

# Saint Jean Carbon Announces Graphene Battery Preliminary Results

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OAKVILLE, Feb. 23, 2017 - [Saint Jean Carbon Inc.](#) ("Saint Jean" or the "Company") (TSX-V:SJL) (OTCQB:TORVF), a carbon science company engaged in the design and build of green energy storage, green energy creation and green re-creation through the use of carbon materials. The Company is pleased to announce that it has set the preliminary numbers for the graphene battery project announced on January 18th, 2017. The preliminary performance markers will be used to judge performance for and against the three prototype graphene batteries in production.

Graphene based batteries have a number of very strong possibilities to outperform any other known energy storage device. The key lies in the difference in how the lithium intercalates with the anode material, basically the rate of absorption. In contrast to graphite; graphene, the unique two-dimensional atom-thick honey-comb structured carbon, has revealed various novel properties. Graphene has the highest intrinsic mechanical strength (1060 Gpa) and thermal conductivity (3000Wm-1k-1), in addition to a high surface area (2630 m<sup>2</sup>g-1) and electronic mobility (10000 cm<sup>2</sup>V-1s). Due to this the carbon material is transformed from graphite to graphene with a capacity that is expected to increase up to 500–1100 mAhg<sup>-1</sup>.

It has been proposed that lithium ions can be adsorbed on both sides of the graphene sheets which are arranged like a "house of cards" in hard carbons, leading to two layers of lithium for each graphene sheet, with a theoretical capacity of 744 mAhg<sup>-1</sup> through the formation of Li<sub>2</sub>C<sub>6</sub>. Recently, large reversible Li storage (540 mAhg<sup>-1</sup> in the first cycle) in graphene Nano-sheets has been reported.

Paul Ogilvie, CEO, commented: "As the world of engineering, studies and works to perfect the lithium-ion battery, new and wonderful materials like graphene will get their shot at making a game changing contribution. With the final lab prototype batteries, our goal is to achieve; the fastest recharge, highest density and greatest capacity within a very small size. If we achieve this, we will have set a new high watermark for performance."

The Company hopes to have the final batteries results ready within three weeks. The Company is continuing with the recycled battery project. Further, the final spherical carbon coated graphite specifications and performance results are expected very shortly.

## About Saint Jean Carbon

Saint Jean is a publicly traded carbon science company, with specific interests in energy storage and green energy creation and green re-creation, with holdings in graphite mining and lithium claims in the province of Quebec in Canada. For the latest information on Saint Jean's properties and news please refer to the website: <http://www.saintjeancarbon.com/>

On behalf of the Board of Directors

Saint Jean Carbon Inc.  
Paul Ogilvie, CEO and Director

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