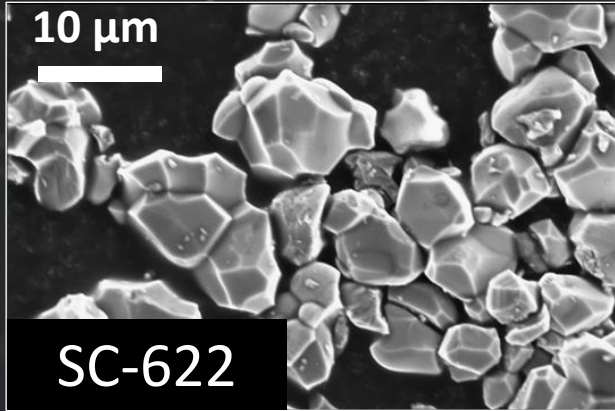
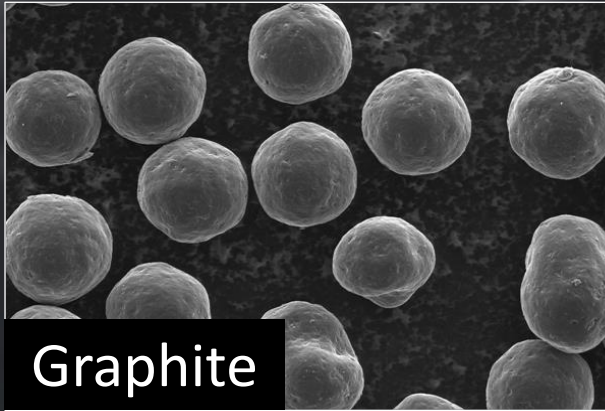


NOVONIX

NOVONIX LIMITED



Company Presentation



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Today's Presenters



Dr. Chris Burns
CEO

- Group CEO of NOVONIX after formerly serving as COO of NOVONIX Ltd, CEO of BTS and CEO of NOVONIX Anode Materials
- Co-developed the breakthrough Ultra-High-Precision-Coulometry (UHPC) technology with Dr. Jeff Dahn
- Co-founded NOVONIX Battery Technology Solutions in Canada in 2013
- Manages research partnership with Dalhousie University
- Former Senior Research Engineer with TESLA

Education



St. Francis Xavier University
BSc. Physics



Dalhousie University
MSc. Physics



Dalhousie University
Ph.D. Physics



ASX: NVX



Nick Liveris
CFO

- Previously served as operational CFO for NOVONIX Anode Materials and NOVONIX BTS and VP Business Development for the NOVONIX group
- Over 10 years of experience in Investment Banking and Management Consulting
- Previously a Senior Engagement Manager at McKinsey leading transformation programs for automotive and manufacturing companies
- Previously an Analyst at Merrill Lynch focused on the transportation sector

Education

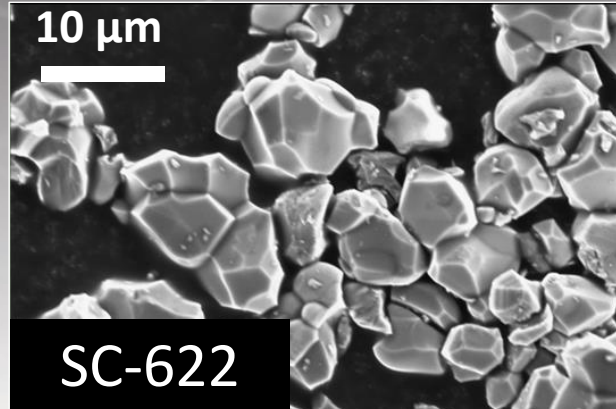
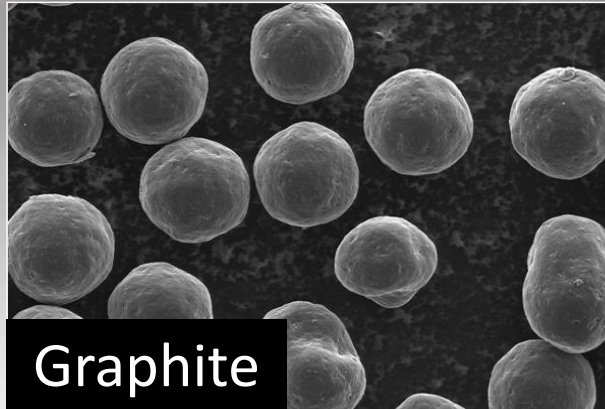


University of Michigan
B.A. Economics



University of Pennsylvania
MBA

OTCQX: NVNFX



NOVONIX Overview

Who We Are

NOVONIX is a leader in battery development and material technology. We develop and supply what we believe to be the most accurate battery testing technology in the world. We are the only qualified US-based supplier of battery-grade synthetic graphite anode material.

NOVONIX

Better Performance, Longer Life, Lower Cost

*Most Accurate Battery Testing
Technology*

NOVONIX

Battery Technology Solutions

*Only Qualified US-Based
Supplier of Synthetic Graphite
Anode Material*

NOVONIX

Anode Materials

*Developing New Applications
and Partnerships*

NOVONIX

Cathode Materials

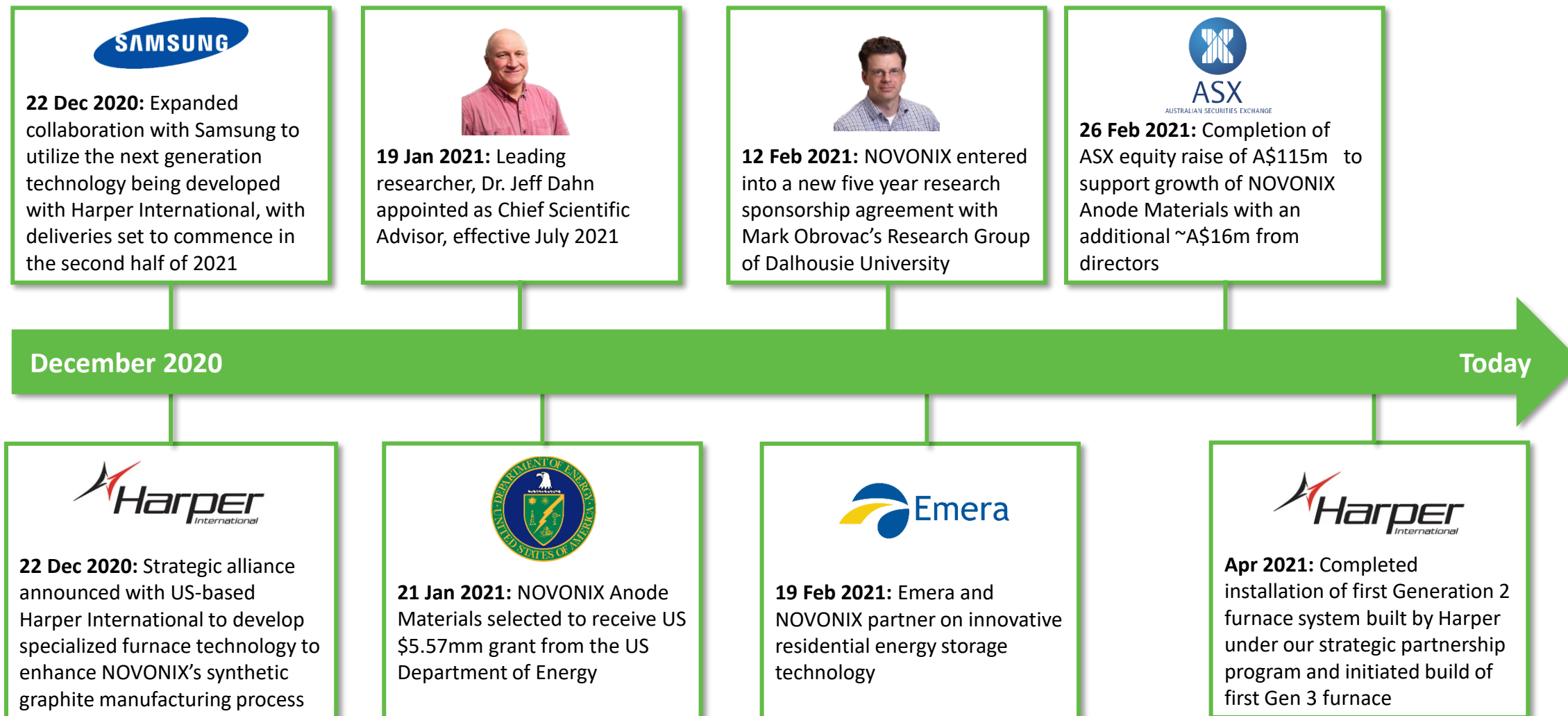


NOVONIX

ASX: NVX

OTCQX: NVNXF

Recent NOVONIX Events



Our Leadership and Board of Directors

Leadership Team



Dr Chris Burns
Group CEO



Nick Liveris
Group CFO



Rashda Buttar
SVP & General Counsel



Suzanne Yeates
Financial Controller & Co Secretary

Technical Advisors



Dr. Jeff Dahn
Chief Scientific Advisor⁽¹⁾



Dr. Mark Obrovac
Sponsored Researcher

Board of Directors



Tony Bellas
Chairman & Non-Executive Director



Greg Baynton
Non-Executive Director



Robert Cooper
Non-Executive Director



Andrew N. Liveris AO
Non-Executive Director



Trevor St Baker AO
Non-Executive Director



Admiral Robert J. Natter
Executive Director

Key leadership and technical experience:



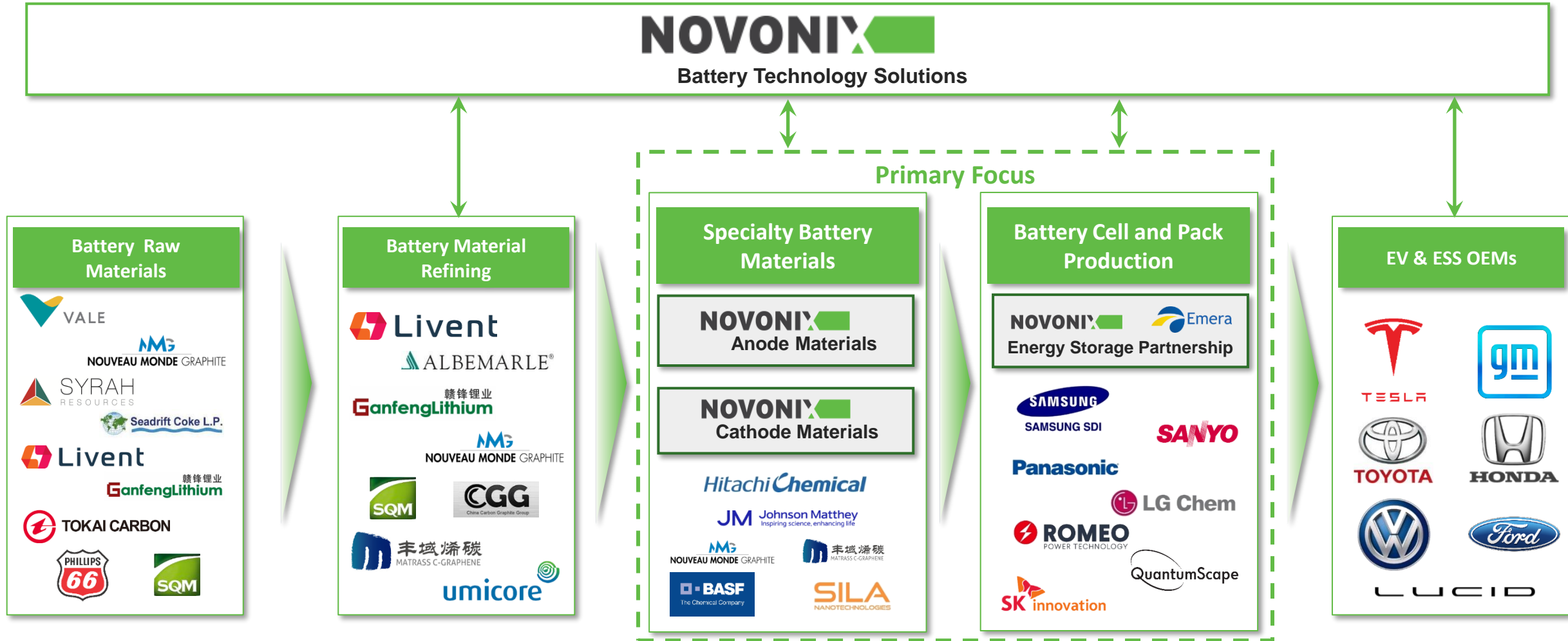
1. Appointment effective July 1, 2021

NOVONIX

ASX: NVX

OTCQX: NVNXF

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



Our Technology is Utilized by a Global Tier 1 Customer Base

Customers Represented Globally Across Key End-markets

End Market

Key Customers⁽¹⁾

Auto and ESS OEMs



EV Battery manufacturers

SAMSUNG SDI

Panasonic



XALT Energy

KOREPOWER



SANYO



24m

Consumer Electronics & Medical Devices



Panasonic

dyson



Research institutions



1. Several major auto OEMs, materials companies and consumer electric customers not disclosed for confidentiality reasons.

