



# NOVONIX

► **Set for Growth**

Roth Conference March 2023



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# Providing Revolutionary Solutions to the Battery Industry

## Investment Highlights



Leading U.S. based battery materials and technology Company with lower carbon footprint



Large and growing market for battery materials supported by localization efforts



Anode material facility capacity advancing and widening our strategic moat



Battery Technology Solutions provides competitive advantage to accelerate innovation



Customer and government financing support paving a path to profitability as a sector leader

# NOVONIX



*Riverside Facility in Tennessee*

# Leading U.S. Battery Materials and Technology Development Company

# NOVONIX

Providing Revolutionary Clean Energy Solutions to the Battery Industry

Leading U.S.-based Supplier of  
Synthetic Graphite Anode  
Material

**NOVONIX**  
ANODE MATERIALS

Advanced Battery Testing and  
R&D Expertise

**NOVONIX**  
BATTERY TECHNOLOGY SOLUTIONS

Developing New Applications  
and Partnerships utilizing Dry  
Cathode Technology

**NOVONIX**  
CATHODE MATERIALS

# Synergistic Operating Structure

## NOVONIX Anode Materials (NAM)

- Leading domestic supplier of battery-grade synthetic graphite
- Focused on large scale and sustainable production to advance North American battery supply chain
- Strategically positioned to accelerate the clean energy transition through proprietary process technology, advanced R&D and strategic partnerships



## Battery Testing Solutions (BTS)

- Develops industry-leading lithium-ion battery cell testing equipment while providing expert R&D services
- Competitive intelligence from unparalleled visibility across the entire industry drive value-add opportunities
- In-house testing technology drives advancements in a fraction of the industry standard



## NOVONIX Cathode Materials

- Leverages proprietary all-dry cathode synthesis technology to provide clean energy solutions to the battery industry
- DPMG process technology minimizes waste and the environmental impact while producing high performance materials
- Pilot will demonstrate large-scale production of up to 10 tonnes per annum



# Capitalizing on the Growth Opportunity

## The Opportunity

Focus on developing technologies and materials that are needed for long-life high-performance battery applications

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## Increased Demand

Global synthetic graphite demand for electric vehicles and energy storage systems is growing with forecasts of a 5x increase in demand from 2020 to 2030

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## Localized Production

Execute phased growth strategy with roadmap to achieve production capacity of 150,000 metric tons of synthetic graphite per annum (tpa) by 2030

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## Battery Supply Chain

Commercialize NOVONIX proprietary pipeline of advanced battery technologies to accelerate the domestic clean energy transformation

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# NOVONIX Proprietary Graphitization Process Leads the Clean Energy Transformation



## Environmental

Life Cycle Assessment (LCA)<sup>1</sup> demonstrated a ~60% decrease in global warming potential (GWP) relative to conventional anode grade synthetic graphite versus Chinese product



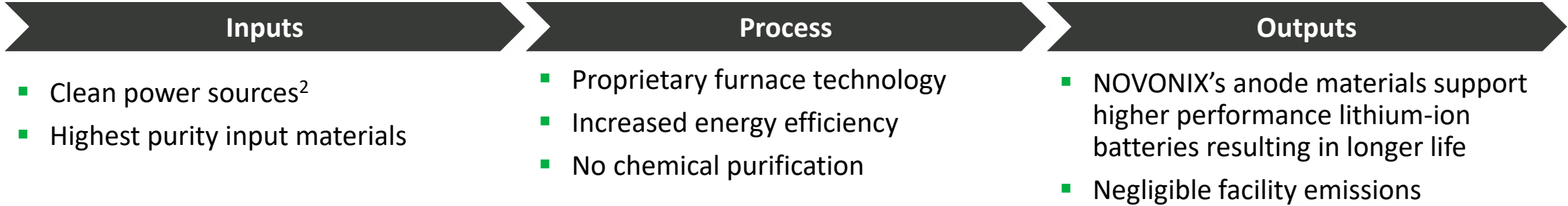
## Social

The health, safety, and wellbeing of our employees and the communities we operate in are essential to NOVONIX's success and growth



## Governance

NOVONIX believes corporate governance is central to its business objectives and a critical element contributing to the preservation of shareholder value



1 - The Life Cycle Assessment (LCA) conducted by Minviro Ltd.

2 - May FY2021 figures from Tennessee Valley Authority

# 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



**Christopher York**  
Senior Vice President  
Business Development

## 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



**Zhanna Golodryga**  
Non-Executive Director



**Robert Cooper**  
Non-Executive Director



**Jean Oelwang**  
Non-Executive Director



**Daniel Akerson**  
Non-Executive Director



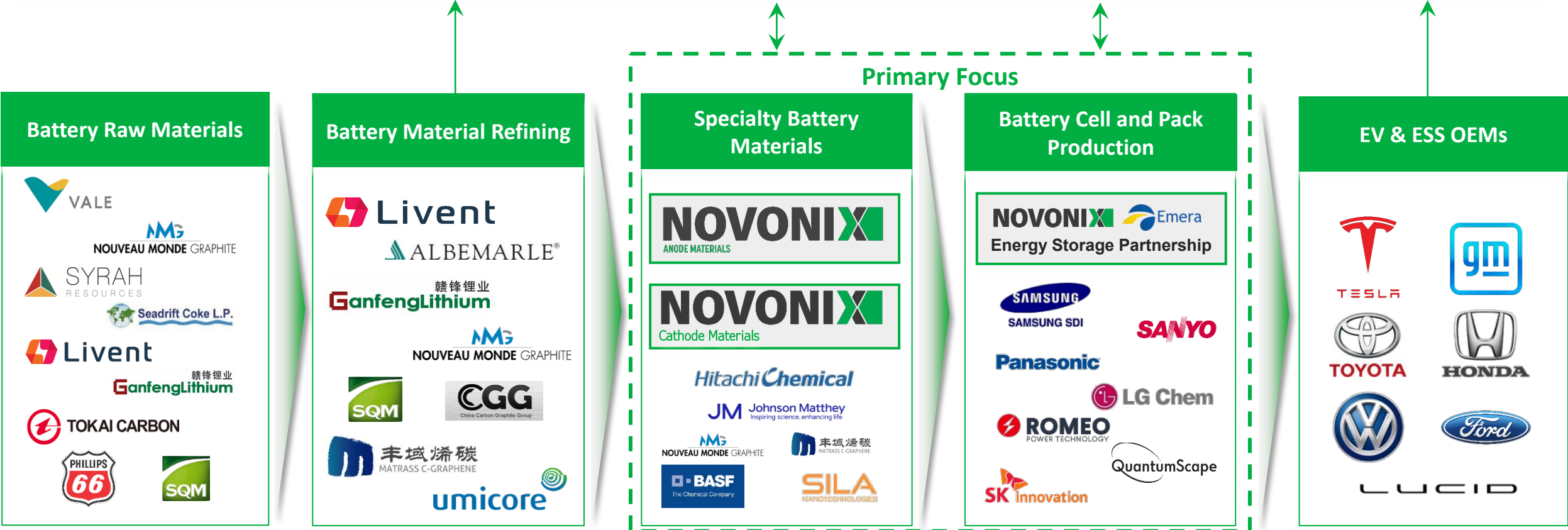
**Ron Edmonds**  
Non-Executive Director

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 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



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



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



**29 Jun 2022:** Announced final results of a Life Cycle Assessment (LCA) conducted by Minviro, demonstrating NOVONIX's GX-23 synthetic graphite anode material provides an approximate 60% decrease in global warming potential relative to conventional anode grades

January 2021

Today



**21 Jan 2021:** NOVONIX Anode Materials selected to receive US\$5.57mm grant from the U.S. Department of Energy for development of high efficiency continuous graphitization furnace technology with Harper Intl.



