fueled by the expiry of core LFP patents in 2022, allowing LFP battery production outside of mainland China.

Why is lithium iron phosphate a key step in cost control?

Intensifying competition and slowing demand for battery-electric vehicles are pressuring carmakers to lower manufacturing costs. The lithium iron phosphate (LFP) battery technology is emerging as a key step in cost control, with almost all major global automakers looking to integrate the battery chemistry into their product portfolios.

Will a vendor diversification strategy create opportunities for South Korean battery companies?

This vendor diversification strategy is expected to create opportunities for South Korean battery companies such as LG Energy Solution (LGES), SK On and Samsung SDI to increase their stake in the LFP market.

Where do LFP batteries come from?

CATL will supply LFP batteries to Ampere from its Hungary-based plant and LGES will supply NCM and LFP batteries from its Poland-based facility. The first Renault models with LFP technology are scheduled to launch in early 2026.

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