NOVONIX Investment Highlights

NOVONIX  *Better Performance, Longer Life, Lower Cost*



We develop and supply what we believe is the most accurate battery testing technology in the world



Our proprietary process technology and capabilities across the value chain drive innovation and commercial opportunities



We are the only qualified US-based supplier of battery-grade synthetic graphite anode material and are fully-funded for our Phase 1 expansion



Our offerings are directly compatible with today's installed and planned battery manufacturing technology



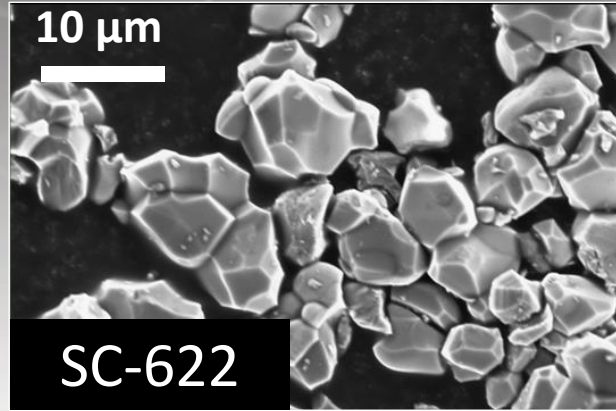
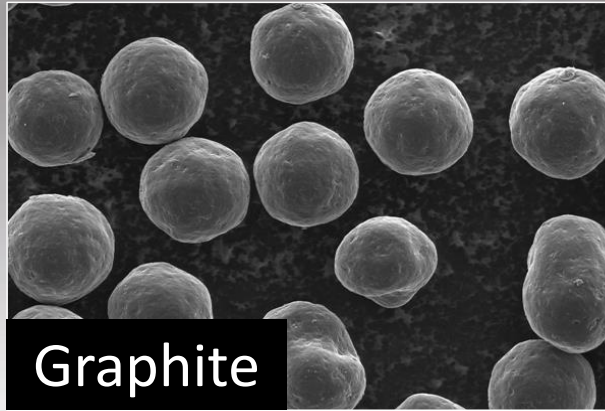
Demand for our technologies is underpinned by strong growth in EV sales and energy storage demand over the next decade and beyond



We have a global tier 1 customer base across multiple end markets



Our leadership team is highly credentialed, continuing to successfully execute our growth agenda

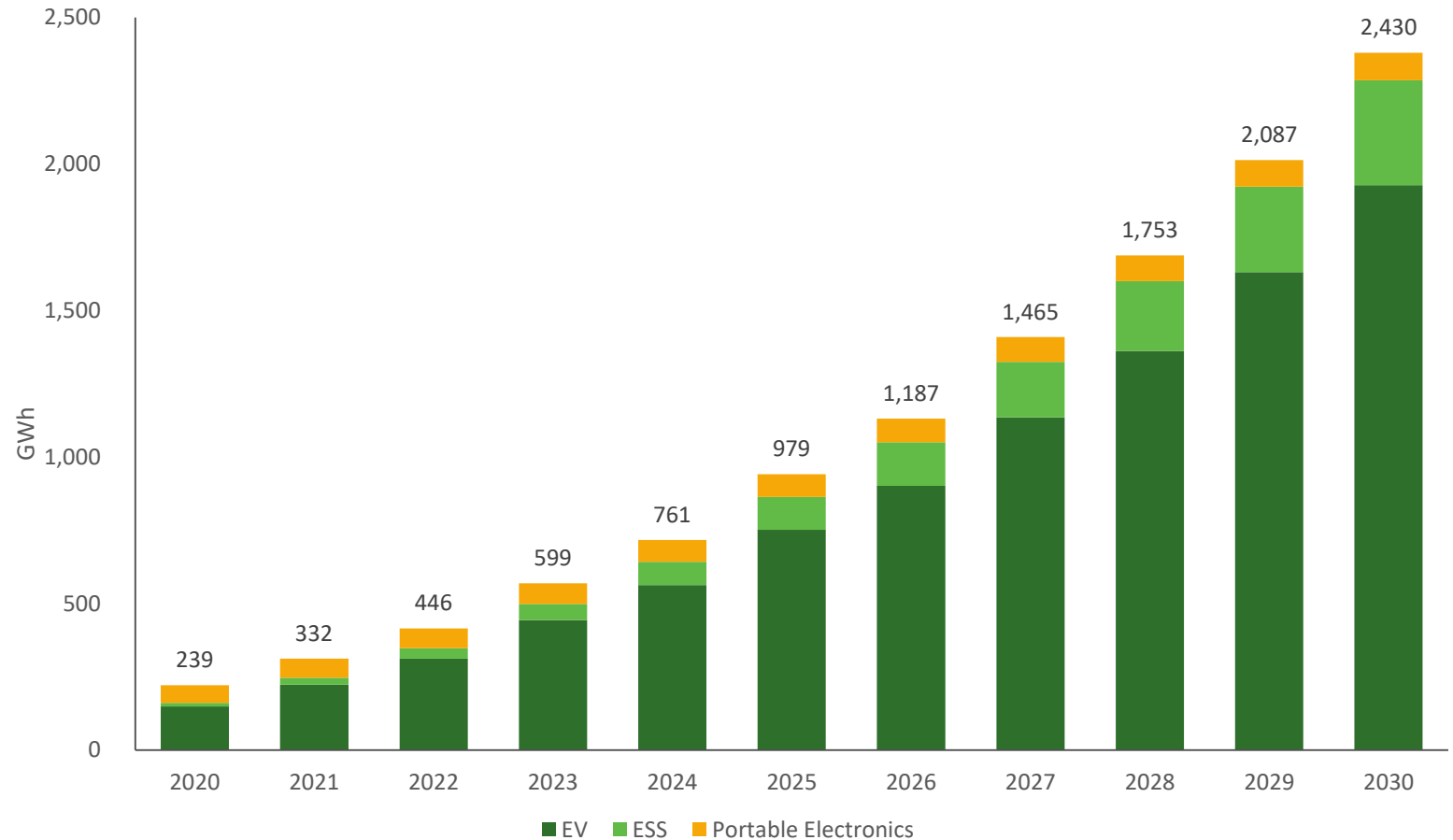


Industry Overview and Electrification Trends

Overall Battery Cell Demand is Poised for Strong Growth

- Efforts to decarbonize the global economy have accelerated in recent years, supported by government regulations, technological innovation, corporate actions and environmentally conscious consumers
- An increasing number of national and local governments have enacted emissions targets and instituted incentives for companies and consumers
- Announcements and investments geared at decarbonizing the global economy as well as advancements of lithium-ion batteries are expected to drive continued EV and ESS demand growth

Estimated Battery Cell Demand by End Market



Source: Benchmark Mineral Intelligence Q1 2021 Report.



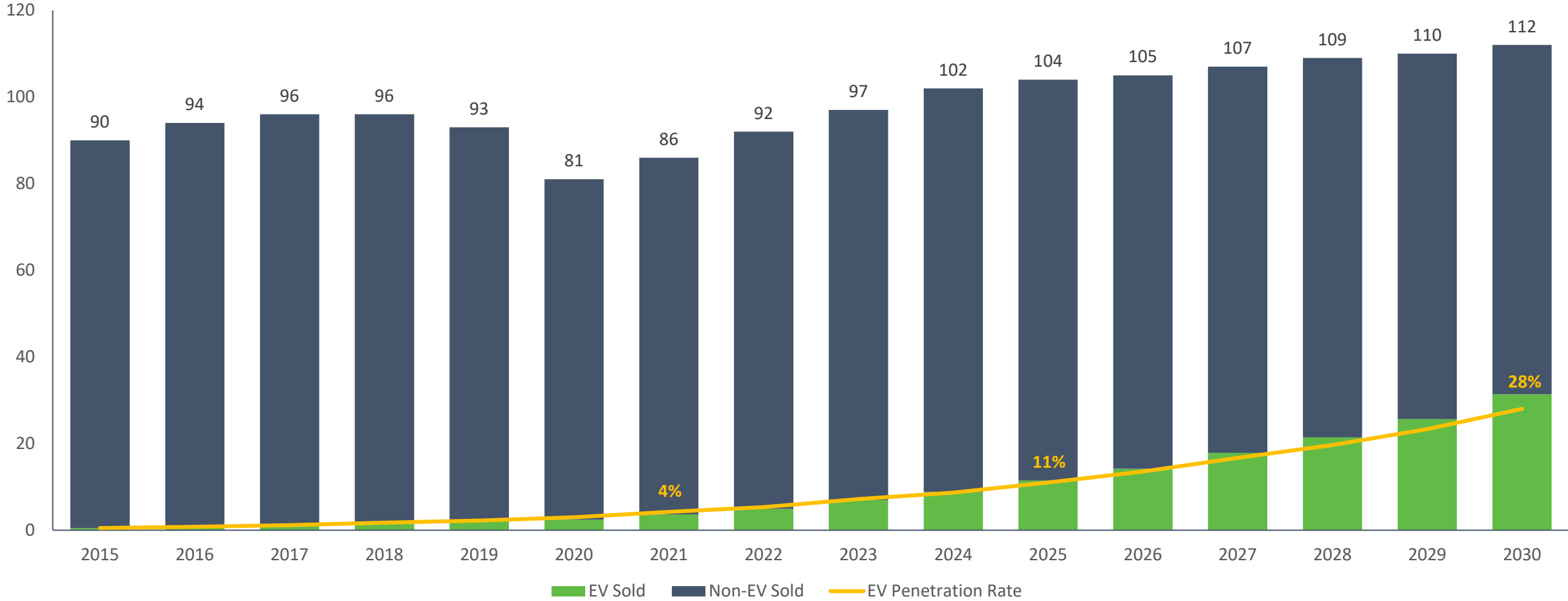
ASX: NVX

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The Global Transition to EVs is Well Underway...

Estimated Global Vehicle Sales

(in millions)



Source: Benchmark Mineral Intelligence Q1 2021 Report.

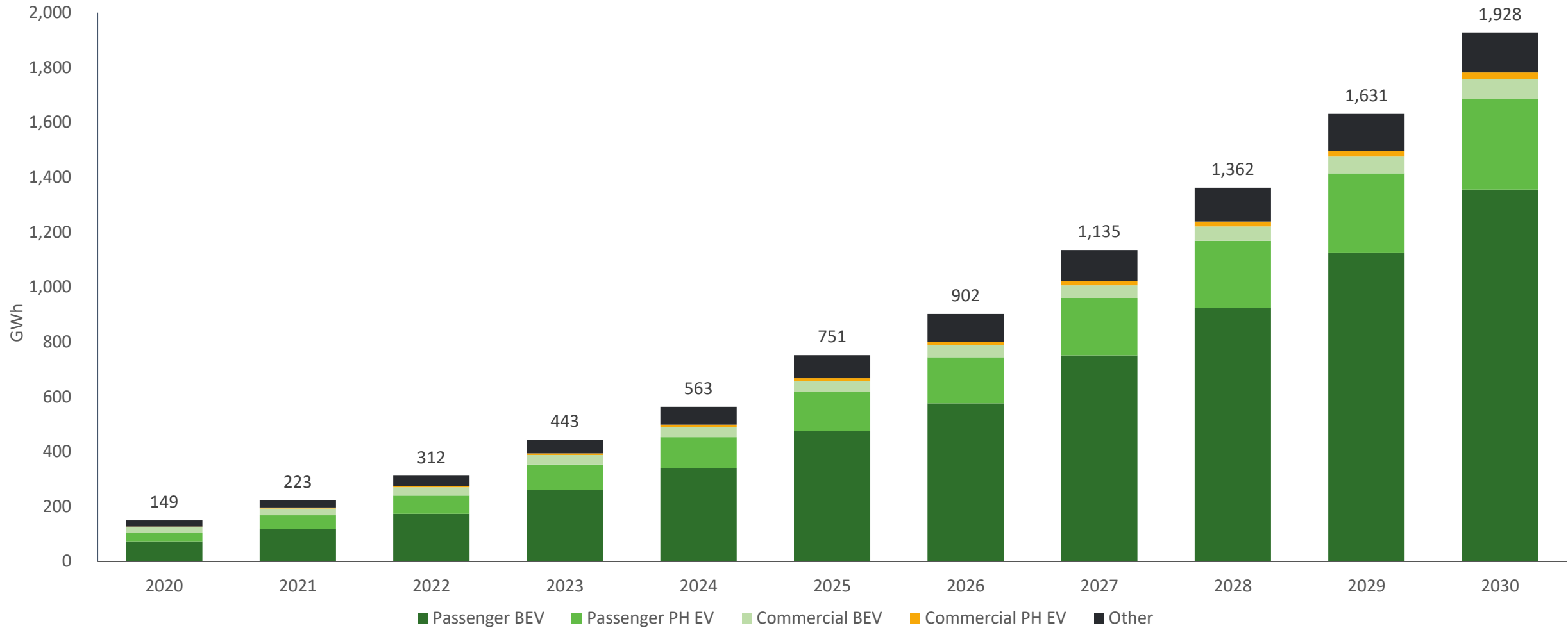


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...With Passenger BEVs Being the Most Significant Driver of EV Demand

EV Estimated Demand by Sub Segment



Source: Benchmark Mineral Intelligence Q1 2021 Report.



