

Radical Breakthrough in Battery Technology

A Texas-based company claims to have developed a new energy-storage technology which could completely replace the electrochemical battery, transforming the market for electric vehicles in the process.

According to their patent documents, EESor plan to replace the traditional battery in almost every application – from hybrid / electric vehicles to laptop computers. The company claims its system – a type of battery-ultracapacitor hybrid based on barium-titanate powders - will drastically outperform the best lithium-ion batteries in terms of energy density, price, charge time, and safety.

Said to be 10 times as powerful as traditional lead-acid batteries, the system is not only cheaper to produce, but eco-friendly too – eliminating the need for toxic materials or chemicals.

Electric transportation is currently very much in its early stages, but if claims for the EESor system are accurate, it represents a significant breakthrough in battery technology that could totally transform the market for electric transportation, opening up huge opportunities for development within the sector.

EESor aim to build an energy-storage system for a small electric car weighing less than 100 pounds, with a 200-mile driving range. It

estimates that the vehicle could travel 500 miles on £5 worth of electricity compared to around £40 for a combustion-engined car.

Some industry experts are sceptical, stressing concerns about the stability of the barium-titanate powders used in production. That said, EESor just announced their production line performance has exceeded expectations, achieving a 99.9994% purity for its crucial ingredient – the powder.

