



Cobalt-free Li-ion batteries

The aim of the European research project Cobra is to develop a novel co-free lithium-ion battery that will eliminate many of the current defects by improving every component in the battery system.

The project will lead to a battery system that has a high energy density and low cost, enables increased cycles and contains less critical materials.

To achieve this goal, electrochemical performance is improved by focusing on cobalt-free cathode and advanced S-compounds as anode and separator. The corresponding procedure ultimately includes a cell density of more than 750 Wh/l, a lifespan of more than 2000 cycles, a quick-charge capability of 3C and a 50 percent reduction in the packing weight.

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