



Enhancing sustainability through new European battery materials

Green Auto Summit
Stuttgart, Germany
Talga Group (ASX:TLG)

Cautionary Statement and Disclaimer

Talga Group Ltd ACN 138 405 419 (the Company) is the issuer of this presentation.

Niska Scoping Study

The Niska Scoping Study is a preliminary technical and economic study of the potential viability of developing the Nunasvaara North, Niska South and Niska North graphite deposits by constructing an integrated mining and refining operation to produce Talga's anode products for Li-ion batteries. It is based on low level technical and economic assessments that are not sufficient to support the estimation of ore reserves or to provide assurance of an economic development case. Further evaluation work and appropriate studies are required before the Company will be in a position to estimate any ore reserves or to provide any assurance of an economic development case or certainty that the conclusions of the Niska Scoping Study will be realised. The Niska Scoping Study is based on the material assumptions outlined in the announcement of 7 December 2020. These include assumptions about the availability of funding. While Talga considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the Niska Scoping Study will be achieved. To achieve the range of outcomes indicated in the Niska Scoping Study, funding in the order of US\$1,000 million plus contingencies may be required. Investors should note that there is no certainty that the Company will be able to raise that amount of funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of the Company's existing shares. It is also possible that the Company could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the project. If it does, this could materially reduce the Company's proportionate ownership of the deposits covered by the Niska Scoping Study. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the Niska Scoping Study.

Forward-looking statements

This presentation contains forward-looking statements. Those forward-looking statements reflect views held only as at the date of this presentation. Any such statement is subject to inherent risks and uncertainties. Actual events or results may differ materially from the events or results expressed or implied in any forward-looking statement, and such deviations are both normal and to be expected. Recipients must make their own assessment about the likelihood of a matter, about which a forward-looking statement is made, occurring. The Company makes no representation about the likelihood of a matter, about which a forward-looking statement is made, occurring. The Company and its directors, employees, agents, advisers and consultants: give no representation or warranty to a recipient of this presentation as to the accuracy or completeness of the statements contained in this presentation or in relation to any other matter; and to the fullest extent permitted by law, disclaim responsibility for and have no liability to a recipient of this presentation for any error or omission in or for any statement in this presentation, including any liability arising from negligence.

