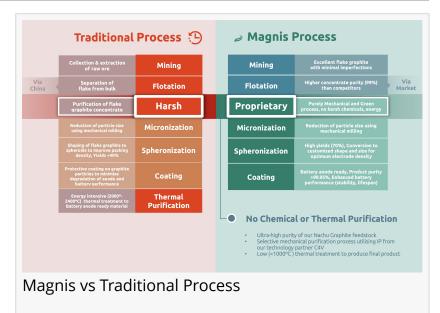


Magnis announces plans for Lithium-Ion Battery Anode Active Material (AAM) Manufacturing Plant

Magnis plans to become a superior anode material supplier to meet the booming demand from the global Lithium-ion battery market

SYDNEY, NSW, AUSTRALIA, October 13, 2022 /EINPresswire.com/ -- • Plans to establish a downstream anode active material (AAM) processing plant with a number of locations in the US being investigated

• Plans to become a superior anode material supplier to meet the booming demand from the global Lithium-ion battery market



• Strong alignment with Magnis' vision of vertical integration of strategic assets in Lithium-ion battery supply chain

• Secure supply of high-grade flake graphite feedstock from Magnis' Nachu Graphite project in Tanzania

• Innovative and sustainable graphite anode processing technology eliminating harsh chemical and thermal purification

• Over 6 years of Pilot Plant testing in New York shows significant low-energy, low-cost downstream operations producing high performing materials

• Advanced discussions with several potential offtake partners to produce and supply AAM

Magnis Energy Technologies Ltd ("Magnis", or the "Company") (ASX: MNS; OTCQX: MNSEF; FSE: U1P) is excited to announce its plans to establish a Lithium-ion battery Anode Active Material (AAM) manufacturing plant utilising high quality and high purity natural graphite feedstock from its wholly owned Nachu graphite project in Tanzania.

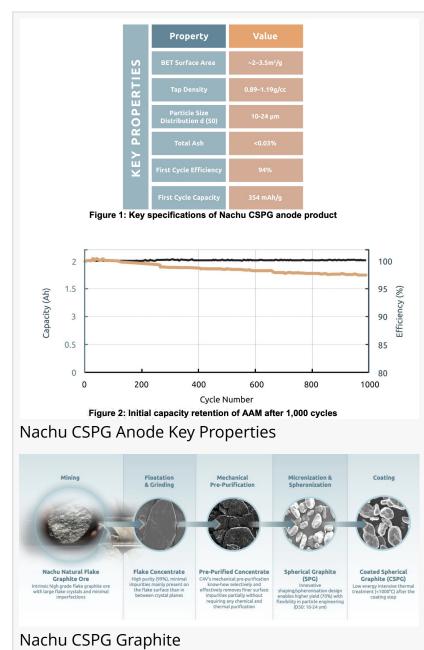
This downstream AAM production facility will deliver a secured supply of one of the most sustainable, cost-competitive, high-quality, and high-performance Coated Spherical Graphite (CSPG) anode products in the marketplace for the ever-growing US and European Lithium-ion

battery market. The proposed AAM processing facility will strengthen Magnis' vision of vertically integrating its strategic assets across the lithiumion battery value chain, as well as meeting the growing supply deficit of critical materials for the broader Lithium-ion battery market. Several locations within the United States are currently being investigated.

Currently, Magnis is in advanced discussions with several potential offtake partners to produce and supply AAM. Magnis has plans for the phased production of AAM, commencing with the operations of a demonstration plant followed by setting up a largescale CSPG AAM production facility in the US in the next 3 to 5 years. The demonstration plant aims to supply the AAM for the qualification process with the OEMs and Lithium battery cell manufacturers.

Nachu Flake Graphite

Magnis' recent successful completion of the bankable feasibility study (BFS) update confirmed the viability of the Nachu Graphite Project in Tanzania to



produce and supply high-purity graphite anode feedstock at a commercial scale for the rapidly growing Lithium- ion battery market.1

Magnis has continuously demonstrated the production of a high performance, commercial Lithium-ion battery grade (>99.95%) CSPG-based AAM from its Nachu graphite feedstock in Tanzania with the help of its strategic technology partner, C4V.

Anode Technology

C4V and Magnis have developed a proprietary graphite anode processing technology at its pilot facility located at the Binghamton University in New York operating over the last six years using lab scale equipment.

C4V's innovative and scalable processing technology which utilizes a purely mechanical downstream processing approach has eliminated the need of any harsh chemical and thermal

purification producing significantly low-energy and low-carbon footprint anode product compared to traditionally produced products.

At the pilot facility, product has been constantly produced with higher yield (~70%) compared to the conventional graphite anode plant yield (~40-50%). Magnis' CSPG AAM produced at C4V's pilot facility has been validated in commercial graded cells by C4V and Magnis' subsidiary Imperium 3 New York (iM3NY), which recently commenced the commercial production of Lithium-ion battery cells at its Gigafactory facility in New York.2 Magnis has an exclusive licensing agreement with C4V to use and commercialize the AAM processing technology globally.

Demonstration Plant

The demonstration plant will validate and demonstrate the scalability of Magnis' AAM processing technology at a commercial scale and will further facilitate the expansion to a large-scale production capacity.

High Performing Results

Recent electrochemical battery performance of Nachu AAM has been extensively tested, validated and qualified using commercial graded Lithium-ion battery cells. These commercial graded cells have had over 1000 cycles while retaining over 90% of its initial cell capacity which demonstrated an excellent lifespan of the Nachu CSPG AAM and its readiness for the next step of commercialisation.

Magnis Chairman Frank Poullas commented: "After many years of developing a process based on our Nachu Graphite we are excited to announce our plans to produce AAM materials."

"We are confident that the intrinsic high-purity Nachu graphite feedstock comprising of large crystal structure with minimal imperfections and C4V's unique processing technology will produce and deliver a superior AAM product compared to the competitors in the marketplace.

"With the huge shortage of AAM in the marketplace right now, we look forward to producing sustainable, cost competitive and high quality anode materials."

Group Communications Manager Magnis Energy Technologies +61 426 042 590 con.hoursalas@magnis.com.au

This press release can be viewed online at: https://www.einpresswire.com/article/595613752

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire[™], tries to define some of the boundaries that are reasonable

in today's world. Please see our Editorial Guidelines for more information. © 1995-2022 Newsmatics Inc. All Right Reserved.