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Who We Are

NOVONIX is a battery materials and technology development company. We develop and supply what we believe to be the most accurate battery testing technology in the world. We are a leading US-based supplier with plans to scale significant domestic volumes of battery-grade synthetic graphite anode material.



Most Accurate Battery Testing Technology



Leading Supplier with Plans to Scale Significant Domestic Volumes of Synthetic Graphite Anode Material



Developing New Applications and Partnerships







Our Leadership and Board of Directors

Leadership Team



Dr. Chris Burns Chief Executive Officer



Nick A. Liveris Chief Financial Officer



Rashda Buttar Chief Legal and Administrative Officer



Suzanne Yeates Financial Controller and Co Secretary



Danny Deas President | NAM



Darcy Macdougald President | BTS

Scientific & Technical Advisors



Dr. Jeff Dahn Chief Scientific Advisor



Dr. Mark Obrovac **Sponsored Researcher**

Board of Directors



Admiral Robert J. Natter Chairman & Non-Executive Director



Tony Bellas Deputy Chairman & Non-Executive Director



Andrew N. Liveris AO Non-Executive Director



Trevor St Baker AO Non-Executive Director



Zhanna Golodryga Non-Executive Director



Robert Cooper Non-Executive Director



Jean Oelwang Non-Executive Director

Key leadership and technical experience:



























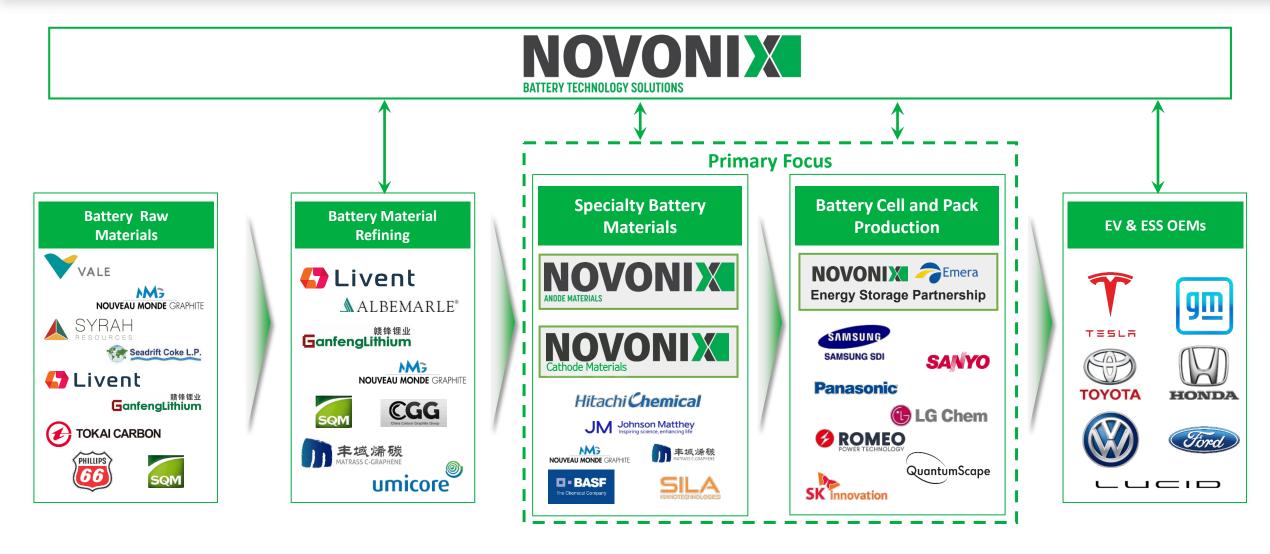








We Play a Critical Role in the Lithium-Ion Battery Value Chain



Note: Companies presented above are for indicative purposes only and not a representation of customer relationships.



NOVONIX Battery Development and Material Technology









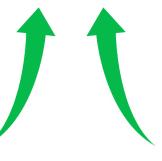


Conditional Sales Agreement

Supply Agreement

Non-binding MOU

Only supplier of US-made high-capacity long-life synthetic graphite anode material with plans to scale significant volumes



Developing New Applications and Partnerships







Energy storage partnership in North America¹

(Exclusive in battery technology)

Battery Technology Solutions serves as the pillar for innovation across the NOVONIX ecosystem, creating a positive feedback loop to drive technological advancement and deliver best-in-class products and services for customers

(1) We are currently collaborating with Emera to design a battery pack including innovative designs, custom manufacturing and control systems to support Emera Technologies' BlockEnergy microgrid.