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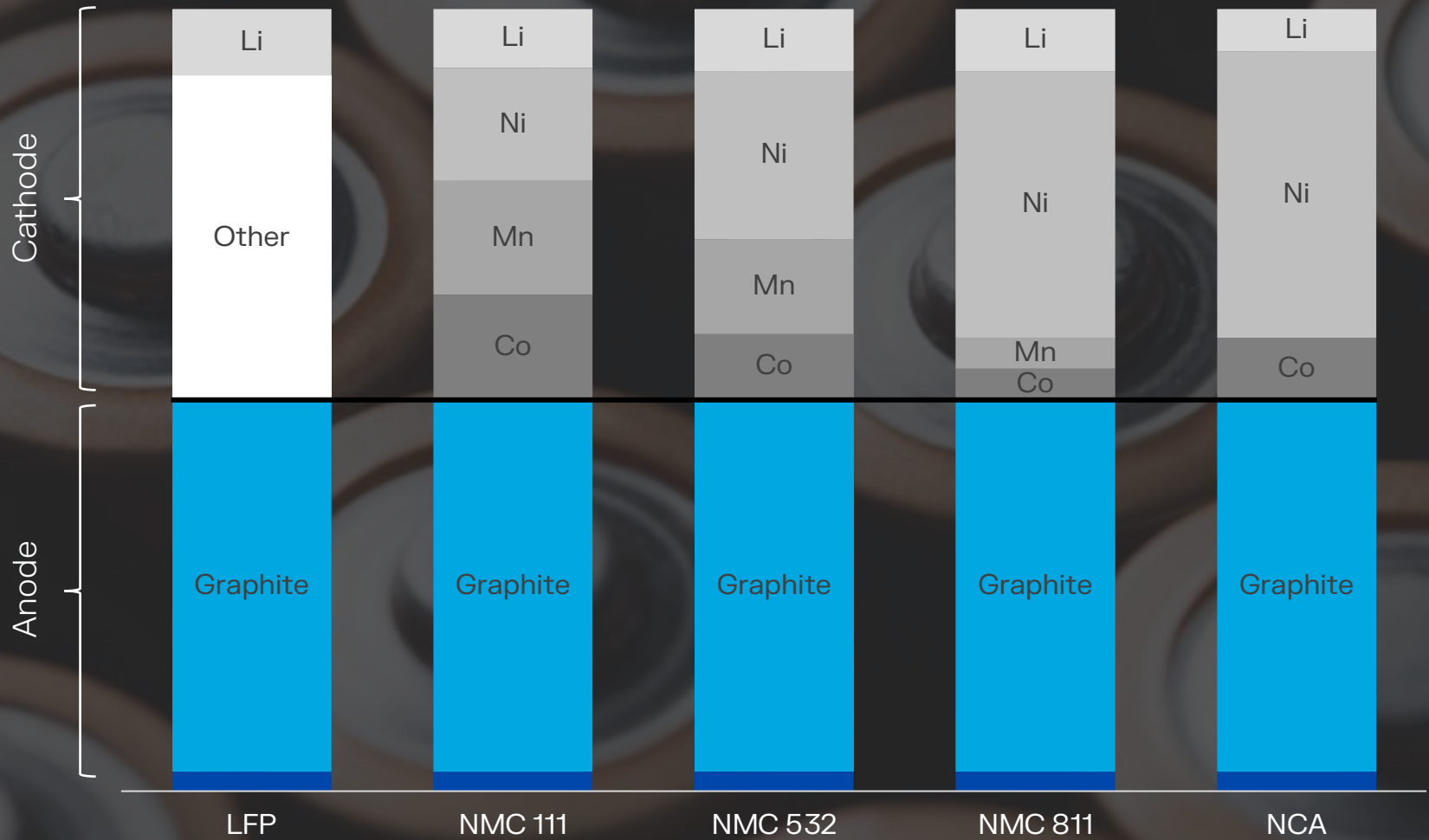
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