

Talga Lithium-ion Battery Program Update

Talga Resources Ltd

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Corporate Information

ASX Code **TLG**

Shares on issue **146.3m**

Options (unlisted) **23.3m**

Company Directors

Keith Coughlan

Non-Executive Chairman

Mark Thompson

Managing Director

Grant Mooney

Non-Executive Director

Stephen Lowe

Non-Executive Director

Advanced materials company, **Talga Resources Ltd** ("Talga" or "the Company")(ASX: TLG), is pleased to provide an update on testing of it's graphite material in lithium ion ("Li-ion") batteries.

Following significant positive results from battery test-work at German institutes (see ASX:TLG 17 Feb 2016), a new program has commenced at the University of Warwick Energy Innovation Centre in the UK ("EIC"). The EIC program differs from previous and concurrent German testing in that the work is at industrial rather than laboratory scale.

In the new program, Li-ion 'coin cell' batteries using Talga material have been produced by methods that can be scaled up for future continuous roll to roll anode preparation (see Figure 1 and below).

Fabrication of the battery anodes was successful and performance testing has commenced over what will be up to 1,000 charge-discharge cycles (compared to the previous 100 cycles).

The Talga material being used in the test batteries is produced from its pilot test facility in Germany using a patent pending process that saves expensive milling and micronising steps common to current Li-ion battery anode manufacture.

Further tests are planned to include production of larger 'pouch' batteries and trials of multiple chemistries currently used in the global Li-ion battery industry. Comprehensive data will be released to the market as it is compiled and interpreted post testing, expected over the next two months.

For further information, visit www.talgaresources.com or contact:

Mark Thompson - Managing Director

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Figure 1. Talga graphite coating copper foil to form Li-ion battery anode.





Batteries made in a dry room with dewpoint -46.5°C.



Talga graphite slurry coated on copper foil to form Li-ion anode.



Anode disc punched to fit coin battery.



Coated discs weighed for active mass of graphite.



Lithium foil cathode.



Various components of battery cells.



Battery component assembly.



Talga Li-ion battery being cycle tested.

About Talga

Talga Resources Ltd ("Talga") (ASX: TLG) is an advanced materials company with patent pending technology to produce industrialised supply of graphene and micrographite sourced from it's 100% owned natural graphite ore deposits in Sweden. Talga's unique deposits and proprietary processes provide a potential path to high quality production that overcomes cost and volume barriers to supply, thereby unlocking commercial applications. Micrographite as well as graphene platelets are being manufactured for industry partners at Talga's German pilot scale test-work facility.

The Company's processing technique relies on Talga's unique natural source and bypasses the need for traditional milling. Pristine particle morphology is maintained and significant operational and capital expenditure benefits are anticipated. Talga has the opportunity to be a global leader with respect to pricing, volume and quality of graphitic advanced materials in key sectors like construction, coatings, energy and composites.

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