NOVONIX Notable Milestones



19 Jan 2021: Leading researcher, Dr. Jeff Dahn appointed as Chief Scientific Advisor, effective July 2021



12 Feb 2021: NOVONIX entered a new five-year research sponsorship agreement with Mark Obrovac's Research Group of Dalhousie University



26 Feb 2021: Completion of ASX equity raise of A\$115m to support growth of NOVONIX Anode Materials with an additional ~A\$16m from directors



09 Aug 2021: Phillips 66 announced US\$150m strategic investment in NOVONIX, advancing NOVONIX's production of synthetic graphite for highperformance lithium-ion batteries



23 Nov 2021: Ceremonial opening of NOVONIX's new Riverside facility attended by US Secretary of Energy, Jennifer Granholm



31 Jan 2022: Executed supply and investment agreements for ~12,000 tonnes with US-based KORE Power to advance and strengthen the domestic lithium-ion battery supply chain

January 2021



21 Jan 2021: NOVONIX Anode Materials selected to receive US \$5.57mm grant from the US Department of Energy



19 Feb 2021: Emera and NOVONIX partner on innovative residential energy storage technology



Apr 2021: Completed installation of first Generation 2 furnace system built by Harper under our strategic partnership program and initiated build of first Gen 3 furnace



20 Oct 2021: Zhanna Golodryga joins the Board of Directors as Phillips 66 right to nominate a Director. Ms. Golodryga is the SVP, Chief Digital and Administrative Officer for Phillips 66



19 Jan 2022: Phillips 66 and NOVONIX sign Technology Development Agreement to advance the production and commercialization of anode materials for lithium-ion batteries



Today

01 Feb 2022: American Depositary Receipts commenced trading on the Nasdaq and celebrated the milestone by ringing the Closing Bell



Phillips 66 Announces Strategic Investment in NOVONIX

Phillips 66

- Phillips 66 is a diversified energy manufacturing and logistics company.
- Phillips 66, with a portfolio of Midstream, Chemicals, Refining, and Marketing and Specialties businesses, the company processes, transports, stores and markets fuels and products globally
- Phillips 66 is a global producer of petroleum needle coke, the key precursor material for synthetic graphite
- Headquartered in Houston, the company has 14,000 employees committed to safety and operating excellence
- Phillips 66 had \$57 billion of assets as of June 30, 2021
- Phillips 66 produces the precursor for synthetic graphite at advanced facilities located in Lake Charles, LA and Humber, UK

Announcement

Phillips 66 Announces Strategic Investment in NOVONIX

Investment will expand Phillips 66's presence in the battery supply chain and advance NOVONIX's production of synthetic graphite for high-performance lithium-ion batteries



August 09, 2021 10:00 AM Eastern Daylight Time

HOUSTON & BRISBANE, Australia--(BUSINESS WIRE)--Phillips 66 (NYSE: PSX) today announced it has entered into an agreement to acquire a 16% stake in NOVONIX Limited (ASX: NVX, OTC: NVNXF), a Brisbane, Australia-based company that develops and supplies in-demand materials for lithium-ion batteries.

"This strategic investment enables Phillips 66 to directly support the development of the U.S. battery supply chain," said Greg Garland, Chairman and CEO of Phillips 66. "It advances our commitment to pursue lower-carbon solutions while leveraging our leadership position and expertise in the specialty coke market and supporting NOVONIX's emerging position in U.S.-based anode production."

Phillips 66 is a leading global manufacturer of specialty coke, a key precursor in the production of batteries that power electric vehicles, personal electronics, medical devices and energy storage units. NOVONIX, a leading producer of synthetic graphite, processes specialty coke to make high-performance anode material for these batteries. The investment supports the development of a fully domestic supply chain for sales into the U.S. electric vehicle and energy storage system markets.

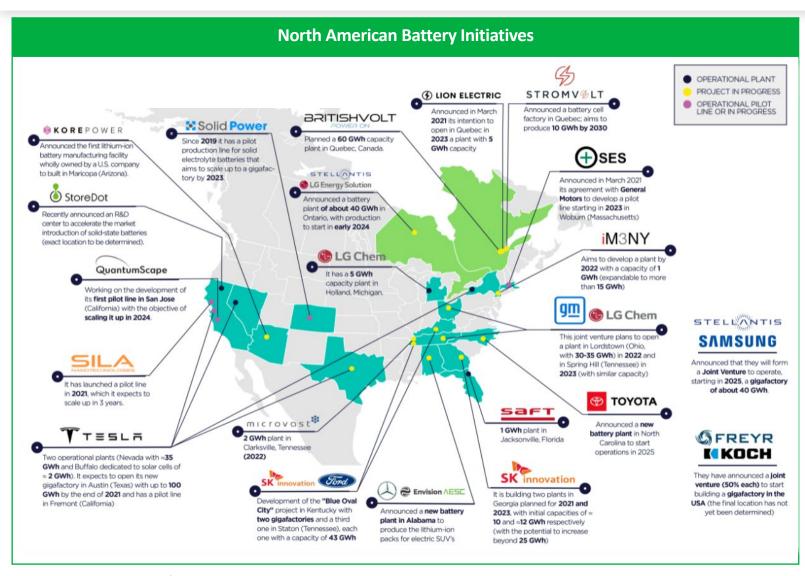
"We're excited by Phillips 66's vision for a sustainable future and confidence in our business plan and management team," said NOVONIX CEO and co-founder Chris Burns, Ph.D. "Phillips 66's investment will provide us with the capital needed to support growth and ongoing R&D as we continue to scale our synthetic graphite production and develop new technologies for higher-performance energy storage applications. We look forward to continuing to build our relationship with Phillips 66 as both a strategic partner and investor."