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Several Factors are Driving EV Growth and Adoption



Government Regulation

An increasing number of national and local governments have enacted emissions targets and instituted incentives for companies and consumers



Improved Range And Infrastructure

Battery technology continues to improve the range of EVs, while new EV infrastructure (e.g. charging stations) is being built out, making EVs more practical



Reduction In Costs

Technological advancements have continued to make EVs more affordable








Range of Offerings



New and incumbent OEMs are releasing a wide range of passenger and commercial EVs

Select National and Local Government EV and Emissions Targets

Europe

-  Targeting ending ICE sales in 2030 and double EV subsidies in post-COVID stimulus efforts
-  Proposal to end ICE by 2040, launch €8bn auto stimulus package, targeting electrification
-  Proposal to end ICE sales by 2040
-  Proposal to end ICE sales by 2035
-  Proposal to end ICE sales by 2035

Other

-  Proposal to end ICE sales by 2030
-  Proposal to end ICE sales by 2030

Asia

-  Target 20% penetration of EV sales by 2025
-  Target 30% penetration of EV sales by 2030
-  Target 30% penetration of EV sales by 2030

North America

-  Target 30% penetration of EV sales by 2030
-  Target 30% penetration of EV sales by 2030
-  Target 30% penetration of EV sales by 2040, Quebec targeting 100% zero emissions by 2050
-  Currently, 24 states and D.C. have established economy-wide greenhouse gas emissions targets

Source: Benchmark Mineral Intelligence Q1 2021 Report and Center for Climate and Energy Solutions data as of 4.14.2021.

US Regulatory Tailwinds

Tariffs on Synthetic Graphite

In May 2019, the US announced an increase on Chinese graphite import tariffs as well as other materials from 10% to 25%. China responded by introducing 10% import tariff on flake graphite and synthetic graphite.

Trump executive order targets rare earths minerals and China

Graphite: China-US trade war reaches graphite industry

American Mineral Security Act

Congress proposed new legislation in July 2020 that would identify critical minerals, ensure timely surveying of domestic deposits, cut down on unnecessary permitting delays to produce them, and invest in R&D of alternatives. Synthetic graphite was specifically identified as a critical mineral.

Murkowski's Mineral Bill Included in Recovery Legislation
American Mineral Security Act Will Help Rebuild Domestic Supply Chains

Miners praise U.S. spending bill that funds rare earths programs

Biden Infrastructure Plan

President Biden's currently proposed \$1.7bn infrastructure plan includes significant support for the EV industry with funding to provide further support and investment in the domestic supply chain for raw materials, parts, and factory retooling as well as to support American workers to make batteries and EVs. It also contains funds to support the target of achieving 500k charging stations nationwide by 2030.

Batteries Spark Biden's Infrastructure & Jobs Promise

President Biden hopes to build 500,000 new electric car chargers by 2030

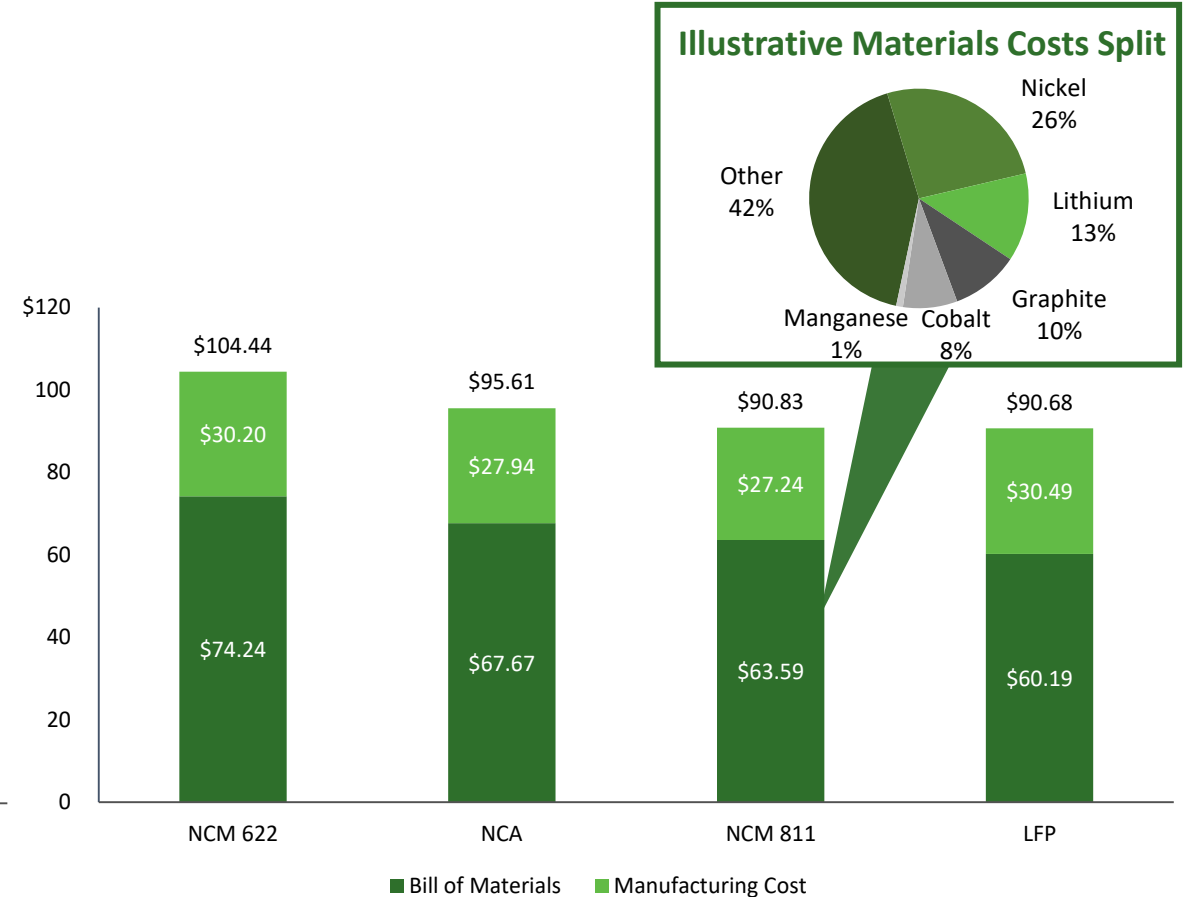
Source: Roskill, US Government, and Government Technology.

Battery Costs Make Up a Significant Portion of EV Production Costs

Lithium-ion Battery Cell Price Forecast (\$ / kWh) ¹



Battery Cost Comparison (\$/ kWh)



Declining costs are expected to help drive adoption of electric vehicles

Source: Benchmark Mineral Intelligence (4/23/21)
 (1) Assuming flat future raw material prices, excludes module and pack costs, figures account for top 80% of producers by scale only

The Growing EV Market will be Supported by Both Incumbent OEMs and New Players

Legacy Auto OEMs

	<ul style="list-style-type: none"> 50% of global sales to be passenger EV by 2030
	<ul style="list-style-type: none"> 33% of portfolio to be passenger EV by 2025
	<ul style="list-style-type: none"> 25 New Energy Vehicles (NEV) by 2025, including BEVs, PHEVs, & FCVs
	
DAIMLER	<ul style="list-style-type: none"> Will electrify entire Mercedes portfolio, taking the total passenger and commercial EV's to 50 by 2022
	<ul style="list-style-type: none"> 5 passenger EVs and plans to have a total of 11 commercial EVs
	<ul style="list-style-type: none"> Announced \$22bn EV investment through 2025, all electric passenger vehicles in Europe by 2030
	<ul style="list-style-type: none"> Committed to 30 new global EVs by 2025, all electric passenger vehicles by 2035
	<ul style="list-style-type: none"> Two-thirds of all sales to be EV sales by 2030
	<ul style="list-style-type: none"> Fully electric vehicle lineup by 2040
	<ul style="list-style-type: none"> Expects to be all electric passenger vehicles by 2025
	<ul style="list-style-type: none"> 6 passenger EV models by 2025
	<ul style="list-style-type: none"> 100% of all-new vehicle offering in key markets to be electric by 2030
	<ul style="list-style-type: none"> 100% of vehicles offered by 2025 will be electric
STELLANTIS	<ul style="list-style-type: none"> Every new model launched until 2025 will offer an "electrified variant"
	<ul style="list-style-type: none"> Continuing to expand lineup with Model Y and commercial semi truck
	<ul style="list-style-type: none"> Goal is to have 40% of new vehicles sales to be EV by 2025, and 70% by 2030
	<ul style="list-style-type: none"> Investing €35bn into EV, expecting 70 all-electric passenger and commercial models by 2030
VOLVO	<ul style="list-style-type: none"> Plans to sell only EVs by 2030

New Auto OEMs

	<ul style="list-style-type: none"> Expected start of production in Q2 2022, 150k vehicles by 2026
	<ul style="list-style-type: none"> Expected start of production in Q4 2021, 107k vehicles by 2024
	<ul style="list-style-type: none"> Expects to delivery ~20k vehicles in Q1 2021
	<ul style="list-style-type: none"> Expects production of full-size premium EV SUVs in 2022
	<ul style="list-style-type: none"> Announces plans for the start of production for Percept in Q4 2020
	<ul style="list-style-type: none"> Completed first 5 BEV prototypes, delivery of first BEV expected in Q4 2021
	<ul style="list-style-type: none"> Anticipates production to start in Q4 2021, 4 vehicle designs in market by 2023
	<ul style="list-style-type: none"> Expects run rate production of >500k by 2030 and 251k deliveries in 2026
	<ul style="list-style-type: none"> Anticipate start of production Q4 2022, expects 225K vehicles in 2025

Source: Company filings, investor presentations, company websites, CNBC, Forbes, AutoNews, NY Times. Statements are extracts of statements relating to the expectations of or regarding other companies.

V2G Expected to Drive Demand for High Battery Cycle Life

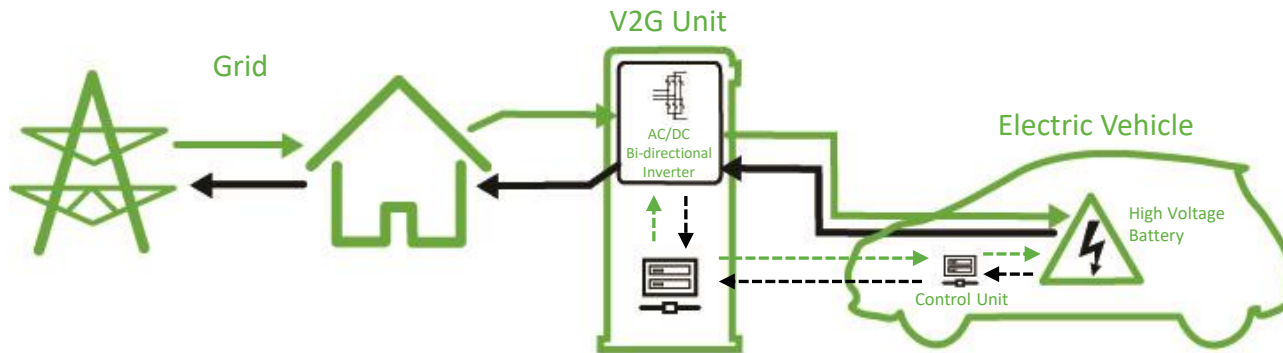
Vehicle to Grid Provides Two Key Advantages



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, dishwasher, heater or A/C.

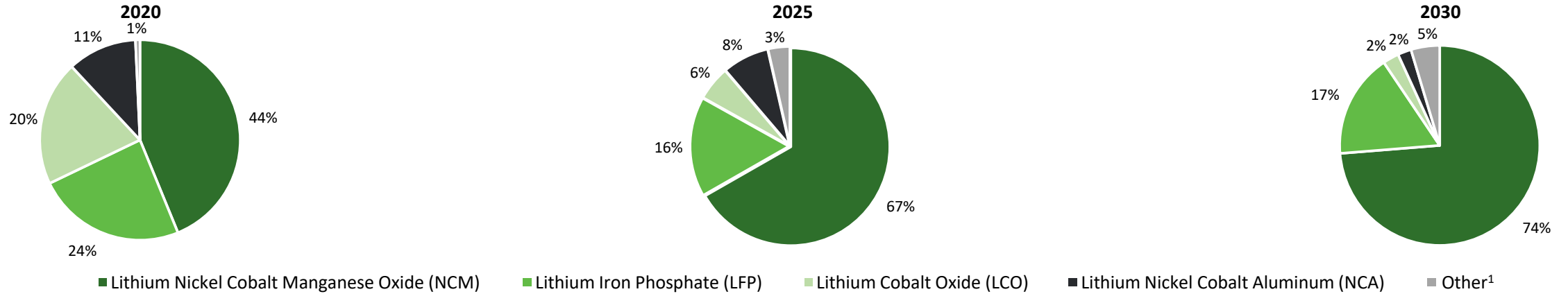


- Currently conducting V2G project "i-rEzEPT", utilizing Nissan LEAF and temporary storage systems to power homes
- Produces the Nissan Leaf, the only mass production EV on the market with bi-directional capability

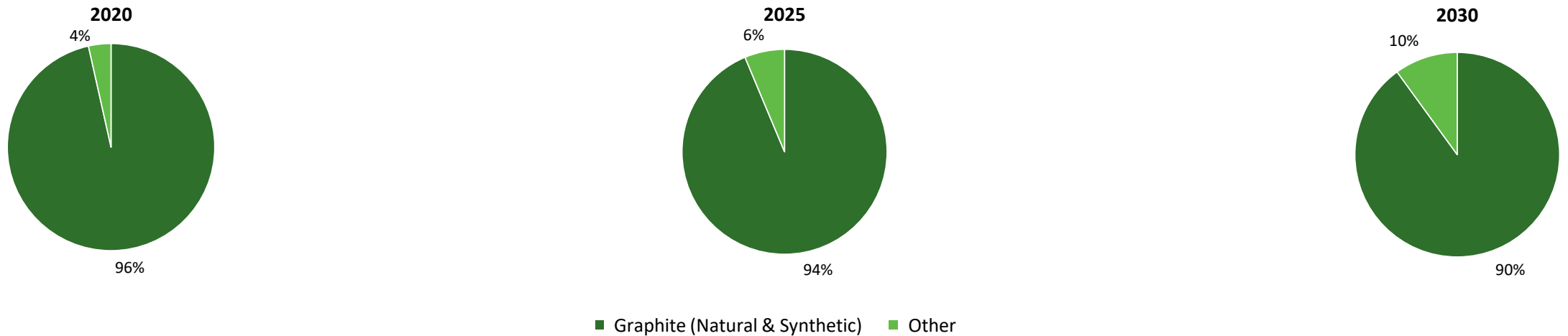
Source: CleanTechnica, The Driven, and Bloomberg.