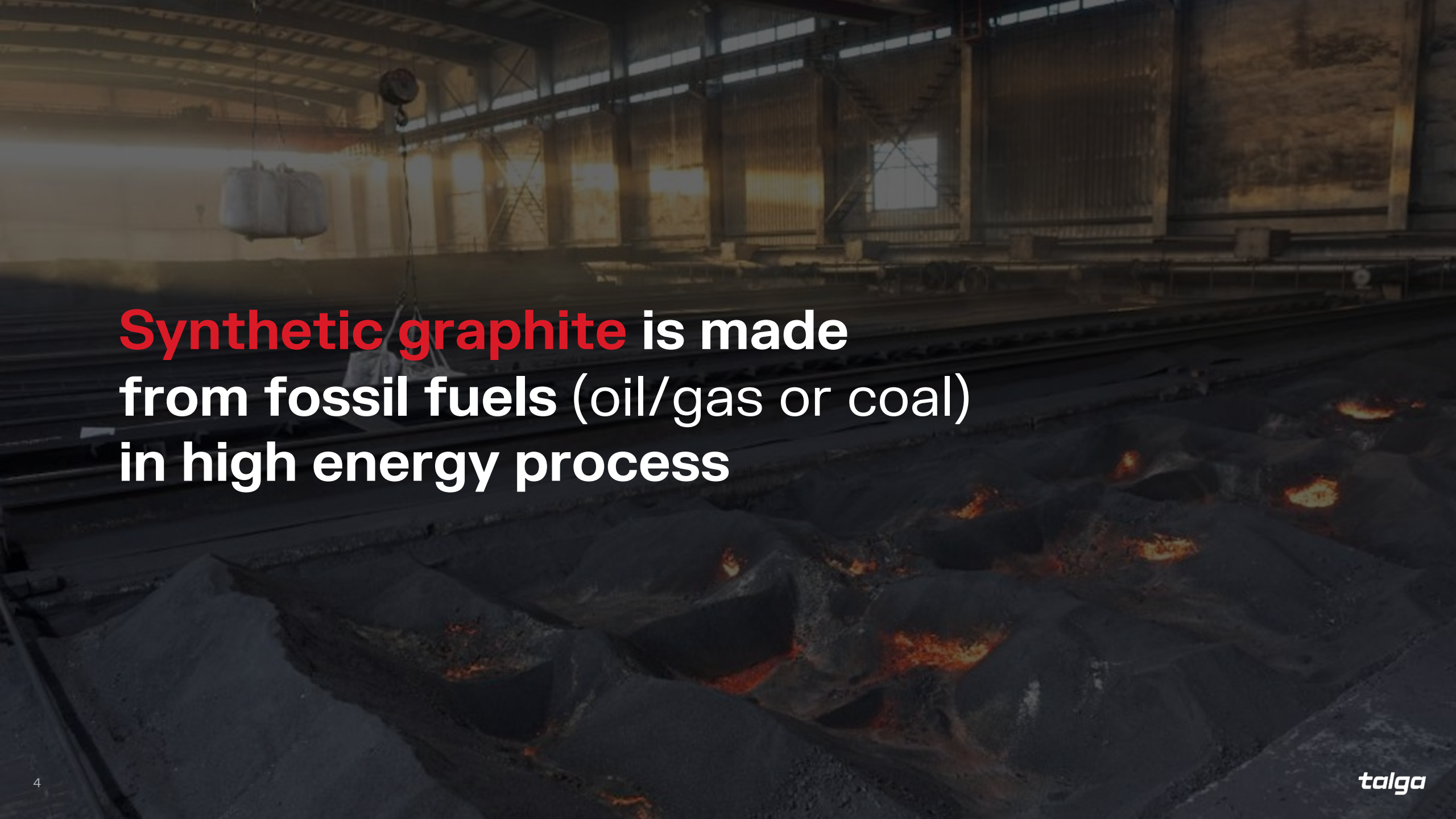
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Graphite is largest **volume** material of Li-ion cell