Deal Highlights

- Phillips 66 subscribed for 77,962,578 ordinary shares of NOVONIX for a total purchase price of US\$150 million
- Phillips 66 will nominate one director to NOVONIX's Board of Directors
- This investment is driven by Phillips 66's
 Emerging Energy organization, which is
 tasked with building a lower-carbon
 business platform and shares a similar
 long-term vision and focus on sustainability
 as NOVONIX
- The investment by Phillips 66 will help support capacity towards 40,000 mt/year, which is expected to be completed by 2025
- The transaction closed September 30, 2021
- No financial advisors, brokers or other intermediaries were used by NOVONIX in this strategic investment



Battery Manufacturers and Auto OEMs Have Announced New Gigafactories to Support North American EV and ESS Growth



Key Observations

- Over 500 GWh planned by the major OEMs alone in North America
 - Current capacity ~50 GWh
- Over 1,500 GWh planned in North America and Europe
- Announcements for new plants with clusters in the Midwest, Southeast and Ontario
- Graphic doesn't include potential CATL \$5 billion 80
 GWh plant in North America

Source: CIC energiGune - March 2022



NOVONIX Enables the Only Fully Domestic US Supply Chain of EV Battery Anode Material (BAM)



Chinese Synthetic Graphite Supply Chain

NOVONIX Supply Chain



- Charles, LA to Chattanooga, TN (670 miles)
- 1. Needle coke transported from Lake 2. All processing of precursor to BAM in Chattanooga under strict environmental standards
- 3. Delivery of BAM to end-user in Chattanooga, TN (34 miles) VW, for illustrative purposes

704 Total Miles

NOVONIX facilitates a cleaner, more secure, supply chain of high-quality synthetic anode material to the North American market vs. Chinese competitors



1. Needle coke ships to Qingdao from

2. Road transport of precursor to grinding

3. Road transport of ground needle coke to

by brown coal with no environmental

5. Road transport of graphite to southern

standards or emissions controls

6. Processing of graphite into BAM

8. BAM ships to US port in CA

7. Land transport of BAM to China port

9. Land transport of BAM to end-user in TN

24,650 Total Miles

China (1,500 miles)

(50 miles)

(7,300 miles)

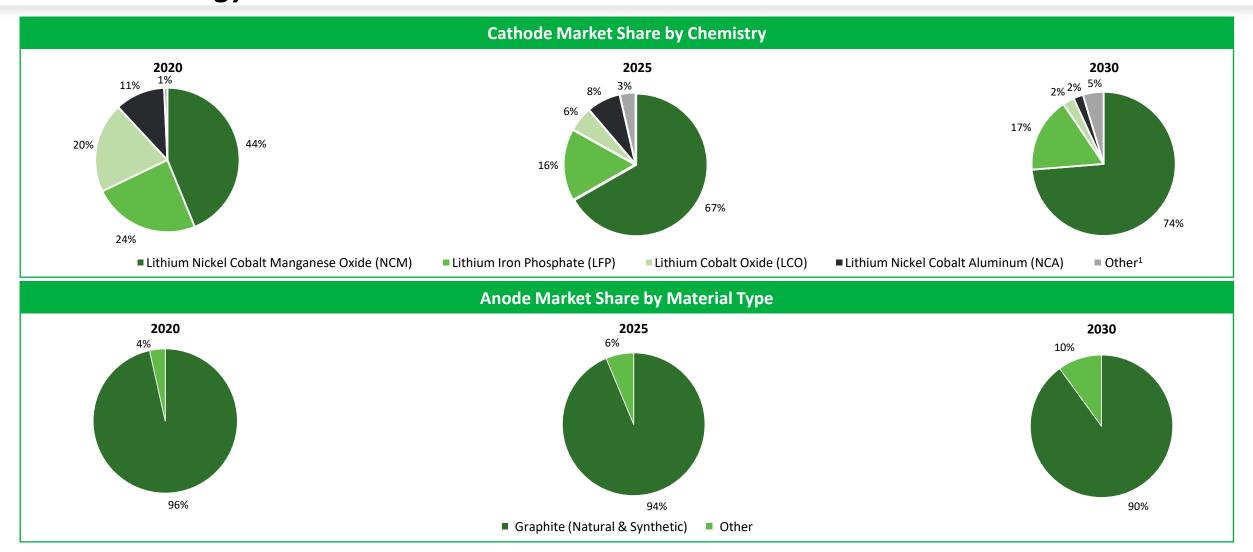
(1,800 miles)

