



**FOR IMMEDIATE RELEASE:**

**XG Sciences and Boston-Power Announce Collaboration in Advanced Battery Materials  
*Companies Seek to Expand Energy Density Over Today's Battery Technology***

**Lansing, Mich., Westborough, Mass., December 2, 2015** —XG Sciences and Boston-Power today announced a joint development program aimed at customizing XG Sciences' silicon-graphene anode materials for use in Boston-Power's next-generation lithium-ion battery cell products.

Traditional anode materials used in today's lithium-ion batteries are approaching the limitations of the energy density that they can achieve. One of the more promising alternatives can be found in the use of silicon-based anodes which offer the potential to substantially expand battery capacity over commercially available materials.

XG Sciences' VP of Energy Markets, Rob Privette, said that the program was especially notable because, "Boston-Power is known for its long life-cycle lithium-ion batteries and modules. Silicon has very high storage capacity but has traditionally struggled to deliver the many charge cycles demanded in next-generation electronics and automotive applications. We see real synergy between Boston-Power's battery engineering and design capabilities and our new XG-SiG<sup>®</sup> anode materials. Boston-Power has the ability to design and manufacture the battery, while XG Sciences has the ability to customize our anode materials to best fit the Boston-Power system."

"Given Boston-Power's primary focus on electric vehicles, being able to squeeze more energy into the same physical space is certainly important for achieving end-customer valued longer drive distances," said Boston-Power CTO, Rick Chamberlain. "But higher energy density is an equally if not more important contributor to reducing the overall cost of electric vehicles, which will drive their adoption over the next 5 years. Our collaboration with XG Sciences is a valuable step in using silicon technology to achieve our product goals."

The joint development program will focus on optimizing electrochemical and microstructural electrode performance as well as development of electrode and battery manufacturing techniques using XG-SiG<sup>®</sup> and Boston-Power proprietary materials.

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### **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 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).

### **About Boston-Power**

Boston-Power is a developer and manufacturer of next generation lithium-ion battery and pack technologies. Designed to fuel a wide range of applications, its flagship battery cell offerings, Swing® and Sonata®, serve as the foundation for a new era of longer-lasting, faster-charging, safer and environmentally sustainable batteries. Its Ensemble® Module System offers a faster, simpler, more economical approach to building large battery packs.

Boston-Power is a global company with R&D centers of excellence in Westborough, Massachusetts, USA and Beijing, China, and mass manufacturing operations based in Asia. The company is funded by top-tier venture capital firms GSR Ventures, Foundation Asset Management and Oak Investment Partners.

Boston-Power is an ISO 9001:2008 and ISO/TS 16949:2009 company.

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