! ~50% of battery active material is graphite

A large industrial facility, likely a steel mill, with a high ceiling and structural beams. In the foreground, there are large, dark, rectangular blocks of material, possibly molten metal or slag, with bright orange and yellow flames or sparks rising from them. In the background, a large white bag is suspended from a crane. The overall scene is dimly lit, with the primary light source being the intense heat of the molten material.

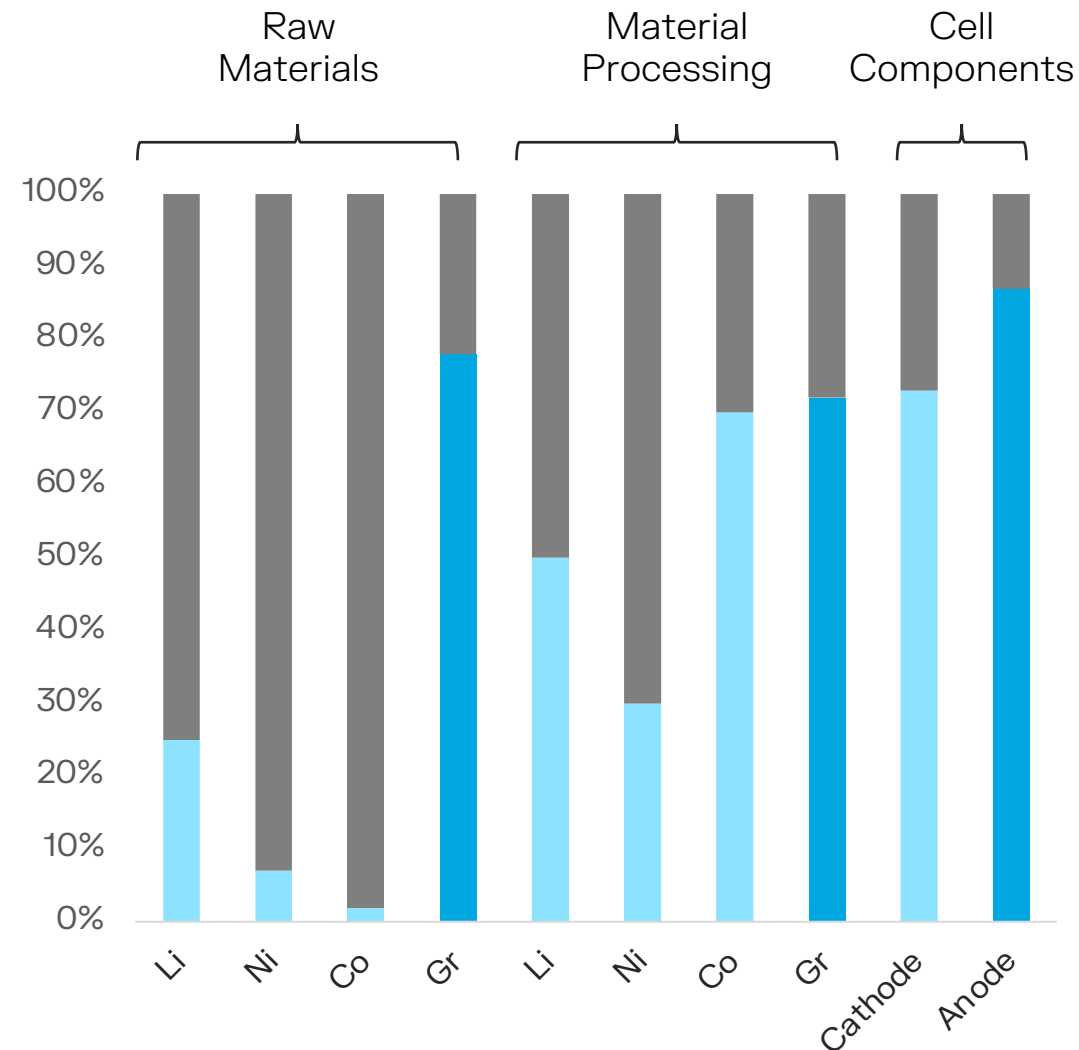
Synthetic graphite is made
from fossil fuels (oil/gas or coal)
in high energy process