Humber, UK (12,500 miles)

site near Shanghai (450 miles)

Inner Mongolia (1,050 miles)

NCM is Expected to be the Leading Cathode Chemistry with Graphite Remaining the Dominate Anode Technology



Source: Benchmark Mineral Intelligence Q1 2021 Report

(1) Other Includes lithium manganese nickel oxide (LMNO) and lithium-ion manganese oxide (LMO) batteries



Global and Local Battery Growth is Driving Demand for Domestic Graphite Production

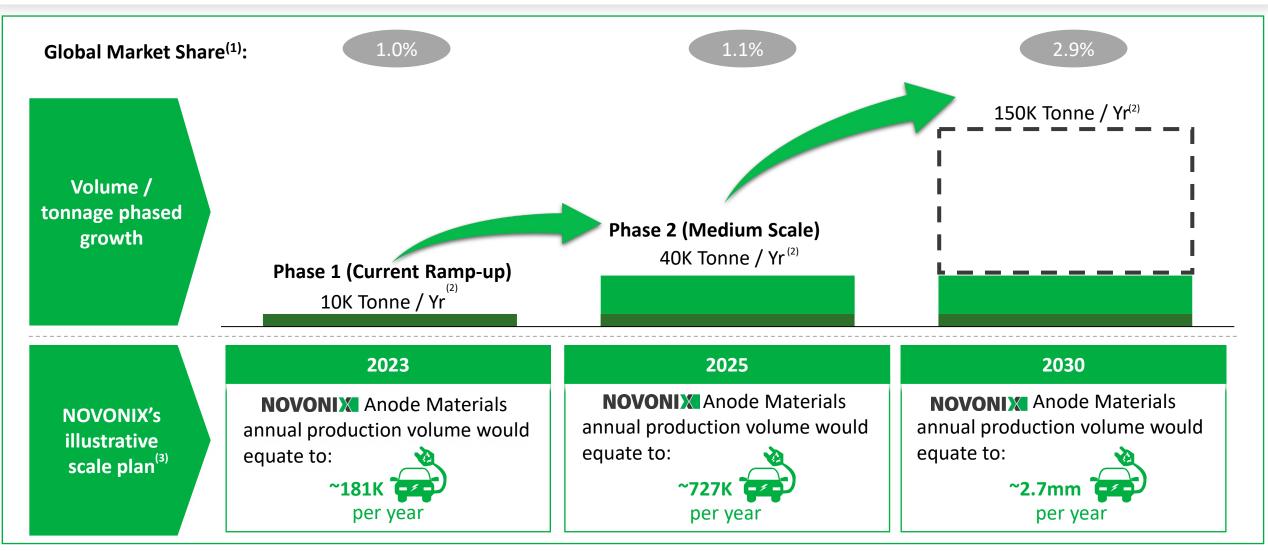


⁽¹⁾ Source: Benchmark Mineral Intelligence Gigafactory Assessment – March 2022. Based on announced capacity.

⁽²⁾ Assumes 1 tonne of graphite required per GWh. Assumes graphite's market share of anode demand is 96% in 2021, 94% in 2026, and 90% in 2031.



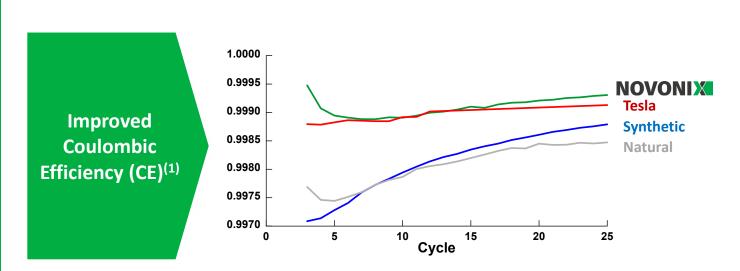
Phased Growth Plan for NOVONIX Anode Materials



