

ASX ANNOUNCEMENT

FOR IMMEDIATE RELEASE TO THE MARKET PPK Group Limited – ASX Code: PPK

Tuesday 26 November 2019

Chairman's Address and Presentation - 2019 AGM

The last 12 months have been the most exciting in the Company's history.

The joint-venturing with Deakin University has delivered a raft of opportunities. The development of BNNT is nearing a commercial stage and the further research agreement with Deakin will potentially foster and provide broader markets in new generation batteries, thermal conductive materials, metal composites, reinforced armours, reinforced polymers and reinforced ceramics.

The acquisition of a 45% interest in Craig International Ballistics (announced 28 October 2019) is anticipated to complete mid-December.

Our mining business continues to have a real and meaningful position in the NSW coal mining regions and we think that too has further growth and opportunity.

There will be a presentation at the end of the meeting to provide more detail.

For further information contact:

Robin Levison

Executive Chairman of PPK Group Limited On 07 3054 4500.

PPK GROUP LIMITED



ANNUAL GENERAL MEETING Tuesday, 26 November 2019

The Next-Generation Nano-Material

They are Clear or White

Providing commercial advantages over the more widely adopted Carbon Nanotubes which are black only. They can also be dyed.

An Electrical Insulator

As apposed to the more widely adopted Carbon Nanotubes which are Electrical Conductors opening up new markets

Piezoelectric Properties

They Generate an Electrical Charge when Stretched or bent ideal for sensing technology.

Unprecedented Thermal Conductivity

7.5 x more thermal conductive than Copper. Increases thermal conductivity of polymers >10x



Strong Mechanical Properties

100 times the strength of Steel30 times stronger than Kevlar.50 times Stronger than Industrial Carbon fiber

Super flexible & Light

They are as light as Carbon fiber Can be bent over 90°, 1000's of times without failure, they even self repair

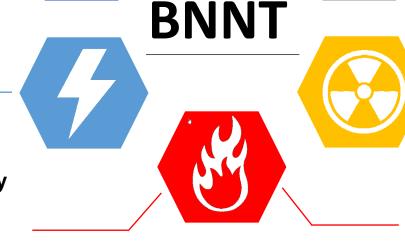


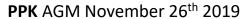
They absorb neutron atoms making BNNT a revolutionary radiation resistant material for space travel.

Superior Thermal Resistance

Can withstand temperatures over 900°C in untreated air without degradation.

> 2 x more Heat resistant than CNT's & Keylar







BNNT's are set to dominate the Nanotube Market

Piezoelectric

BNNTs will be key to enhanced sensors and robotics including applications in Unmanned Aerial Vehicles, harvesting energy and satellites

Water Replant & Anti-Corrosion

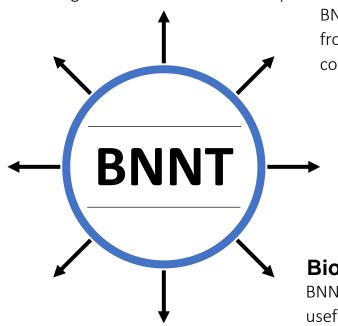
BNNT polymer composites can be applied as waterrepellent textiles, self-cleaning glasses, coatings to help combat corrosion of metal substrates. As BNNTs are water repelling they can be used to sperate oil from water

Radiation shielding

With unique high efficiency absorption of thermal neutrons BNNTs can be used for neutron shielding materials. Ideal for aviation and aerospace applications

Polymer & Ceramic Composites

Keeping its strength to over 900°C BNNT enhanced composites have superior strength and thermal conductivity



Electrically insulating

Quantum Computing

BNNTs hold promise for a variety of uses, from heat sinks enabling next-generation computing

Solar Cells and Battery Technology

Coating organic photovoltaics with BNNT loaded polymer can significantly improve device lifetime. Efficient batteries with faster charging and longer Charge

Biomedical

BNNTs are not cytotoxic, Consequently they will be useful in nano-textured cellular scaffolding for nerve and bone tissue regeneration, nanoscale delivery structures, and oncology cancer treatments.

Electrically insulating ultra strong components will be possible with BNNT composites.



