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ASX Symbol

FGR, FGROB

Research & Development Rebate

First Graphite Limited (ASX:FGR) is pleased to advise it has received a Research and Development refund totalling \$362,975 for the financial year 2015/16.

The refund adds to the Company's cash reserves and will be used as working capital as it advances its graphene strategies.

Graphene Production Video

FGR also advises a video production by Axino GmbH of the Company's graphene production facility at Nagrom may be viewed from the Company's website.

If you wish to view the video please proceed to www.firstgraphite.com.au and click on *High Quality Graphene Production in Western Australia*.

Alternatively click on <https://m.youtube.com/watch?v=J46YnNtius0> to go straight to the video.

About First Graphite Ltd (ASX: FGR)

First Graphite produces high quality graphene from high grade Sri Lankan vein graphite.

First Graphite seeks to develop graphene production methods and acquire graphene related intellectual property which can provide further revenue related opportunities.

The Company is developing its own mines and holds 39,500ha of prospective graphite exploration licences in Sri Lanka.

About Graphene

Graphene, the well-publicised and now famous two-dimensional carbon allotrope, is as versatile a material as any discovered on Earth. Its amazing properties as the lightest and strongest material, compared with its ability to conduct heat and electricity better than anything else, mean it can be integrated into a huge number of applications. Initially this will mean graphene is used to help improve the performance and efficiency of current materials and substances, but in the future it will also be developed in conjunction with other two-dimensional (2D) crystals to create some even more amazing compounds to suit an even wider range of applications.

One area of research which is being very highly studied is energy storage. Currently, scientists are working on enhancing the capabilities of lithium ion batteries (by incorporating graphene as an anode) to offer much higher storage capacities with much better longevity and charge rate. Also, graphene is being studied and developed to be used in the manufacture of supercapacitors which are able to be charged very quickly, yet also be able to store a large amount of electricity.

Nature of vein graphite

Sri Lankan graphite deposition model is best described from the 'bottom up': tension fractures formed in the metamorphic sediments, caused by the folding of the sediments, creating 'conduits' for the hydrothermal deposition of high quality vein graphite. Historically, mining of these veins has found the veins generally increase in thickness and grade quality with increasing depth. Graphite veins generally dip steeply at -70° to near vertical, enabling 'narrow vein' extraction mining techniques similar to those used on narrow vein, high grade gold deposits. The method commonly used is an overhead retreat stoping technique where the high grade vein graphite is mined and hauled to surface without contamination. The graphite selvages, in contact with the surrounding waste, is hauled to surface and stockpiled for upgrading. The balance of the waste is used to fill the floor of the stope.

Due to the nature of the vein graphite, it is anticipated vein widths of $\sim 25\text{cm}$, using narrow vein mining techniques can be economically extracted from underground operations.

For further information:

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