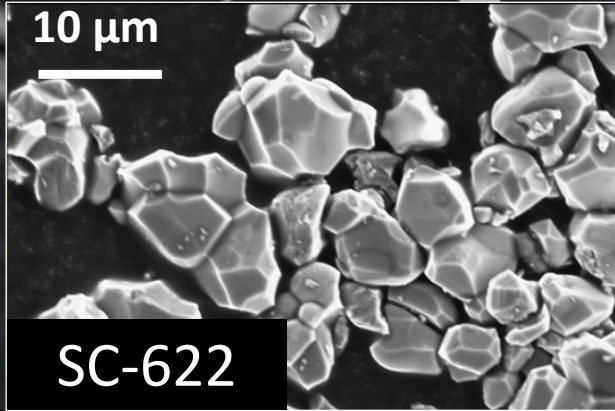
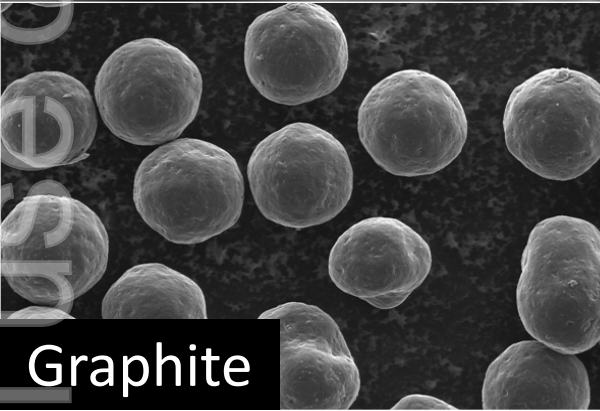




NOVONIX LIMITED (ACN 157 690 830)



AGM Presentation  
17 NOVEMBER 2020

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- This announcement has been authorised for release to the ASX by the Group CEO, Chris Burns.

# Contents

## Contents

- Company overview
- FY2020 Highlights
- Market update and NOVONIX technology roadmap
- Status of PUREgraphite Anode Materials
- Cathode materials and DPMG technology update
- FY2021 Outlook
- Contact Information

## Financial Summary

### STOCK INFORMATION @ 16 November 2020

ASX Code	NVX
ASX Share Price	A\$1.115
52 Week Low – High	A\$0.129 – A\$2.40
Shares on issue	351,615,637
Market Capitalisation	A\$392M

### CASH POSITION @ 30 September 2020

Cash Available	A\$33.4M
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### FINANCIAL INFORMATION FY2020

Revenue	A\$4.3M
Total Assets @ 30 June 2020	A\$75.3M
Total Liabilities @ 30 June 2020	A\$8.7M



# Company Overview



**NOVONIX Limited**

ASX: NVX

OTCQX: NVNXF



**Battery Technology Solutions**

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



**PURE** graphite  
Anode Materials

- First contracted supplier of US-made high-capacity long-life synthetic anode
- Conditional sales agreement with Samsung SDI December 2019
- Non-binding MOU agreement with SANYO January 2020



**Cathode Materials**

- Leveraging NOVONIX DPMG technology
- Ground floor patents in for new tech
- Single crystal and Polycrystalline cathodes
- Installing pilot scale processing



November 2020

ASX: NVX

OTCQX: NVNXF

# FY2020: A Banner Year in Novonix's Business Plan

## Corporate

- Completed \$63M capital raise
- Repaid all debt
- Funding for PUREgraphite Phase 1 plan to 2,000 tpa and for cathode technology commercialization plan
- North American OTCQX Listing Established: NVN XF (September 2020)

## PUREgraphite Anode Material

- Signed first sales contract – 500t with Samsung SDI
- Signed MOU with Sanyo
- Initiated production
- Continued product and process development

