Talga Graphene Boosts Li-ion Battery Performance

Talga moves towards testing graphene nanoplatelets

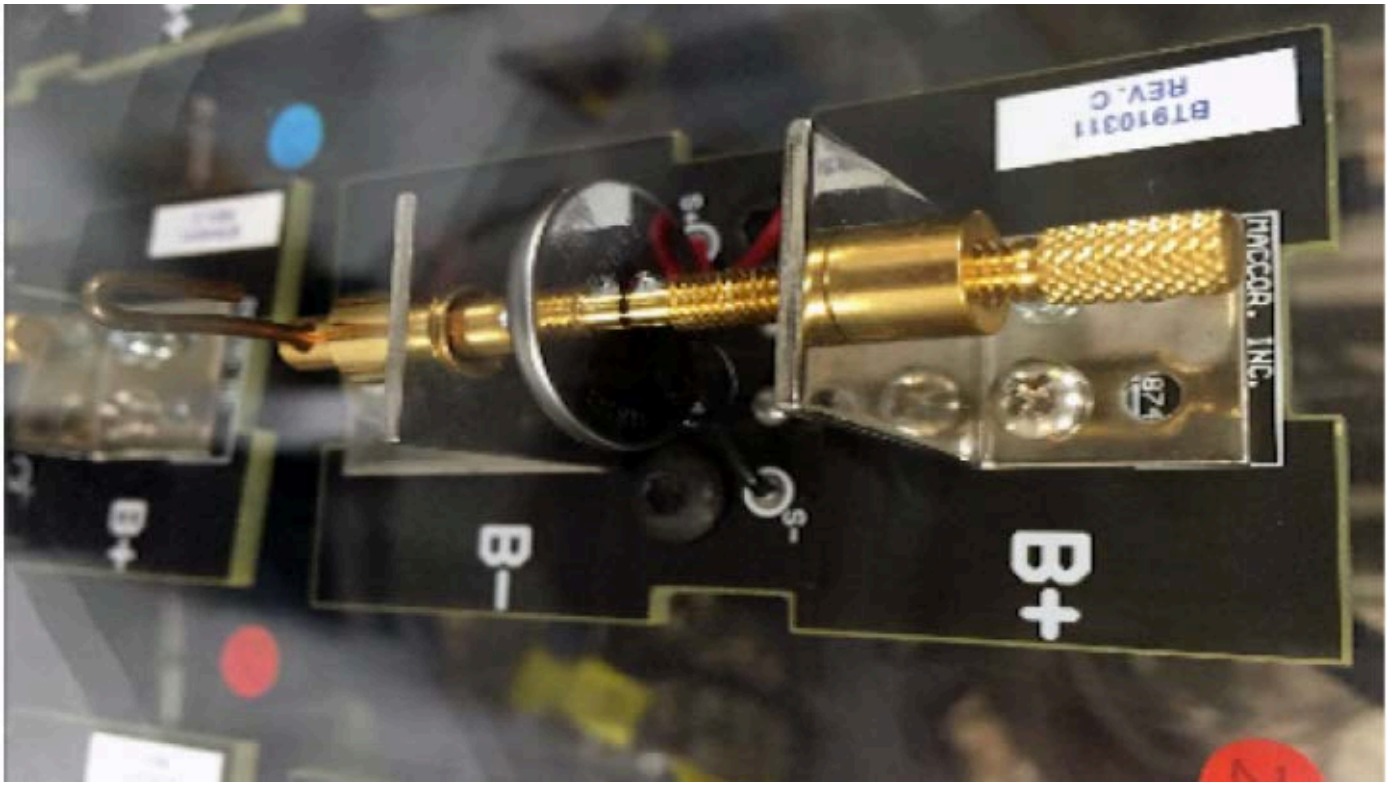

Photo: Talga Resources

Published by
Peter Höök - 07 Jun 2017

Talga Resources Ltd is pleased to provide an update on initial benchmark testing of it's graphene in Lithium-ion, Li-ion, batteries manufactured at the Warwick Manufacturing Group's Energy Innovation Centre, University of Warwick UK.

Following successful tests of the Company's micrographite product Talga announced its intention to move towards testing its graphene nanoplatelets, GNP, as the active material of Li-ion battery anodes. Talga is targeting the energy storage sector as part of its product development strategy and is developing prototype Li-ion battery anode materials to meet the increasing demand for affordable, high performance, eco-friendly energy storage.

Preliminary test results are highly encouraging with Talga material exhibiting outstanding electrochemical performance that surpasses capacity measures for commercially available graphite anodes delivering up to ~27% more energy density. Increased battery energy density translates into increased range for an electric car or additional usage time for a smart phone or mobile device.

– There is a perception that next generation anodes are either a long way off or prohibitivelyexpensive, but this work shows this may not be the case. These outstanding test results are based on Talga's bulk GNP's which have the potential to be economically competitive with today's flake and synthetic graphite anode materials that are subject to costly shaping and coating steps before use in the downstream battery supply chain. Our material has the potential to bypass the majority of this expense and associated negative environmental impacts to provide the clean supply chain that major battery and device manufacturers are seeking, says Talga Managing Director Mark Thompson.