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



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



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



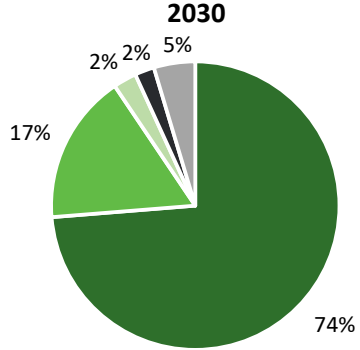
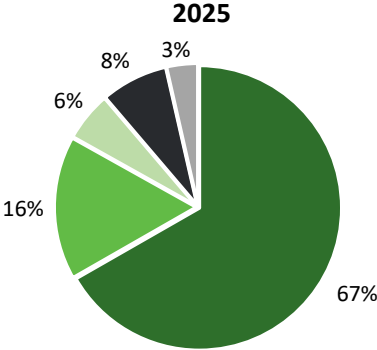
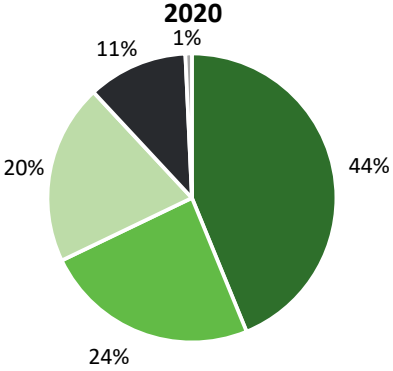
**01 Feb 2022:** American Depository Receipts commenced trading on the Nasdaq and celebrated the milestone by ringing the Closing Bell



**19 Oct 2022:** Selected for US\$150 million in DOE grant funding to support build-out of NOVONIX's next 30,000 tonnes synthetic graphite manufacturing facility.

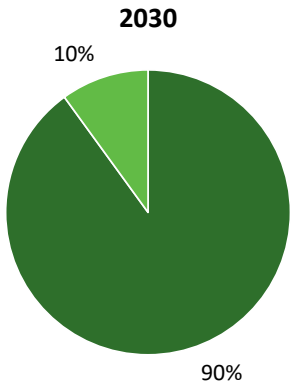
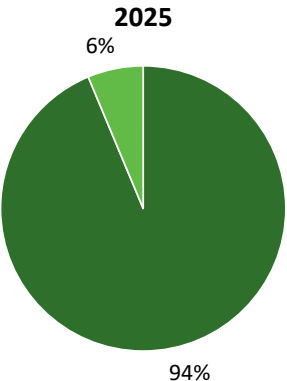
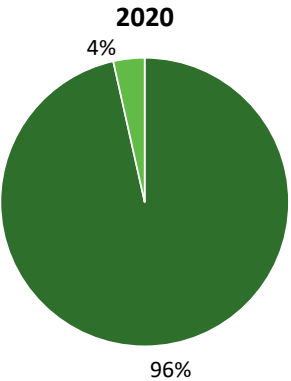
# Graphite Remaining the Dominant Anode Technology

## Cathode Market Share by Chemistry



■ Lithium Nickel Cobalt Manganese Oxide (NCM) ■ Lithium Iron Phosphate (LFP) ■ Lithium Cobalt Oxide (LCO) ■ Lithium Nickel Cobalt Aluminum (NCA) ■ Other<sup>1</sup>

## Anode Market Share by Material Type



■ Graphite (Natural & Synthetic) ■ Other

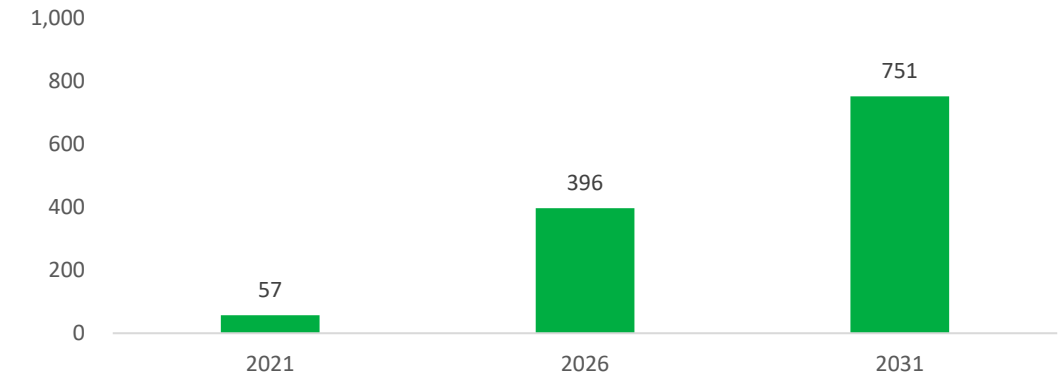
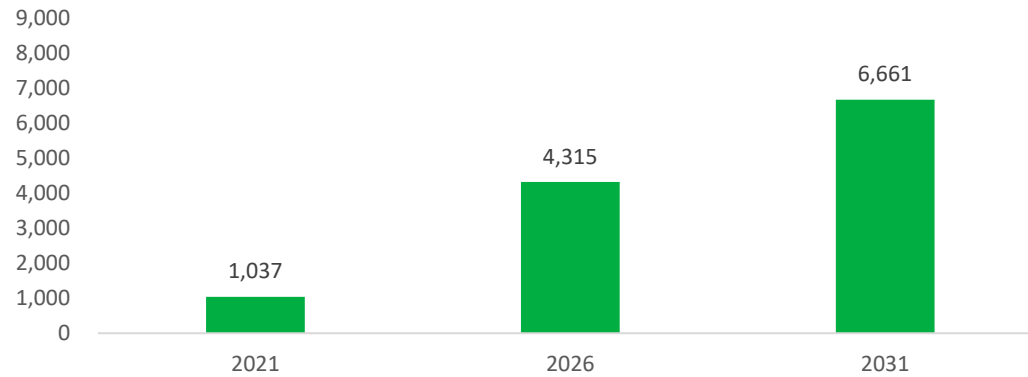
Source: Benchmark Mineral Intelligence Q1 2021 Report  
 (1) Other Includes lithium manganese nickel oxide (LMNO) and lithium-ion manganese oxide (LMO) batteries