BNNT Applications Under Research Globally

- Metal Polymer & Ceramic Components
- Transparent material for Defence, Automotive & Aviation
- Thermal conductive & electrical Insulating semiconductors
- Sensors
- Long-lasting batteries
- Efficient solar panel arrays
- Supercapacitors
- Hydrogen storage
- Desalination.
- Water purification
- Fire retardant clothing & materials
- Cancer and cellular regeneration therapies.
- 3D Printers
- Bullet proof clothing & glass

- Temperature-tolerant vibrational dampeners.
- Composites for unmanned aerial vehicles.
- Tough coatings
- Bright LEDs
- Radiation shielding
- Neutron detection
- Rugged aerospace components
- Biomedical scaffolding for nerve & bone tissue regeneration
- Targeted drug delivery
- Cancer treatments.
- Computer component shielding heat, electricity & radiation
- Screen protection glass
- Polyurethane-modified Bucky paper composites
- Reinforced aluminium

- Nanoelectronics where heat dissipation is critical.
- Nano transducers
- Nano Bio sensors.
- Fillers in metal/ceramic composites high temperatures.
- Optoelectronic devices,
- Lithography applications
- Antifouling surfaces.
- Aerospace components
- Applications in Dentistry.
- Fire retardant cabling
- Satellite structure & shielding
- Light weight armour
- High temperature components
- Spintronics or spin-based electronics
- Orthopedic implant applications



Partnerships Solving the Problem



Deakin University, BNNT Technology and PPK Join to construct the world's first commercial scale BNNT manufacturing facility which can produce in a continual process large volumes of high quality BNNT at temperatures under 1,600°C using new globally patented technology. Until now BNNTs have been produced in small production quantities in batch processes at temperatures over 5,000°C making BNNTs expensive and difficult to procure and to compete commercially.



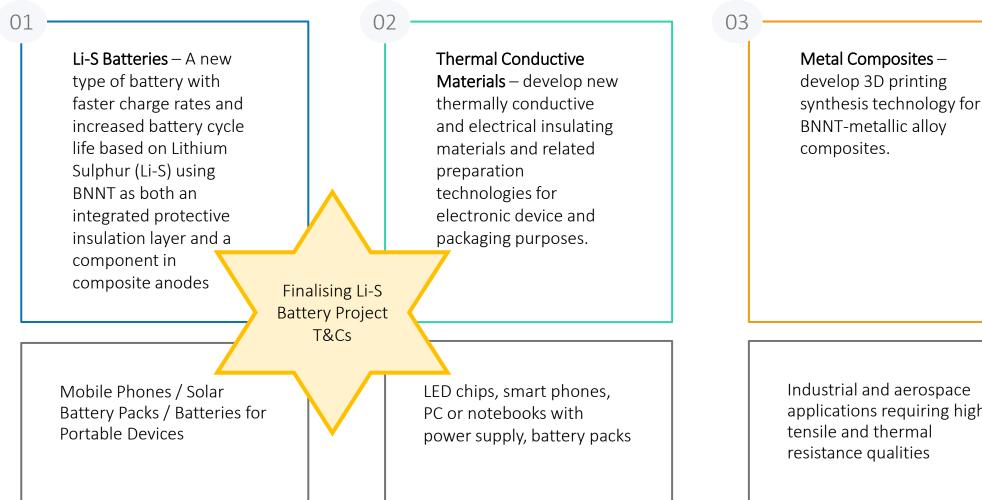
PPK BNNT Background

- Deakin University has developed a technology for manufacturing BNNT in volumes previously unavailable.
- BNNT Technology Limited has a 20 year exclusive license and global patents to manufacture BNNT.
- JV Research agreement with Deakin University, BNNT Technology Limited and PPK has been signed:
 - includes an initial six BNNT application projects for research into new technologies and materials.
 - all projects have a 2 to 3 year time horizon
 - Deakin University provides existing IP, researchers, resources and equipment
 - BNNT Technology Limited provides BNNT for research and commercial purposes
 - PPK provides management services to oversee the projects and commercialise new technology products
 - Sufficient financing in place to fund R&D for all six application projects



