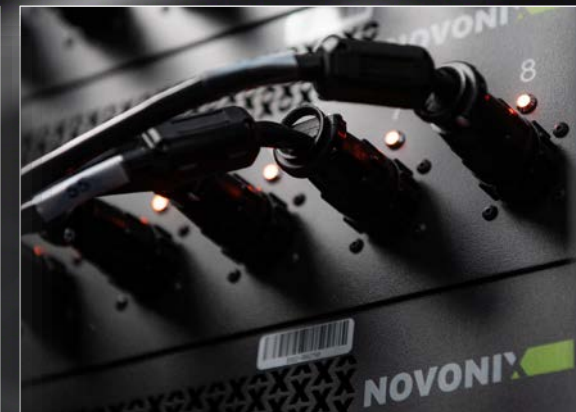
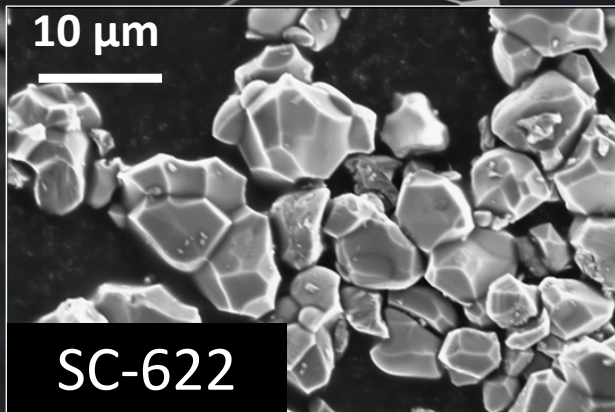
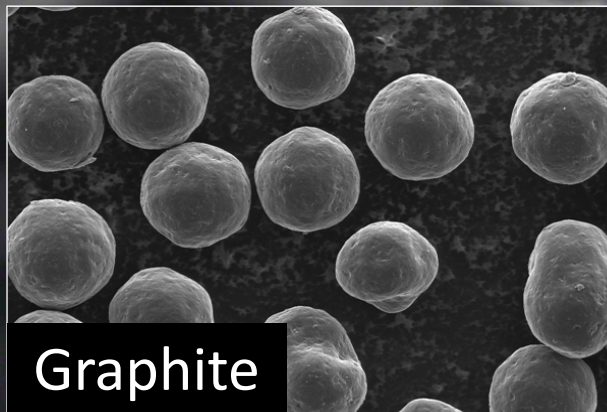




NOVONIX LIMITED (ACN 157 690 830)



Quarterly Activities Report  
October – December 2020

# Corporate Activities

## October – December 2020

- Launched Investor Newsletter – 20 October 2020
- Presented at Benchmark Week Conference – 8 December 2020
- Released Investor Newsletter #2 – 15 December 2020
- Announced becoming a founding member of the Zero Emissions Transportation Association (ZETA), the first industry-backed coalition of its kind advocating for 100% of vehicles sold by 2030 to be electric vehicles (EVs) – 22 December 2020
- Announced a strategic alliance with Harper International on specialized furnace technology for battery anode material – 22 December 2020
- Announced an update regarding the planned delivery schedule for the contract to supply Samsung SDI with 500 tons of the PUREgraphite synthetic anode material for use in lithium-ion batteries – 22 December 2020
- Cash balance as of 31 December 2020: \$25,286,000
- Post-December Quarter:
  - NOVONIX was added to the OTCQX Composite Index and the OTCQX International Index
  - Prof. Jeff Dahn appointed Chief Scientific Officer to the Company (effective July 2021)
  - Awarded US\$5.57M from U.S. Department of Energy for new furnace technology development
- NOVONIX continues to monitor clean energy policies in North America and Europe and liaison with relevant agencies where appropriate

## Agreements with Battery Makers



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

# PUREgraphite Activities (1/2)

October – December 2020

- Initiated transition plan from Generation 1 furnace technology to Generation 2 systems for qualification of full 2,000 ton per annum (tpa) planned plant capacity
  - Proprietary systems designed by Novonix and Harper to support improved economics in capital expansion and operational costs compared to current Generation 1 systems
  - First Generation 2 system to begin installation at PUREgraphite facility in February 2021
  - Current inventory held as work-in-progress awaiting Generation 2 systems to continue finishing for delivery to Samsung and others
  - Pilot line continued all normal operations for product development and customer sampling
- Product Development:
  - Processing of new precursor materials for lower cost and improved performance with strong performance results validating PUREgraphite processing as flexible to input materials
  - Targeted development programs for customer requested performance such as higher charge rate materials to support fast-charge vehicle applications