# Global Battery Demand Fuels Localized Graphite Anode Supply

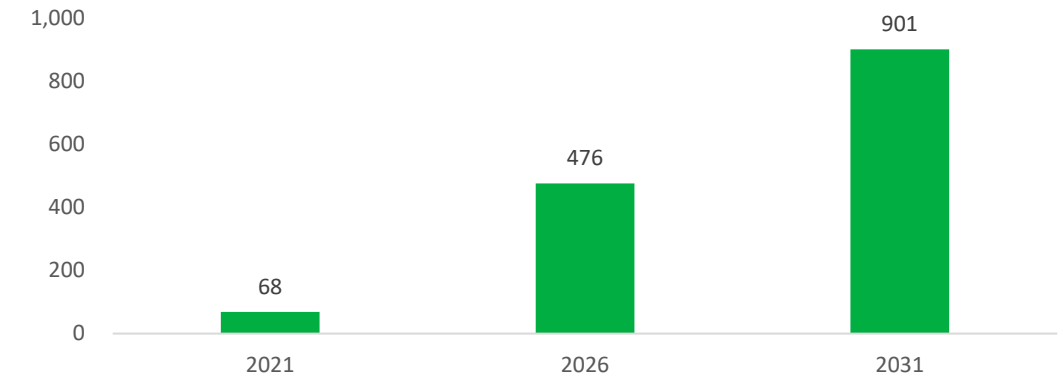
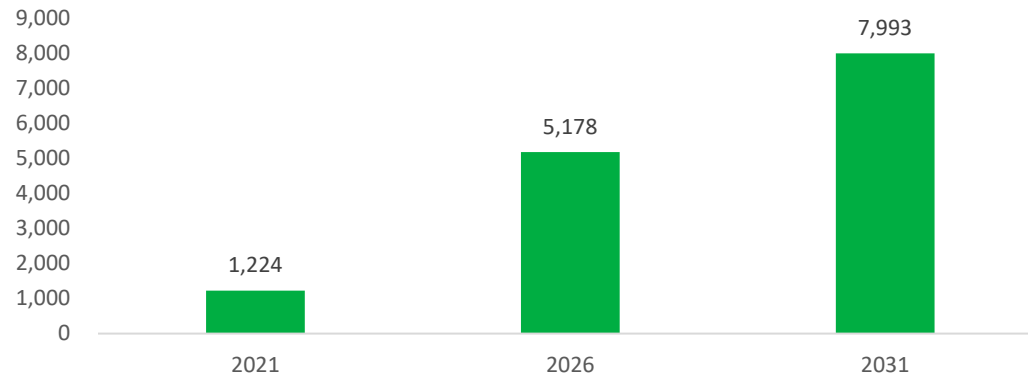
## Global

## North America

Battery Capacity (GWh)<sup>1</sup>



Implied Graphite Anode Demand (Kt)<sup>2</sup>

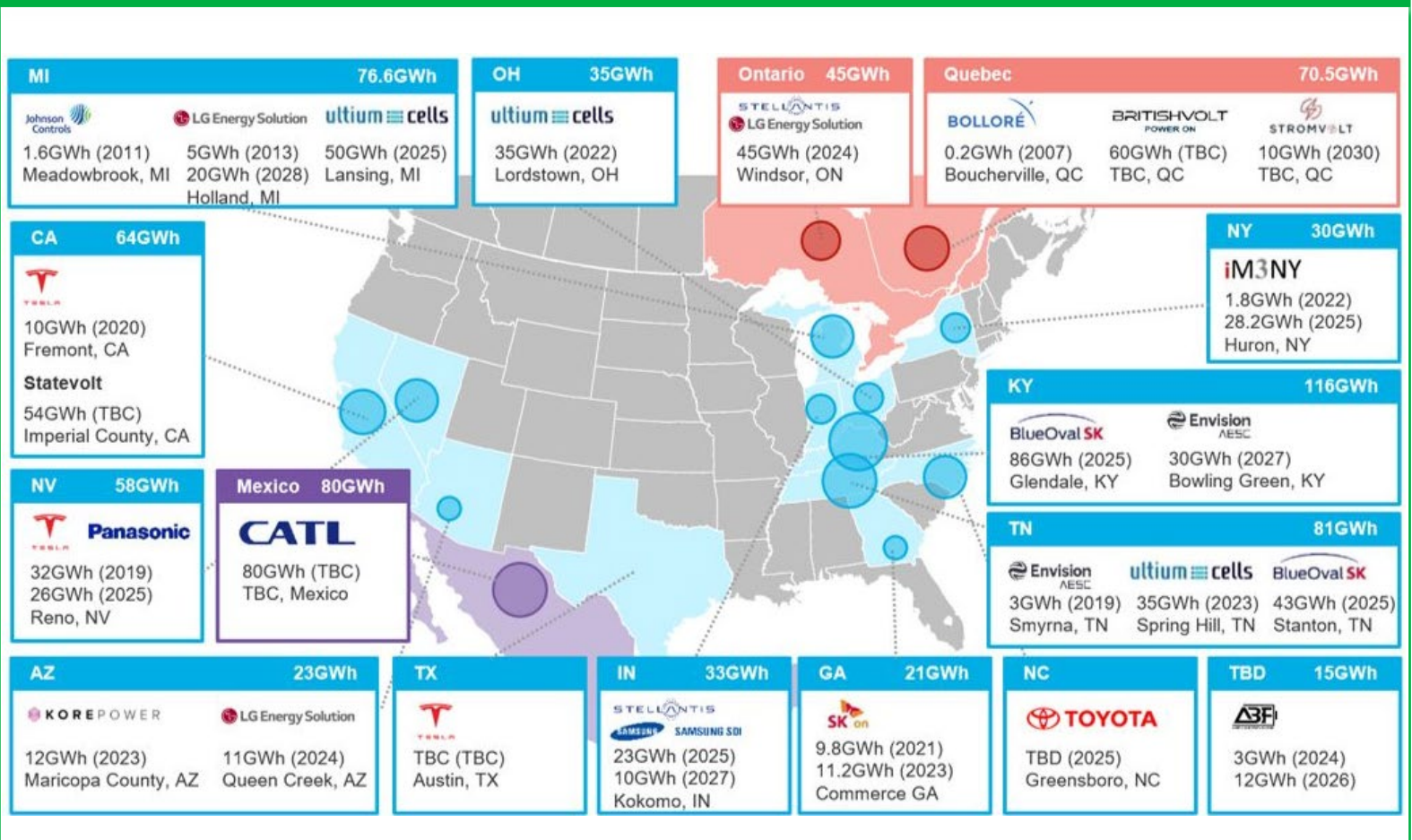


(1) Source: Benchmark Mineral Intelligence Gigafactory Assessment – June 2022. Based on announced capacity.