Graphite has major carbon footprint in cell



Graphite supply chain concentrated in China

! New restrictions on Chinese exports starting 1 Dec, 2023



Notes: Li: lithium; Ni: Nickel; Co: Cobalt; Gr: Graphite. Geographical breakdown refers to the country where production occurs. Mining based on production data. Mineral processing is based on refining production capacity data. Cell component production is based on cathode and anode material production capacity data.

EU recognises supply chain risk, natural graphite listed as strategic and critical material

Battery passport legislation and Critical Raw Materials Act
setting new compliance targets including:

- >10% local extraction by 2030

- >40% local processing by 2030

- Mandatory declaration of carbon footprint in 2025

Talga is building a new, clean, **integrated, secure** graphite anode supply chain in Europe



A fully integrated battery anode
supply chain in Sweden



15 active patent families,
65 active cases



100% in-house
Intellectual Property

100% owned technology

Talga develops products and processes across its operations (Sweden, UK, Germany & Australia)

One-stop Shop = Full control of anode supply



Mining and Concentration



Shaping and Purification



Coating



Talnode®



Cell
Manufacturer

Talga in Sweden

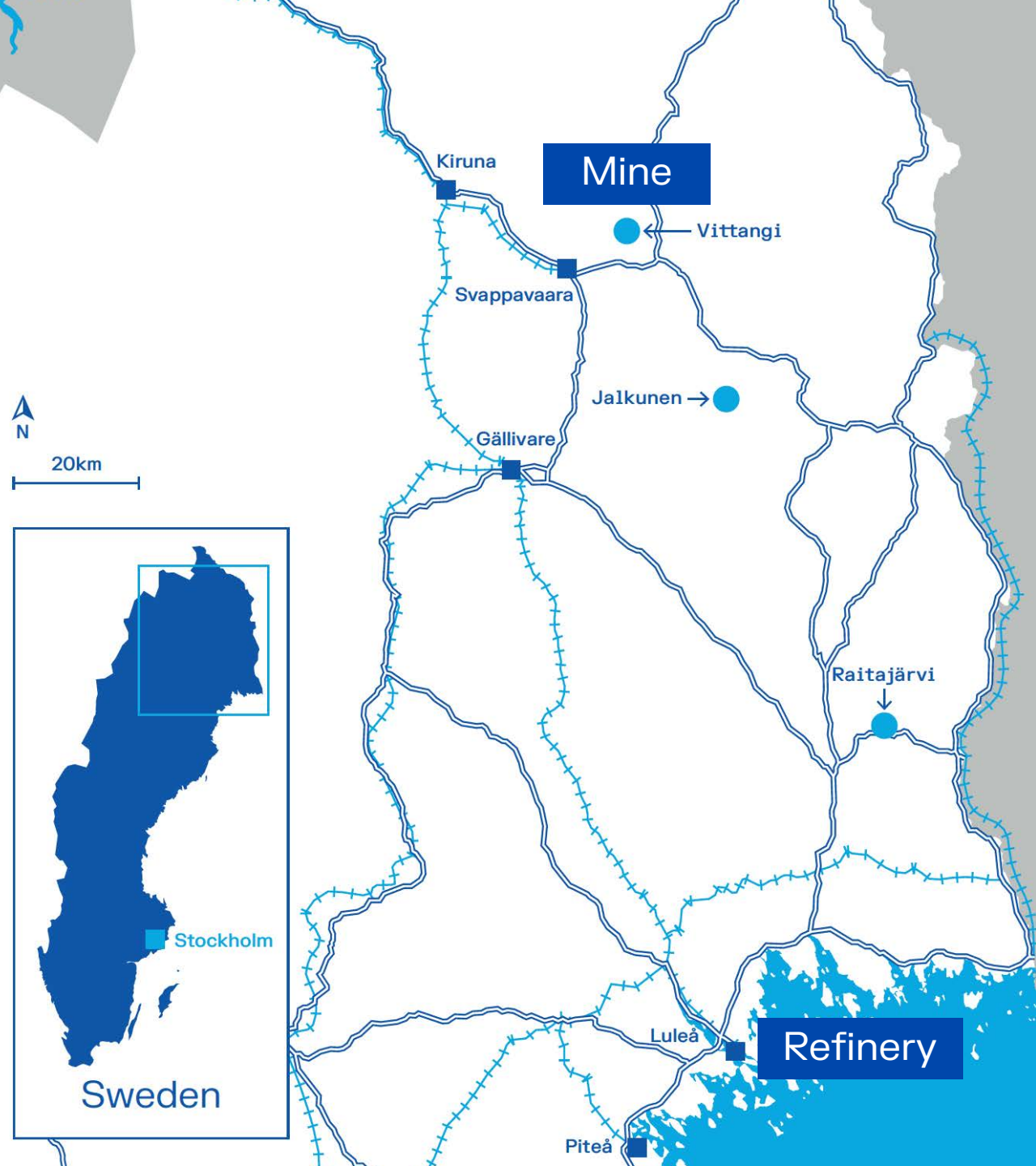
Vittangi Anode Project north Sweden

! Integrated mine-to-anode refinery producing 19,500tpa anode (Stage 1) for 24 years

Europe's largest and highest grade graphite deposit (Vittangi): 35.0Mt at 23.8%Cg, containing 8.3Mt graphite