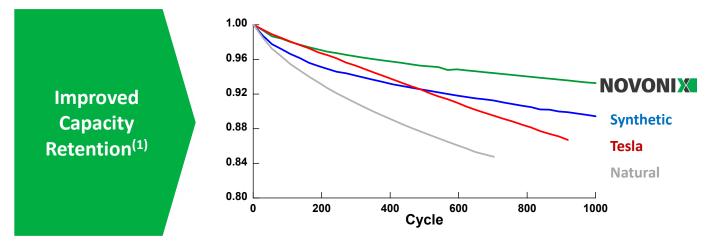
- (1) Market share based off implied global graphite demand in 2021, 2026, and 2031. Source: Benchmark Mineral Intelligence Gigafactory Assessment March 2022. Based on announced capacity.
- (2) Company expectations, which may or may not materialize.
- (3) Assumes 55kg of graphite per EV.



NOVONIX Anode Material Outperforms In Head-to-Head Testing



- NOVONIX offers improved Coulombic Efficiency (CE) compared to industry leading materials (including a Tesla Model S cell used as a reference benchmark)
- CE measures the electrochemical stability of the materials in the battery
- The higher the CE, the longer the battery life



- NOVONIX offers improved capacity retention compared to industry leading materials (including a Tesla Model S cell used as a reference benchmark) as expected from higher coulombic efficiency
- Better capacity retention means less range loss over time for an electric vehicle

1. Data based on internal measurements taken as part of verificiation process.



V2G is Expected to Further Drive Demand for High Battery Cycle Life

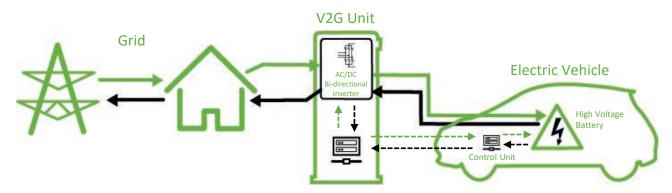
Vehicle to Grid Provides Two Key Advantages



Enables fleets and individuals to reduce cost of ownership by charging at non-peak times and discharging to buildings or selling to grid at peak times



Ability to provide power to buildings or national grids during peak hours provides stability to grids



Several Key EV OEMS Have Announced V2G Plans



- All VW MEB-based electric cars will be V2G capable beginning in 2022, includes cars from Audi, Skoda, and Seat-Cupra
- Currently testing DC-Wallbox with bi-directional DC charging stations in Germany



- Integrating vehicle-to-grid technology in electrical architecture of Model 3
- Tesla's system could power up to 22kW at any one moment more than enough to power the dryer, heater or A/C.



- Currently conducting V2G project "i-rEzEPT", utilizing Nissan LEAF and temporary storage systems to power homes
- Produces the Nissan Leaf, the only mass production EV on the market with bi-directional capability



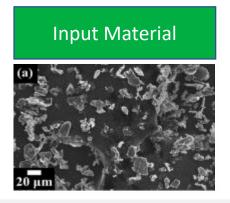
- 2022 F-150 Lightning will be one of the first EV's to take advantage of bi-directional charging in the U.S. market
- The Lightning will offer a solar option that will provide more energy independence and grid contribution

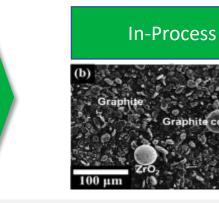


DPMG: New Manufacturing Method for Anode and Cathode

With multiple patent applications filed, NOVONIX's Dry Particle Microgranulation (DPMG) technology delivers higher yields at lower costs

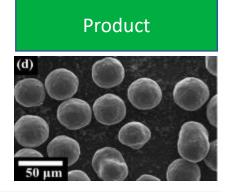
Graphite Materials





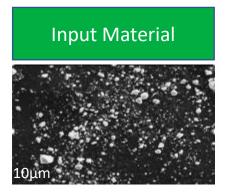


Or

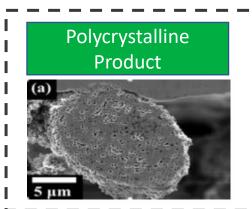


100% Yield (recovery of waste fines to high value product) | Relatively lower cost | Flexible precursor inputs