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

Cathode Market Share by Chemistry



Anode Market Share by Material Type

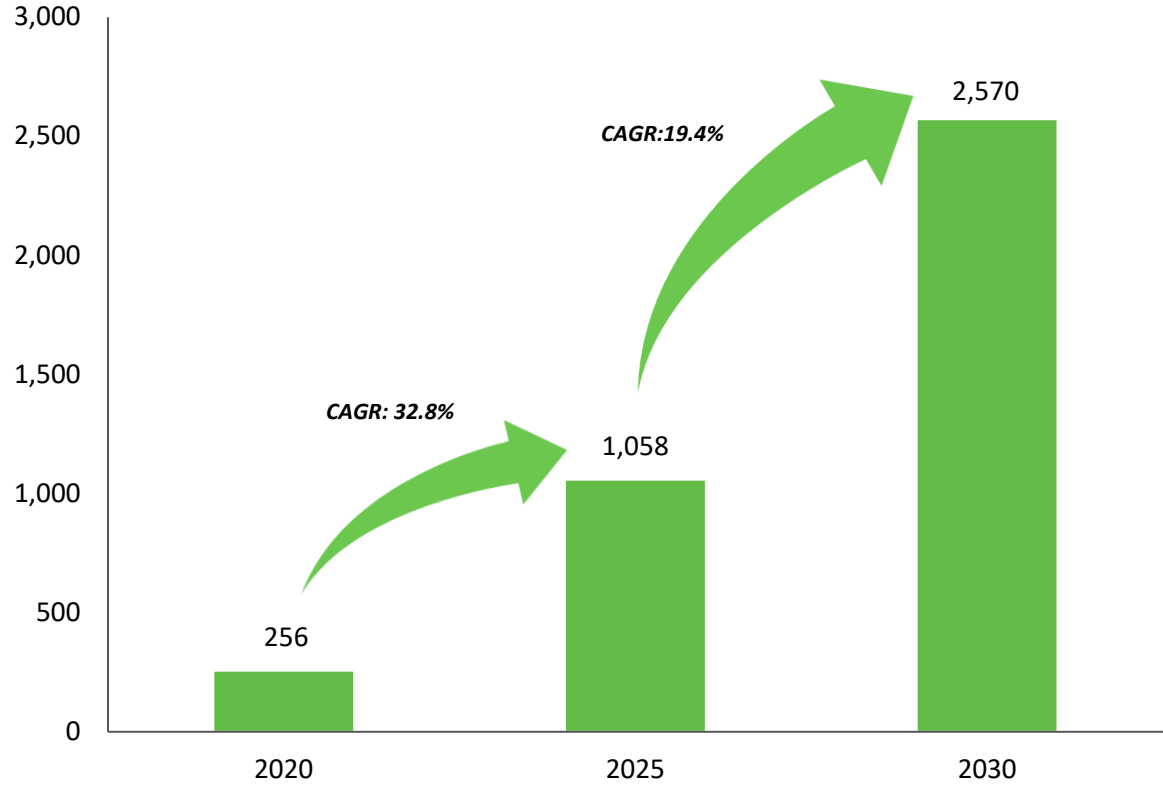


Source: Benchmark Mineral Intelligence Q1 2021 Report

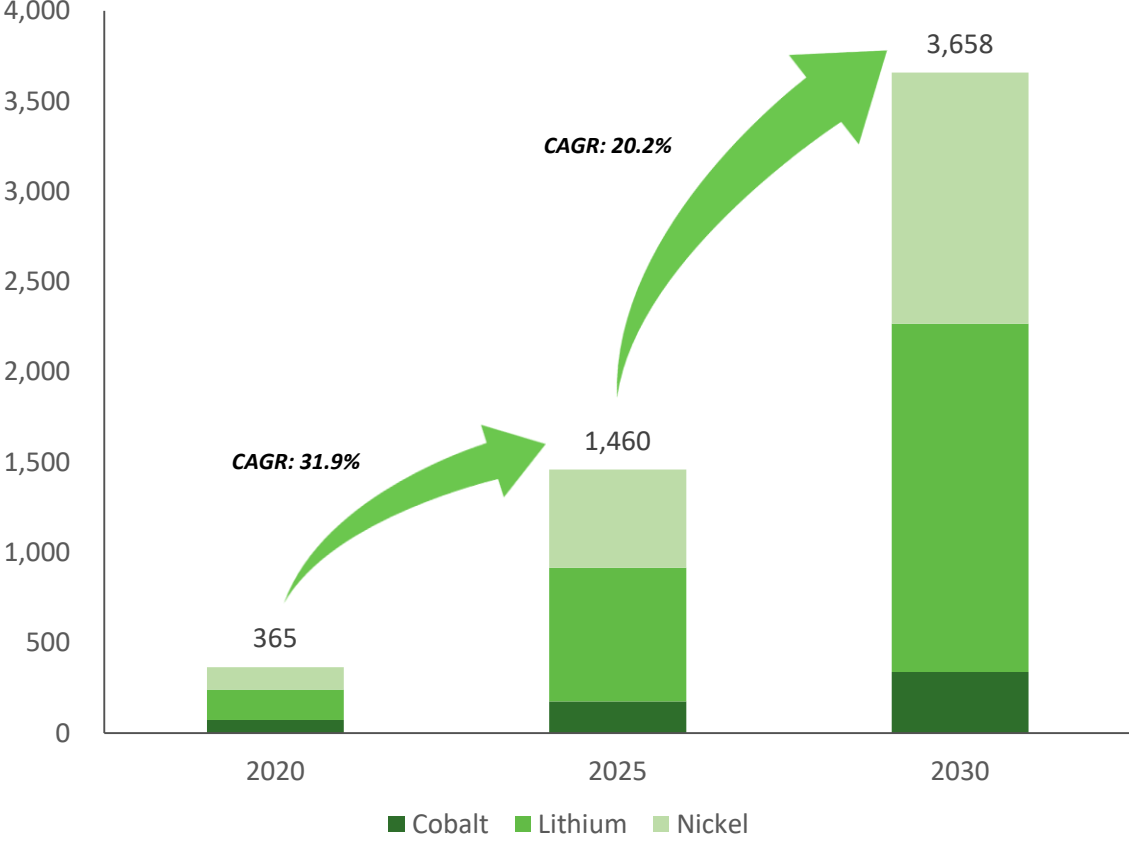
(1) Other Includes lithium manganese nickel oxide (LMNO) and lithium ion manganese oxide (LMO) batteries

Anode & Cathode Material Demand Outlook

Graphite Anode Demand (Kt)

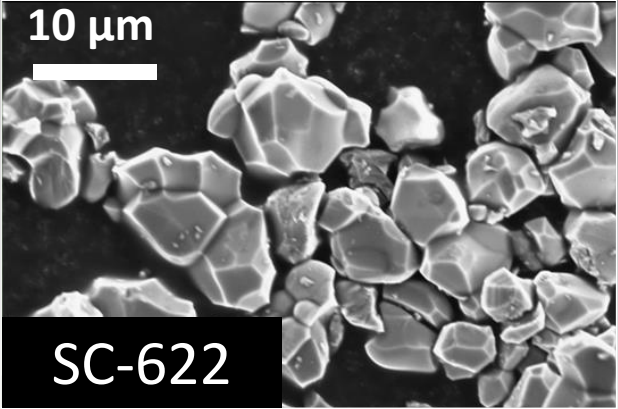
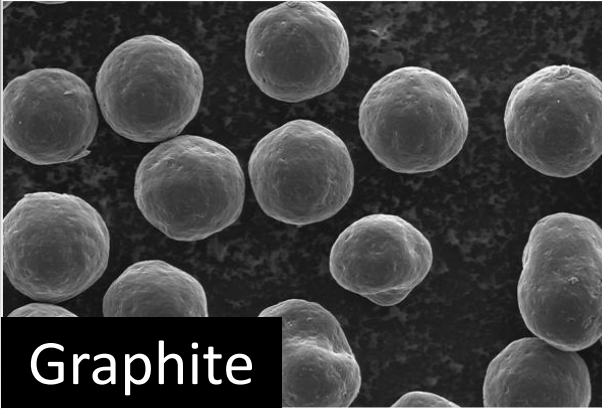


Cathode Material Demand (Kt)



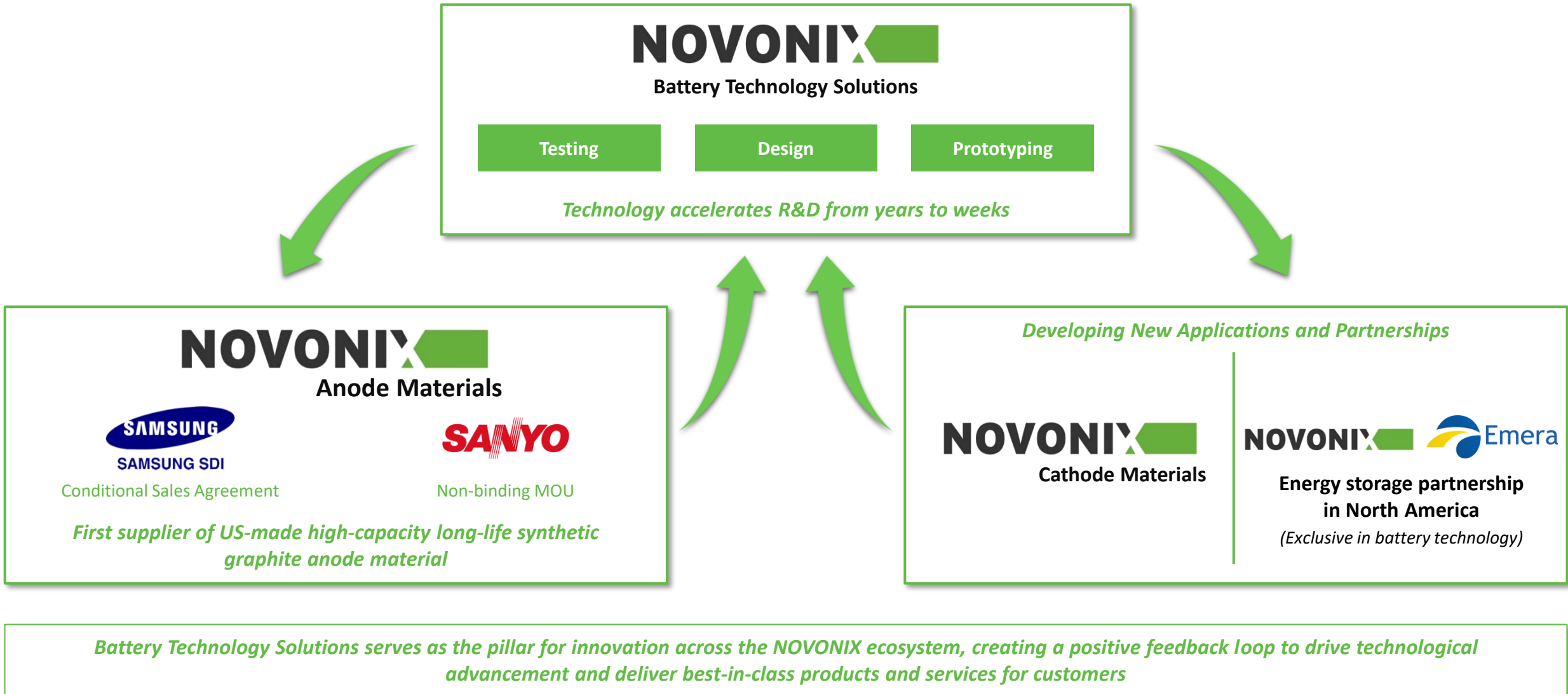
Lithium ion battery demand is projected to increase demand >10x through 2030