Phase 1 (Initial Ramp-up)	
Timeline	• 2020 - 2021
Capacity	• Ramp to 2K tons/yr

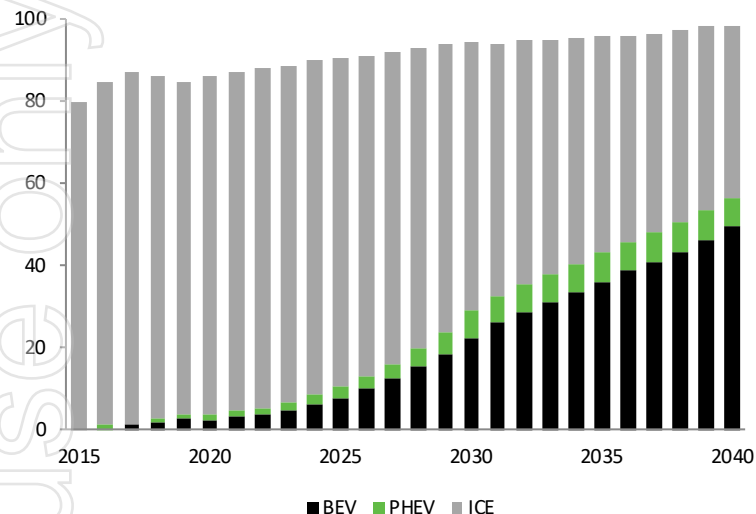
## Battery Technology Solutions (BTS)

- Strong revenue growth
- Expanded team and customer base
- Patent application filings around graphite-silicon composites, dry-particle microgranulation for anode and cathode processing

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

## More Electric Vehicles

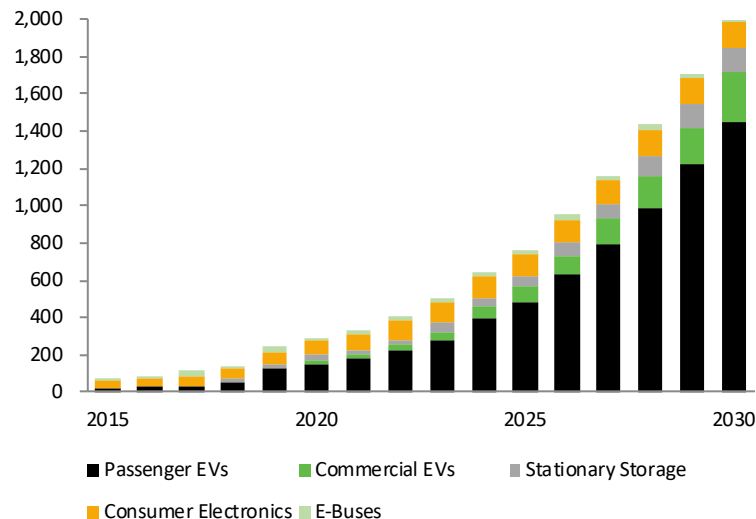
EV Sales, Millions



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

## More Batteries

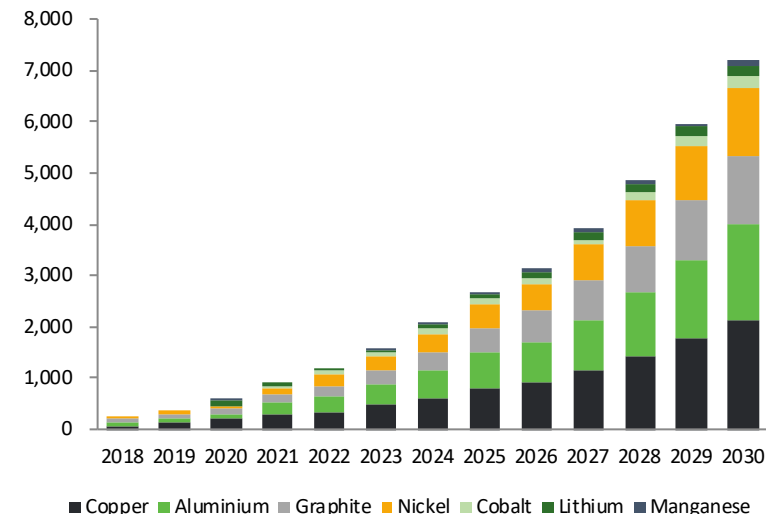
Annual Lithium-Ion Battery Demand, GWh



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

## More Battery Materials

Materials Demand, Thousand Metric Tons














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

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

Source: Avicenne Energy 2020

# Battery Growth is Happening in the US Now

## Current US Gigafactory Pipeline

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

- The U.S. expects to have 130 GWh online by 2023
- Tesla announced potential “Terafactory” in Austin, TX
- Europe expects to have 198 GWh by 2023, and has signaled more than 400 GWh in the pipeline

Source: Company press releases and Avicenne Energy.