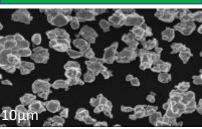
Cathode Materials







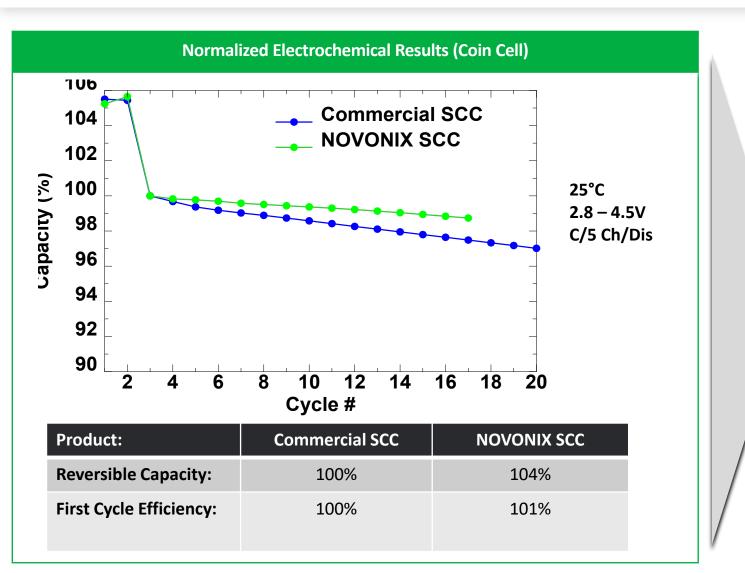
Single Crystal Product



100% Yield (recovery of waste fines to high value product) | No water waste | Relatively lower cost | High Nickel cathode materials



Early Cathode Synthesis Technology Results Demonstrate Results Better or Comparable with Long Life Commercial Single Crystal Cathode (SCC)



Key Observations

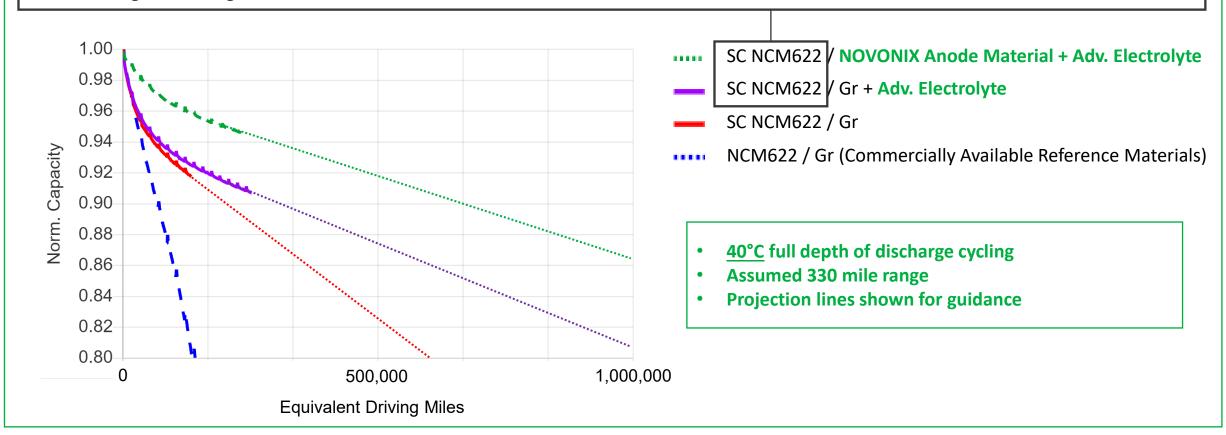
- Normalized electrochemical results in coin cell tests show NOVONIX outperforming in reversible capacity, first cycle efficiency, and cycling performance
- NOVONIX continues to optimize material through processing as well as through the use of coatings and dopants to further improve performance
- Polycrystalline cathode comparative performance test work also ongoing, with polycrystalline cathodes having some advantages over SCC



NOVONIX's Complete Battery Cell Technology is Leading the way for Next Generation EV Batteries

