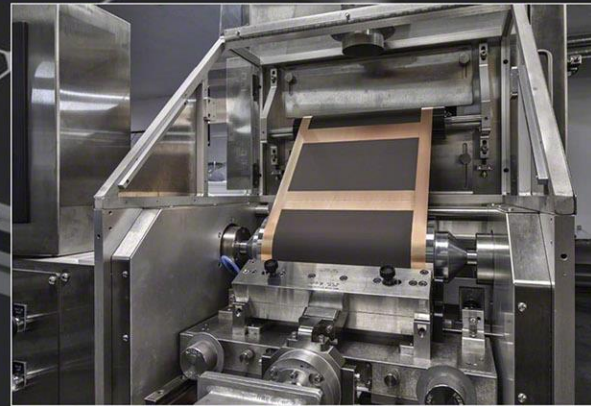
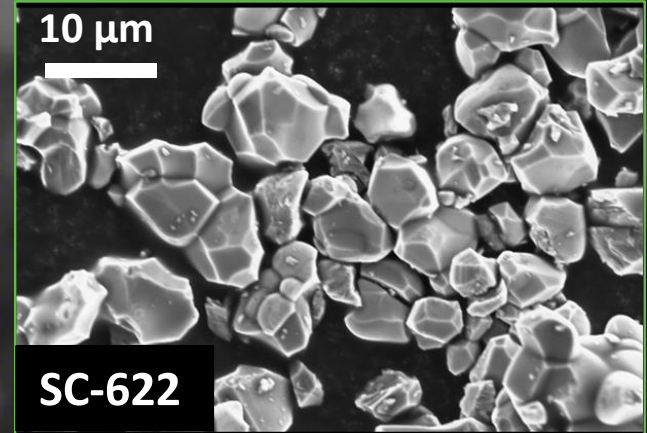


NOVONIX

NOVONIX LIMITED (ACN 157 690 830)



ASX Small and Mid-Cap Conference 2020

9 SEPTEMBER 2020



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- This announcement has been authorised for release to the ASX by the Managing Director, Philip St Baker.

Company Overview

NOVONIX

- NOVONIX Limited (ASX: NVX)
- Application lodged for listing on the North American OTC Market: OTCQX® Best Market

NOVONIX

Battery Technology Solutions

- Technology accelerates R&D from years to weeks
- Partnership with Dalhousie University
- Battery testing, design, and prototyping services
- Sales to battery & OEM multinationals in 15 countries
- Owner of DPMG manufacturing technology



PURE graphite Anode Materials

- First contracted supplier of US-made high capacity long-life synthetic anode
- Conditional sales agreement w Samsung SDI Dec19
- Non-binding MOU agreement with SANYO Jan20



NOVONIX

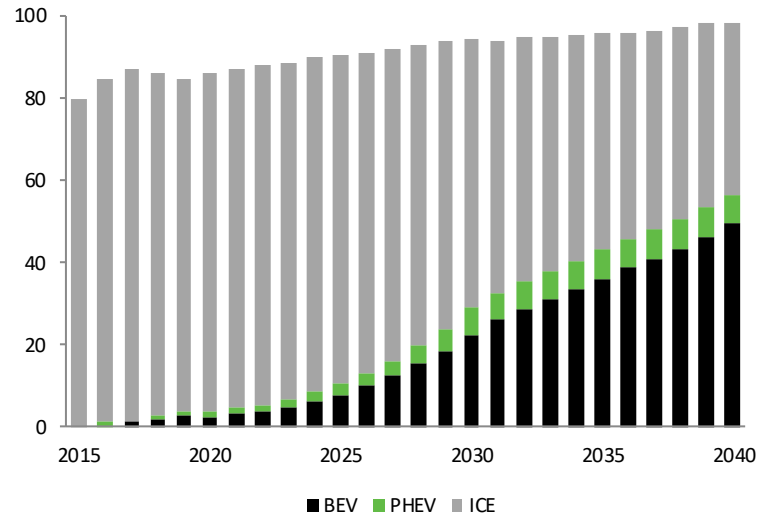
Cathode Materials

- **Coming soon**
- Leveraging NOVONIX DPMG technology
- Moving to pilot scale
- Ground floor patents in for new tech
- Single crystal cathode breakthrough