(2) Assumes full utilization

# Battery Manufacturers and Auto OEMs Announce New Gigafactories

## North American Battery Initiatives



## Key Observations

- Over 800 GWh across 55 manufacturing plants planned in North America
  - Announcements for new plants with clusters in the Midwest, Southeast and Ontario
  - The U.S. Inflation Reduction Act will likely lead to more announcements.
  - Current capacity ~50 GWh
- 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
  - 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

Source: Bloomberg BNEF October 2022

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

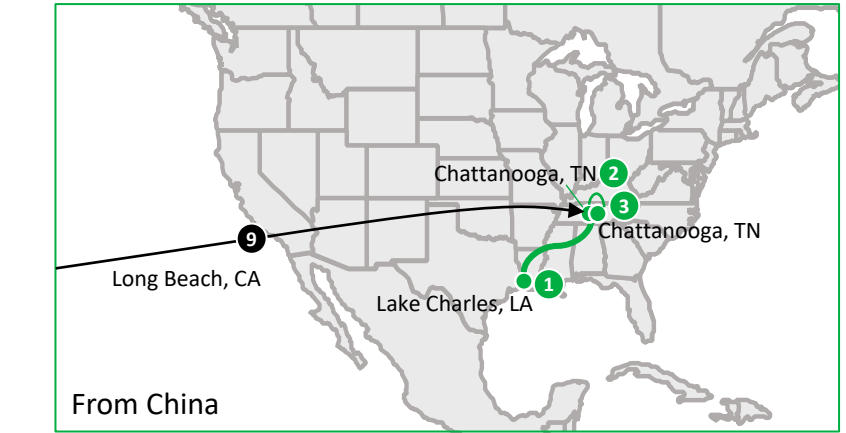
## Chinese Synthetic Graphite Supply Chain

- 1 Needle coke ships to Qingdao from Humber, UK (12,500 miles)
- 2 Road transport of precursor to grinding site near Shanghai (450 miles)
- 3 Road transport of ground needle coke to Inner Mongolia (1,050 miles)
- 4 Graphitization in Inner Mongolia powered by brown coal with no environmental standards or emissions controls
- 5 Road transport of graphite to southern China (1,500 miles)
- 6 Processing of graphite into BAM
- 7 Land transport of BAM to China port (50 miles)
- 8 BAM ships to U.S. port in CA (7,300 miles)
- 9 Land transport of BAM to end-user in TN (1,800 miles)



**24,650 Total Miles**

## NOVONIX Supply Chain



- 1 Needle coke transported from Lake Charles, LA to Chattanooga, TN (670 miles)
- 2 All processing of precursor to BAM in Chattanooga under strict environmental standards
- 3 Delivery of BAM to end-user in Chattanooga, TN region  
*6 potential customers within 150 miles*

**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**

# U.S. Legislation Providing Direct Support to NOVONIX's Business Plan

## Section 301 Tariffs

- In August 2017, the Office of the United States Trade Representative (USTR) launched an investigation into China's allegedly unreasonable and discriminatory trade practices under Section 301 of the Trade Act of 1974. Every four years, the USTR is required by statute to conduct a "necessity review" of Section 301 tariffs. The tariff exclusion was extended in December 2022 until September 2023.
- **Section 301 includes a 25% tariff on artificial graphite imported from China** to help remove unfair market distortions imposed by China's anticompetitive behaviors and size advantage in the battery materials sector.

## IRA Tax Credits & Consumer Credit

- **Inflation Reduction Act of 2022 ("IRA") includes an estimated \$369 billion in investments** related to "climate change and energy security," including tax and other incentives to promote U.S. production of electric vehicles ("EVs"), renewable energy technologies, and critical minerals, representing the **single biggest climate investment in U.S. history**.

## DOE Loans

- DOE Loan Programs Office (LPO) has \$15.1 billion in loan authority to support the manufacture of eligible light-duty vehicles and qualifying components under the Advanced Technology Vehicles Manufacturing Loan Program (ATVM), authorized by the Energy Independence and Security Act of 2007, providing debt capital at U.S. Treasury rates.

# Inflation Reduction Act of 2022 Details

## IRA Tax Credits & Consumer Credit

- The IRA includes several provisions aimed at bolstering domestic supply chains and the production of critical battery materials. These include:
  - **\$7,500 federal consumer tax credit for qualifying electric vehicles, starting in 2023 based on the origin of materials and localization of manufacturing**
    - **\$3,750 of the credit must meet critical minerals requirement** - The critical mineral credit requires certain thresholds of the percentage of the value<sup>1</sup> of the critical minerals in the vehicle's battery to be extracted or processed in the United States or from a country which has a free trade agreement in effect with the U.S.<sup>2</sup> EV credit eligibility is disqualified if materials are used from foreign entities of concern starting in 2025.
    - **\$3,750 from battery components** - The battery component requirement will be met if the percentage of the value of the components in the vehicle's battery that were manufactured or assembled in North America is equal to or greater than 50 percent in 2023 and increasing from that time.
  - New production and "advanced manufacturing" tax credits
    - Section 45X provides a 10% tax credit which is available to producers of electrode active materials (measured as a percentage of total cost of production).
    - Expands section 48C to provide \$10 billion in tax credits. The tax credit is 30 percent of the amount invested in new or upgraded factories to build specified renewable energy components.
  - \$500 million appropriation for "enhanced" use of the Defense Production Act economic support under banner of national security.
  - \$40 billion authorized for increased loan guarantees under Title XVII of the Energy Policy Act of 2005.

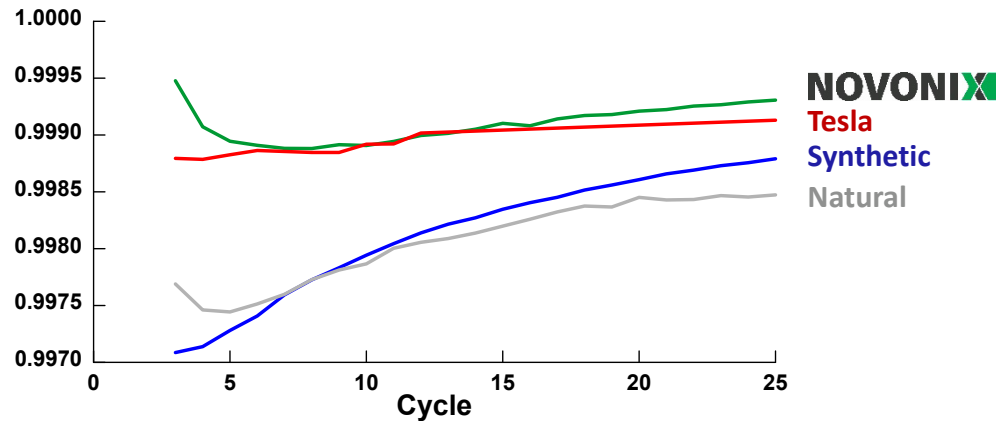
<sup>1</sup> This required percentage increases annually from 40 percent for a vehicle that is placed in service in 2023 to 50 percent in 2024, 60 percent in 2025, 70 percent in 2026, and 80 percent after 2026.