Demonstrated and Projected Performance Predicted to Exceed 1 Million Miles⁽¹⁾

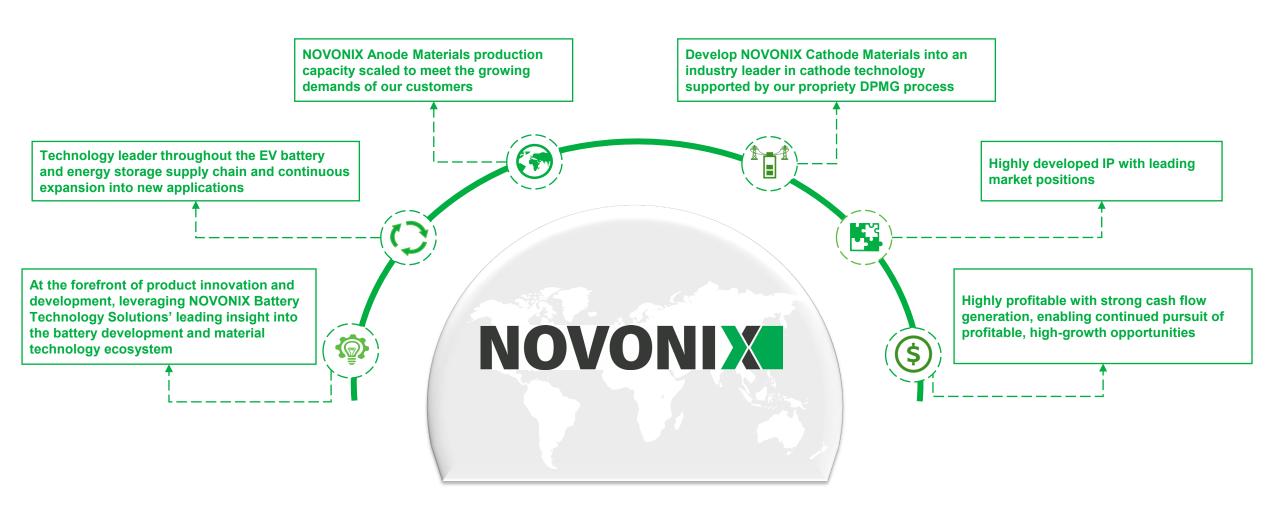
- SC NCM622 shown here is the same Commercial SCC reference material shown in previous slide
- Next step to build full cells for performance testing to include in this data set and demonstrate NOVONIX anode, cathode and electrolyte technologies in a single cell



1. Data based on internal measurements taken as part of verificiation process.



Our Goals for the Future of NOVONIX





Contact Information

NOVONIX Anode Materials

1029 West 19th Street, Chattanooga, TN, 37408, USA



353 Corporate Place, Chattanooga, TN, 37419, USA



NOVONIX Battery Technology Solutions

177 Bluewater Road, Bedford, NS B4B 1H1, Canada



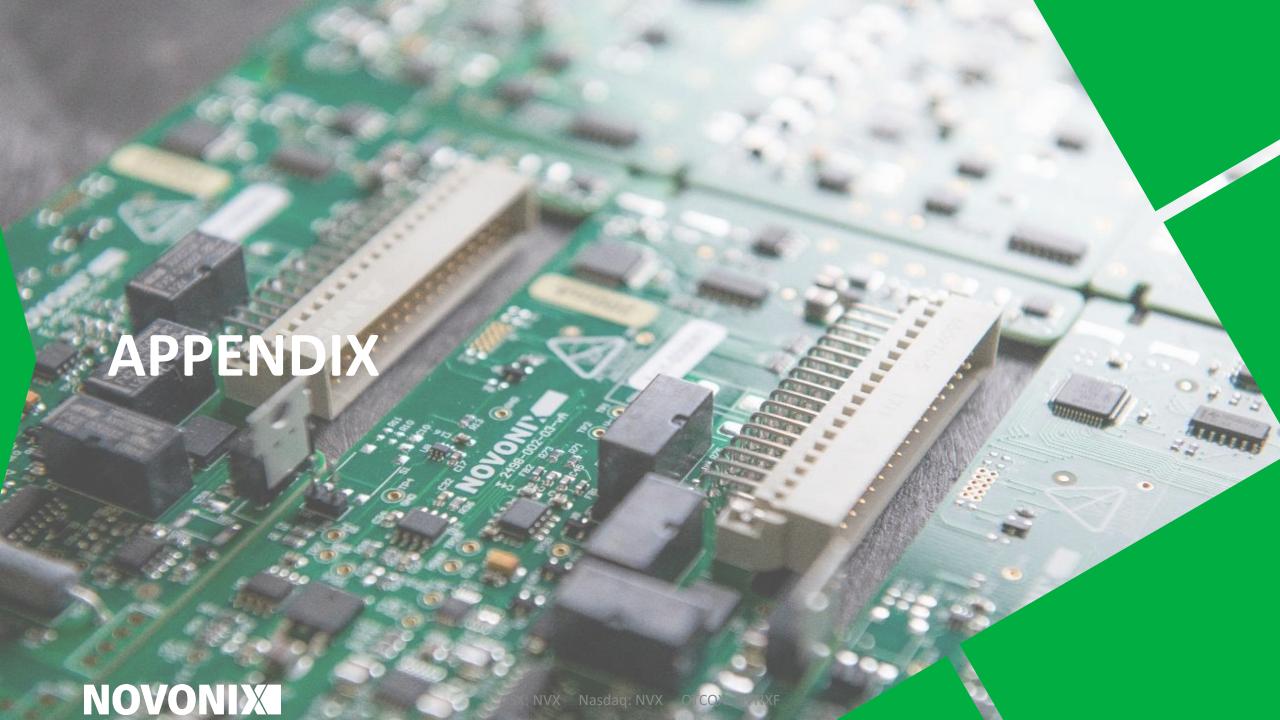
110 Simmonds Drive, Dartmouth, NS B3B 1N9, Canada



