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## Australian Microcaps Investment Conference

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*Accelerating adoption of batteries  
for a cleaner energy future*

Wednesday, 23 October 2019



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- Virtuous cycle of EVs
- EV supply chain
- What does NOVONIX do?
- PUREgraphite activities
- BTS activities
- Corporate activity
- Board of Directors
- Executive team
- Investment highlights
- Contact information

## CORPORATE INFORMATION

### STOCK INFORMATION @ 22 October 2019

ASX Code	NVX
ASX Share Price	A\$0.58
52 Week Low - High	A\$0.36 – A\$0.73
Shares on issue	128.14m
Market Capitalisation	A\$74.3m

### CURRENT CASH POSITION @ 30 June 2019

Cash available	A\$6.1m
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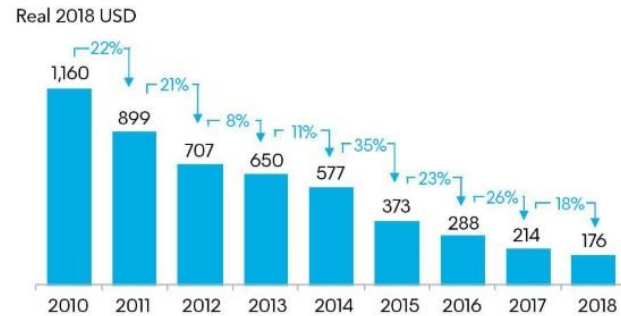
### FINANCIAL INFORMATION FY2018

FY2019 Revenue	A\$1.8m
Total Assets @ 30 June 2019	A\$34.9m
Total Liabilities @30 June 2019	A\$19.2m

SHAREHOLDINGS	(m)	%
Board and KMP – ordinary shares	51.8	40%

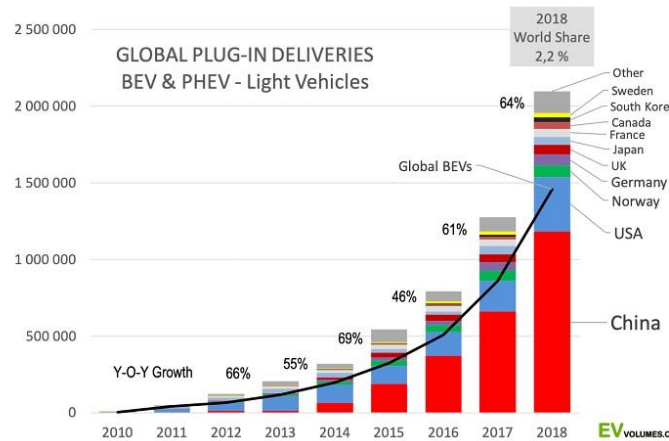
## Battery price reduction driving EV sales driving battery price reduction

Volume weighted average lithium-ion pack price



Source: BloombergNEF

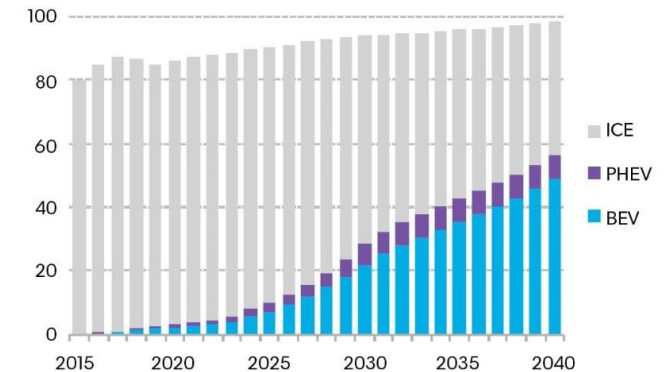
A staggering 85% reduction in the volume weighted average price of a lithium-ion battery pack in just nine years and more to come.



EV VOLUMES.COM

Over 2 million electric vehicles were sold in 2018 up from just a few thousand in 2010 and there is no sign of slowing down.

