



UK BATTERY
INDUSTRIALISATION
CENTRE

Battery trendspotting: The view from UKBIC's Chief Technology Officer





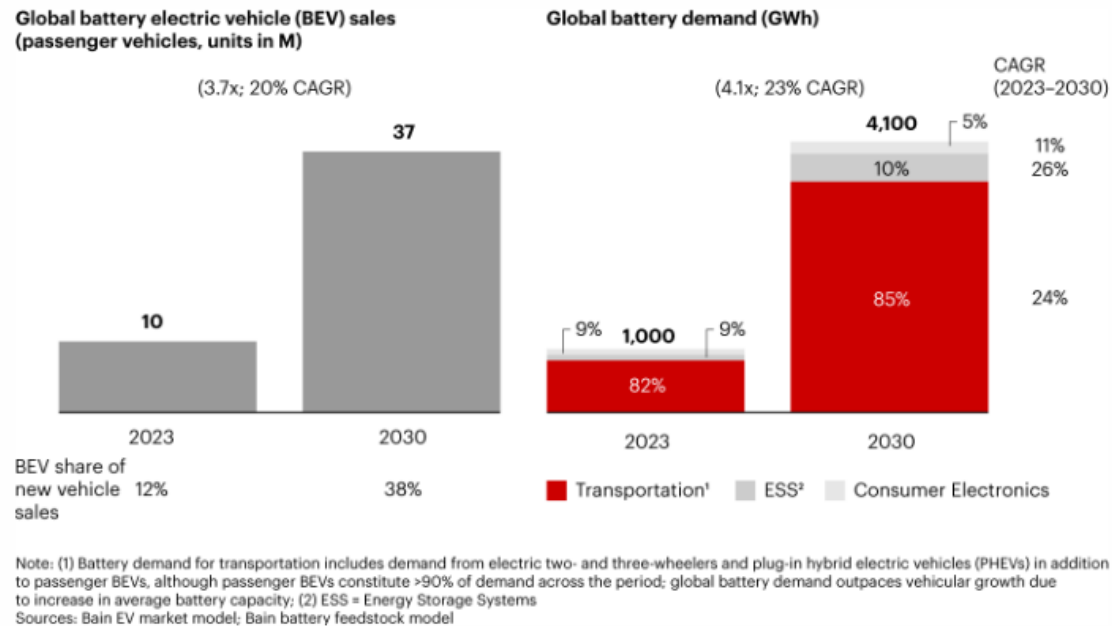
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Where are we today?

