

first graphene

Australia's leading graphene company

ASX Announcement

25 June 2018

Extending Graphene Applications into the Mining Services Industry

Highlights

- MoU signed with newGen Group to develop graphene-enhanced polyurethane liners for use in mining equipment
- newGen is a WA-based mining industry supplier, providing liners for the leading iron ore producers, including BHP, RIO and Fortescue
- Adaptation of improved products is expected to lead to a strong growth curve for graphene-enhanced from the general mining industry

Advanced materials company, First Graphene Limited ("**FGR**" or "**the Company**") (ASX: FGR) is pleased to advise of a Memorandum of Understanding with **newGen Group** for the development of graphene enhanced products for the mining services industry.

Background

Having established its graphene production facility at Henderson, FGR's primary focus now is working with a number of manufacturers in a range of industries to demonstrate the benefits that graphene can offer to their product ranges. This usually involves taking the standard graphene the FGR produces and functionalising it to ensure the optimum performance in the customers products.

We have previously announced an agreement with a maritime services company to trial graphene in marine shipping cables and anti-fouling coatings. This most agreement involves adding graphene to polyurethane liners and ground engaging tools used in the mining industry.

The Project

Equipment used in the mining industry is frequently modified with the installation of polyurethane liners to protect them from excessive abrasion, and these liners need to be replaced at regular intervals. The life of these liners is typically six months in, for example, the iron ore industry. It is believed the addition of graphene to the liners will significantly reduce the wear factor, thereby extending the lives of the liners and providing useful cost savings in materials and labour.

newGen currently supplies the leading iron ore miners in WA with liners, including companies such as BHP Iron Ore, Rio Tinto and Fortescue. We expect that successful development of a new product range will lead to more extensive adoption of graphene enhanced products throughout the larger field of mining and mineral processing equipment.

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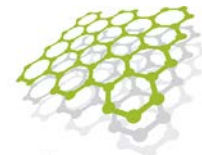
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ASX Code

FGR

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Liners in reclaimer buckets need frequent replacement

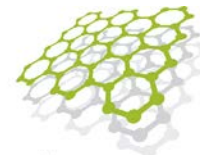


The ground engaging tools in the buckets are also subject to high wear rates

Managing Director, Craig McGuckin said " *newGen Group represents another industry partner with whom FGR will be developing an exciting range of products utilising FGR's range of high quality graphene. It is also pleasing that newGen are a local, Henderson based company.*"

Ben Walker, Founder and Managing Director of newGen Group said " *We are excited to form this relationship with First Graphene to explore opportunities in the mining services sector. Both companies see significant potential benefits in utilising the unique properties of graphene to improve the operational efficiency and environmental impact of several mining applications.*"

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About First Graphene Ltd (ASX: FGR)

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

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

About newGen Group

newGen was formed by a mobile owner operator who specialised in the supply and site installation of industrial wear protection and lining systems.

Throughout years of establishing a solid reputation within the industry, newGen evolved into the Group - offering a variety of solutions by a group of highly skilled industry experienced individuals who share the same vision and dedication as the founder; delivering cost-effective TURN-KEY solutions to mining and industry whilst maintaining service excellence, quality and flexibility.

newGen Group have rapidly defined a reputable role as a competent and competitive supplier of products and site services to mining, mineral processing and bulk materials handling industries and today operate from a modern facility located in Henderson, Western Australia.

newGen's diverse in-house capabilities, site installation, maintenance and mechanical services are complimented by an extensive supply network to create a solid platform for consolidated purchasing through one source.

newGen Group has developed four divisions that comprise of it's core capabilities:

- *newGen Wear Protection & Lining Systems*
- *newGen Water Works*
- *newGen Enviro*
- *newGen Mining Products & Site Services*

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