

# NOVONIX

ASX ANNOUNCEMENT  
(ASX: NVX)

23 July 2018

## NOVONIX'S BATTERY PILOT MANUFACTURING LINE OPERATIONAL

### HIGHLIGHTS

- NOVONIX's 100%-owned battery cell pilot manufacturing line is now fully operational
- First batches of batteries have been produced (cylindrical cells and pouch cells)
- This pilot line will transform NOVONIX's capabilities as it will accelerate the R&D cycle-time and reduce R&D costs
- The line will support in-house development activities and the provision of commercial battery development services to OEMs and other third-parties
- The pilot line is located at the NOVONIX manufacturing and research facility in Bedford (near Halifax) in Nova Scotia



*Photo: Images of 18650 cylindrical and small pouch format lithium-ion batteries in various stages of assembly at the NOVONIX battery cell manufacturing facility in Nova Scotia Canada*

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ASX-listed **NOVONIX Limited (ASX: NVX)** (“NOVONIX” or the “Company”) is pleased to announce that its 100%-owned battery cell pilot manufacturing line is now fully commissioned and operational, producing cylindrical cells and pouch cells.

This pilot line will transform NOVONIX’s capabilities as it will accelerate the R&D cycle time and reduce R&D costs; it will also provide significant benefits to other companies and institutions in North America.

Dr Chris Burns, Chief Operating Officer of NOVONIX Limited said that the Company’s new capability to build high quality, high performance battery cells provided a significant competitive advantage for its battery materials development and battery testing technologies.

The pilot line has been established to manufacture full size cylindrical and pouch format batteries to commercial standards to enabling head-to-head performance comparisons with commercial batteries in the market today.

“The pilot manufacturing line enables the manufacturing of high performance batteries incorporating all processes from slurry making, electrode coating, calendaring, winding, and assembly”, Dr Burns said.



*Photo: Professor Jeff Dahn of Dalhousie University with Dr Chris Burns NOVONIX COO inspecting the electrode slitting operation at the NOVONIX battery cell manufacturing facility*

The official opening of the cell line included plant tours by prominent battery industry leaders including Professor Jeff Dahn and Professor Mark Obrovac both from internationally recognized Dalhousie University also located in Halifax, Nova Scotia. Several private sector companies also visited with interest in accessing the pilot line to support their development efforts.

Professor Jeff Dahn said, “This cell line is a great addition to the battery R&D capabilities of the region and will add significant value over the long term.”

Chris Burns said “There has been strong interest from many companies and institutions in our cell line and what NOVONIX is doing and can offer to the battery industry. Many OEMs are

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now starting to look closer at the design and manufacturing of batteries as they become more critical to the performance and cost of the devices and equipment they sell.”



*Photo: Professor Mark Obrovac of Dalhousie University and Dr Chris Burns COO NOVONIX inspecting the electrode coating line at the NOVONIX battery cell manufacturing facility*

NOVONIX will be utilizing the cell line to support R&D in a wide range of battery material but with an initial focus on supporting the PUREgraphite R&D programs focused around optimized electrolyte formulations and silicon containing materials for additives to graphite anode materials.

## FOR FURTHER INFORMATION

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## ABOUT NOVONIX

**NOVONIX LIMITED** (ASX: NVX) is an integrated developer and supplier of high performance materials, equipment and services for the global lithium-ion battery industry with operations in the USA and Canada and sales in fourteen countries. NOVONIX is co-owner of the PUREgraphite anode material Joint Venture, headquartered in Chattanooga, Tennessee, USA. The Company also owns a world-class, large and high-grade natural graphite deposit in Australia.

NOVONIX's mission is to enable and accelerate the adoption of batteries for a cleaner energy future

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