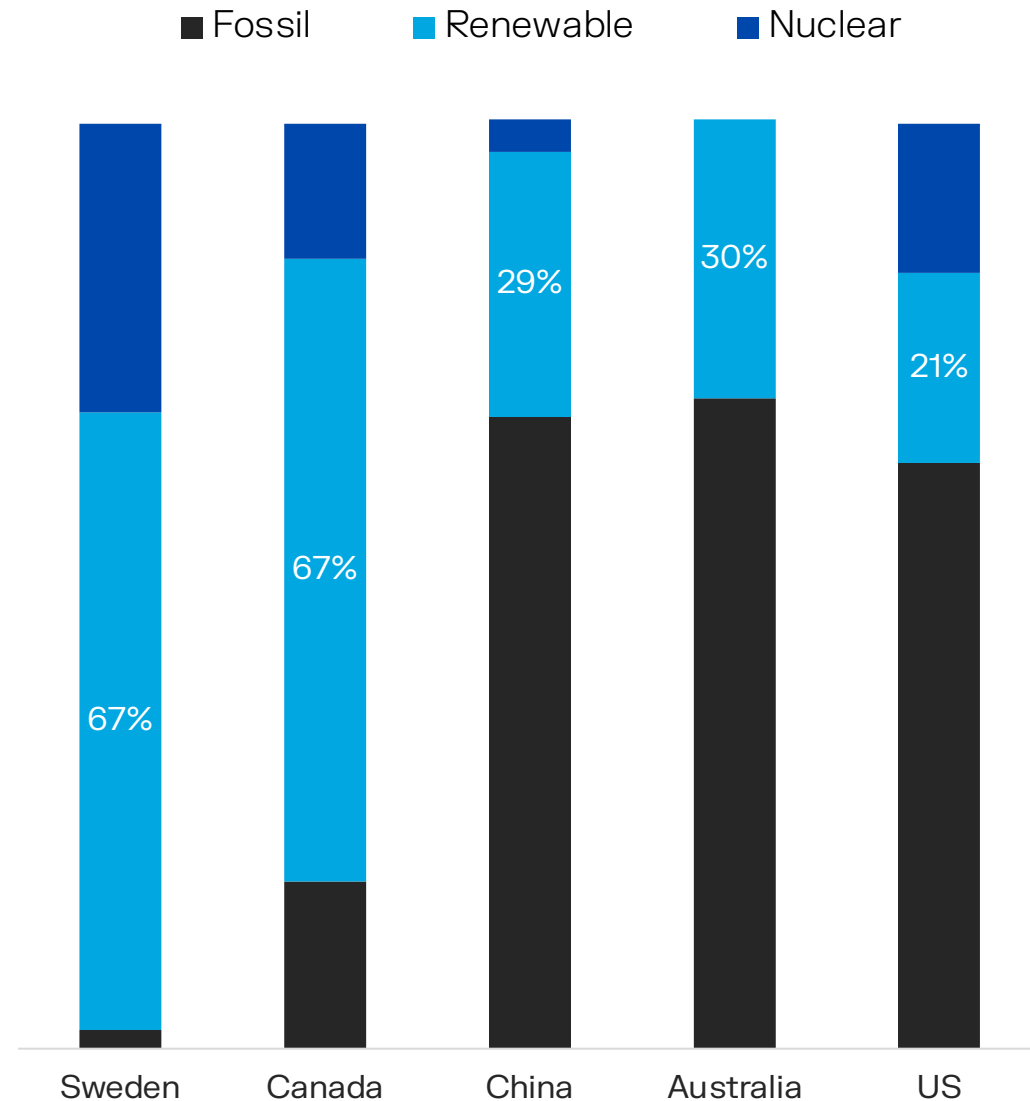
Advanced transport and logistics, with direct road and rail to rest of Europe (1-2 days delivery) from Luleå

