US Department of Energy Selects XG Sciences to Develop High-Energy Battery Materials

Contract will accelerate commercialization of improved Lithium-ion batteries for electric vehicles

Lansing, Mich. (PRWEB) October 15, 2012 -- XG Sciences, Inc. announced today it has been selected by the U.S. Department of Energy (DOE) to develop high-energy Lithium-ion battery materials for use in extended range electric vehicle applications. XG Sciences' Silicon-graphene nanocomposite anode materials have demonstrated significant increases in energy storage capacity over traditional graphite and are manufactured with a commercially-proven, low-cost process using widely-available and economical starting materials.

"This DOE contract will accelerate product commercialization by targeting 600 mAh/g reversible anode capacity and 1000 cycle life in 250 mAh cells," said Rob Privette, VP Energy Markets. "Our Silicon-graphene energy storage materials deliver significant improvements in battery cycle life over traditional Silicon-based materials due to a unique and highly-conductive graphene support network. We believe this research will help enable customers to benefit from extended battery run-time in automotive, portable electronics and grid-scale energy storage applications." XG Sciences will lead a team that includes battery maker LG Chem Power, Inc. and the Georgia Institute of Technology.

XG Sciences' energy storage materials are based on the company's xGnP® graphene nanoplatelets and XG Leaf™ graphene sheet products that can be formulated into electrodes, with high charge storage and superior current carrying characteristics for batteries, ultracapacitors and fuel cells.

XG Sciences Inc. is a leading supplier of xGnP® graphene nanoplatelets supplying bulk materials and custom graphene-based products to more than 500 customers around the world. For evaluation materials and technical support please visit www.xgsciences.com or contact info(at)xgsciences(dot)com.

Contact Information
Mike Knox
XG Sciences
http://www.xgsciences.com
517-703-1110 5445

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