The battery cell is the combustion chamber of the future

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Dear all,

Porsche is helping to push the development of high-performance battery cells. Porsche AG takes a stake in the US company #Group #14, an innovative #producer of #silicon-carbon technology. Porsche is investing 100 million US dollars and is investing around 400 million US dollars in the innovative company together with other investors.

The company Group14 Technologies from Woodinville (Washington, USA) will use the capital to push the production of #anode material for #lithium-ion batteries. In 2022, the company will lay the foundation stone for an additional factory for the production of Battery Active Materials (BAM) in the USA.

Porsche will also be supplied with these new batteries in the future. The high-performance battery cells with silicon anodes for small series, motor sports and high-performance vehicles are manufactured in advance. The Cellforce battery cells will then also be used in electric Porsches.



The battery cell is the combustion chamber of the future, according to Porsche.

The cooperation with Group14 and Cellforce in #Tübingen ensures Porsche high-quality #futuretechnology for future generations of drive batteries. These new drive batteries are significantly more powerful than today's lithium-ion batteries, writes Porsche in a recent press release.

The chemistry in the new cells now uses silicon as an anode material, which means that energy storage can be significantly increased compared to today's technology.

This increases the #range with the possibility of being able to build smaller batteries if necessary. New batteries of this type have a lower internal resistance, which makes recuperation and recharging more effective and faster.

“The battery cell is the combustion chamber of the future. Our goal is to be one of the leading companies in the global competition for the most powerful battery cell,” says Lutz Meschke, Deputy Chairman of the Executive Board and Board Member for Finance and IT at Porsche AG. “We are not without pride leading this broad-based financing round. It shows that we now have a deep understanding of the world of venture capital through our venture capital unit Porsche Ventures.”

"Group14's anode material has game changer potential"

Michael Steiner, Board Member for Research and Development, adds: “The characteristic properties of the new cell chemistry – fast charging, high performance and low weight – have a direct impact on the core of the Porsche brand. They are practically congruent with the

development goals that we write in the specifications for our future electric sports car.” After an intensive test process, the Cellforce Group selected Group14 Technologies as the manufacturer of the most promising silicon anode material for Porsche's requirements. "The anode material from Group14 has game changer potential on the way to shorter charging times," emphasizes Markus Gräf, Managing Director of the Cellforce Group.

"Group14 is committed to improving the performance of today's lithium-ion and future solid-state batteries to accelerate the global energy transition," said Rick Luebbe, co-founder and CEO of Group14. "With the backing of a diverse consortium of investors, Group14 aims to develop the next generation of silicon battery technology to support visionary automakers like Porsche."

Information and source: Porsche AG

Warm greetings

Jürgen Albert