<sup>2</sup> Treasury and the IRS also expect to propose that the term encompasses, at minimum, the comprehensive trade agreements of the United States with the following countries: Australia, Bahrain, Canada, Chile, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Israel, Jordan, South Korea, Mexico, Morocco, Nicaragua, Oman, Panama, Peru and Singapore.



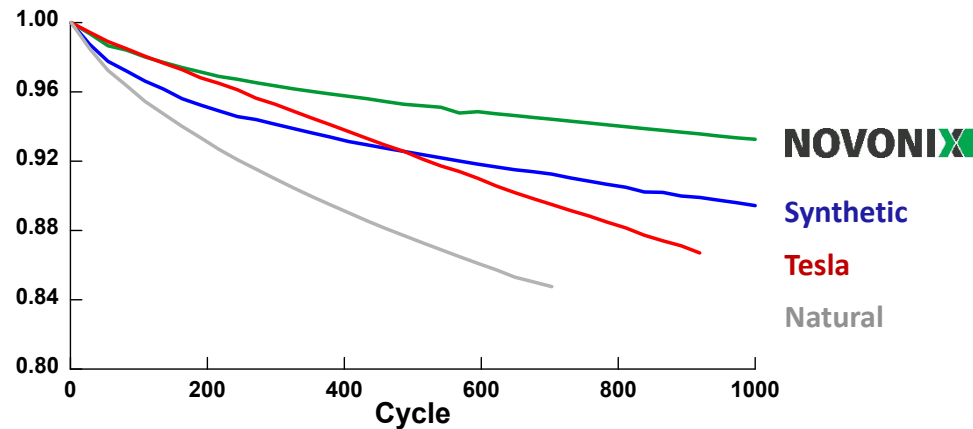
# NOVONIX Anode Material Outperforms In Head-to-Head Testing

## Improved Coulombic Efficiency (CE)<sup>(1)</sup>



- 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<sup>(1)</sup>



- 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.

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

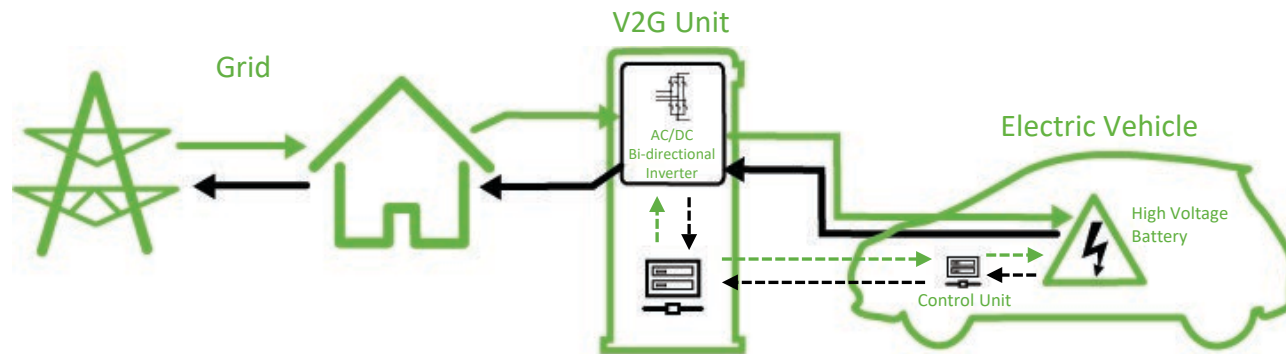
## Vehicle to Grid Provides Two Key Advantages