Source: Benchmark Mineral Intelligence (4/23/21)



NOVONIX Operations and Technology

NOVONIX is a Leader in Battery Development and Material Technology



NOVONIX Operations

NOVONIX – BTS (HQ)

Bedford and Dartmouth, NS Canada
Employees – 39 (as of May 31)



NOVONIX – Anode Materials
Chattanooga, TN USA
Employees – 29 (as of May 31)



ASX: NVX









OTCQX: NVNXF

Recent News

- New facility recently secured in Halifax dedicated to developing our cathode materials business
- BTS now includes >55,000 sqft in Bedford and Dartmouth, Nova Scotia
- Expanded NAM footprint to 120,000 sqft as of May 1, 2021
- Significantly progressed site selection process for expansion to 10,000 tpa of total NAM production capacity
- Continued engineering and planning work for 30,000 tpa expansion plant to support 2025 NAM production targets

NOVONIX is a Technology Leader in the Development of Materials for the “Million-Mile Battery”

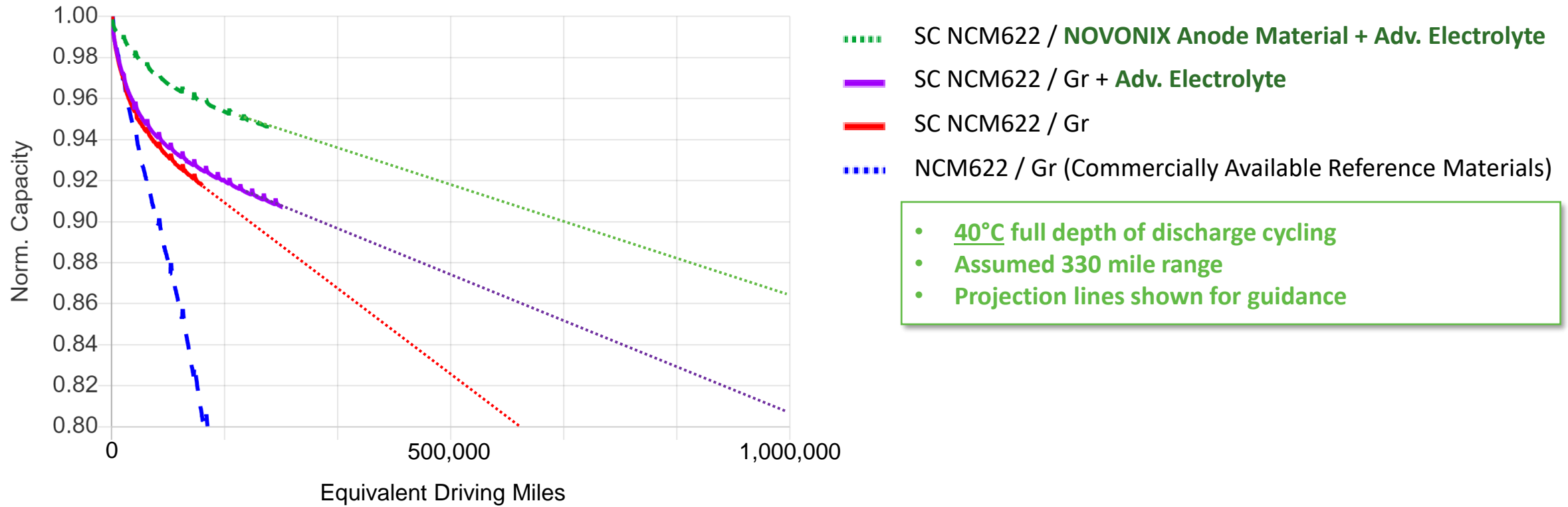
The Million-Mile Battery is expected to require four critical elements that NOVONIX develops:

	Advanced R&D Testing	Long-life Anodes	Long-life Cathodes	Long-life Electrolytes
Product Capability				
Status	 Providing advanced development, testing and prototyping solutions	 Developed and currently scaling production	 Under development IP filed	 Demonstrated performance IP being filed

NOVONIX has four critical elements in-house

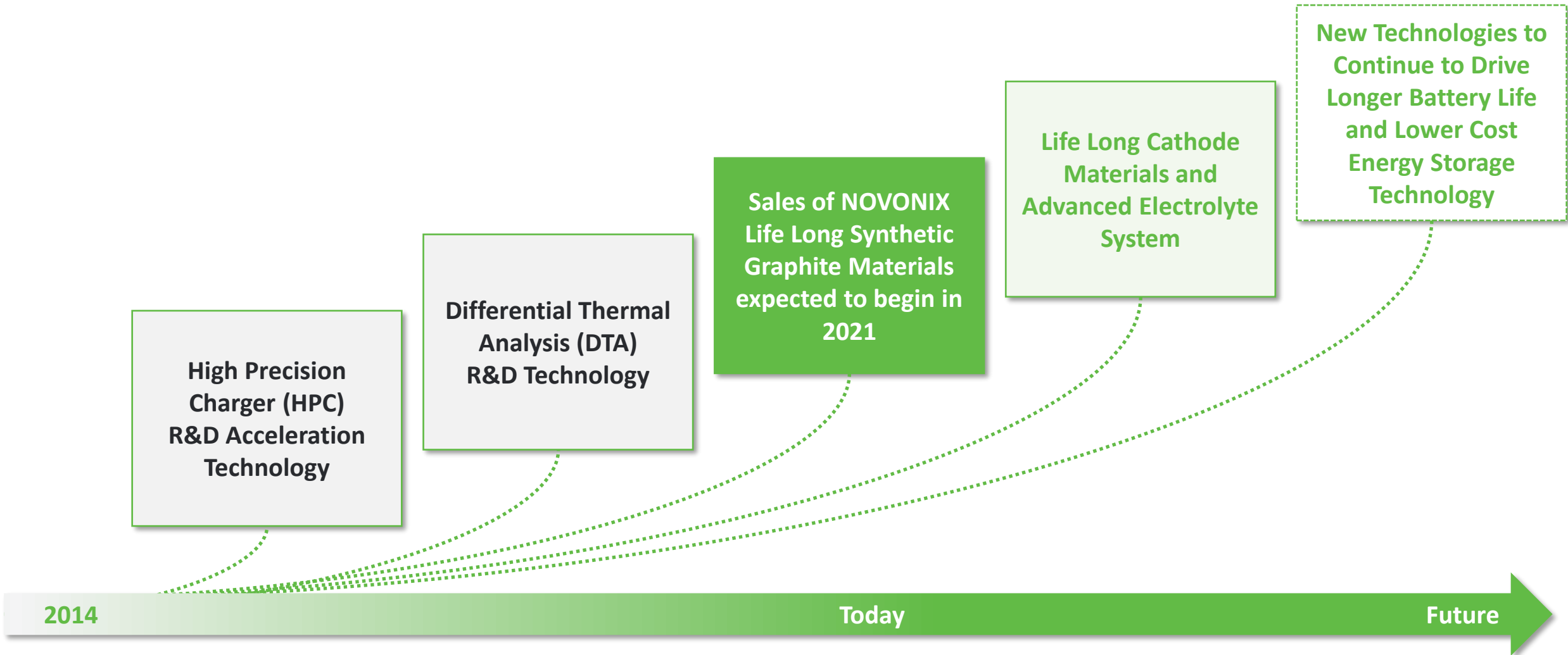
NOVONIX's Complete Battery Cell Technology is Leading the Way for Next Generation EV Batteries

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







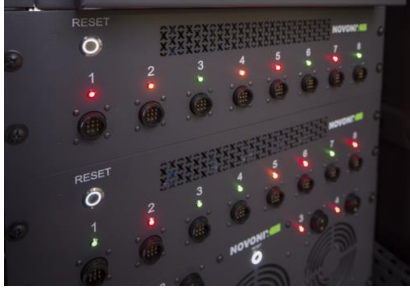
1. Data based on internal measurements taken as part of verification process.

NOVONIX Technology will Continue to Drive Innovation



Battery Technology Solutions Segment Is the Innovation Engine for NOVONIX

NOVONIX *Battery Technology Solutions (BTS) provides cutting edge technology that is highly sought after for R&D services to create the next gen battery — potentially accelerating R&D from years to weeks with proprietary technology*

Technology		R&D Services (in-house)		
High Precision Cycler (HPC)	Differential Thermal Analysis (DTA)	Materials Development and Characterization	Cell Design and Prototyping	Cell Testing
<p>Enables quick reliable predictions of battery lifetime</p> 	<p>Measures composition evolution over time</p> 	<p>Analytical Materials Lab</p> 	<p>Pouch and cylindrical cell manufacturing pilot line</p> 	<p>Diagnostic tools and performance testing</p> 

Battery Technology Solutions' positioning places **NOVONIX** at the forefront of the battery technology industry

NOVONIX HPC Technology Offers Best-In-Class Accuracy

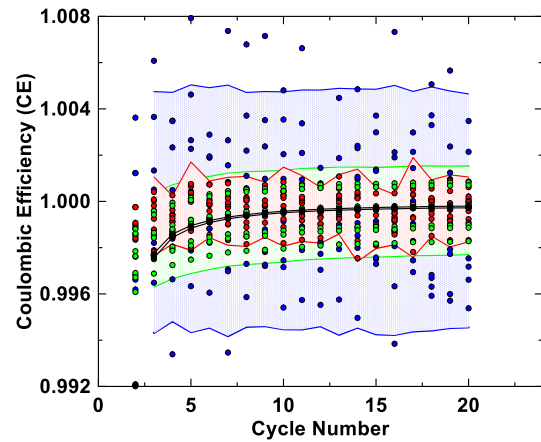
High Precision Coulometry (“HPC”) Cyclers

NOVONIX HPC CE Measurement vs. Competitors

NOVONIX can measure *Coulombic Efficiency* extremely precisely

Delivering Precise CE Values

- Accurate CE values require extremely precise current and voltage sourcing and measurements
- NOVONIX HPC’s significantly tighter current setpoints provides higher resolution and accuracy relative to the competition



Novare
Maccor
NOVONIX
Biologic

- CE measurements taken on the same 8-9 cells on Neware, Maccor, Biologic, and NOVONIX HPC battery testing systems under identical conditions (40°C, 2.8V - 4.0V, 200mA (~C/15))
- Scatter points are individual cycle data for all 8-9 cells on each tester
- Range is shown as 2x standard deviation

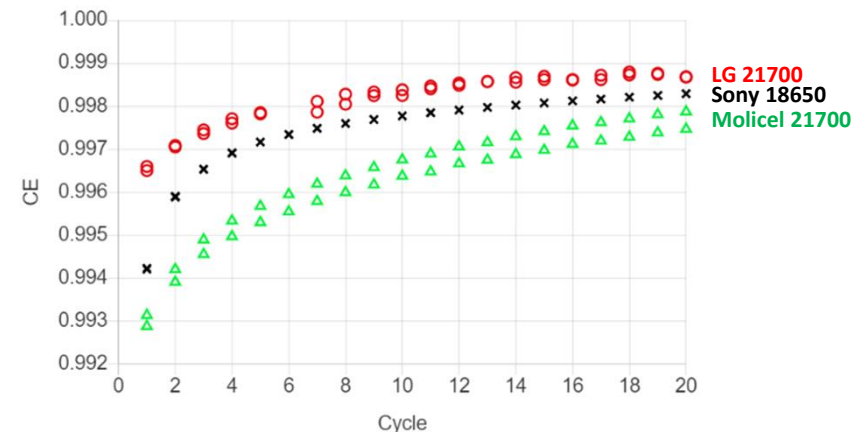
System	Error Bar	ppm
NOVONIX	+/- 0.00004	40 ppm
Maccor	+/- 0.00146	1450 ppm
Biologic	+/- 0.00196	1960 ppm
Neware	+/- 0.00519	5190 ppm

Spread in Commercial Cells

Only HPC can clearly differentiate commercial cells

Differentiating Commercial Cells

- Clean HPC data that show spread in commercial cells – only HPC can differentiate these cells
- This test took less than 18 days to complete, but results were clear almost immediately



NOVONIX Enhanced CE Accuracy Enables Rapid Battery Development

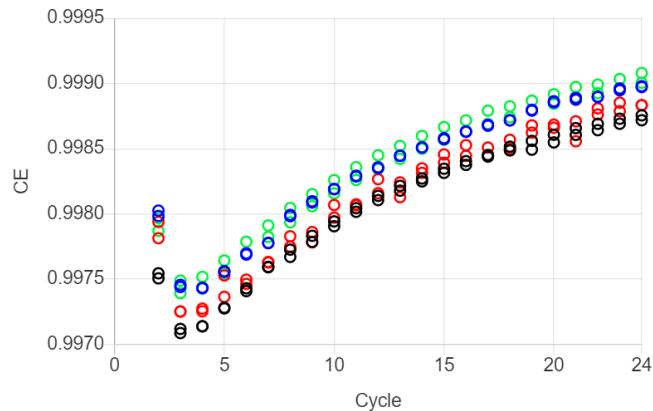
More accurate and precise CE measurements enable battery researchers to differentiate key performance indicators more rapidly than is possible with competing technologies