Million vehicles



Source: BloombergNEF

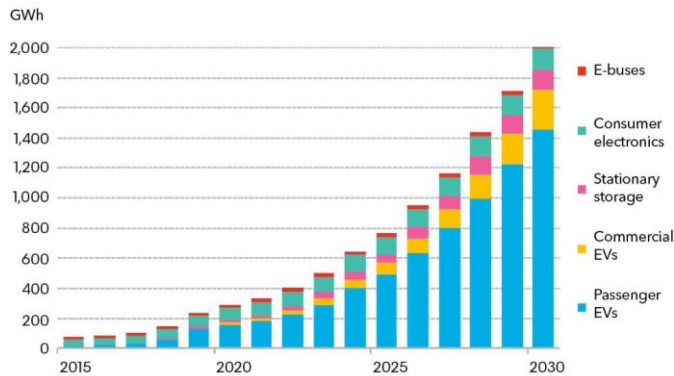
Bloomberg NEF expect annual passenger EV sales to rise to 10 million per year in 2025, 28 million in 2028 and 56 million by 2040.

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## More EV's, more batteries, more battery factories, more battery materials

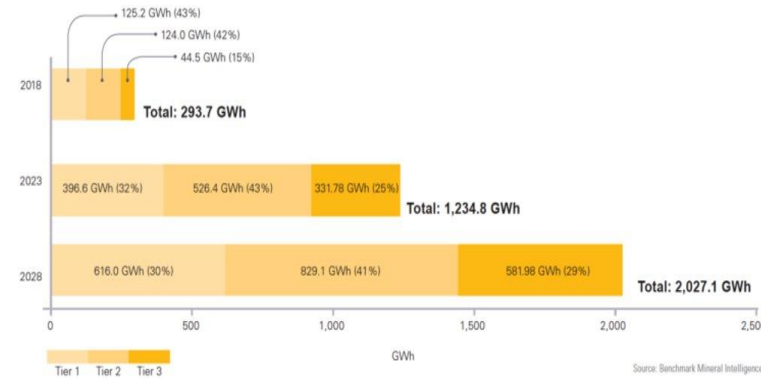
Annual lithium-ion battery demand



Source: BloombergNEF, Avicenne

Demand for premium high capacity long life lithium-ion batteries is expected to grow ten-fold by 2030

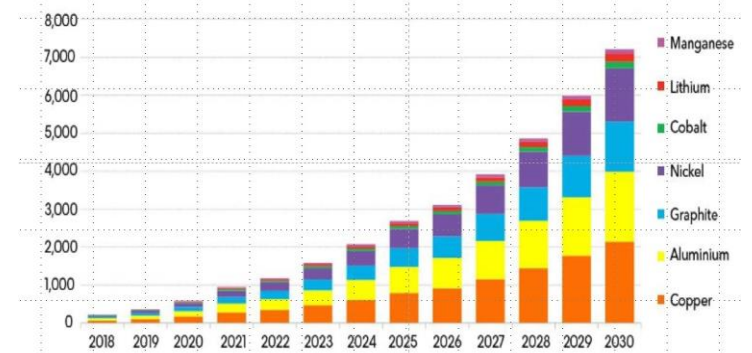
Megafactory capacity forecast by tier ranking



Source: Benchmark Mineral Intelligence

There are now 99 megafactories in the pipeline with over 2,000 gigawatt hours (GWh) of capacity in the industry's pipeline for 2028.

Thousand metric tons



Demand for premium high capacity long life battery materials is expected to grow ten-fold by 2030

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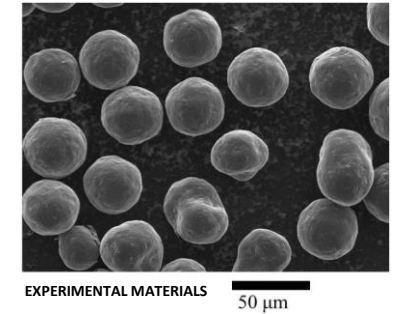


## NOVONIX is an international battery materials and technology company

- **Manufacturer of battery anode material (PUREgraphite)**



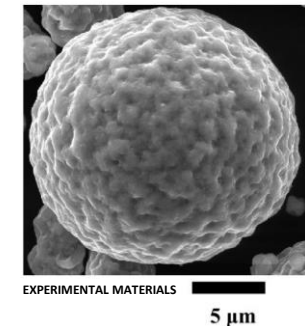
- Premium high capacity long-life graphite anode material
- Product launched early in 2019
- Manufacturing plant being commissioned in the USA
- Commercial production to commence in Q4 2019



- **Supplier of battery technology solutions (BTS)**



- NOVONIX test equipment accelerates R&D from years to weeks
- Battery testing equipment used by battery & OEM multinationals
- Battery pilot line & lab supporting internal and customer projects
- Based in Canada with sales in 14 countries





