



铭泰国际

Metech International Limited

(Incorporated in the Republic of Singapore)
(Company Registration Number 199206445M)

PRESS RELEASE

Collaboration with China's Integrated Cable Manufacturer, Chang Jiang Cables, to Develop Industrial Applications for Cables and Wires with Lab-Grown Diamonds; To Supply Chang Jiang Cables with Lab-Grown Diamonds

- *A lab-grown diamond is a diamond: chemically, physically and optically identical to a mined diamond*
- *Lab-grown diamonds have been shown to have superior carrier mobility, breakdown electric field and thermal conductivity⁽¹⁾*
- *Lab-grown diamonds are considered as a sustainable source and perfect substitute of mined diamonds*
- *AET has the technological capabilities to produce the highest grade of lab-grown diamonds*

Singapore, 3rd November 2021 – SGX-listed **Metech International Limited** (“**Metech**” or the “**Company**”, “铭泰国际” and together with its subsidiaries, the “**Group**”), is pleased to announce that its joint venture company, **Asian Eco Technology Pte. Ltd.** (“**AET**” or “易高生态科技有限公司”) has entered into a collaboration with 广东长江电缆有限公司 (“**Chang Jiang Cables**”) to jointly research and develop industrial applications for cables and wires with lab-grown diamonds so to improve product quality, enhance productivity and improve cost-savings in raw materials usage.

In addition, AET will supply Chang Jiang Cables with its lab-grown diamonds for the purpose of producing diamond-related cables and wires.

Based in Guangdong Province, Chang Jiang Cables is a large-scale, integrated enterprise specialising in the production of a wide range of cables and wires. It utilises automated production facilities with advanced equipment and is supported by its in-house technical expertise. As a testament to its high product quality, Chang Jiang Cables has attained several international quality and industry certifications and assurance. For more information on Chang Jiang Cables, please visit <http://www.gdchangjiang.com.cn/>

The Electrical Properties of Diamonds Allow for High Power Density (based on High Critical Electric Field and High Carrier Mobility)

When power generators transfer electricity, they lose almost 10% of the generated power. To address this, researchers have now successfully fabricated a key circuit in power conversion systems using hydrogenated diamond. These circuits can be used in diamond-based electronic devices that are smaller, lighter and more efficient than silicon-based devices⁽²⁾.

With the increasing importance for power, light and communication, the cable and wire industry has established itself as one of the backbones of modern information age. Cables and wires are used for transmitting power, signals and also in various industries. They are widely used across various end-use segments including residential, commercial and industrial purposes.

(1) <https://www.mining.com/diamonds-may-power-electrical-grid-evs-more-efficiently/>

(2) <https://www.sciencedaily.com/releases/2018/04/180410110909.htm>



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Ms. Samantha Hua, Deputy Chief Executive Officer and Executive Director of Metech, said: “The unique features of diamonds are opening up potential applications in a wide array of industries such as semiconductors, power transmission, and sensors.

With the growing demand for efficient energy and data communications globally, we believe that the use and adoption of diamond-related industrial applications will accelerate within the cable and wires industry.

As lab-grown diamonds can be produced more economically and at a sustainable scale, there are significant opportunities for us to expand our business presence in this highly specialised industry.”

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About Metech International Limited

(Bloomberg: CENR:SP / Reuters: METE.SI / SGX Stock Code: V3M)

Listed on the Singapore Stock Exchange, Metech has a multi-pronged business model that aligns with the macro trends in the area of environmental and sustainability.

While proactively evaluating new business opportunities to broaden its business model, Metech continues to build on its capabilities and extend the value propositions of its business units.

Issued on behalf of Metech International Limited by 8PR Asia Pte Ltd.

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*This announcement has been prepared by the Company and its contents have been reviewed by the Company’s Sponsor, RHT Capital Pte. Ltd. (the “**Sponsor**”) for compliance with the relevant rules of the Listing Manual Section B: Rules of Catalist of the Singapore Exchange Securities Trading Limited (the “**SGX-ST**”). The Sponsor has not independently verified the contents of this announcement.*

This announcement has not been examined or approved by the SGX-ST and the SGX-ST assumes no responsibility for the contents of this announcement, including the correctness of any of the statements or opinions made or reports contained in this announcement.

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