HPC Cycler Output – Electrolyte Additive Development Example

HPC can be used as a tool to speed up design processes - below a cell design stayed fixed while the electrolyte additives (~2% of electrolyte) were changed

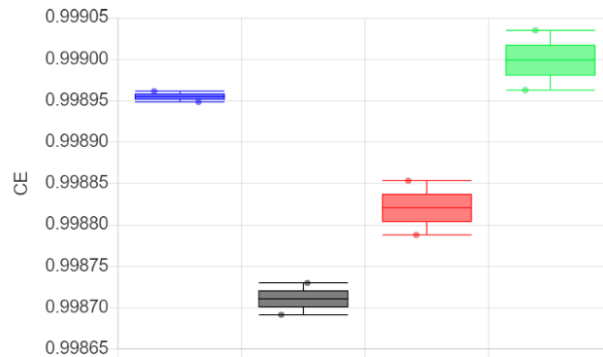
CE Measurement – 24 Cycles

Clear differences emerge in CE performance based on changes to the choice of electrolyte additive within 24 cycles due to high accuracy of test



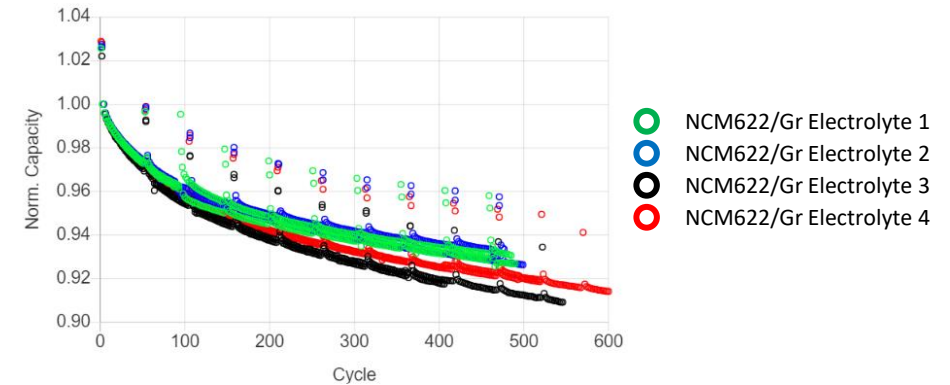
CE Measurement – Variability

Output shows clear statistically significant performance predictions between electrolyte additive types



CE Measurement – Long Term Cycle Life Testing

CE measurement predicted norm discharge capacity performance differences between additive types in a long-term test

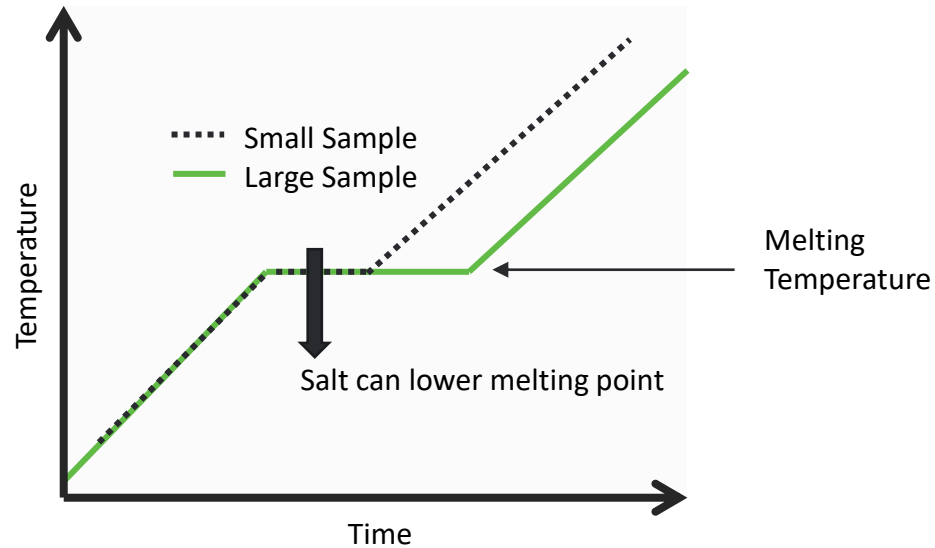


The CE at the end of cycling shows a clear prediction of relative performance in weeks rather than months of standard cycling

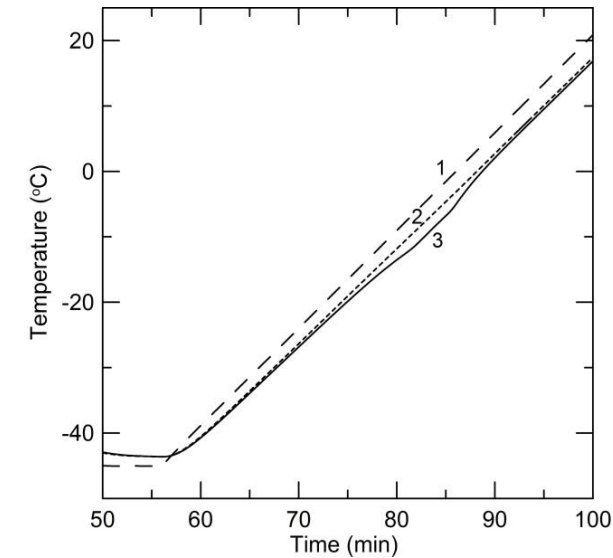
Illustrating NOVONIX DTA System Measurements – Ice Example

How to determine the amount of liquid in a sealed object? Think about melting ice...

1. Temperature of ice increases up to 0°C (melting point)
2. Ice-water mixture stays at 0°C until all ice has been melted
3. Water begins increasing in temperature



- Temperature versus time profile of melting a sample
- Energy used in phase change from solid to liquid at melting point
- Larger plateau indicates larger mass of material
- Temperature of plateau can be used to identify the material melting at that point



1. System temperature
2. Reference (inert sample, no electrolyte) temperature
3. Test sample temperature

Plot the difference between test and reference to highlight the phase changes

NOVONIX DTA System Provides Non-Destructive Measurement Solutions

Differential Thermal Analysis (DTA)

NOVONIX DTA System

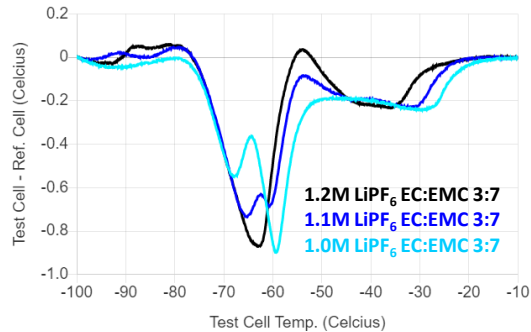


Differential Thermal Analysis (“DTA”) – Provides non-destructive measurements of changes to battery electrolyte composition over time

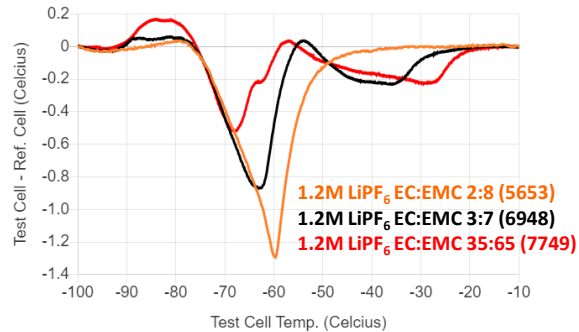
DTA Output – Thermal Signature Measurements

DTA Thermal Signature Measurements

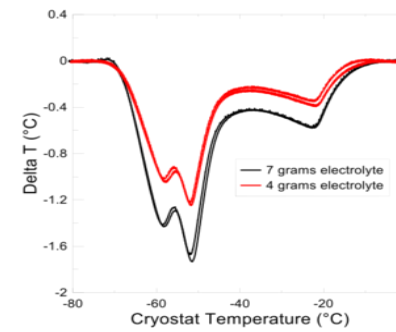
Performance Varying Salt Concentration



Performance Varying Solvent Concentration



Performance Varying Electrolyte Mass



NOVONIX DTA Key Differentiating Features

- During battery operation, there can be substantial changes to the liquid electrolyte. NOVONIX DTA System utilizes an in-situ, non-destructive technique to measure and monitor the evolution of liquid electrolytes over the lifetime of a battery
- The lithium-ion DTA system has the ability to quantify reactions in a non-destructive manner to monitor and understand battery failure. It is an integral part of monitoring how each liquid electrolyte has evolved during the lifetime of a battery
- Measurements can be performed throughout the lifetime of a lithium-ion cell and users can better understand the electrolyte evolution and can make informed conclusions about the state of health of the battery

NOVONIX's Differential Thermal Analysis (“DTA”) System equips users with the ability to reliably measure battery performance to make informed decisions on the optimal lithium ion battery chemistries for specific applications

Source: All information and data sourced from Alvatek Research

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 Graphite Anode Material

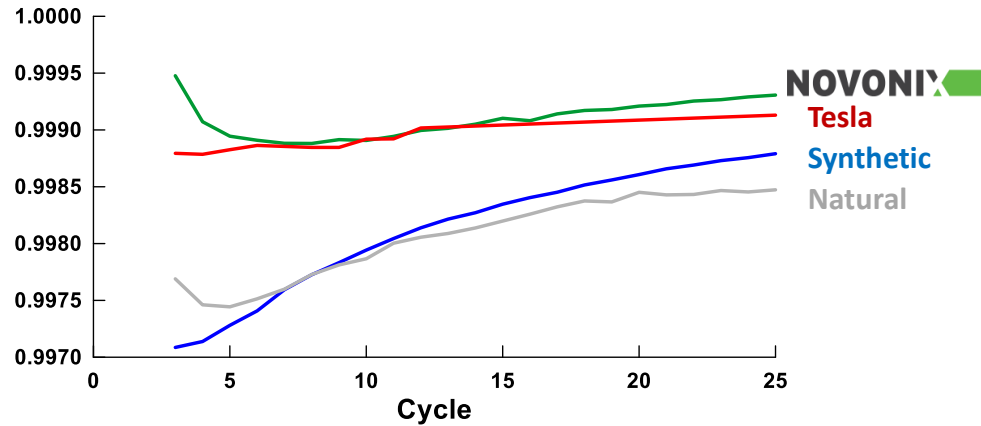
Key Performance Measures	Why Important?	Natural	Synthetic Mid Grade	Synthetic High Grade	NOVONIX Anode Materials
Capacity (mAh/g)	Increases Battery Energy Density	360-365	340-350	350-360	350-360
1st Cycle Efficiency (%)	Increases Battery Energy Density	90-91	91-93	93-94	94-96
Cycle Life	Longer cycle life extends the useful life of the battery, which is critical for Electric Vehicles and Energy Storage Systems	Low	Medium	High	V. High
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	Low	Medium	High	V. High
Emissions and Chemicals	Batteries support sustainability, but the input materials must also be made in an environmentally friendly manner	High	High	High	V. Low

Source: Data based on internal measurements taken as part of verification process.

 is the leader in key performance measure shown

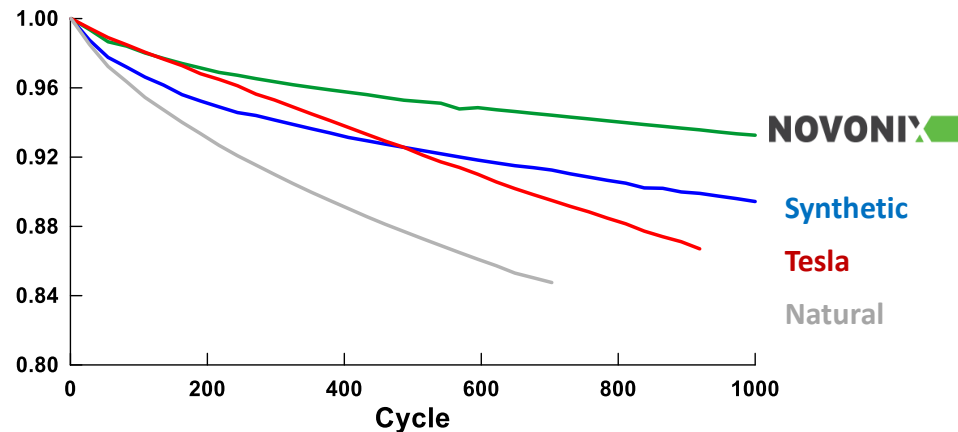
NOVONIX Anode Material Outperforms in Head-to-Head Testing

Improved Coulombic Efficiency (CE)⁽¹⁾



- 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

Improved Capacity Retention⁽¹⁾



- 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 verification process.

