

What is Enevate technology?

The pure silicon anode is a key battery component. Our technology optimizes the Enevate anode performance through a combination of electrolyte formulation, cell design, and cell formation. Enevate technology outshines other solutions with optimized cell designs that deliver significantly faster charging and longer vehicle range.

What makes Enevate a successful e-mobility battery manufacturer?

The German battery pioneer has successfully constructed cells using Enevate's advanced silicon-dominant battery technology and engaged in joint commercial dialogues with top OEMs in the e-mobility domain. Ten times faster charging

What is Enevate's next-gen lithium-ion battery technology?

Enevate's next-gen lithium-ion battery technology delivers up to 10 times faster charging than conventional lithium-ion batteries with high energy densities along with a host of other benefits, including improved safety and low-temperature operation for cold climates.

Is Enevate a good EV cell?

This is almost an order of magnitude higher than a conventional graphite cell used in today's EVs. Enevate's cell designs partially utilize the anode capacity to 1000-2000 mAh/g to achieve superior performance. High initial Coulombic efficiencies have been demonstrated, 93% for Enevate's silicon anode, and 90% for full Li-ion cells.

Who is Enevate?

Fast Facts Enevate develops Next-Generation Li-ion battery technology for Electric Vehicles o Founded 2005 in Southern California, USA o Latest investments by: Our Vision: A cleaner and sustainable environment through a variety of battery powered applications and products that are accessible and affordable to everyone

What are the advantages of Enevate technology?

Solution at room temp: Enevate technology can deliver longer range Solution in cold temp: Enevate technology can deliver even longer range o Regenerative braking is power limited in cold weather because battery can only accept limited charging o With less or no battery heating, even more improvements can be realized

Enevate's breakthrough silicon-dominant battery technology delivers up to 10 times faster charging than conventional lithium-ion batteries while enabling high energy densities along with a ...

o 75kWh battery for 600km WLTP + 50km reserve range (eBoost mode) Smaller carbon footprint for CO2 emissions o One EV is equivalent to planting two thousand evergreen trees over 10 years

Battery makers have for years been trying to replace the graphite anode in lithium-ion batteries with a version made of silicon, which would give electric vehicles a much longer range.

Advances Silicon Anode Cell Technology for EV's IRVINE, Calif. - February 10, 2021 - Enevate, a pioneer in advanced silicon-dominant lithium-ion (Li-ion) battery technology featuring extreme fast charge and high energy density for electric vehicles (EVs) and other markets, announced that it has secured a \$81M Series E funding led by Fidelity Management ...

Enevate is now getting closer to commercialisation thanks to another production licensing agreement with a well-known German player: Customcells has already produced its first battery cells with Enevate's XFC-Energy, according to the company.

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The EV battery dictates the range, recharge time, performance, handling, power, cost, safety, and essentially all the critical design aspects of the entire car. Li-ion battery technology has advanced with newer batteries able to charge up to ten ...

Car manufacturers are increasingly looking to electric power, spurring interest in the silicon-dominant lithium-ion battery technology. Enevate's battery technology is said to deliver up to 10 times faster charging than conventional lithium-ion batteries with high energy densities along with a host of other benefits, including improved safety ...

Surpassed Major Milestone for Li-ion Battery Patents. Enevate reached a major milestone of 100 patents issued worldwide, and now has 117 patents and more than 380 additional patents in process, bringing the company's total issued and in process patent portfolio at the close of 2021 to nearly 500. Enevate has more patent families directed to ...

Enevate: Li-ion Battery Pioneers. Enevate was founded in 2005 in Irvine, California and received its first venture capital funding in 2008. Enevate is one of the early pioneers working to make promises a reality in a new class of Li-ion batteries that utilizes silicon-dominant anodes. Through ingenuity and hard work, Enevate refined the core ...

Enevate's 4 th generation is the latest result of over 74 million hours of battery cell testing by Enevate's scientists, 1 million meters of electrodes produced in the company's R& D pilot ...

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CustomCells, a leader in premium battery technology, today announces a production license agreement with California-based company Enevate. This partnership marks a significant stride in bringing Enevate's ...

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