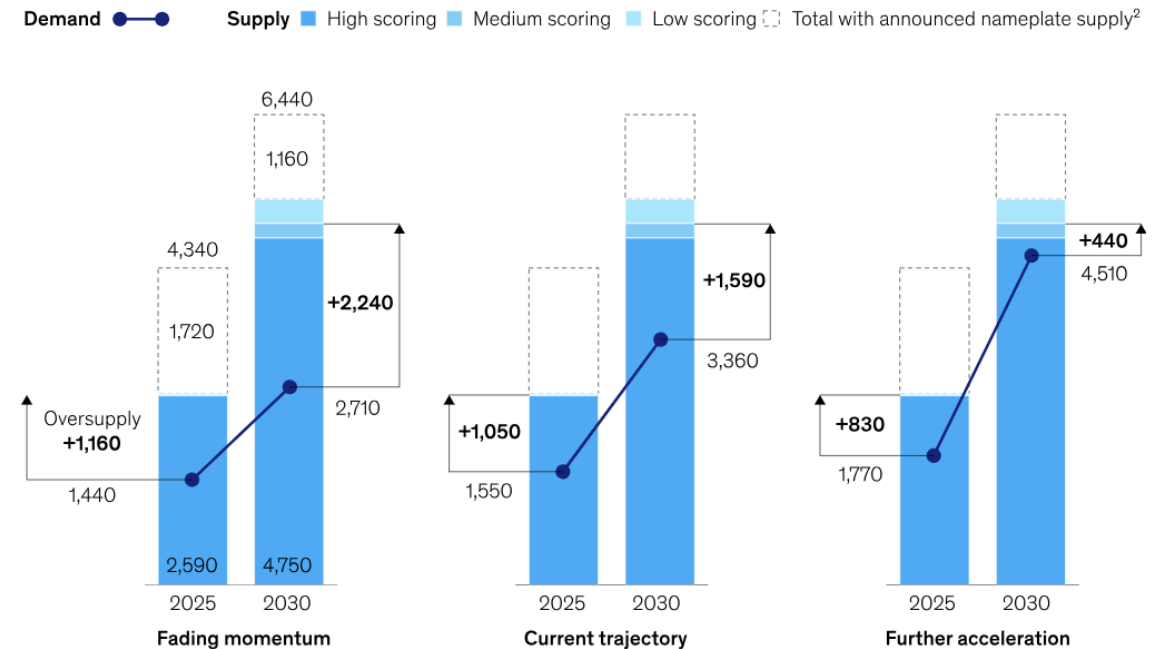
Demand is skyrocketing

Global battery demand expected to exceed current levels 4x by 2030



A global battery surplus is likely through 2030 under different supply-demand scenarios.

Lithium-ion battery demand and supply in 2025 and 2030, by scenario and company score,¹ gigawatt-hours



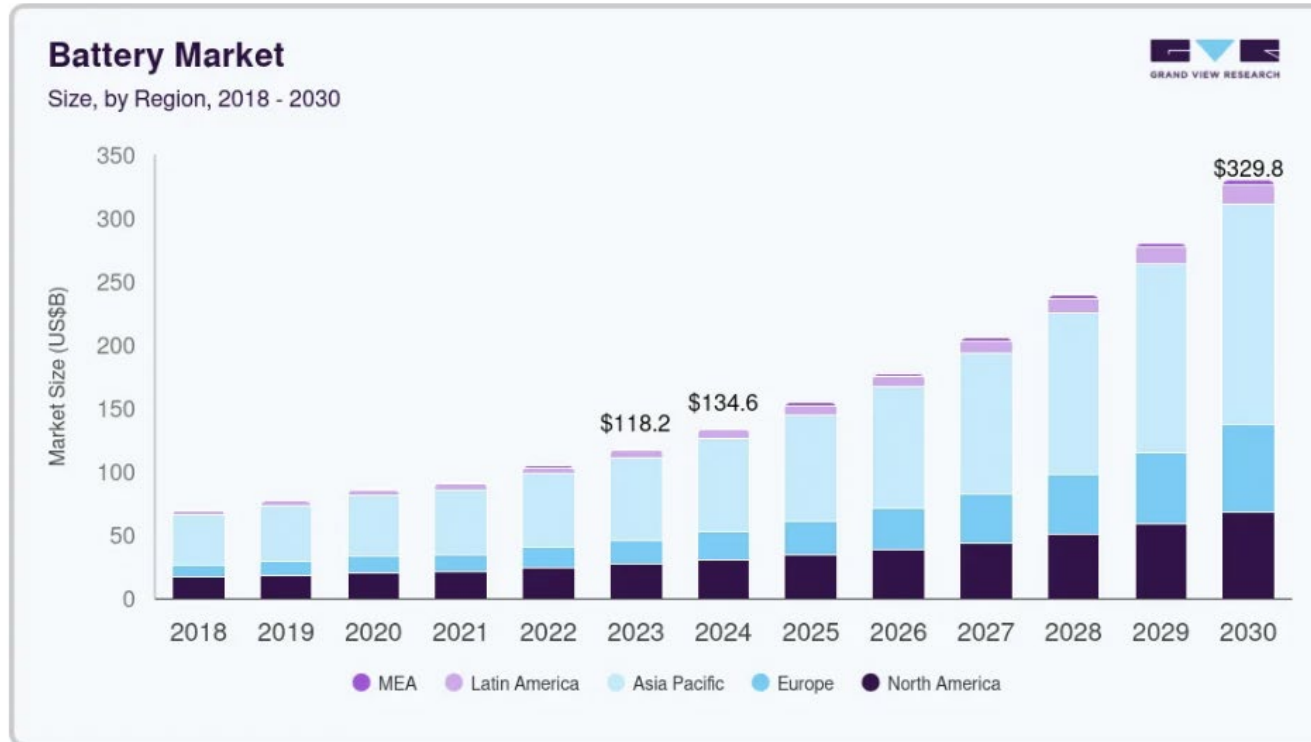
¹A scoring system evaluates likelihood of realization based on a set of factors, including company experience, intellectual property, revenue streams, and offtake plans.
²All announcements, including plants that are operational, under construction, and in early and advanced planning stage.
Source: Consumer Electronics 2025 © 2025 Euromonitor International Limited, all rights reserved; Light Vehicle Production Forecast, S&P Global Mobility, Apr 4, 2025; McKinsey Battery Insights; McKinsey Energy Storage Insights; vehicle specifications per McKinsey analysis