NOVONIX Anode Materials Are Manufactured In-House Using Proprietary Technology



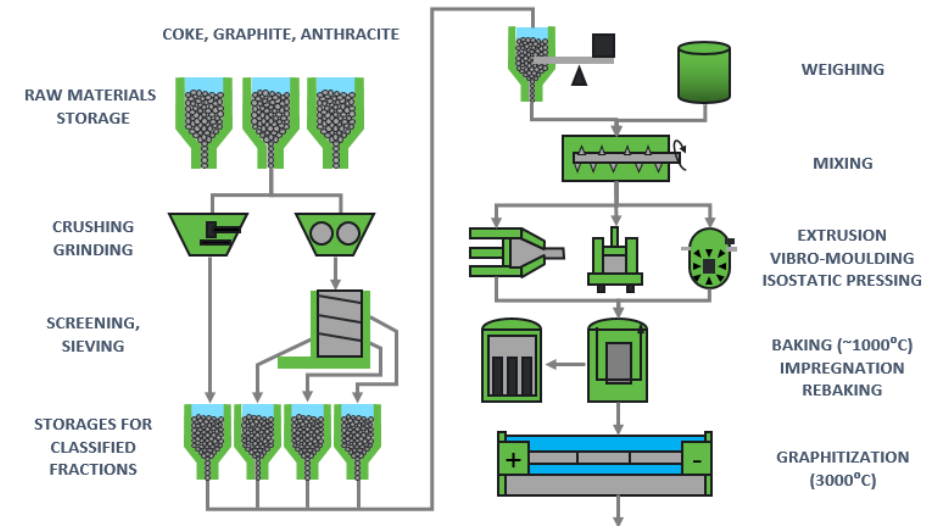
Anode Materials

- NOVONIX Anode Materials was established in March 2017 to commercialize the company's anode material for the EV and energy storage markets
 - Anode materials are one of the most significant components of the battery cell and define overall performance, reliability and cycle life
 - Materials were developed by leveraging industry knowledge and market insights gained through activities in NOVONIX's BTS business
- NOVONIX Anode Materials are manufactured with a proprietary process that focuses on lower environmental footprint and delivering high performance graphite anode materials at lower cost
- NOVONIX has access to well priced needle coke (raw material) within the U.S., which is the core global coke supplier, including relationships with suppliers such as Phillips 66



NOVONIX is the only qualified U.S.-based producer of battery-grade synthetic anode material

Traditional Synthetic Graphite Manufacturing Process



NOVONIX Manufacturing Process Advantages

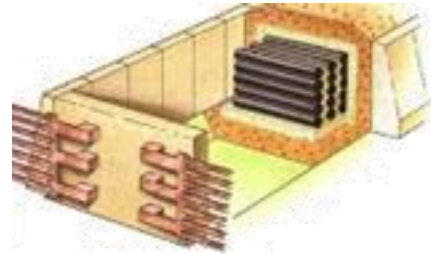
- Fewer steps
- Streamlined process
- Higher energy efficiency
- Improved emissions
- Better product performance
- Lower cost



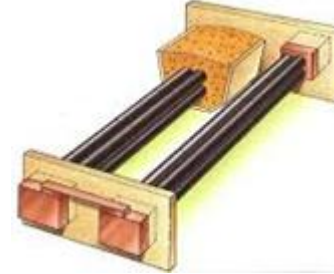
ASX: NVX

OTCQX: NVNXF

NOVONIX's R&D has Focused on Improving Scalability of Induction Furnaces



Acheson Furnace



Length-Wise Graphitization Furnace



Induction Furnace

Energy Efficiency	✗	○	✓
Processing Time	✗	○	✓
Emissions Control	✗	✗	✓
Atmospheric Control	✗	✗	✓
Product Quality	○	○	✓
Throughput/Scalability	✓	✓	○

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



State of the Art Anode
Materials Processing

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



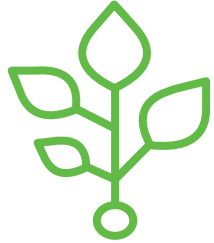
First-in-the-world
production scale
graphitization furnace
technology

- 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

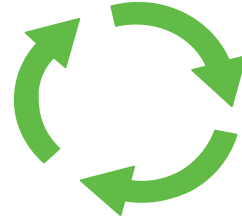
First “Generation 3” furnace system will be deployed at NOVONIX in 2021

NOVONIX's Technology is the Green Choice



Inputs

- Clean sources
 - Carbon free resources represent 50% energy input
 - Renewables represent 15% energy input
- Circular use of oil-gas by-products and carbon offsetting



Process

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



Outputs

- Negligible emissions, less than alternatives
- Longer lasting batteries

NOVONIX Has Agreements with the Two Largest Battery Makers, These Manufacturers Represent 30% of the Global Li-ion Battery Market⁽¹⁾

SAMSUNG Conditional Supply Agreement and R&D Collaboration

- Supply of 500 tons of synthetic graphite anode material commencing 2nd half 2021 (subject to SAMSUNG's required quality assurance processes)
- Working toward longer term supply agreement
- Conditional on supplier audit and QA



SANYO Commercial Collaboration

- Non-binding MOU to assess anode materials and supply for EV and ESS following positive test results in Japan



Source: (1) Avicenne Energy 2020.

Successful ASX Raise Provides Capital for Next Phase of Growth

Sources & Uses

Sources ⁽¹⁾	A\$ million
Institutional Placement	115
Total	A\$115

Uses	A\$ million
A. NOVONIX Anode Materials	95
B. Research & Development	10
C. Corporate Costs & International Growth Opportunities	10
Total	A\$115

Use of Offer Proceeds

A. NOVONIX Anode Materials

- Capex and working capital to scale production to 10,000tpa
- Includes new site expansion and equipment coming online over the next 24 months, as well as working capital associated with increased production levels
- Increased scale is expected to enhance offering to customers that may have minimum contracting volume requirements
- Future equity funding requirements expected to reduce significantly, with access to debt funding alternatives as the business scales

B. Research & Development

- Two year development program for NOVONIX Cathode Materials, with focus on scaling up process technology; demonstrating commercial performance compared to industry standards through a pilot line with in-house testing capabilities; and continuing to bolster IP portfolio
- Expansion of Professor Obrovac's team at Dalhousie University to focus on other continued technology programs (silicon, lithium-metal / solid state and beyond lithium-ion)
- Expect to leverage Canadian government (state and local) support in these R&D funding initiatives

C. Corporate Costs & International Growth Opportunities

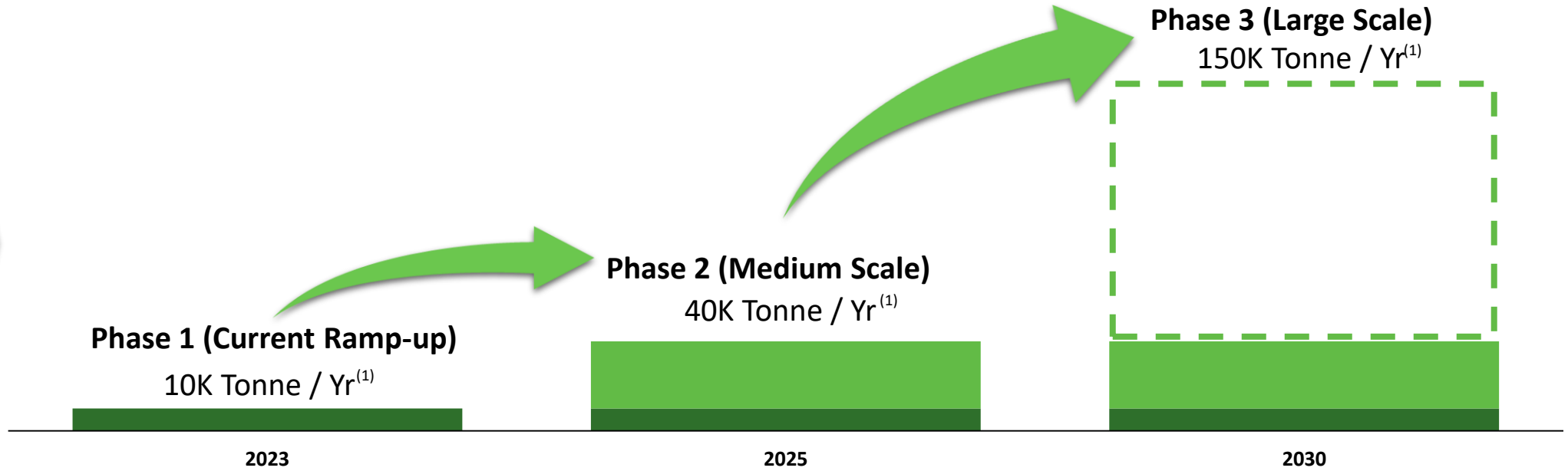
- Working capital associated with further growth initiatives
- Pursue global growth initiatives including expansion, partnerships and licensing

NOVONIX is well-funded to pursue its current growth objectives with cash balance of A\$131mm as of March 31, 2021

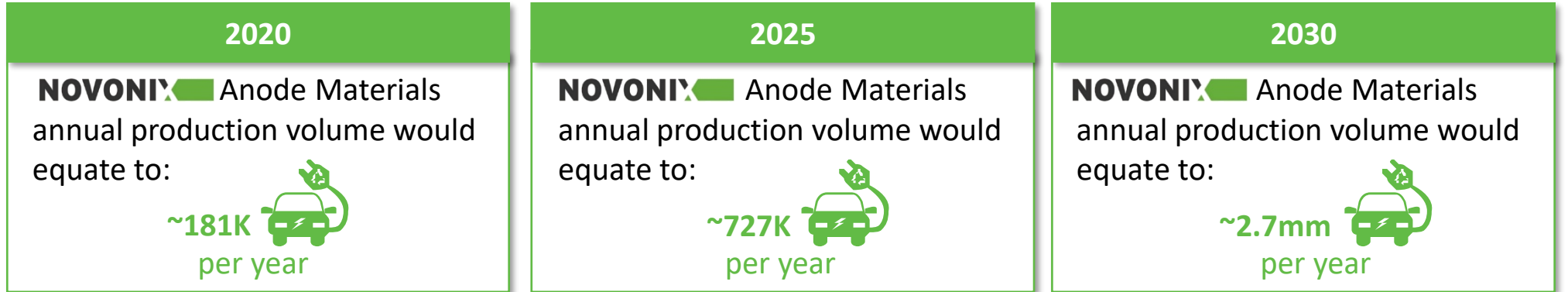
(1) Excludes funds raised Conditional Placements. Funds raised via Conditional Placements will further strengthen R&D investment and the ability to pursue international growth opportunities.

Phased Growth Plan For NOVONIX Anode Materials

Volume /
tonnage phased
growth



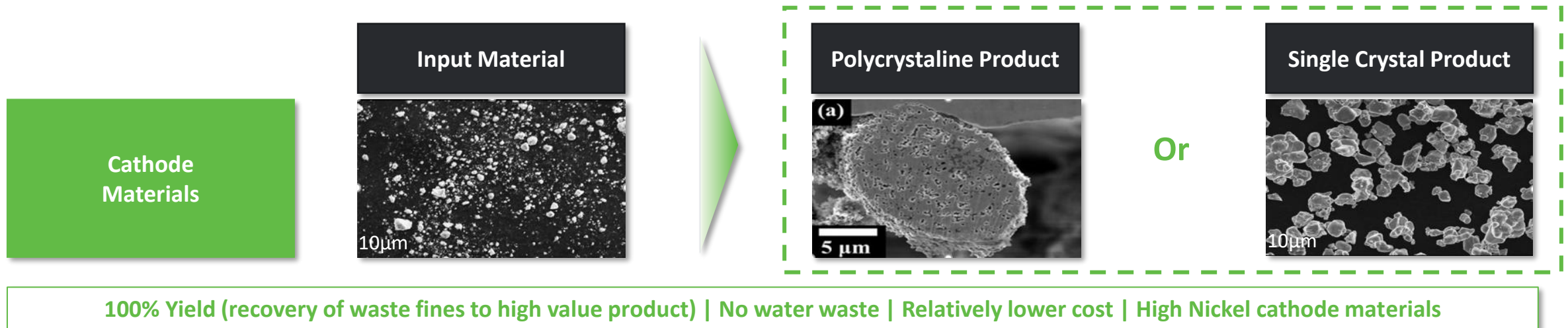
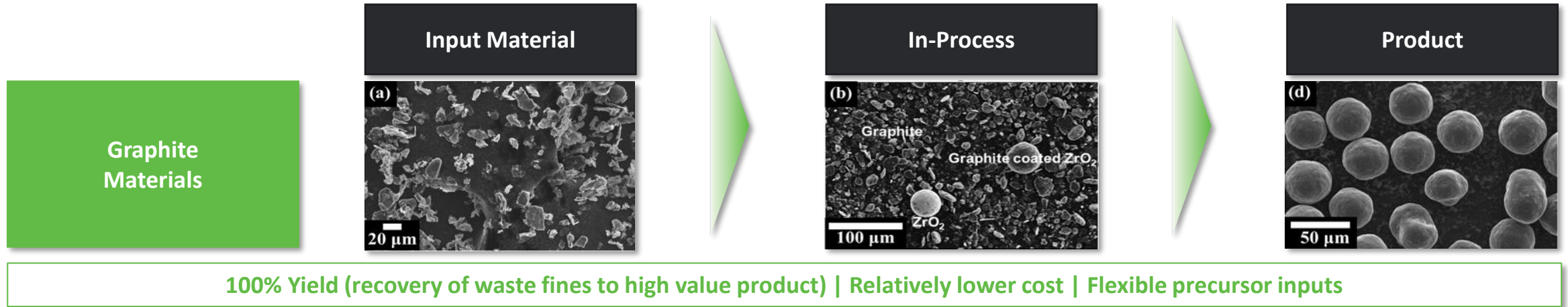
NOVONIX's
illustrative
scale plan⁽²⁾



(1) Company expectations, which may or may not materialize. (2) Assumes 55kg of graphite per EV.

