

**A123 Systems – AONE - develops and manufactures advanced Nanophosphate**

®

**lithium iron phosphate batteries and energy storage systems. The company's technology enables customers to commercialize innovative products for the transportation, electric grid, commercial and government markets.**

**A123's proprietary Nanophosphate technology is built on novel nanoscale materials initially developed at the Massachusetts Institute of Technology. The company has spent more than \$2 billion dollars on development and large scale manufacturing plants with global ambitions.**

## **IronPhosphate Battery Technology**

**A123's high-performance Nanophosphate<sup>®</sup> lithium iron phosphate (LiFePO<sub>4</sub>) battery technology delivers high power and energy density combined with excellent safety performance and extensive life cycling in a lighter weight, more compact package. Our products have low capacity loss and impedance growth over time, allowing our systems to meet end-of-life power and energy requirements with minimal pack oversizing**

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## **Lithium Ion Battery Technology**

**A123's next-generation Nanophosphate EXT™ lithium ion battery technology improves power capability at low temperature and life at high temperature, potentially reducing or eliminating the need for costly thermal management.**

**By extending the capabilities of our core Nanophosphate**

**® technology over a wider temperature operating range,**

**Nanophosphate**

**EXT is expected to deliver increased performance and reliability while minimizing complexity and reducing total cost of ownership ( TCO**

**) over the life of the battery system for a number of applications, including micro hybrid vehicles, electric vehicles,**

**telecommunications backup and military systems, among others.**

## **Energy Storage Systems**

**A123 Systems excels at designing and manufacturing fully-integrated battery systems that help enable our customers to take**

**new products from  
concept to  
commercialization.**

**A123**

**has extensive  
engineering experience  
in developing and  
implementing advanced  
components, software,  
electronics, thermal  
management and battery  
management systems for  
innovations in battery**

**system design. We provide complete system design and integration services and develop optimized systems that meet our customer's performance requirements, including power, safety, life, and energy, while meeting size, weight and cost targets.**

# The Opportunity

**The recession in the United States and European Economic crisis resulted in slower than expected demand for the Electric Vehicles. The company is poised to**



**benefit when the global economic conditions improve, it has invested hundreds of millions in R&D and established long term relationships with leading OEMs and built a network of charging stations.**

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