# The Quest for the Million-Mile Battery

## Million-Mile Battery requires three critical elements:

### Requirement

### NOVONIX

#### Long-life Anodes

- **PUREgraphite Anode** – developed & scaling

#### Long-life Cathodes

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

#### Long-life Electrolytes

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

**NOVONIX has all three elements in-house**

CAR NEWS

## GM VS TESLA FOR THE MILLION-MILE BATTERY

22 MAY 2020



ALEX RAE

NEWS A day ago

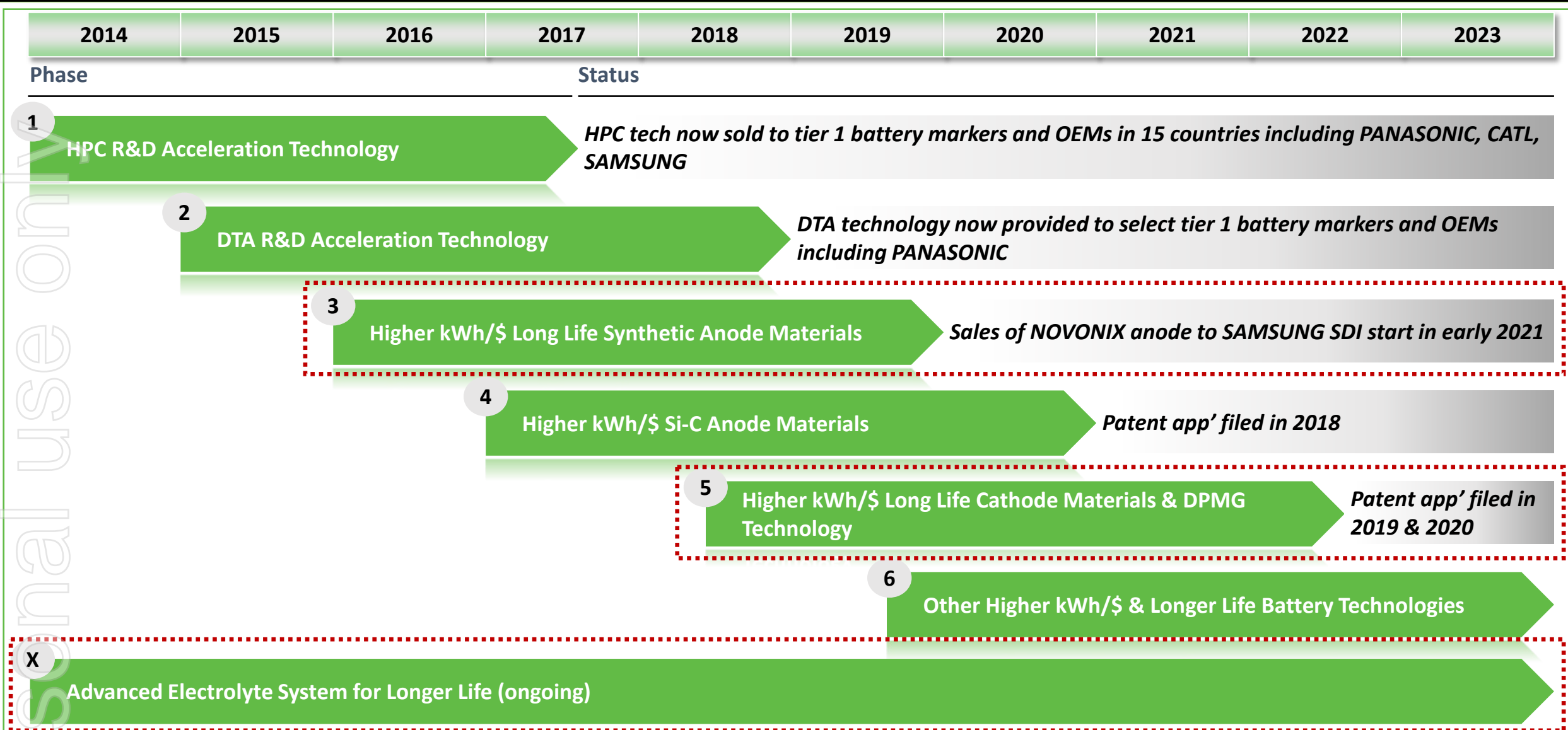
General Motors' million-mile battery is almost there'