DPMG: New Manufacturing Method for Anode and Cathode

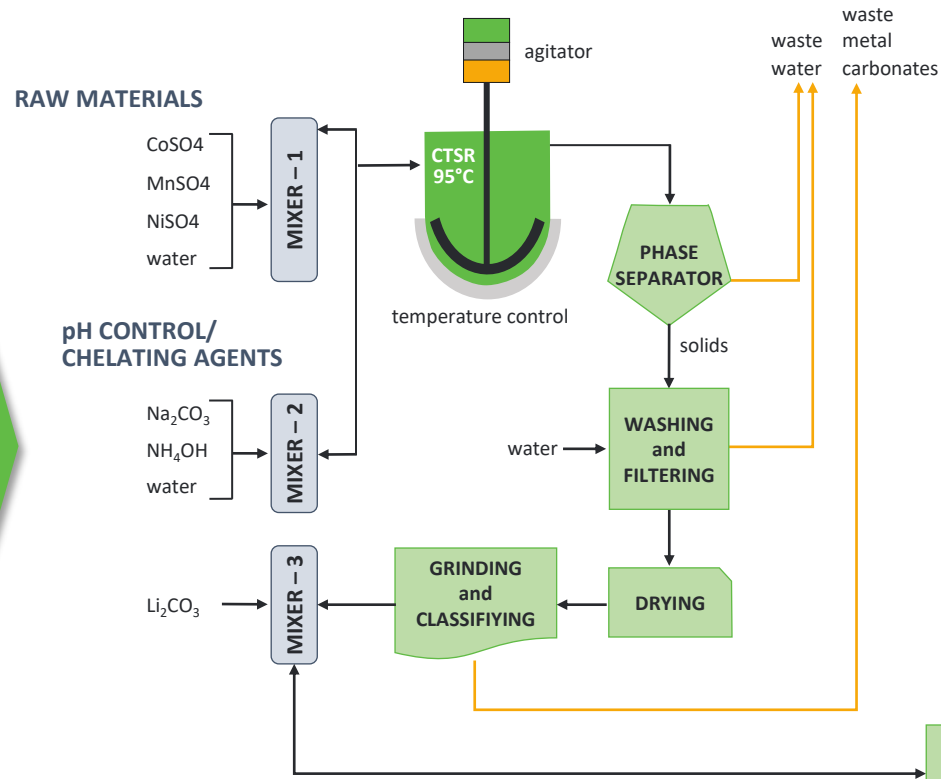
With multiple patent applications filed, NOVONIX's Dry Particle Microgranulation (DPMG) technology delivers higher yields at lower costs



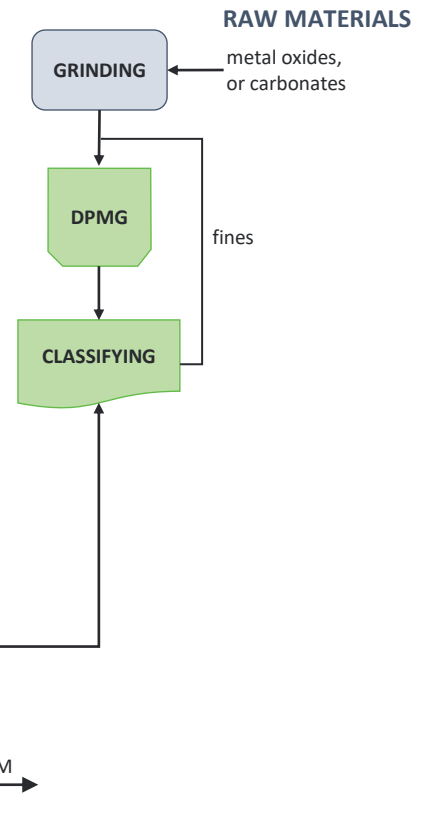
NOVONIX's DPMG Technology Offers Low Cost Cathode Synthesis

- Estimated total cathode material demand to increase from 365Kt in 2020 to 3,658Kt in 2030
- The most widely used precursor synthesis process (CSTR) is complex, wasteful and costly
- NOVONIX's Dry-Particle Microgranulation utilizes dry syntheses to produce high nickel materials at a significantly lower cost

Current Precursor Synthesis Process

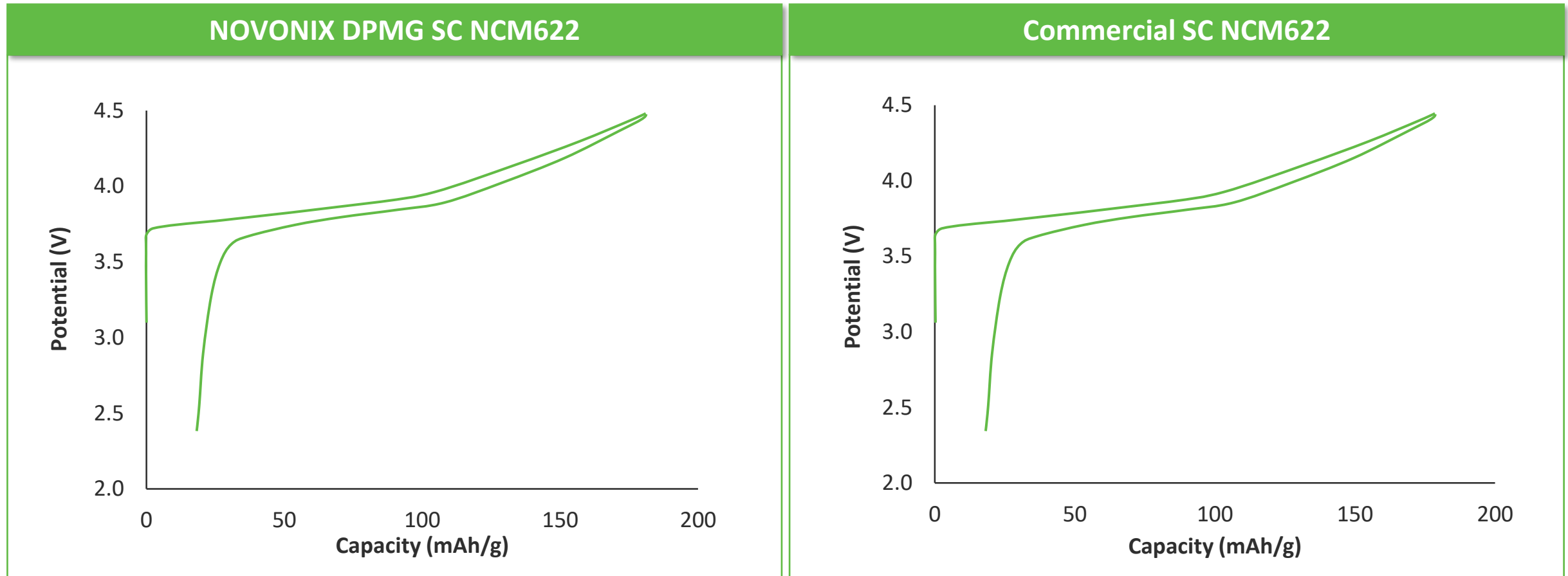


NOVONIX DPMG



Source: Benchmark Mineral Intelligence (4/23/21)

DPMG Performs Head-to-Head with Commercial Leaders



NOVONIX's Cathode material, synthesized using DPMG technology, shows similar capacity, first cycle efficiency and low polarization of commercial grade material with lower cost

DPMG Commercialization Plan

Current Funding



- NOVONIX is funding \$8.5 million for DPMG commercialization:
 - \$3.5 million for integration / deployment of DPMG technology into NOVONIX's cathode materials, driving higher yield, less waste, higher performance and higher margins
 - \$5.0 million for commercialization of DPMG technology to make high-performance long-life cathode materials including comprehensive testing at pilot scale and development of full-scale processing capability

Current Status



- Pilot scale demonstration
- Optimizing conditions for different particles:
 - High nickel and cobalt free materials
 - Coatings / dopants for performance improvement
- Continuing to file new patents on IP around DPMG inventions and findings

Next Steps



- Collaboration with technology partners and customers as well as evaluation of commercialization options including licensing, partnering and greenfield development
- 10 tonne per year capable demonstration line by 2022

The Future of NOVONIX

Investment Highlights

Developer and supplier of the most accurate battery testing technology in the world, providing leading customer and industry insight

Proprietary processes and in-house capability across the value chain driving innovation and commercial opportunities

Only qualified US-based supplier of battery grade synthetic graphite anode material, with longer cycle life at lower costs a key driver for industry adoption

Offerings are directly compatible with today's installed and planned battery manufacturing technology

Demand for technologies underpinned by strong growth in EV sales and energy storage demand over the next decade and beyond

Global tier 1 customer base across multiple end markets

Highly credentialed leadership team, continuing to successfully execute our growth agenda

Our Goals for the Future of NOVONIX

At the forefront of product innovation and development, leveraging NOVONIX Battery Technology Solutions' leading insight into the battery development and material technology ecosystem

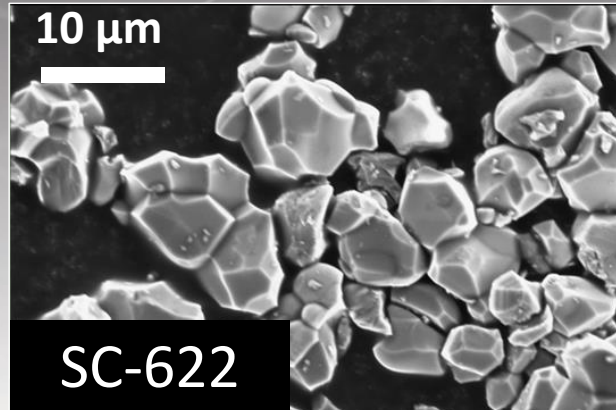
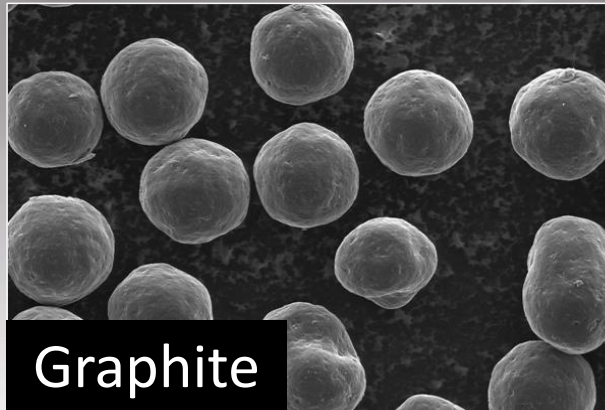
Technology leader throughout the EV battery and energy storage supply chain and continuous expansion into new applications

NOVONIX Anode Materials production capacity scaled to meet the growing demands of our customers

Develop NOVONIX Cathode Materials into an industry leader in cathode technology supported by our propriety DPMG process

Highly developed IP with leading market positions

Highly profitable with strong cash flow generation, enabling continued pursuit of profitable, high-growth opportunities



Strategic Investors & Partnerships

Strategic Investor: St Baker Innovation Fund



Investing in the electrification of transport



Better
EV Batteries



Better
EV Chargers



Better
EV Charger Networks

The St Baker Energy Innovation Fund invested \$10 million (in form of convertible notes) in January 2019 to enable **NOVONIX** to acquire a controlling interest in PUREgraphite and \$3.4 million (via loan) in March 2020 to support SAMSUNG SDI contract

Note: The St Baker Energy Innovation Fund is a related party to Trevor St Baker.

Strategic Alliance with Harper International

Harper Company Overview

- Harper International (Buffalo, New York) is a global leader in complete thermal processing solutions and technical services essential for the production of advanced materials
- From concept to commercialization and research scale to full production line operations, Harper produces cutting edge innovative furnace designs for worldwide markets
- Harper specializes in processing materials at high temperatures up to 3000°C and in non-ambient atmospheres



Harper Partnership Overview

- In December 2020, **NOVONIX** entered into a strategic alliance with Harper to develop specialized furnace technology intended to enhance the company's synthetic graphite manufacturing process
- In this alliance, Harper has developed, and will continue to develop, systems that are proprietary to **NOVONIX** in the lithium-ion battery field



Strategic Alliance with Emera Technologies

Emera Technologies Company Overview

- Emera Technologies is a wholly-owned subsidiary of Emera Inc. with a dedicated and nimble team focused on developing new ways to deliver renewable energy to customers
- Headquartered in Tampa, Florida, the team engages experts, research organizations and technology leaders to capitalize on the disruptive challenges and innovation opportunities in today's energy industry
- Emera Technologies developed BlockEnergy, the first utility-owned business model delivering a distributed energy solution to new residential communities



Emera Partnership Overview

- In February 2021, **NOVONIX** announced its partnership with Emera Technologies to develop residential battery pack systems to support microgrids that provide solar power directly to homes
- Over the past year, the **NOVONIX** and Emera teams collaborated to develop a battery pack including innovative designs, custom manufacturing and control systems to support the Emera Technologies' BlockEnergy microgrid currently being implemented in a new residential community in the U.S.
- We believe that the collaboration to manufacture specialized packs with Emera offers the potential for future opportunities for specialized packs across North America