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

# NOVONIX Selected for US\$150 million in DOE Grant Funding

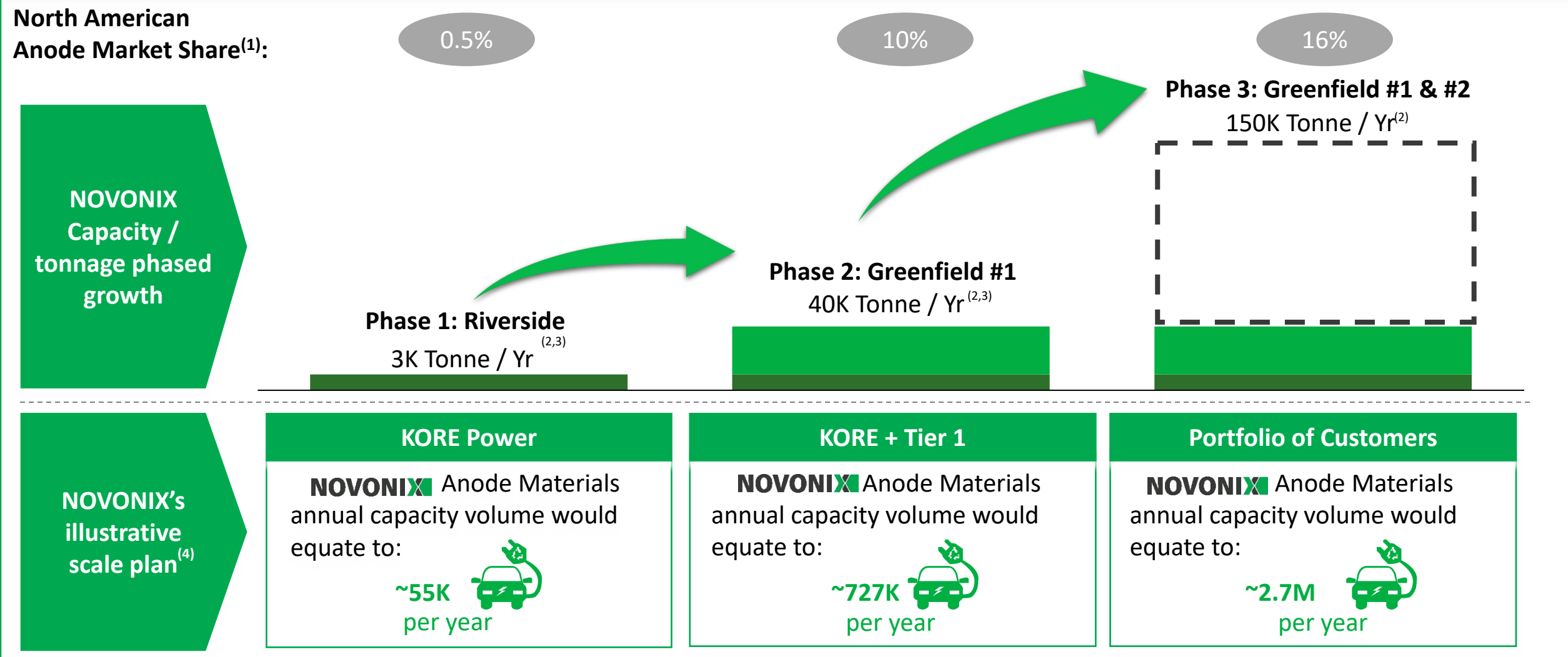
## Department of Energy Grant Funding

- A total of \$7 billion in grant funding under President Biden’s Bipartisan Infrastructure Law (BIL) has been appropriated to strengthen the North American battery supply chain amidst surging demand and growing calls to onshore these critical industries
- On October 19, 2022, \$2.8 billion was provided by DOE’s Office of Manufacturing and Energy Supply Chains (MESCC) in collaboration with the Office of Energy Efficiency and Renewable Energy (EERE), authorized by last year’s BIL to boost domestic battery manufacturing and supply chains
- NOVONIX was selected for US\$150 million of grant funding by the Department of Energy (DOE) to expand NAM’s domestic production of high-performance, synthetic graphite anode materials – one of 21 winners across 12 categories
- Specifically, the grant funds will be dedicated to the Company’s construction of a new U.S. manufacturing facility, including site selection, plant layout, and engineering design to allow for additional expansion after installation of an initial 30,000 tonnes per annum (tpa) of production equipment



**Wednesday, October 19, 2022, DOE announced that NOVONIX was selected for US\$150 million in grant funding** to support a 30,000 tonnes per annum (tpa) synthetic graphite U.S. manufacturing facility.

# Phased Growth Plan Matches Customer Demands



(1) Market share based off implied North American graphite demand in 2021, 2026, and 2031. Source: Benchmark Mineral Intelligence Gigafactory Assessment – June 2022. Based on announced capacity. Assumes full utilization.  
 (2) Company expectations aligned with customer contracts and anticipated customer demand, which may or may not materialize  
 (3) KORE Power agreement to supply Koreplex anticipates a ~3,000 tonne per annum delivery rate in 2H 2024 ramping to ~12,000 tonne per annum rate in 2028.  
 (4) Assumes 55kg of graphite per EV.

# NOVONIX Anode Materials Phase 2: Greenfield Site Selection Underway

## Greenfield Plan Overview

- A new Greenfield facility is planned to support an initial 30,000 tonnes per annum (tpa) by 2025, with potential to expand up to 75,000 tonnes
- Site selection process currently underway with several jurisdictions currently being considered
- NOVONIX was selected for US\$150 Million in DOE grant funding to support buildout of this facility for domestic production of high-performance, synthetic graphite anode materials

## Site Rendering



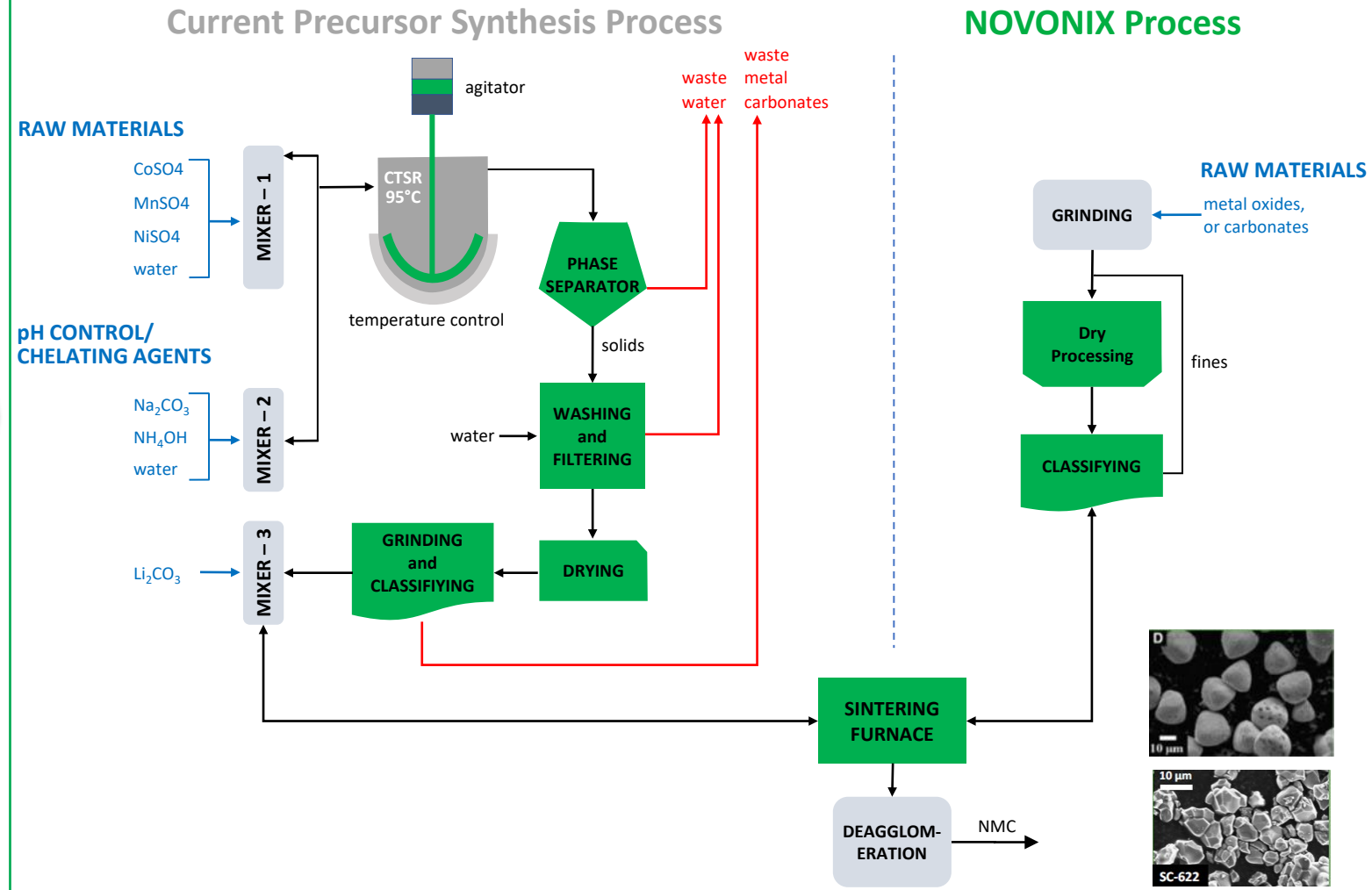
NOVONIX

# NOVONIX Cathode Synthesis Process Produces High Nickel Cathode Material at Lower Cost with no Water Waste

## Cathode Synthesis Development Overview

- Cathode material represents about 30% of the cost of a battery cell
- In 2021 the global cathode market size value was US\$19B, with a forecasted revenue of US\$33B by 2030<sup>1</sup>
- Current synthesis process is complex, produces water waste and is costly
  - 15,000 liters of water waste is generated per tonne of cathode material<sup>2</sup>
- With multiple patent applications filed, NOVONIX's Dry Particle Microgranulation (DPMG) technology delivers:
  - Higher yields at lower costs
  - No water waste
  - High Nickel cathode materials