Plans for major expansion to >100,000tpa anode



Powered by reliable clean electricity

! 100% hydropower used in
Talga anode production



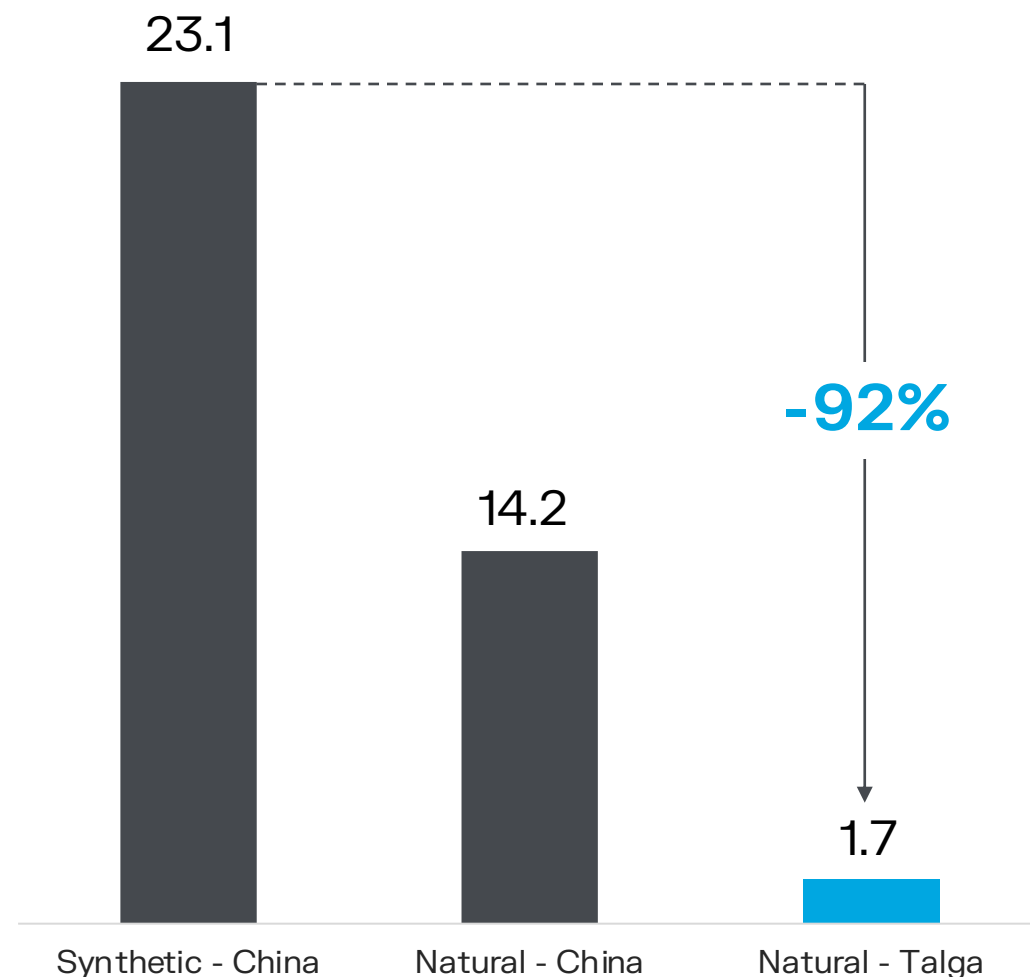
Cleaner anode production

↓ -92% less emissions

Super *high-grade* graphite, *renewable* energy and high-yield *processing technology* result in ultra-low carbon footprint

The peer-review LCA was conducted according to ISO 14040:2006 and ISO 14044:2006 standards

CO₂-eq per kg of anode active material



Talnode®-C

Flagship graphite anode



Coated active anode with excellent capacity, good 1st-cycle efficiency and ultra-low CO₂.

Fast charging capability with excellent power density and low resistivity.

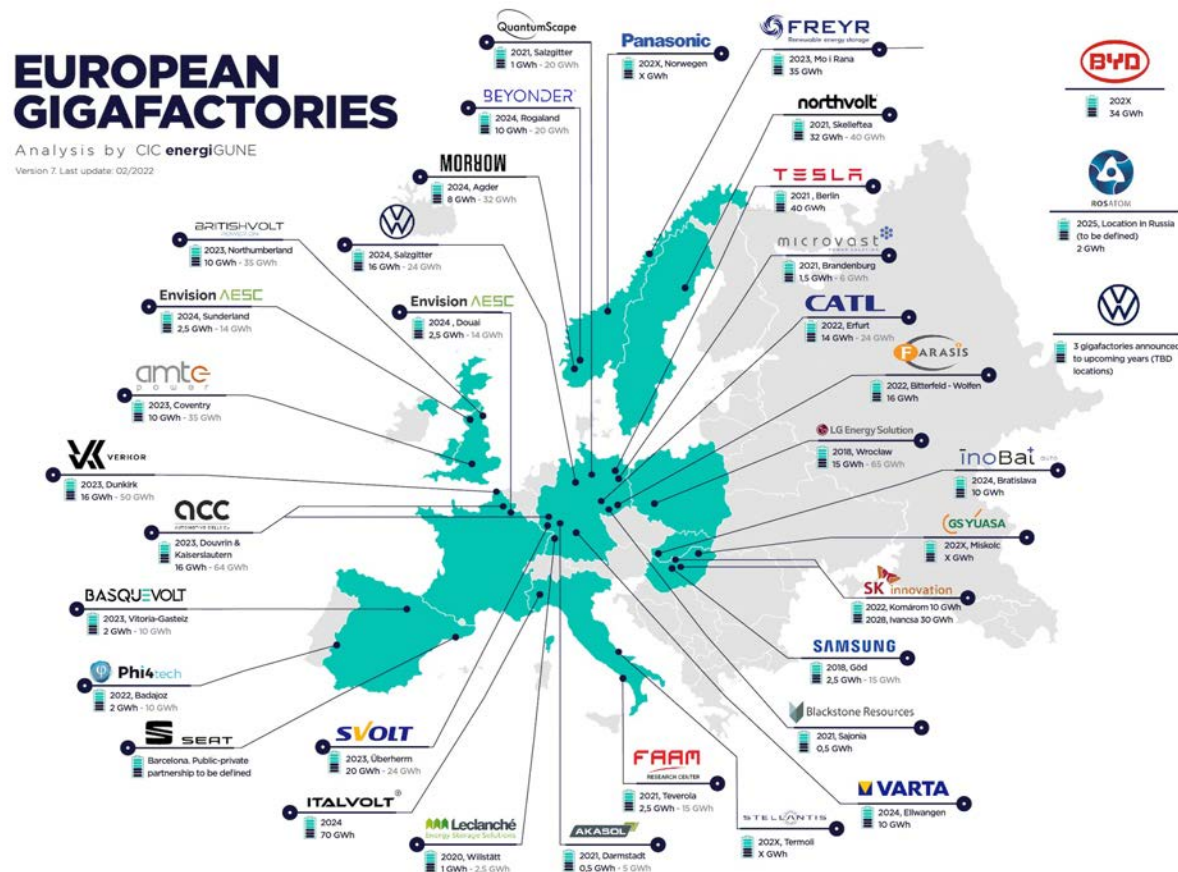
Low temperature performance maintains capacity at freezing temperatures.