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

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

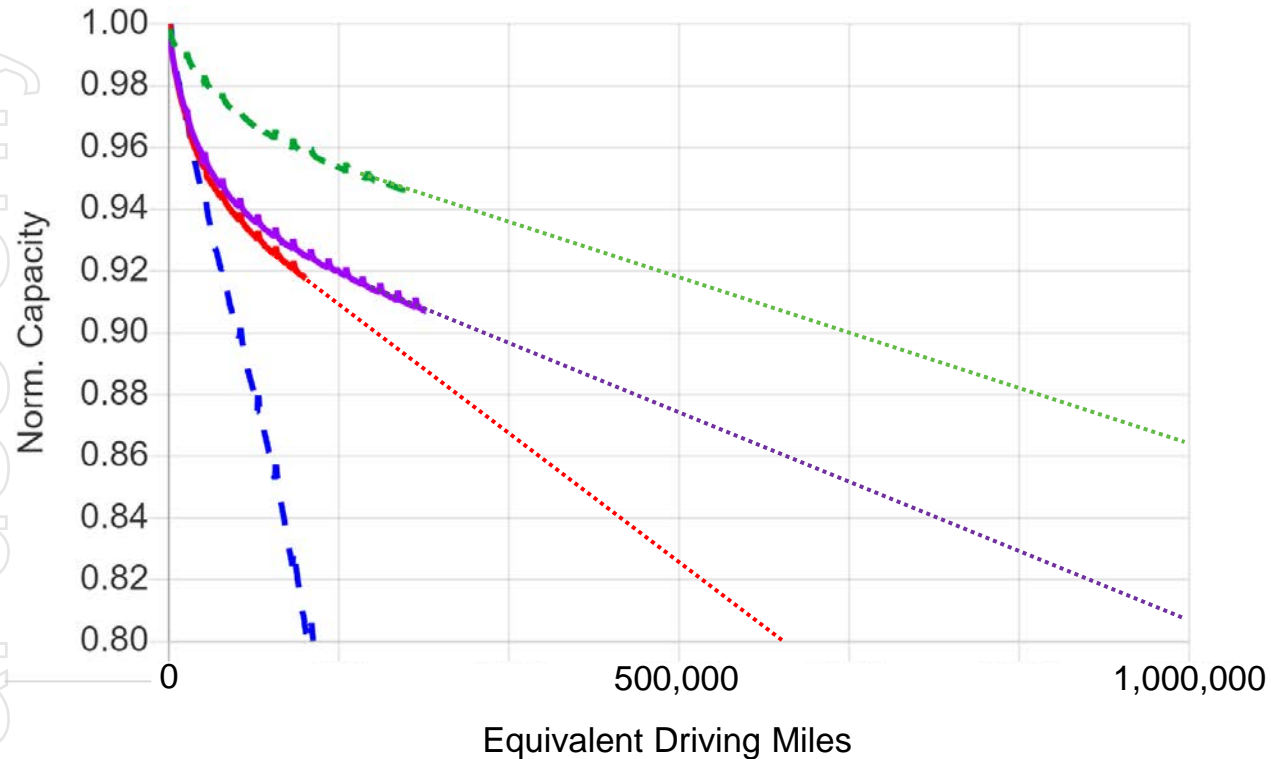


# Group Technology Roadmap



# NOVONIX's Complete Battery Cell Technology

## Demonstrated and Projected Performance Predicted to Exceed 1 Million Miles



- SC NMC622 / PUREgraphite + Adv. Electrolyte
- SC NMC622 / Gr + Adv. Electrolyte
- Single Crystal (SC) NMC622 / Gr
- Li[Ni<sub>0.6</sub>Mn<sub>0.2</sub>Co<sub>0.2</sub>]O<sub>2</sub> (NMC622) / Gr  
(Commercially Available Reference Materials)