McKinsey & Company

[Global battery supply chain: Hidden regional trends | McKinsey](#)

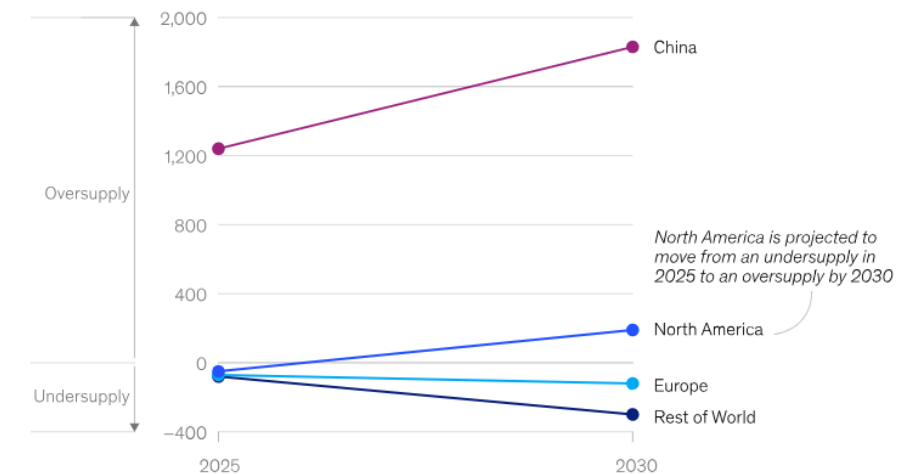
[Navigating the EV Battery Ecosystem | Bain & Company](#)

The UK is in a strategic race



Supply and demand for lithium-ion batteries will be unbalanced at the regional level in 2025 and 2030.

Lithium-ion battery over- or undersupply in 2025 and 2030, by current trajectory scenario, gigawatt-hours



Source: Consumer Electronics 2025 © 2025 Euromonitor International Limited, all rights reserved; Light Vehicle Production Forecast, S&P Global Mobility, Apr 4, 2025; McKinsey Battery Insights; McKinsey Energy Storage Insights; vehicle specifications per McKinsey analysis

McKinsey & Company

[Battery Market Size, Share & Growth | Industry Report, 2030](#)

[Global battery supply chain: Hidden regional trends | McKinsey](#)

Source of manufacturing jobs, manufacturing resilience and energy sovereignty



300,000 Jobs by 2030: How Europe's Battery Boom is Powering the Future



The scale up of the global battery value chain will likely support about **18 million jobs (new and existing)** along the entire value chain and could reduce cumulative road transport emissions from 2021 through 2050 by about **70 GtCO₂e¹**.



