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ASX Announcement
& Media Release

PPK significantly reduces the price of BNNT, opening new opportunities across multiple industries

PPK Group Limited's (ASX: PPK) subsidiary BNNT Technology Pty Ltd has announced it has significantly reduced the price of its high-quality, Australian-made boron nitride nanotubes (BNNT) following a series of production improvements that have dramatically lowered the cost of production for the multi-use super material.

BNNT Technology's pricing for BNNT now starts from US\$150/gram (subject to volume and functionalisation requirements), compared to the approximately US\$400/gram offered by competitors.



BNNT is a remarkable nanomaterial with endless possibilities. It can be used as an additive in small quantities to polymers, resins, fibres, precious metals, and glass to improve their mechanical properties.

BNNT can also be used to reduce the weight of componentry while maintaining or improving structural integrity by boasting a first-class strength-to-weight ratio making it ideal for the aviation and space industries.

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Commercial Director Lieuwke de Jong said reducing the unit cost has remained a significant focus area for PPK's nanomaterial companies.

"I speak with potential customers daily and the conversation inevitably turns to cost. There are many use cases where the end product would be improved with the addition of our nanomaterials but until now the cost has been prohibitive. While the premium end of the market will always be crucial to our success, my aim is to ensure that adoption of these super materials can be as widespread as possible, including through the development of derivatives."

PPK Chief Executive Officer Marc Fenton said the production improvements provided an opportunity for various industry sectors to leverage the unique properties and applications of BNNTs at a more accessible price point.

"Scientists and industry have been aware of the incredible properties of BNNT for many years, but the cost of production has been a huge obstacle to widespread testing and utilisation of the nanomaterial," Mr Fenton said.

"By lowering the cost substantially, we will improve access and ensure more companies can test and validate the performance of BNNT in their products.

"Many potential applications of BNNT are still in their development stage but have been made more achievable as a consequence of our investment to drive the cost of production down."

Through its subsidiaries, BNNT Technology Pty Ltd (www.bnnt.com.au) and White Graphene Limited (www.white-graphene.com) PPK can produce high-quality, low-cost nanomaterials in a range of multipurpose formats, including tubes (BNNT), ribbons and sheets (BNNS or white graphene).

PPK invests capital and expertise in high-potential science and technology opportunities with a current focus on nanomaterials, energy storage solutions and artificial intelligence. The company's portfolio of investments includes:

- ASX-listed lithium sulphur battery technology group **Li-S Energy Limited** (ASX: LIS) (www.lis.energy)
- Energy storage solutions company **PowerPlus Energy Pty Ltd** (www.powerplus-energy.com.au)
- Nanomaterials producer **BNNT Technology Pty Limited** (www.bnnt.com.au)
- 2D nanomaterials company **White Graphene Limited** (www.white-graphene.com)
- Ballistic protection company **Craig International Ballistics Pty Ltd** (www.ballistics.com.au)
- Transport analytics SaaS start-up **Advanced Mobility Analytics Group Pty Ltd** (www.amagroup.io).

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