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

# PUREgraphite Activities

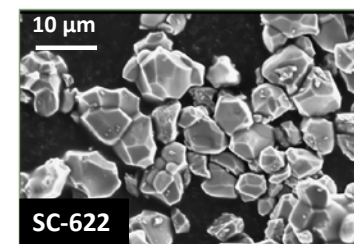
## Commercial Developments

- Samsung SDI Contract
  - Delivery of initial quantities of PUREgraphite material to Samsung SDI during 2020
  - Cell mass production at Samsung SDI with PUREgraphite material scheduled to commence April 2021
- Sanyo MOU
  - Next steps is evaluation of production line material moving towards commercial contract negotiation
- Customer Development
  - Samples issued to other prospective customers under confidentiality agreements; positive feedback received
  - New engagements with cell manufacturers, auto OEMs (Original Equipment Manufacturers) and ESS (Energy Storage Systems) focused companies
- Product and Technology Development
  - Leveraging established relationships with supply chain partners
  - Development of new process technology for improved product performance and scalability
  - Continued product development with improved materials produced at pilot scale on test at Novonix BTS

# Cathode Development Update

## Intellectual Property Generation and Pilot Scale Production

- Continued work with Dr. Mark Obrovac's group at Dalhousie and internal team on new IP generation
- Pilot scale cathode equipment and analytical lab on track to be running by end of CY2020 as initially planned
- Working with potential lithium suppliers (Lake Resources and others) in the process expanding on precursor production and final cathode production
- Focus of technical work:
  - High Nickel Cathode Materials, Including Cobalt-Free
  - Dopant and Coatings for Improved Performance
  - Single Crystal Cathode (SCC) and Polycrystalline Cathode Processes



Metal Oxide Inputs  
(Ni, Mn, Co, Al, etc.)



DPMG Processing



Sintering



Cell Production

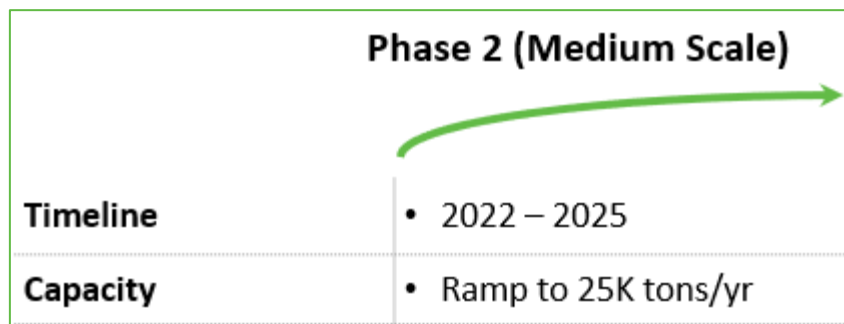


Cell Testing

# FY2021 Outlook

## PUREgraphite Anode Material

- Begin regular large volume deliveries for Samsung contract
- Progress Sanyo MOU supporting sample testing from production line
- Expand capacity towards 2,000 tpa funded target
- Continue advancement of additional customer development programs
- Integrate new processing technology to PUREgraphite production line
- Establish scale plan for Phase 2 growth plan



## Battery Technology Solutions (BTS)

- Continue strong revenue growth in services and hardware sales
- Renew sponsorship of Dr. Obrovac's group at Dalhousie University
- Expand IP portfolio on graphite-silicon materials and cathode materials
- Install multi kilogram-scale synthesis capabilities in-house using new patented processes
- Establish collaboration partnerships for further scale-up of cathode technology



# Contact Information

## CORPORATE

- **Chairman:**  
**Tony Bellas**  
Email: [tony@novonixgroup.com](mailto:tony@novonixgroup.com)
- **Group CEO:**  
**Dr Chris Burns**  
Email: [chris@novonixgroup.com](mailto:chris@novonixgroup.com)
- **Company Secretary and Financial Controller:**  
**Suzanne Yeates**  
Email: [suzie@novonixgroup.com](mailto:suzie@novonixgroup.com)
- **Group CFO:**  
**Nick Liveris**  
Email: [nick@novonixgroup.com](mailto:nick@novonixgroup.com)

**Send all investor queries to: [IR@novonixgroup.com](mailto:IR@novonixgroup.com)**

## OPERATIONS

### **BTS - Bedford, Nova Scotia, CANADA**

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



### **PUREgraphite - Chattanooga, Tennessee, USA**

353 Corporate Place, Chattanooga, TN, 37419, USA