EV battery makers could create 18,000 jobs in the UK by 2030

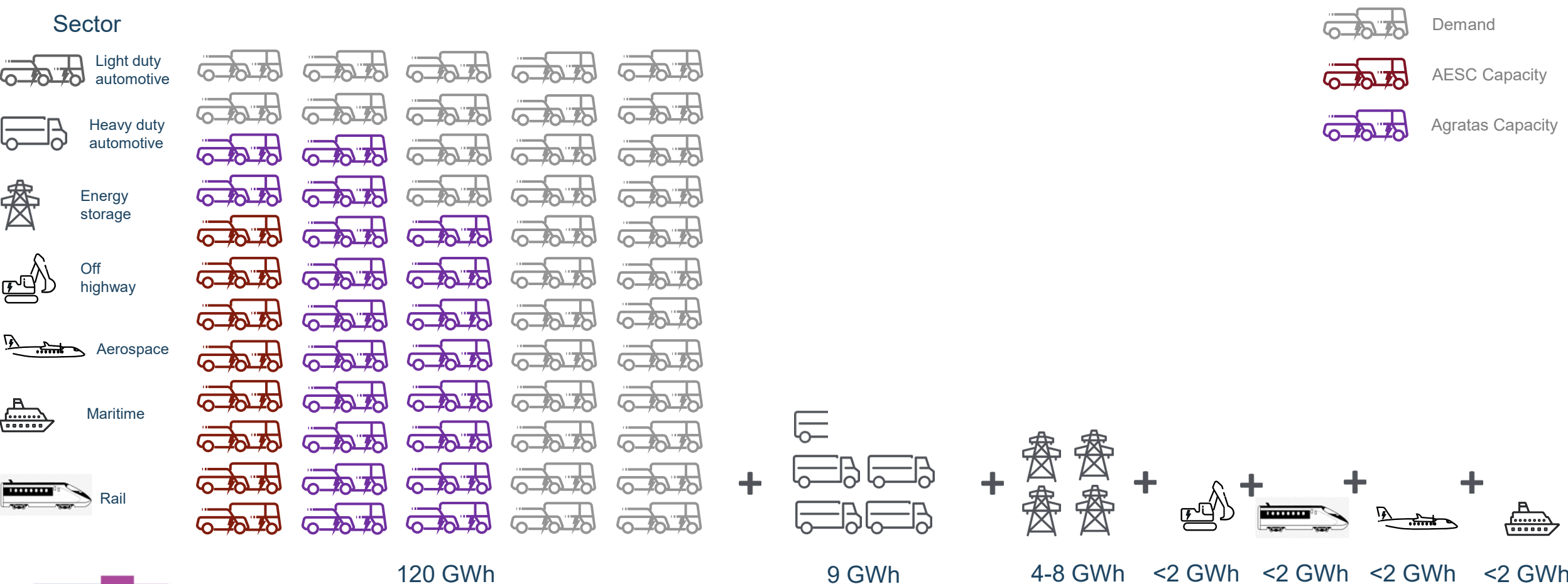
New Battery Supply Chain Tracker predicts up to 250,000 new jobs across Europe, with UK playing a key role

Steve Fowler Electric Vehicles Editor • Wednesday 11 June 2025 11:45 BST • [Comments](#)



A UK battery gigafactory like that planned for Coventry could bring thousands of jobs (Greenpower Park)

