



PRESS RELEASE

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ENVIA SYSTEMS ACHIEVES WORLD RECORD ENERGY DENSITY FOR RECHARGEABLE LITHIUM-ION BATTERIES

Breakthrough 400 Watt-hour/kilogram Lithium-ion Battery Poised to Revolutionize Cost, Range and Safety in Electric Vehicles

NEWARK, CA – February 27, 2012 – [Envia Systems](#), a technology leader in high-performance, low-cost [lithium-ion energy storage](#) solutions today announced test results that verify the company's next-generation rechargeable battery has achieved the highest recorded energy density of 400 Watt-hours/kilogram (Wh/kg) for a rechargeable lithium-ion cell. When commercialized, this 400 Wh/kg battery is expected to slash the price of a 300-mile range electric vehicle by cutting the cost of the battery pack by more than 50 percent.

The testing of Envia's next-generation lithium-ion battery was performed by the Electrochemical Power Systems Department at the Naval Surface Warfare Center (NSWC) in Crane, Ind., under the sponsorship of ARPA-E. Tests at various cycling rates at NSWC confirmed that Envia's automotive battery cell demonstrated energy density between 378-418 Wh/kg for rates between C/3 to C/10 for a 45 Amp-hour (C/3) cell. Similar cells have been cycling in Envia's test labs for over 300 cycles. NSWC Crane will also test these cells to validate cycling performance. [See excerpts of the test results here: <http://enviasystems.com/announcement>.]

"Since the inception of Envia, our product team has worked tirelessly and logged over 25 million test channel hours to optimally develop each of the active components of the battery: Envia's proprietary Si-C anode, HCMR cathode and EHV electrolyte," said Dr. Sujeet Kumar, Envia Systems co-founder, president & CTO. "Rather than just a proof-of-concept of energy density, I am pleased that our team was successful in actually delivering 400 Wh/kg automotive grade 45 Ah lithium-ion rechargeable cells."

"Envia's new battery technology represents exactly the kind of innovation and breakthroughs that ARPA-E is looking for from the American research and development community," said ARPA-E Director Arun Majumdar. "We hope that this low cost and high density battery technology enables wide spread adoption of electric vehicles across the country and around the world."

“In an industry where energy density tends to increase five percent a year, our achievement of more than doubling state-of-art energy density and lowering cost by half is a giant step towards realizing Envia's mission of mass market affordability of a 300-mile electric vehicle,” said Envia Systems Chairman and CEO Atul Kapadia.

About Envia Systems

Envia Systems is the industry leader in high performance, low cost lithium-ion energy storage solutions. Based in Newark, Calif., Envia’s patented cathode, anode and electrolyte materials enables its batteries to deliver high energy density, safety and calendar life. These systems are used by manufacturers developing Electric Vehicles and Plug-in Hybrid Electric Vehicles. For more information, please visit www.enviasystems.com.

Envia was awarded grants by both the Advanced Research Projects Agency-Energy (ARPA-E) and the California Energy Commission in 2010 to develop high energy density batteries for electric vehicles. General Motors Ventures LLC participated in an equity investment round of \$17 million in 2011. For more information, please visit www.enviasystems.com.

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