## July - September activities

- PUREgraphite anode product now qualified for use by two global battery makers with volume and price discussions underway
- Positive feedback from product evaluations by other global battery makers and second stage product evaluation programs agreed
- Construction of the Phase 1 commercial plant continued
- Unplanned delays in delivery and installation of some critical pieces of equipment (previous notified to the market)
- Now forecasting first commercial production to occur in November
- Expecting it will take three to six months to get operations running steady at an optimal level with the current technology being adopted
- Further expansion of capacity beyond 500 tpa will be based on customer demand
- PUREgraphite now integrated/supported by NOVONIX's expanded battery technology services team in Halifax

## October - December 2019 outlook

- Material evaluation ongoing with potential customers
- Ongoing product customization for customers
- Customer volume and price negotiations
- Preparation for engagement with more customers
- Commissioning of Phase 1 Commercial Plant
- First commercial production milestone
- Optimisation of new processing technologies
- Ongoing planning for scaling the business in 2020
- Ongoing process technology development
- Ongoing product development

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## July - September activities

- Patent application filed for particle aggregation technology for making high performance materials
- Completion and delivery of large customized battery test system for global brand client incorporating concurrent high precision measurement of voltage, current, impedance, swelling and temperature while cycling the cell – possibly a world first
- Commenced multiple cell testing projects with several new customers including global brand names
- Commenced multiple battery materials and cell design programs with several new customers
- Expanded the battery technology and testing services team to meet the rapidly growing customer demand for NOVONIX services

## October - December 2019 outlook

- Continued steady growth of our battery technology and testing services business
- Publishing and presentation of white papers on NOVONIX's flagship DTA and HPC technologies as part of refreshed marketing program
- Expansion planning for the technology services side of the business for 2020
- Further R&D on recent materials and manufacturing method inventions associated with silicon infused graphite materials, dry processes of dry process for modifying and coating cathode particles
- Ongoing support of the PUREgraphite business in terms of slurry making, electrode making, battery making, battery testing and materials customization and improvement



## July - September activities

- Ongoing high-level support for PUREgraphite business development including a composite board and management working group and customer visits
- Increased top-level engagements and activations with prospective global customers including leverage of extensive personal networks
- Strategic review of the group with a focus on promising growth opportunities and geographies for PUREgraphite and BTS
- Completion of FY2019 financial audit and accounts
- Ongoing statutory and other reporting activities
- Ongoing investor meetings and communications

## October - December 2019 outlook

- Corporate support with development of off-take agreements / sales contracts and expansion of business development activity in general
- Corporate guidance and oversight to the establishment of commercial scale production at PUREgraphite in expanded premises
- Detailed planning and preparation for 2020

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**Chairman**  
Tony Bellas



**Managing Director**  
Philip St Baker



**Executive Director**  
Greg Baynton



**Non-Executive Director**  
Admiral Robert J. Natter



**Non-Executive Director**  
Andrew N. Liveris AO



**Non-Executive Director**  
Robert Cooper



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**Group Chief Operating Officer  
CEO of PUREgraphite / CEO of BTS**  
Dr Chris Burns



**Group VP Business Development  
CFO of PUREgraphite / CFO of BTS**  
Nick Liveris



**Group Managing Director**  
Philip St Baker



**Group Executive Director**  
Greg Baynton



**Group CFO and Co Secretary**  
Suzanne Yeates



## **Opportunity to position at an early stage in a global market with exponential growth**

- Exponential demand for rechargeable lithium-ion batteries and battery materials being driven by EV and energy storage demand growth

## **Established brand in the rechargeable lithium-ion battery industry**

- NOVONIX is an established brand name known for making the most accurate battery cell test equipment in the world

## **Global footprint of blue-chip customers and sales in 14 countries**

- Battery cell testing tech used by battery & auto makers including PANASONIC, SAMSUNG, CATL, SK, GM, DYSON, BOSCH, GE

## **Innovative new products being commercialised in large growing market**

- Currently commercialising a US made high capacity long life anode material and developing next generation materials and testing technology

## **Backed by a board experienced in building and running billion-dollar businesses**

- Extensive experience in BD, resources, energy, advanced materials, battery industry, project financing, project delivery, operations and scaling

## **Highly-incentivised Board and Management**

- The Board and Management hold ~40% of the equity in the company – working directly on the delivery of customer supply contracts with the majors

## Corporate

### Group Managing Director

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### Group Executive Director

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### Group CFO and Co Secretary

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## Battery Technology Solutions



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## PUREgraphite



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