Renewables and Green Energy Demand Driving Battery Materials Growth 10x by 2030

More Electric Vehicles

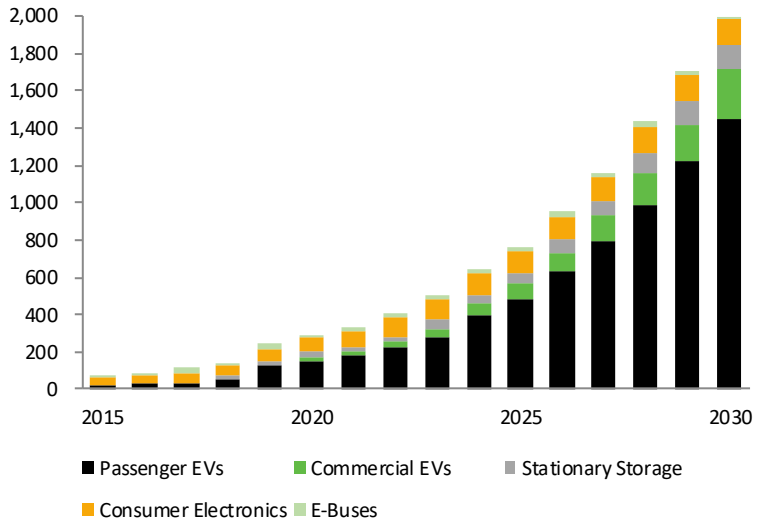
EV Sales, Millions



- Annual passenger EV sales to rise to 10 million per year in 2025, 28 million in 2028 and 56 million by 2040

More Batteries

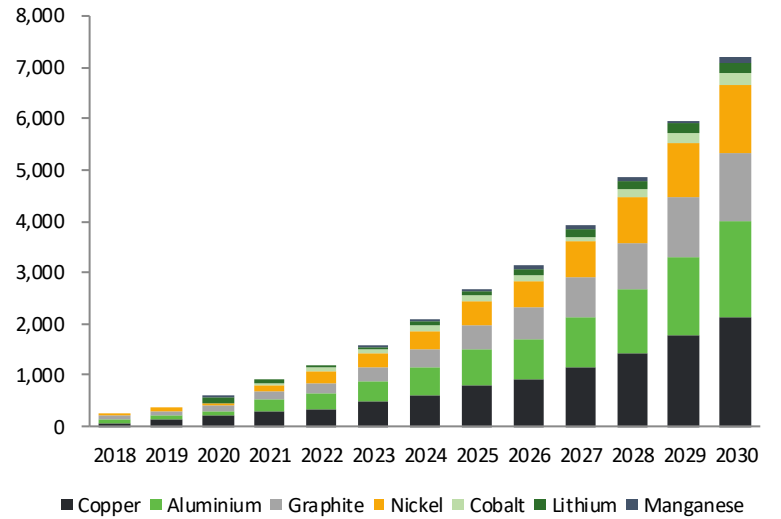
Annual Lithium-Ion Battery Demand, GWh



- To fill this demand for EV growth, there are 99 LIB megafactories in the pipeline with over 2,000 gigawatt hours (GWh) of capacity for 2028

More Battery Materials

Materials Demand, Thousand Metric Tons














- As a result, demand for high performance battery materials is expected to grow >7x

Total addressable market of anode and cathode materials is going from ~US\$10B today to US\$50B – US\$100B in the next 5 - 10 years

Source: Avicenne Energy 2020

Battery Growth is Happening in the US Now

Current US Gigafactory Pipeline

Battery Co.	Auto Co.	Investment	Capacity	Status	State
 LG Chem	 	\$300M	3 GWh	Operating	MI
 Panasonic SANYO		NA	35 GWh	Operating	NV
 SK innovation		\$1.7B	9.8 GWh	Operating 2022	GA
 LG Chem		\$2.3B	30 GWh	Announced Dec 2019	OH
 SK innovation		\$2.5B	21.5 GWh	Announced April 2020	GA

- The U.S. expects to have 130 GWh online by 2023
- Europe expects to have 198 GWh by 2023, and has signaled more than 400 GWh in the pipeline

Source: Company press releases and Avicenne Energy.

The Quest for the Million-Mile Battery

Million-Mile Battery requires three critical elements:

Requirement

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Long-life
Anodes

- **PUREgraphite Anode** – developed & scaling

Long-life
Cathodes

- **NOVONIX DPMG Single Crystal Cathode** – under development, IP filed

Long-life
Electrolytes

- **NOVONIX Electrolyte** – demonstrated performance and IP being filed

NOVONIX has all three elements in-house

CAR NEWS

GM VS TESLA FOR THE MILLION-MILE BATTERY

22 MAY
2020



ALEX RAE

NEWS A day ago

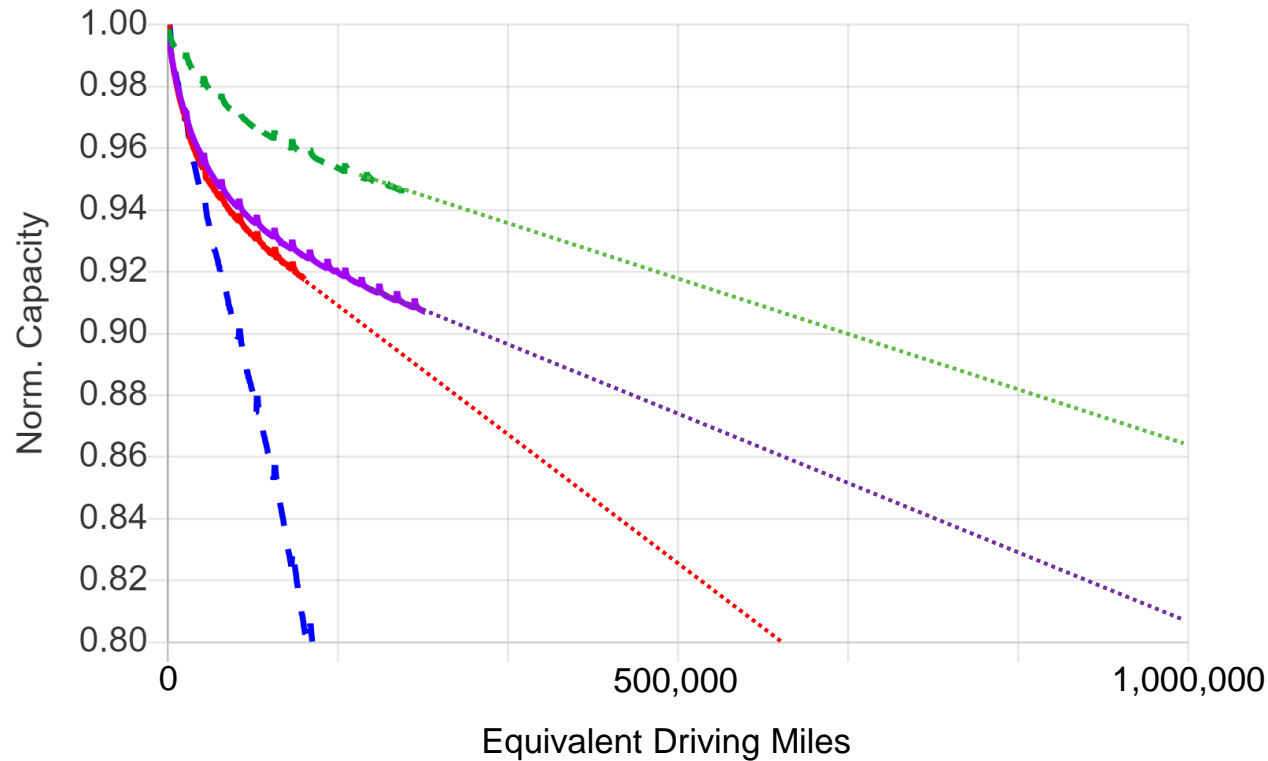
General Motors' million-mile battery is 'almost there'

Tesla Battery Day update flags launch of million mile battery in China first

MAY 15, 2020 · 8 COMMENTS · 4 MINUTE READ · BRIDIE SCHMIDT

NOVONIX's Complete Battery Cell Technology

Demonstrated and Projected Performance Predicted to Exceed 1 Million Miles



- SC NMC622 / PUREgraphite + Adv. Electrolyte
- SC NMC622 / Gr + Adv. Electrolyte
- SC NMC622 / Gr
- NMC622 / Gr (Commercially Available Reference Materials)

- 40°C full depth of discharge cycling
- Assumed 330 mile range
- Projection lines shown for guidance

WHAT'S NEXT?

NOVONIX's technologies support "million-mile+ battery" performance

Corporate Activities

APRIL – JUNE 2020

- **\$63 million equity raise and capital restructure in June to enable execution of the business strategy and plan to become a market leading producer of ultra long-life anode materials for lithium-ion batteries for Electric Vehicles (EV) and Energy Storage Systems (ESS)**
- **The transaction included:**
 - **Redemption of all convertible notes**
 - **Repayment of all unsecured short-term loans**
 - **Funding to expand the PUREgraphite anode business to 2,000 tpa capacity over 2020 and 2021, and**
 - **Funding for commercialization of our recently announced breakthrough technologies - Dry Particle Micro Granulation (DPMG) and Single Crystal Cathode (SCC)**
- **Updated the market on NOVONIX's technology roadmap and "What's Next"**

