

ZEN Graphene Solutions Reports a 324% Increase in Anode Discharge Capacity in Preliminary Battery Testing Results

11.04.2019 | [Newsfile](#)

Thunder Bay, April 11, 2019 - ZEN Graphene Solutions Ltd. (TSXV: ZEN) ("ZEN" or the "Company") and its research partners, Deutsches Zentrum für Luft- und Raumfahrt, The German Aerospace Center ("DLR") and Kal Tire are pleased to report on their preliminary battery development results at the University of British Columbia, Okanagan Campus, performed by Dr. Lukas Bichler and his team. Initial results showed that the addition of 5% ZEN reduced Graphene Oxide (rGO) into Carbon Black derived from recycled tires from Kal Tire resulted in a 324% increase in the anode discharge capacity in comparison to the current industry standard anode material, SUPER P Carbon powder, which is used in numerous battery applications as a conductive additive.

Dr. Francis Dubé, "This environmentally friendly process utilizes recycled used tires and produces Carbon Black which is potentially suitable for use as an Anode material in rechargeable batteries. This could potentially decrease the cost of anode material, which is currently the highest cost component of these batteries. These are excellent preliminary research results and ZEN will continue to work with Dr. Bichler and his team along with DLR and Kal Tire to optimize these results."

Follow-up research will now focus on optimizing these preliminary results to produce a new environmentally friendly, lower cost and higher capacity anode material. The Carbon Black material derived from the Kal Tire tires yielded an anode material with an energy discharge capacity of 115 milliampere hours per gram (mAh/g), the same as industry standard carbon, Super P. The addition of 5% rGO from ZEN to the Carbon Black anode material increased the capacity from 115 mAh/g to 488 mAh/g while a battery consisting of 100% rGO had a capacity of 840 mAh/g. These results were presented during a 2 day summit at UBC-O. Future opportunities in next generation batteries and other applications were discussed between the 3 industrial partners along with the potential for strong collaborations between the Canadian and European partners. The collaboration also focuses on international exchange of students and research scientists to rapidly develop these new battery anode materials.

About ZEN Graphene Solutions Ltd.

ZEN Graphene is an emerging graphene technology company with a focus on the development of the unique Albany graphite project. This precursor graphene material provides the company with a competitive advantage in the potential graphene market as independent labs in Japan, the United Kingdom, Israel, the United States and Canada have demonstrated that ZEN's Albany graphite/Naturally Pure easily converts (exfoliates) to graphene, using a variety of simple mechanical and chemical methods.

For further information:

Dr. Francis Dubé, Chief Executive Officer
Tel: +1 (289) 821-2820
Email: drfdube@zengraphene.com

To find out more on [ZEN Graphene Solutions Ltd.](#), please visit our website at www.ZENGraphene.com. A copy of this news release and all material documents in respect of the Company may be obtained on ZEN's SEDAR profile at www.sedar.ca.

Forward Looking Statements

This news release contains forward-looking statements. More particularly, this news release contains statements concerning the acceptance of the engagement of Storyboard by the TSX Venture Exchange and the anticipated monthly fees payable to Storyboard. Although the Company believes that the expectations reflected in these forward-looking statements are reasonable, undue reliance should not be placed on them because the Company can give no assurance that they will prove to be correct. Since forward-looking statements address future events and conditions, by their very nature they involve inherent risks and uncertainties. Although ZEN believes that the assumptions and factors used in preparing the forward-looking information in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. ZEN disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law. Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.

To view the source version of this press release, please visit <https://www.newsfilecorp.com/release/44028>

Dieser Artikel stammt von [Rohstoff-Welt.de](https://www.rohstoff-welt.de)

Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/323595--ZEN-Graphene-Solutions-Reports-a-324Prozent-Increase-in-Anode-Discharge-Capacity-in-Preliminary-Battery-Test-Results>

Für den Inhalt des Beitrages ist allein der Autor verantwortlich bzw. die aufgeführte Quelle. Bild- oder Filmrechte liegen beim Autor/Quelle bzw. bei der vom ihm benannten Quelle. Bei Übersetzungen können Fehler nicht ausgeschlossen werden. Der vertretene Standpunkt eines Autors spiegelt generell nicht die Meinung des Webseiten-Betreibers wieder. Mittels der Veröffentlichung will dieser lediglich ein pluralistisches Meinungsbild darstellen. Direkte oder indirekte Aussagen in einem Beitrag stellen keinerlei Aufforderung zum Kauf-/Verkauf von Wertpapieren dar. Wir wehren uns gegen jede Form von Hass, Diskriminierung und Verletzung der Menschenwürde. Beachten Sie bitte auch unsere [AGB/Disclaimer!](#)

Die Reproduktion, Modifikation oder Verwendung der Inhalte ganz oder teilweise ohne schriftliche Genehmigung ist untersagt!
Alle Angaben ohne Gewähr! Copyright © by Rohstoff-Welt.de -1999-2026. Es gelten unsere [AGB](#) und [Datenschutzrichtlinien](#).