

PRESS RELEASE

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Major breakthrough for electric vehicles

MINDSET HOLDING AG (SIX Swiss Exchange: MIND) and H-TECH AG jointly report a major breakthrough in the field of battery technology for electric vehicles due to a newly developed battery pack technology.

A prototype of the mindset electric vehicle (www.mindset.ch) has been fitted with the H-TECH technology and achieved previously unmatched performances on a TÜV-Germany rolling road test block.

In the context of a conventional test within the sector of electric vehicles a lab-tested, newly developed battery pack technology based on lithium-ion cells was applied on a rolling road test block of TÜV-Süd on January 24, 2012. With this test, a battery pack with a weight of 200 kg achieved a energy density of 52 kWh with one charge. The measured energy comes down to 0,26 kW/kg. Although this result represents almost a doubling of the energy density, the total weight increase was less than 15%, including the battery management system.

The added value in energy density compared to their competitors is considerably higher than 100%:

Vehicle	energy density of battery pack, kWh per kg
Mindset	0,26
Mindset before	0,13
Smart (equipped by Tesla)	0,13
Tesla Roadster	0,12
Mitsubishi i-Miev	0,08
Nissan Leaf	0,08

The relation of power output to weight of the battery pack sets a new benchmark for the performance of battery-powered cars. The achieved performance resulted in an extension of the available range above 75%. Additional tests will specify valuable features of the technology over the next weeks to come. Added value can be expected in:

- stable thermic conditions during charging and discharging
- cutting charging times

In addition the battery packs will be measured on test stands as well as in the vehicle in order to evaluate their consistency over multiple charge/discharge cycles.

The technology of H-TECH is based on a newly developed method of charging of pre-conditioned lithium ion cells.

A patent is pending. This technology has been applied for the first time in an electric vehicle.

H-TECH AG, domiciled in Liechtenstein, owns all rights and intends to exclusively commercialize these. The new technology of conditioning and charging of battery packs opens a wide field of industrial applications for H-TECH AG far beyond the automotive industry.

H-TECH AG and MINDSET HOLDING AG have agreed to cooperate on an exclusive basis for the realization of this innovation in the field of electric cars. Simultaneously, MINDSET HOLDING AG has been granted the right to exclusively initiate the application of the H-TECH battery technology in its electric vehicles.

About MINDSET HOLDING AG

MINDSET HOLDING AG is the listed parent company of mindset ag. mindset is a new type of automobile that sets itself apart – both technically and aesthetically – from conventional automotive concepts. mindset was conceived from scratch to be an electric car for everyday use. The company's core activities comprise the development and the commercialization of the mindset. Lorenzo R. Schmid is the initiator and chairman of the board of the company.

About H-TECH AG

H-TECH AG has been established in Schaan, Liechtenstein with the purpose to secure, administer, enforce and operate the commercial utilization of patents and rights in the field of battery pack technologies, accumulators, the boosting and charging of batteries, with special emphasis on patents and rights based on inventions made by Jörg Hempel. Jörg Hempel has been dealing with themes covering the efficiency and preservation of energy and physics in general since his early youth. A number of groundbreaking innovations of Jörg Hempel have led to respect and tribute by specialists within professional circles. The main shareholders of H-TECH AG are Michael Hilti and Jörg Hempel.

For further information please contact:**MINDSET HOLDING AG**

Leon H. M. Hustinx
Member of the Board
Tel. +41 41 368 98 38
info@mindsetholding.ch

H-TECH AG

Hans von Meiss
general enquiries
office@h-tech-ag.ch