AGREEMENTS WITH BATTERY MAKERS



SANYO Electric Co., Ltd. a subsidiary of Panasonic Corporation of Japan

PUREgraphite Update

Mass Production Plant, Customer and Product Update

- **Mass production line operational after commissioning and optimization**
- **Samsung SDI Contract Update**
 - **First shipment being delivered to Samsung SDI in September; multiple scheduled over the next 6 months**
 - **Cell mass production at Samsung SDI with PUREgraphite material rescheduled to commence April 2021**
- **Sanyo MOU Update**
 - **Mass production samples to be evaluated now with production line operational**
- **Customer Development**
 - **Samples issued to other prospective customers under confidentiality agreements**
 - **New engagements with cell manufacturers, auto OEMs and ESS focused companies beginning with increased bandwidth of production at PUREgraphite**
- **Product and Technology Development**
 - **Scaling established relationships with supply chain partners**
 - **Continued product development with improved materials produced at pilot scale on test at Novonix BTS**

Why Customers Want NOVONIX Anode Material

Key Customer Decision Drivers for Synthetic Graphite Anode Material

We Deliver the Performance Required

- Improved coulombic efficiency and cycle life compared to industry leading materials (including a Tesla Model S cell)

We are Competitive on Cost

- Re-engineered product and process
- Globally competitive energy input

We Guarantee Safety

We are the Green Alternative

- Low emission energy sources
- No chemical purification

We Manufacture in the USA

- Supply diversification

Performance Measures	Why Important	NOVONIX PUREgraphite	Chinese Synthetic	Japanese Synthetic	Natural
Capacity (mAh/g)	Increases Battery Energy Density	350	340–350	350–355	350–360
1st Cycle Efficiency (%)	Increases Battery Energy Density	93	88	91	90
Cycle Life	Electric Vehicles and Energy Storage Systems require very long cycle life	V. High	Medium	High	Low
Cost	Need to lower \$/kWh of energy storage for EV and energy storage system markets	\$\$\$	\$\$	\$\$\$\$	\$\$
Safety / Purity / Quality	High safety and reliability are critical aspects for electric vehicle and energy storage system batteries	V. High	Medium	High	Low
Emissions and Chemicals	Batteries support sustainability, but the input materials must also be made in an environmentally friendly manner	V. Low	High	High	High

Phased Growth Plan For PUREgraphite

	Phase 1 (Initial Ramp-up)	Phase 2 (Medium Scale)	Phase 3 (Large Scale)
Timeline	<ul style="list-style-type: none"> • 2020 - 2021 	<ul style="list-style-type: none"> • 2022 – 2025 	<ul style="list-style-type: none"> • 2026 - 2030
Capacity	<ul style="list-style-type: none"> • Ramp to 2K tons/yr 	<ul style="list-style-type: none"> • Ramp to 25K tons/yr 	<ul style="list-style-type: none"> • Ramp to 100K tons/yr
Customers⁽¹⁾	<ul style="list-style-type: none"> • SAMSUNG SDI • +1 - 2 International • +1 - 2 U.S. Domestic 	<ul style="list-style-type: none"> • SANYO • 2 - 4 International • 2 - 4 U.S. Domestic 	<ul style="list-style-type: none"> • Large scale partnerships
Production footprint	<ul style="list-style-type: none"> • Chattanooga, TN USA 	<ul style="list-style-type: none"> • Chattanooga, TN USA • Europe 	<ul style="list-style-type: none"> • Continue to co-locate with battery manufacturers
Revenue⁽¹⁾	<ul style="list-style-type: none"> • Ramp to annualized rate of AUD\$20m+ pa 		
Capex⁽¹⁾	<ul style="list-style-type: none"> • AUD\$25m+ 		

(1) These are indicative targets for the business, are subject to significant risks and do not constitute a form of forecast or a form of guidance for the business.

Conclusion

NOVONIX...

- Is delivering the battery materials the EV and renewables future needs
- Is redefining the manufacturing processes to deliver lower costs, waste and emissions needed
- Has core competencies across all areas of cell technology development
- Has strong connections with leading companies in the battery, auto, renewables and electronics
- Has demonstrated technology advantages in anode, cathode and electrolyte (with more coming)
- Has first commercial technology in PUREgraphite anode material with a contract with Samsung SDI
- Is the only company to break into this market from North America or Europe
- Has cathode technology entering pilot scale and commercialization phase now

- **Cathode and anode market is going from ~US\$10B today to US\$50B – US\$100B in next 5 – 10 years**
- **NOVONIX plans to be a tier one global supplier in this rapidly growing advanced materials market**

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