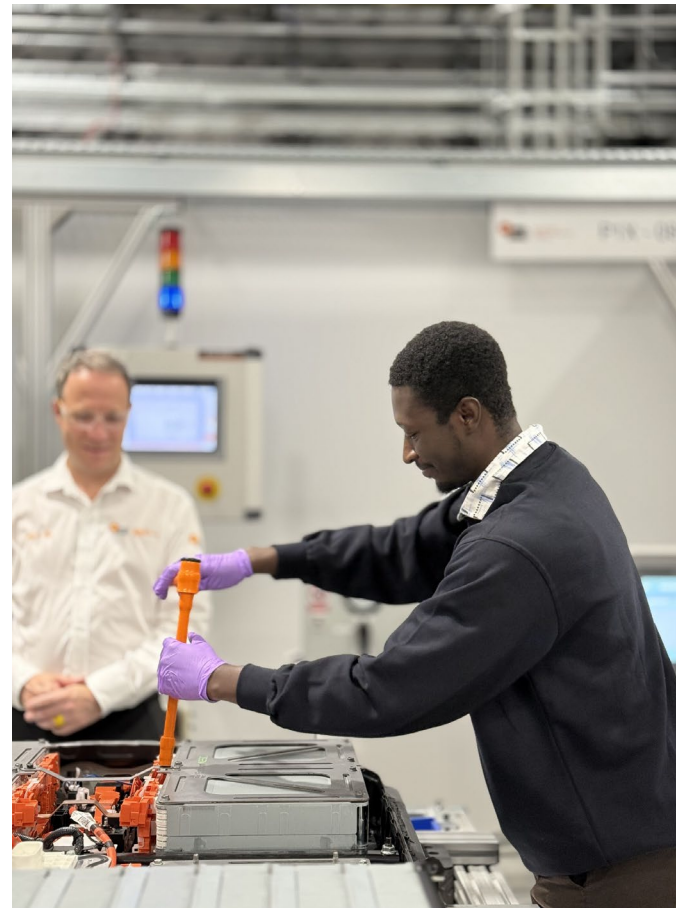
Today cell production capacity (announced) vs projected 2035 demand



Delivered by
Innovate UK

2035 Demand

Where the UK stands today



What needs to happen next?

**Coordinated
strategy**

**Supply
chain
depth**

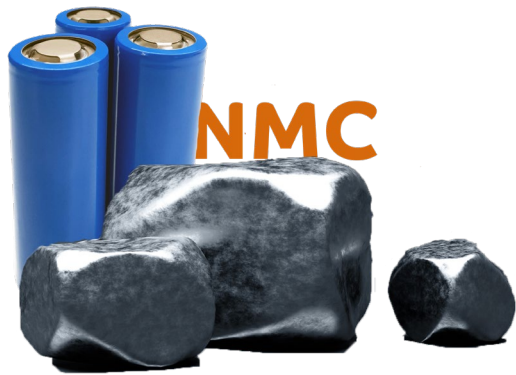
**Skills and
training**

**Scale
gigafactory
production**



What's coming in the future?

