



# ASX Announcement

## MOU SIGNED WITH PBT TO INVESTIGATE BATTERY MATERIALS REFINERY IN WA

13 October 2021

### KEY POINTS

- Pure Battery Technologies (PBT) is advancing plans to build and operate a battery material refinery hub in Kalgoorlie, WA
- PBT is targeting initial production of up to 50,000tpa of precursor Cathode Active Material (pCAM) from the refinery, expandable over time
- Poseidon has signed an MoU with PBT whereby Poseidon and PBT will study the suitability of Poseidon's potential nickel concentrate production from Black Swan and/or Lake Johnston as feed to the proposed refinery

**Poseidon Nickel (ASX: POS, "the Company")** is pleased to advise that the Company has entered into a Memorandum of Understanding (MoU) with PBT to study the merits of Poseidon supplying nickel concentrate to PBT's proposed pCAM refinery planned to be constructed in WA.

Managing Director and CEO, Peter Harold, commented: *"We look forward to working with PBT to determine if our potential concentrate production could be feed for PBT's proposed refinery, should we decide to proceed with development of our projects. This could be a great way for us to improve the payability of the nickel in our concentrates and improve the margins of our projects."*

### DETAILS

Pure Battery Technologies (PBT) is an Australian based company with an international nickel and cobalt refining operation in Germany (owned via a subsidiary company) that is advancing its plan to establish a refinery in Western Australia to produce precursor Cathode Active Material (pCAM) battery metal products. Initial studies will focus on initial production of up to 50,000tpa of pCAM.

PBT and Poseidon have entered into a Memorandum of Understanding (MoU) whereby Poseidon and PBT will evaluate the establishment of a regional pCAM refining hub. Under the MoU PBT will provide its in-house technology and expertise, and Poseidon will provide typical specifications and anticipated production volumes of nickel concentrate from Poseidon's projects as potential base feed for the proposed refinery, should Poseidon decide to develop its projects and supply concentrate to the proposed refinery.

The ultimate objective is for the parties to execute a Definitive Agreement that will detail how the parties can work together to fund and develop a regional supply chain from mine to concentrate, to an intermediate mixed nickel cobalt hydroxide product that will be further refined in PBT's refinery using PBT's patented technology to produce products suitable for the battery manufacturing markets.

The MoU notes that obligations of the parties under the MoU are not binding or enforceable unless and until a Definitive Agreement has been entered into. The MoU has been drafted to not hinder any other transactions or processes for either PBT or Poseidon to bring their respective products to market, either currently underway or future opportunities.

**Peter Harold**  
Managing Director & CEO  
13 October 2021

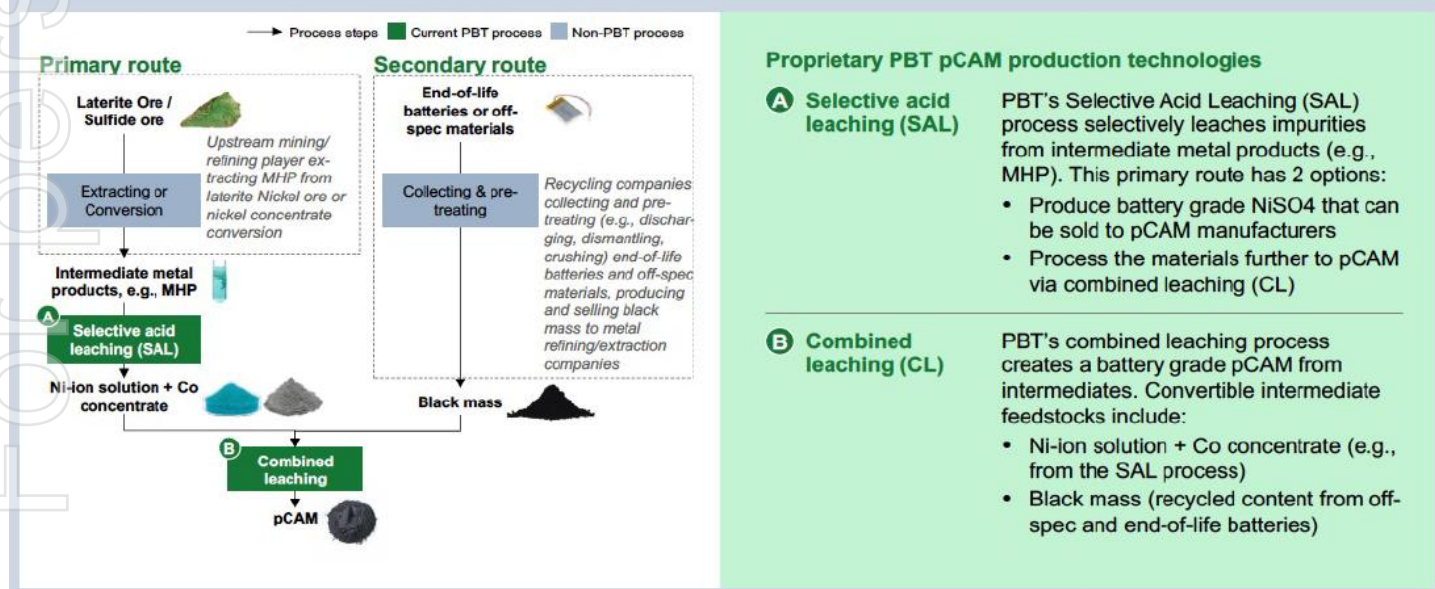
For further information contact Peter Harold: + 61 (0)8 6167 6600

*The announcement was authorised for lodgement by the board of Poseidon Nickel Limited.*

## About Pure Battery Technologies (PBT)

Pure Battery Technologies Pty Ltd (PBT) was established in 2017 and is headquartered in Queensland. PBT commercialised and patented the Selective Acid Leaching (SAL) process. The SAL process was developed by the University of Queensland and has been commercially proven to produce high-quality, more affordable nickel and cobalt battery materials with a lower environmental footprint. PBT currently utilises Mixed Hydroxide Precipitate (MHP) to produce nickel and cobalt materials for Lithium-Ion Batteries (LIB).

## PBT's technology can be used for both primary and secondary production



PBT's technology can also be used to recycle existing LIB materials creating a closed-loop lifecycle for these critical battery minerals. In September 2020, PBT acquired an existing refinery in Hagen, Germany, providing a base to demonstrate the commercial viability of PBT's technology. PBT is a publicly unlisted company. Further information on PBT can be found at [www.purebatterytech.com](http://www.purebatterytech.com)

## About Poseidon Nickel Limited

*Poseidon Nickel Limited (ASX Code: POS) is a nickel sulphide exploration and development company with three projects located within a 300km radius of Kalgoorlie in the Goldfields region of Western Australia and a resource base of around 400,000 tonnes of nickel and 180,000 ounces of gold.*

*Poseidon's strategy is focused on the exploration and eventual restart of its established nickel operations in Western Australia where project risk capital and operating costs are low. A critical element of this strategy has been to acquire projects and operations with high levels of geological prospectivity likely to lead to potential substantial extension of the operation's life through the application of modern exploration techniques.*

*Poseidon owns the Windarra, Black Swan and the Lake Johnston Nickel Projects. In addition to the mines and infrastructure including concentrators at Black Swan and Lake Johnston, these projects have significant exploration opportunities demonstrated by the discovery of the Abi Rose deposit at Lake Johnston and the recent discovery of the Golden Swan mineralisation at Black Swan. The Company is also recently completed a Definitive Feasibility Study on retreating the gold tailings at Windarra and Lancefield given the strength of the A\$ gold price.*