Send all investor queries to: IR@novonixgroup.com

This announcement has been authorised for release to the ASX by the Chairman, Admiral Robert J Natter





DOE Awarded NOVONIX US \$5.57M for New Furnace Technology Development

DOE Project Team Goals



World Leader in Petroleum Coke Production

- Houston, TX
- Multiple US and Global Production Sites



World-wide Leader in High Temperature Furnaces

- Buffalo, NY
- Expertise in High Temperature Furnace Technology
- Strategic Alliance Between NOVONIX and Harper





- Chattanooga, TN
- First Qualified US
 Supplier of Synthetic
 Graphite to Tier 1 Cell
 Manufacturer



- Developing valuable IP
- Highly scalable manufacturing process
- USA-made premium synthetic graphite for lithium-ion batteries

NOVONIX will contribute US\$5.92M over the project duration

First "Generation 3" furnace system was installed at NOVONIX in 2021



Why Customers Choose NOVONIX Anode Material

NOVONIX's Competitive Advantage



We deliver the performance required

Improved coulombic efficiency and cycle life compared to industry leading materials



We are globally competitive on cost

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



We guarantee safety

- Highest purity in the market
- No metal contaminants



We are the green alternative

- Low emission energy sources
- No chemical purification
- Lower energy consumption



We are the only qualified US-based manufacturer of anode material

- Geographic supply diversification
- · No geographic limitation

Key Customer Decision Drivers for Synthetic Graphite Anode Material					
Key Performance Measures	Why Important?	NOVONIX ANDDE MATERIALS	Mid grade	High grade	Natural
Capacity (mAh/g)	Increases Battery Energy Density	350-360	340–350	350–360	360-365
1st Cycle Efficiency (%)	Increases Battery Energy Density	94-96	91-93	93-94	90-91
Cycle Life	Electric Vehicles and Energy Storage Systems require very long cycle life	V. High	Medium	High	Low
Cost Structure	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 EV 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



NOVONIX is the leader in key performance measure shown



NOVONIX's Technology is a Green Choice







Inputs

Process

Outputs

- Clean sources¹
 - Carbon free resources represent 59% energy input
 - Renewables represent 16% energy input
- Circular use of oil-gas by-products and carbon offsetting

- Proprietary technology means fewer processing steps and less energy consumption
- No chemical purification

- Negligible emissions, less than alternatives
- Longer lasting batteries

1. FY2020 figures from Tennessee Valley Authority website.



Secretary of Energy, Jennifer M. Granholm Celebrates NOVONIX's New Riverside Facility





Key Observations

- Purchased on July 28th, 2021, this 400,000+ square-foot plant will allow for 10,000 tonnes per year of synthetic graphite anode material production by 2023
- On November 22nd, 2021, NOVONIX celebrated Riverside Recharged to inaugurate the new Riverside facility with keynote speaker Secretary of Energy Jennifer M. Granholm
- Other speakers included:
 - Director Andrew Liveris AO
 - Director Zhanna Golodryga
 - CEO Chris Burns
 - U.S. Rep. Chuck Fleishmann

- TN ECD Commissioner Bob Rolfe
- Hamilton County Mayor Jim Coppinger
- City of Chattanooga Mayor Tim Kelly
- Former U.S. Senator Bob Corker
- "The local support for this means not just something for Chattanooga, and it's
 not just for Tennessee, but it really is for the country. The fact that we're at a
 facility that once employed about 230 people and that now is going to employ
 300 people, making the future of our transportation energy system secure, is
 such a great day for America." Secretary of Energy Jennifer M. Granholm



Strategic Relationship with KORE Power





Kore Power to invest \$1B in Buckeye

www.westvalleyview.com

Highlights of Agreements

- KORE Power is a leading US based developer of battery cell technology for clean energy industries
- NOVONIX and KORE Power have worked together since 2019 through NOVONIX's BTS division to improve and validate KORE's battery technology
- KORE announced on 29 July 2021 the intention to build KOREPlex, a one million square foot manufacturing that will support up to 12 GWh of battery cell production in Buckeye, AZ
- KOREPlex scheduled to begin production in early 2024
- Through the signed Supply Agreement, NOVONIX will be the exclusive supplier of graphite anode material to KOREPlex which when in full production will be close to 12,000 tonnes per year of material
- NOVONIX invested \$25M USD to acquire a roughly 5% stake in KORE Power