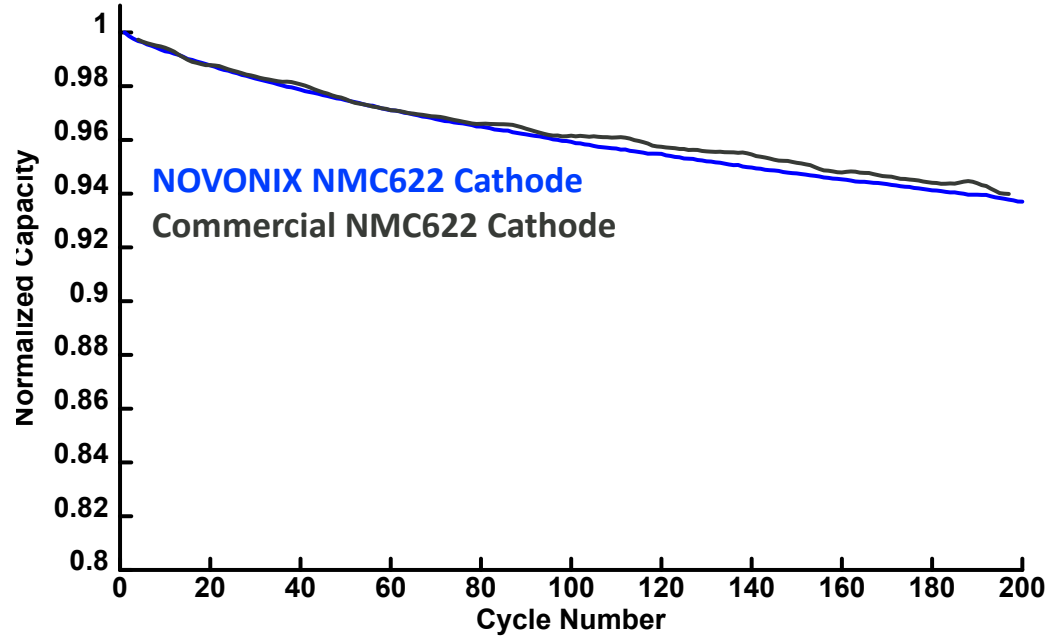
## Current Process vs. NOVONIX Process



1. Emergen Research: <https://www.emergenresearch.com/industry-report/cathode-materials-market>. 2. J.Power Sources: S. Ahmed, P.A. Nelson, K.G. Gallagher, N. Susarla, D.W. Dees. Cost and energy demand of producing nickel manganese cobalt cathode material for lithium ion batteries

# Cathode Cycle Performance Similar to Commercial Material

## Full Cell Cycling Performance of NOVONIX Single Crystal NMC622

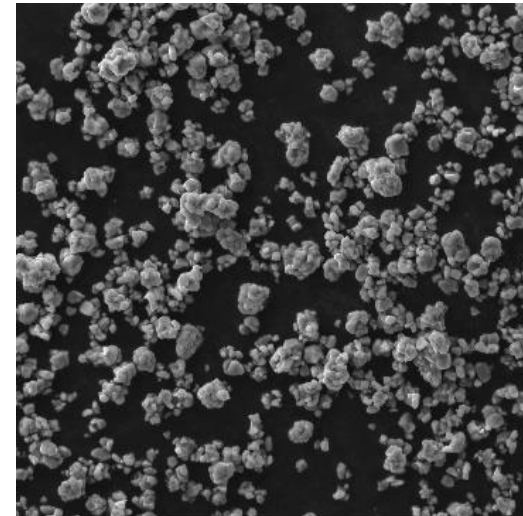


Product	Reference NMC622	NOVONIX NMC622
Capacity at c200 (%)	94.4%	94.1%
First Cycle Efficiency (%)	84.9%	84.9%

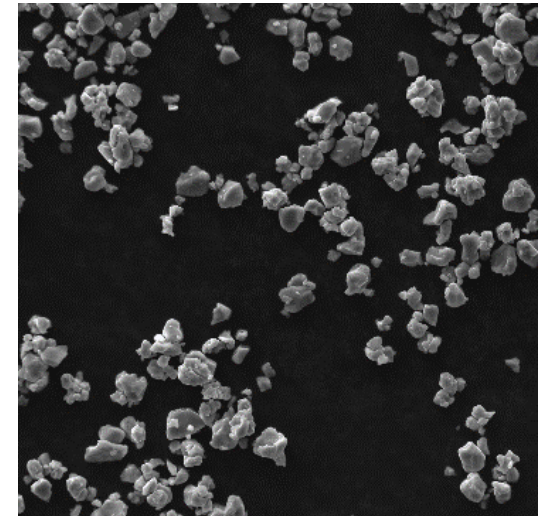
40°C; 1.2M LiPF<sub>6</sub> EC:EMC:DMC(25:5:70)+3VC; [Charge] : CC-0.33C; [Discharge] : CC-0.33C

## Enhanced Production Process Yields Consistent Performance

- Normalized electrochemical results in 1Ah pouch cell show that NOVONIX NMC622 has comparable electrochemical performance to commercial NMC materials