Six New BNNT Application Projects

16 October 2019 PPK Signs JV Agreement with Deakin University

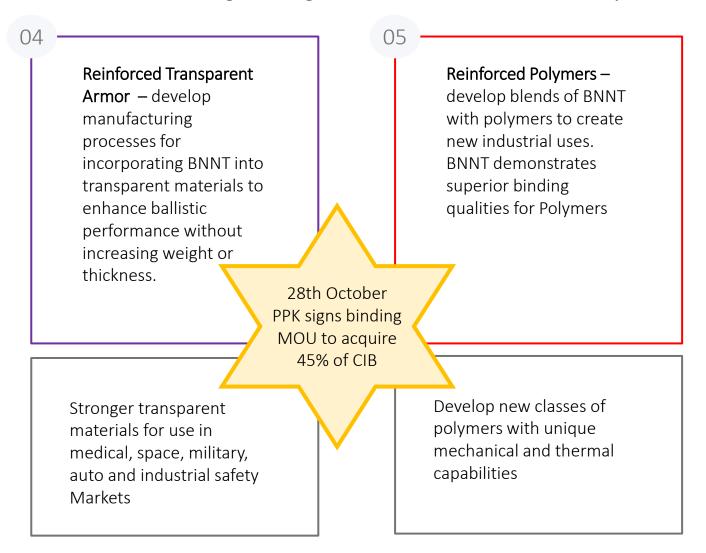


Industrial and aerospace applications requiring high tensile and thermal resistance qualities



Six New BNNT Application Projects

16 October 2019 PPK Signs JV Agreement with Deakin University



Reinforced Ceramics – improve mechanical properties of brittle ceramics by blending with BNNT.

Improve existing ceramic products and develop new class of ceramics with unique mechanical and thermal capabilities



PPK Technology Timeline

In less than 12 months PPK has significantly advanced the potential to produce and commercialise BNNT and BNNT new technologies through strategic partnerships.



March 2019

PPK Acquires 50% of BNNT Technology Limited



October 2019

JV Agreement Signed with Deakin University and \$8.5M Capital Raising



October 2019

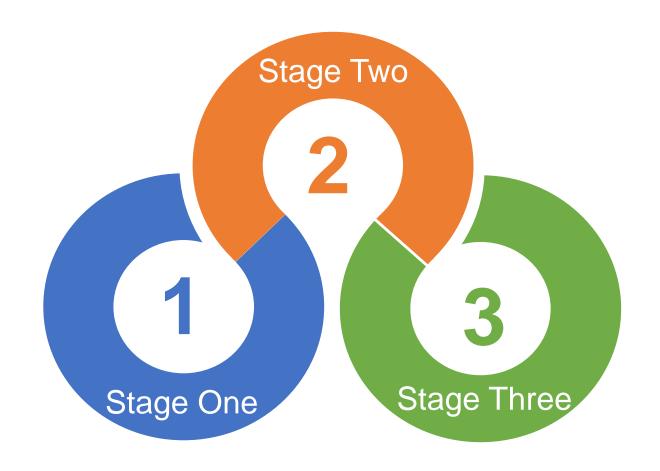
Binding MOU with Craig International Ballistics (45% equity for \$5.00m)



November 2019

Finalising Battery Project T&Cs with Deakin Energy





Stage One - Validated

The bulk creation of base material in a unique form that is ready for conversion into BNNT. Previously this was only created in small quantities in laboratory conditions

Stage Two - Validated

The safe and efficient semi-automated transfer of base material from Stage 1 to Stage 3 in a specific chemical environment. Previously this was a manual operation;

Stage Three - Testing

The conversion of base material into BNNT in a continuous batch process using newly designed equipment. Previously this was a manual operation



PPK – BNNT Update

- Ongoing testing of the BNNT production processing settings continues:
 - Provides greater understanding of the parameters and critical set points to achieve higher volumes
 - Initial design of the automation functionality has been completed and being tested
 - Engineering designs for modular approach for scaling up production process methods is underway
 - Introducing new furnace technology for more accurate heat control to allow more frequent testing of production variants
- Producing small quantities of BNNT with various processes:
 - Stockpiling for application development and early sales
 - Determining optimum quality and output from current processes
- Complete final equipment design for next BNNT plant construction which is underway





PPKME Financial Update

- PPKME has signed a 3-year fixed price contract for parts and services with one of its largest customers and agreed terms for a further fixed price contract with another of its key customers
- Thermal coal prices have fallen by ~32% this calendar year
- Major customers reviewing surplus operating spend and capital budgets due to fall in coal prices
- Short term impact on PPKME
 - YTD revenues above budget but not by as much as the reported August results
 - YTD EBITDA now slightly below budget
 - Budgets were ramping up to Christmas due to:
 - new product being released in October, will now occur in December
 - positive impact of new contracts expected in October, should now occur in early 2020



PPKME Innovation Update

- Battery electric personnel transporter
 - March 2020 diesel powered proto-type to be completed
 - June 2020 tested and configured for customers requirements, ready for sale
 - June 2021 retro-fit for battery electric engine
- Planning to retro-fit CoalTrams with a battery electric engine June 2021
- Introduction of ceramic filters
 - Initial testing on CoalTram completed, significantly cleaner than any other filter
 - Further testing in progress
- Our three largest customers are partnering these projects



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