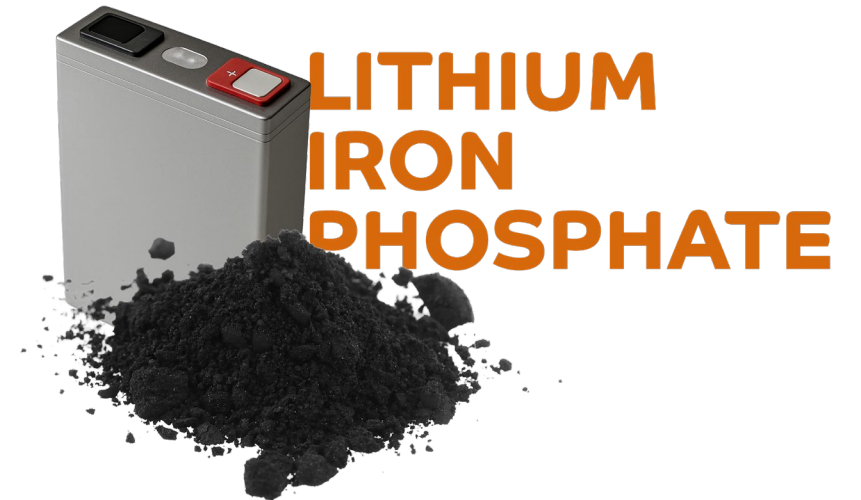
Chemistries



NMC

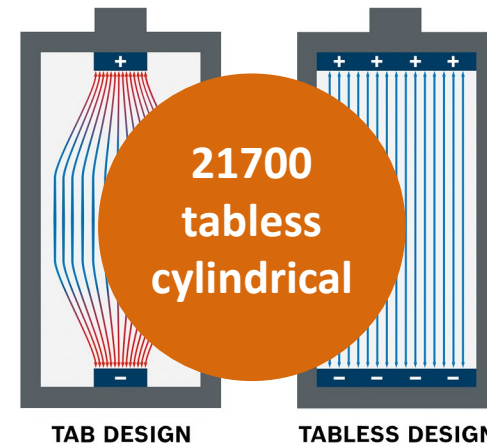


SODIUM
ION

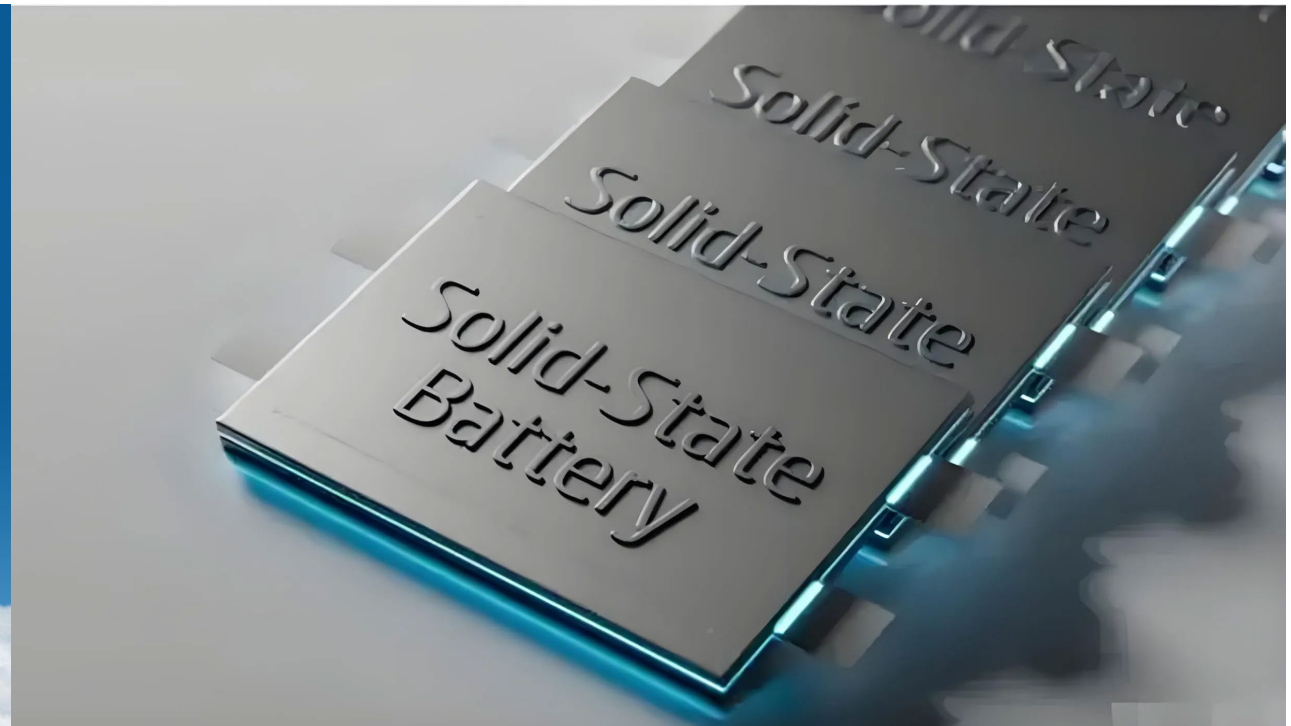


LITHIUM
IRON
PHOSPHATE

Formats



Solid state: Holy Grail or what?





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Thank you!



UKBIC

sales@ukbic.co.uk



suppliers@ukbic.co.uk

info@ukbic.co.uk



www.ukbic.co.uk



Richard LeCain
Chief Technology Officer