



## Ford Boosts Investment in Solid Power, Aiming to Accelerate Solid-State Vehicle Battery Development for Customers

- Ford today announced an additional equity investment in Solid Power for further development of solid-state vehicle battery technology, aiming to deliver longer range, lower cost and safer electric vehicles for customers
- This investment builds on Ford's 2019 investment, expanding the strategic partnership to test, pilot and scale solid-state battery cells and arrays and help accelerate their availability in future Ford EVs
- With this investment round, Ford and the BMW Group are equal equity owners, and representatives from each company will join Solid Power's board
- Both automakers also have separate joint development agreements with Solid Power to develop and test its battery technology so each can meet the independent engineering and manufacturing requirements of their respective future vehicles
- Ford's newest Solid Power investment is in addition to the company's previously announced \$22 billion global investment in connected, electrified vehicles through 2025; it builds on Ford's Tuesday announcement that it is creating a new global battery center of excellence

**DEARBORN, Mich., May 3, 2021** – Ford Motor Company today announced it is growing its investment in Solid Power, an industry-leading producer of all-solid-state batteries for EVs.

Initially investing in Solid Power in 2019, Ford is making an additional equity investment to help accelerate further development of solid-state vehicle battery technology, contributing to a \$130 million Series B investment round in which the BMW Group becomes an equal equity owner with Ford.

"Solid-state battery technology is important to the future of electric vehicles, and that's why we're investing in it directly as well as accelerating Ford's in-house R&D on next-generation battery technology," said Hau Thai-Tang, Ford's chief product platform and operations officer. "Leveraging the speed of a startup and the expertise of some of the most seasoned battery experts in the world at Ford, we're exploring different ways to power tomorrow's fun-to-drive all-electric vehicles, using proven development and manufacturing processes."

Solid-state batteries are showing great promise. They don't use the liquid electrolyte found in conventional lithium-ion batteries, can be lighter, with greater energy density and provide more range and lower cost.

Solid Power, which uses sulfide-based solid-state battery cells, has demonstrated its ability to produce and scale next-generation all solid-state batteries that are designed to power longer range, lower cost and safer electric vehicles using existing lithium-ion battery manufacturing infrastructure.

Solid Power's leadership in all solid-state battery development and manufacturing has been confirmed with the delivery of hundreds of production line-produced battery cells that were validated by the BMW Group and Ford late last year, formalizing Solid Power's commercialization plans with its two long-standing automotive partners.

"By simplifying the design of solid-state versus lithium-ion batteries, we'll be able to increase vehicle range, improve interior space and cargo volume and ultimately deliver lower costs and better value for customers," said Ted Miller, Ford's manager of electrification subsystems and power supply research. "We look forward to delivering these improvements and working with Solid Power to seamlessly and quickly integrate their sulfide-based all-solid-state battery cells into existing lithium-ion cell production processes more efficiently than oxide-based solid-state battery cell makers can."

Under the new agreement, Ford will receive full-scale 100 ampere hour (Ah) cells from Solid Power for testing and integration into its future vehicles starting next year. Solid Power already is producing 20 Ah solid-state batteries on a pilot manufacturing line using lithium-ion production processes and equipment.

Ford also has a separate joint development agreement with Solid Power to develop and test its specific battery cell design and help streamline Ford's integration into future vehicles.

### **Ford Building EV, Battery Tech Momentum**

Earlier this week, Ford announced a new global battery center of excellence – named Ford Ion Park – to accelerate research and development of its battery and battery cell technology – including future battery manufacturing.

Ford is building on nearly two decades of battery expertise by centralizing a cross-functional team of 150 experts in battery technology development, research, manufacturing, planning, purchasing, quality and finance to help Ford more quickly develop and manufacture battery cells and batteries, ultimately aiming to deliver more, even better, lower cost EVs for customers.

The Ford Ion Park team also is exploring better integration and innovation opportunities across all aspects of the value chain – from mines to recycling – working with all teams within Ford, including experts at Ford's new Battery Benchmarking and Test Laboratory, Ford Customer Service Division, plus key suppliers and partners.

The Ford Ion Park team already is underway. In addition, a \$185 million collaborative learning lab in Southeast Michigan that is dedicated to developing, testing and building vehicle battery cells and cell arrays opens late next year.

This world-class 200,000 sq.-ft. learning lab will include pilot-scale equipment for electrode, cell and array design and manufacturing and will use state-of-the-art technology to pilot new manufacturing techniques that will allow Ford to quickly scale breakthrough battery cell designs with novel materials once the company vertically integrates battery cells and batteries.

### **Committed to leading the EV revolution**

Ford is committed to leading the electric vehicle revolution and this year has gained significant momentum on its plans.

In North America, the Ford Mustang Mach-E has found early sales success. Plus, the all-electric Ford Transit is set to go on sale late this year and the all-electric F-150 arrives by mid-2022. Ford will be the first automaker in the U.S. to offer commercial customers fully electric van and full-size pickup choices.

In Europe, Ford is moving to an all-electric lineup by 2030, with its commercial vehicle range 100 percent zero-emissions capable, all-electric or plug-in hybrid by 2024. Ford also is investing \$1 billion in a new electric vehicle manufacturing center in Cologne to build a high-volume all-electric passenger vehicle for European customers starting in 2023.

In China, Ford is preparing to produce the Mustang Mach-E for local customers later this year, and recently announced it is establishing a BEV division with a direct sales model and network that will reach 20 major cities across China this year. In addition, Ford has partnered with China's State Grid and NIO to offer EV customers access to more than 300,000 public charging stations, of which 160,000 are fast-charging, in more than 340 cities across the country.

### **Proven electrification expertise**

Ford has been actively involved in battery research and electric vehicles dating back to the days of Henry Ford and Thomas Edison. To date, the company has secured more than 2,500 U.S. patents in electrification technologies, with another 4,300 patents pending and has sold more than 1 million hybrids, plug-in hybrids and all-electric vehicles since 2004.

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### **About Ford Motor Company**

*Ford Motor Company (NYSE: F) is a global company based in Dearborn, Michigan. The company designs, manufactures, markets and services a full line of Ford trucks, utility vehicles, and cars – increasingly including electrified versions – and Lincoln luxury vehicles; provides financial services through Ford Motor Credit Company; and is pursuing leadership positions in electrification; mobility solutions, including self-driving services; and connected vehicle services. Ford employs approximately 186,000 people worldwide. For more information regarding Ford, its products and Ford Motor Credit Company, please visit [corporate.ford.com](https://corporate.ford.com).*

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