

Press Release

Project NanoPoLiBat

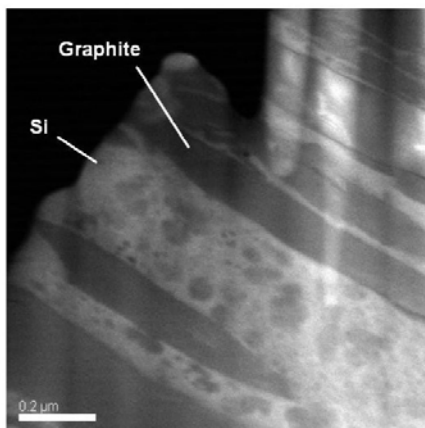
Ellwangen, 16. April 2010

VARTA Microbattery benefits from findings in project NanoPoLiBat

In 2006 VARTA Microbattery began together with the Technical University Graz the project NanoPoLiBat. Further exciting partners from Europe were also involved such as the Materials Science Institute Barcelona, Fraunhofer Institut für Silicatforschung and the Centre National de la Recherche Scientifique. The task of VARTA Microbattery was to develop the research into practice.

The insertion of nano technology in Lithium-Ion batteries was the target of the project. Beneficial expertise for a new battery generation could be achieved by VARTA Microbattery now. Energy content, capacity and safety of Lithium-Ion batteries could be improved by the use of nano technology. Enormous future potential comes from basing the anode material for negative electrodes on silicium, which is able to absorb up to ten times more charging compared with materials used up until now. Samples could be built with new components which would have an 80% increased energy content.

The project NanoPoLiBat was completed successfully quite recently and VARTA Microbattery will include the patented improvements into more efficient Lithium-Ion batteries in the future.



Legend:
TEM picture of the inserted silicone/graphite composite as anode material

Brands of
VARTA Microbattery:





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VARTA Microbattery GmbH

VARTA Microbattery is one of the major battery manufacturers in the world maintaining production facilities globally in order to supply more than 100 countries with quality products. The headquarters of the company is in Germany, Ellwangen. We develop and produce batteries comprising of many electrochemical systems and cell geometries. As a global system supplier we provide the best solution possible to satisfy our customers' application requirements.

About Montana Tech Components AG

Montana Tech Components AG focuses on selected key technologies in global markets which show a particularly rapid growth and also have a strong growth potential in the medium term. The three divisions of the holding - Aerospace & Industrial Components, Metal Tech and VARTA Micro Power - are among the leaders in their respective international markets.

