

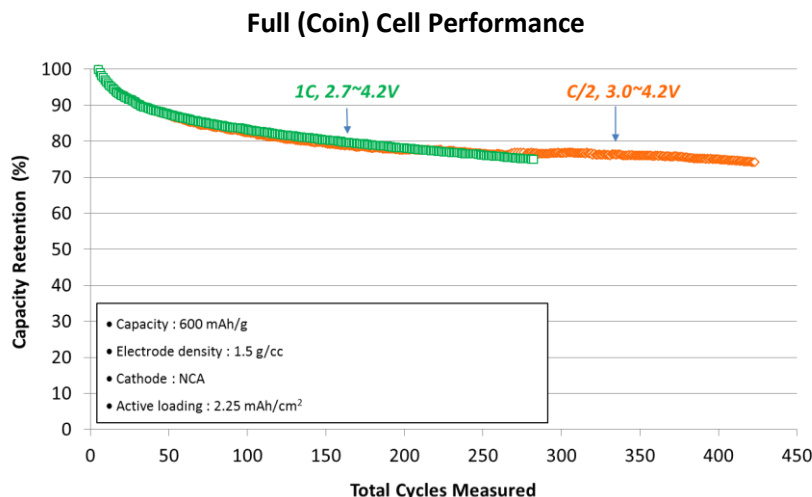


## PRESS RELEASE

# XG Sciences Announces Break Through in Silicon-based Next Generation Lithium Ion Battery Anode Material

### *New Silicon Graphene Material Demonstrates Cycle Stability*

Lansing, Mich., March 10, 2015 — XG Sciences (“XGS”), a leading provider of graphene nanoplatelets, announced today that it has achieved a major break-through with its latest generation of Silicon Graphene (“XG SiG™”) anode materials for lithium-ion batteries. XGS has demonstrated full cell cycle stability through over 400 charge/discharge cycles in its next generation XG SiG™ materials, with a charge storage capacity of 600mAh/gram and over a broad voltage window.



Dr. Philip Rose, Chief Executive Officer of XGS, stated, “Achieving stable charge/discharge cycling performance is a key threshold before any anode material can be considered for widespread adoption in lithium-ion batteries. We believe our latest material is the first commercially viable silicon and graphene based anode formulation to achieve this all important performance threshold. With charge storage capacity of up to 4 times today’s typical anodes, first cycle efficiency of 85-90%, low swelling and life that is more than double our previous generation, we believe this material will open many new markets for our customers with an affordable and safe anode formulation.”

Dr. Rose continued, “Solving the problem of extended and safe energy storage has been a strategic focus for XG Sciences since it was founded in 2006. Customer demand for low-cost, high-performance battery materials, particularly for Lithium-ion batteries, is enormous. To capitalize on the potential of our advanced graphene know-how, we have made significant investments in our research and production capabilities, and we have developed a robust network of global partners and customers to expand our solutions in the marketplace.”

Robert Privette, XG Sciences' Vice President of Energy Markets, stated, "In addition to working with our research & development partners, we are working with battery manufacturers around the world to incorporate our XG SiG™ anodes and xGnP® graphene conductive additives into their products. We are testing multiple battery formats and multiple battery design capacities. We foresee a wide range of applicable battery applications in any market where energy storage is a high priority - like handheld electronics, automotive, and industrial energy storage."

### **Thought Leadership @ XG Sciences**

XG Sciences has been invited to present at three major industry events in coming months. First is a presentation at the 32<sup>nd</sup> International Battery Seminar & Exhibition being held March 9-12 in Fort Lauderdale, FL. This will be followed by a presentation at the 2015 Next Generation Batteries Conference being held April 21-22 in San Diego, CA. XG Sciences will also give a poster presentation and participate in the U.S. Department of Energy's Annual Merit Review Meeting being held June 8-11 in Washington, DC.

XG Sciences is also partnering with energy industry experts Shmuel De-Leon and Prof. Doron Aurbach (Bar Ilan University) for a unique technical seminar on batteries, super capacitors, fuel cells and electric vehicles. The three-day seminar will provide participants from all levels of the commercial supply chain as well as academic researchers with the opportunity to address the latest technologies and application requirements. XG Sciences will host the event at its Lansing offices from July 6-8.

### **About XG Sciences**

XG Sciences manufactures energy storage materials based on the company's xGnP® graphene nanoplatelets and XG Leaf® graphene sheet products. XG Sciences Inc. is a leading global supplier of graphene nanoplatelets and custom, graphene-based products to global corporations serving energy storage, aerospace, automotive, industrial and consumer markets. In addition to its electrode materials, XG Sciences makes thermal management materials, and electrically and thermally conductive inks, coatings and adhesives based on its graphene nanoplatelets. For evaluation materials and technical support please visit [www.xgsciences.com](http://www.xgsciences.com) or contact [info@xgsciences.com](mailto:info@xgsciences.com).

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