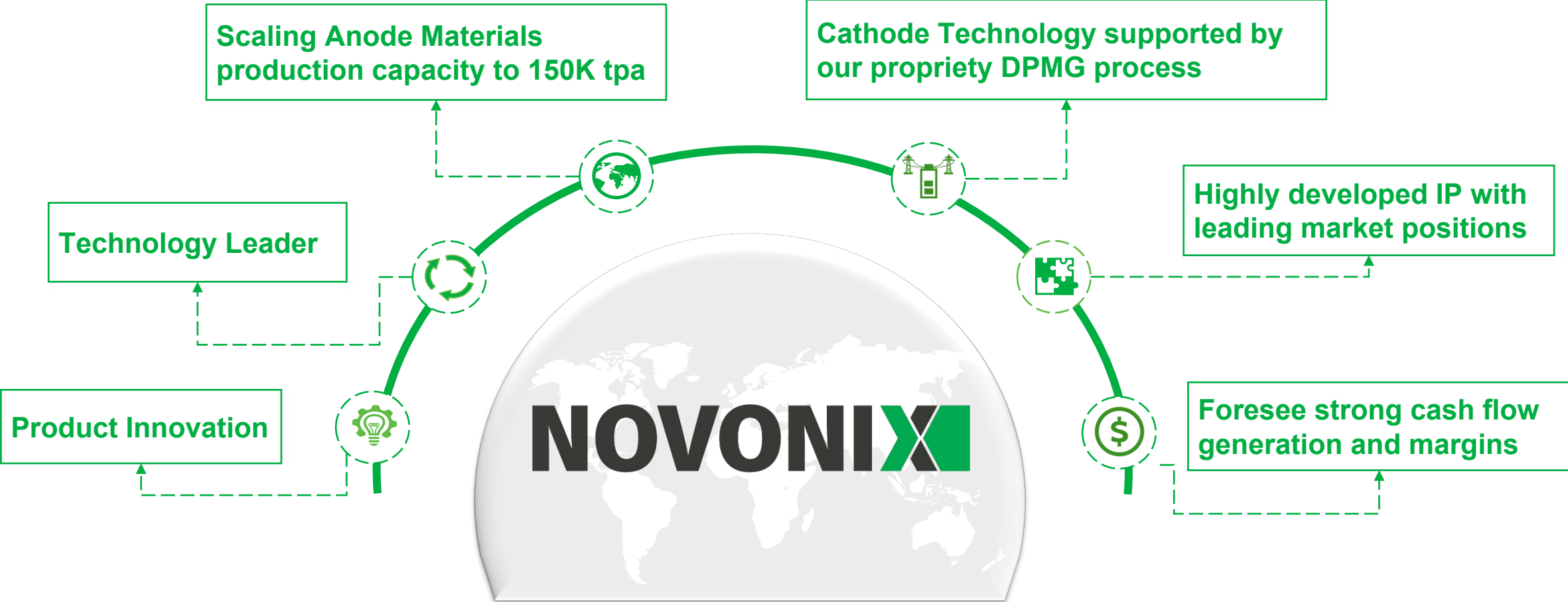


Reference NMC622



NOVONIX NMC622

# Goals for the Future of NOVONIX







# APPENDIX

# NOVONIX Continues to Progress its Commercialization Plan



2017: BTS enabling NAM to accelerate sampling of anode product



2019: Foundational Agreements and Strategic Relationships



Jan 2022: Largest U.S. based battery grade synthetic graphite contract signed with KORE Power



Oct 2022: \$150 Million in DOE grant funding awarded to NOVONIX to expand its domestic production of high-performance, synthetic graphite anode materials



Tier-1 Contracts to Support 30,000+ tonnes Greenfield Facilities

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

## DOE Project Team Goals



**World Leader in  
Petroleum Coke  
Production**

- Houston, TX
- Multiple U.S. 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 U.S. 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  
Initial "Generation 3" furnace system was installed at NOVONIX in 2021

# Strategic Relationship with KORE Power

## Highlights of Agreements



General Counsel of the Arizona Commerce Authority, Buckeye Mayor Eric Ehrenfeld, State Senator Clayton Korte, and KORE Power CEO Lindsay Scott announce KORE's investment in Buckeye.

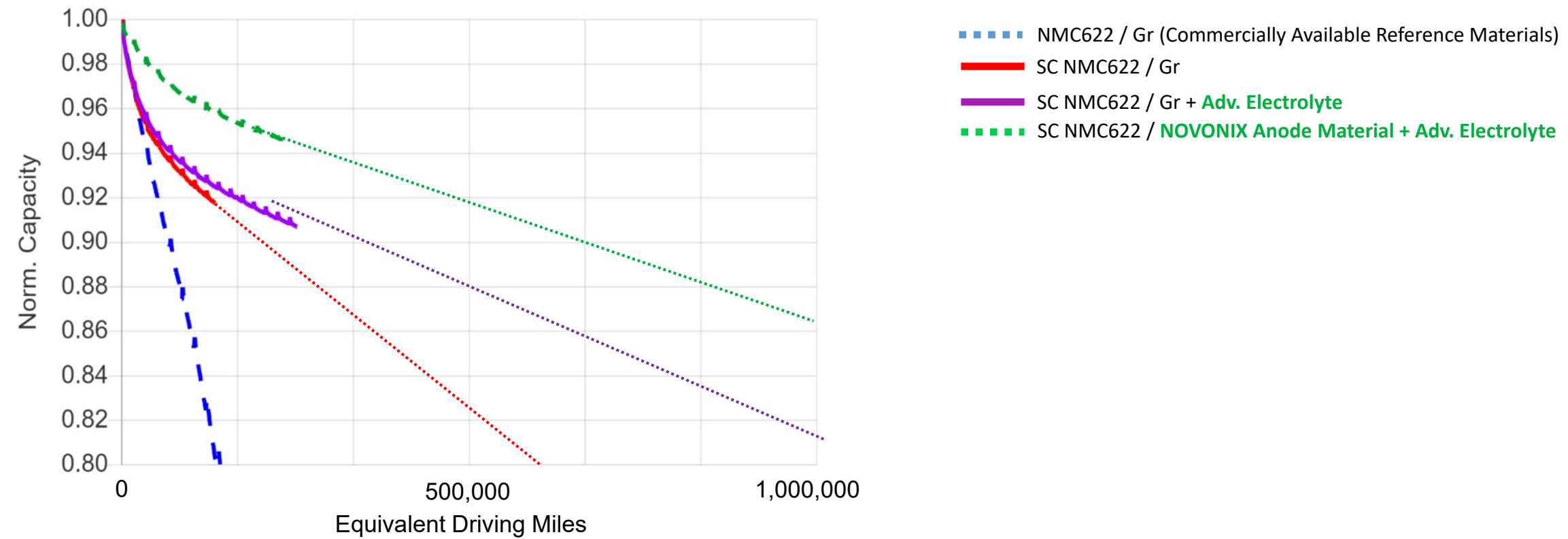
KORE Power to invest \$1B in Buckeye

[www.westvalleyview.com](http://www.westvalleyview.com)

- KORE Power is a leading U.S. 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 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

# NOVONIX's Battery Cell Technology paves the way for the Next Generation

Demonstrated and Projected Performance Predicted to Exceed 1 Million Miles<sup>(1)</sup>



**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 verification process. 40°C full depth of discharge cycling, Assumed 330-mile range. Projection lines shown for guidance. SC NCM622 shown here is Commercial SCC reference material.

# NOVONIX Enters "Phase 2" of DOE Loan Programs Office Process

## Department of Energy Loan Programs Office

- DOE Loan Programs Office has \$15.1 billion in loan authority to support the manufacture of eligible light-duty vehicles and qualifying components under the Advanced Technology Vehicles Manufacturing Loan Program (ATVM), authorized by the Energy Independence and Security Act of 2007, providing debt capital at U.S. Treasury rates.
- In late 2022, NOVONIX formally submitted its application for a loan under the ATVM program. The loan, if received, would contribute toward funding the company's current expansion of battery materials capacity for the production of synthetic graphite to support the United States EV and ESS supply chain.

## DOE LPO Loan Process



Source: DOE Loan Programs Office Website

# Contact Information

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