# PUREgraphite Activities (2/2)

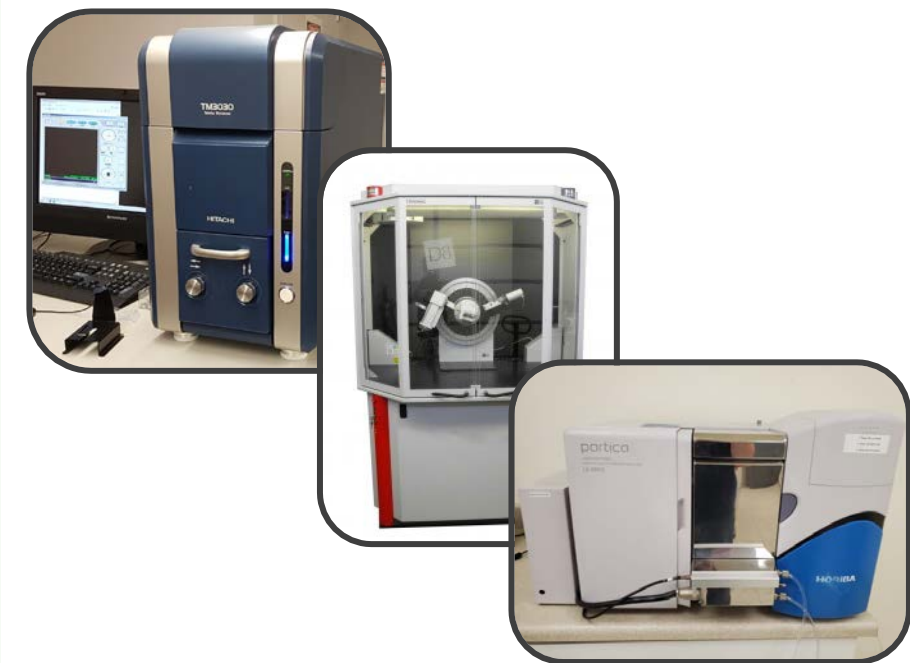
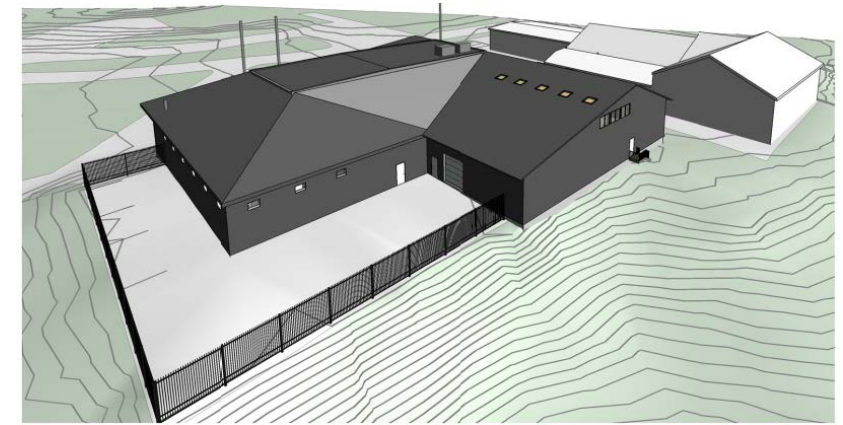
October – December 2020

- Customer Engagement:
  - Samsung and Sanyo will receive materials from Generation 2 furnace systems for mass production qualification after installation and commissioning
  - Samsung audit of PUREgraphite plant will now be targeted at Generation 2 furnace systems
  - Continued sampling programs with domestic and international battery manufacturers and automotive OEMs with strong feedback and desire to see demonstrated higher volume production
- Expansion Plans:
  - 2,000 tpa plant expansion on track, equipment all on order in various stages of assembly and field testing before shipment
  - Initiated expansion of lease to the additional 80,000 sq ft of current facility for beginning of FY22 or earlier
  - Began engagement on plant and equipment engineering review and design for Phase 2 plant (25,000 tpa)
  - Engaged in multiple potential technology partnership opportunities with international partners to enable faster global deployment of PUREgraphite's technology
- Post-December Quarter: Awarded US\$5.57M from U.S. Department of Energy for new furnace technology development

# Battery Technology Solutions (BTS) Activities

October – December 2020

- Strong revenue growth and engagement in new materials development and evaluation programs as well as downstream application projects
- Expanded staff and initiated build out of addition to existing BTS facility, adding ~65% additional space for continued growth in cathode commercialization and new development work
- Expanded cell building capability, dryroom and infrastructure to support increased workload
- New projects commenced for global customers in mobility, energy storage and consumer electronics
- Cathode Commercialization Activities:
  - Pilot line 90% commissioned with final piece of equipment delayed in shipping and will arrive in January
  - Analytical lab fully commissioned
  - Newly synthesized materials continuing electrochemical testing for internal qualification
  - Continued growth in IP with additional patent applications to be filed in early 2021
  - Engaged with multiple current commercial precursor and cathode suppliers



# 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, from research scale to full production line operations, Harper produces cutting edge innovative furnace designs for worldwide markets
- Harper specializes on processing materials at high temperatures up to 3000°C and in non-ambient atmospheres
- For additional information, visit [www.harperintl.com](http://www.harperintl.com) or email [info@harperintl.com](mailto:info@harperintl.com)



# Prof. Jeff Dahn appointed Chief Scientific Officer<sup>(1)</sup>

## Professor Jeff Dahn Overview

- Leading researcher in the field of lithium-ion batteries and materials
- Currently holds the title of NSREC/Tesla Canada Industrial Research Chair with Dalhousie University
- Long career across both industry and academia, and has spent the last 25 years as a professor at Dalhousie University, with support from 3M Company and most recently, from Tesla
- Co-authored 730 papers and has 73 inventions with patents issued or filed, including some of the early patents related to  $\text{Li}[\text{NiMnCo}]\text{O}_2$  (NMC) cathode material in 2001



Appointment effective July 1, 2021

# Contact Information

## CORPORATE

- **Chairman:**  
**Tony Bellas**  
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**Dr Chris Burns**  
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- **Group CFO:**  
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**Send all investor queries to: [IR@novonixgroup.com](mailto:IR@novonixgroup.com)**

This announcement has been authorised for release to the ASX by the Chairman, Tony Bellas.

## 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