Swelling similar to synthetic graphite. EU origin and compliance.

Talnode® validated by numerous customers under NDAs

- ! Cell manufacturers
- ! Anode manufacturers
- ! Auto OEMs

Map showing current and planned European Li-ion battery factories and capacity in 2022. Source: CIC energiGUNE



EVA Qualification Plant

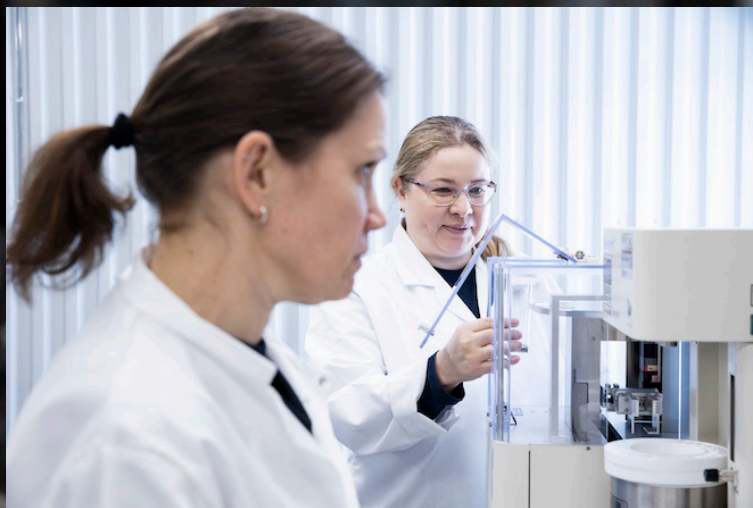
Luleå, northern Sweden



**Producing large scale Talnode®-C samples
for battery customer qualification (B-C)**



In-house battery lab and quality control





19,500tpa (16GWh)
graphite anode



Using 100%
clean hydropower



Permitted and
construction ready

Planned commercial anode refinery

Luleå, Sweden

Commercial Anode Refinery

Luleå Industrial Park, Sweden



Construction commenced



Site land purchased



Key site infrastructure progressing



Vittangi Anode Project **Financing**

! Target total debt (60%) and equity (40%)

Debt financing consortium selection finalised

European Investment Bank €150 million senior debt funding approved*



Key Finance Partner



Key Project Partners



Next Gen Products



Talnode®-Si **Silicon anode**

Composite silicon-graphite additive with ~50 wt% silicon to produce high energy density (~1,900 mAhg) drop-in additive

Solves

Energy density, industrial scalable process and competitive cost

Stage

Pilot operating. Engineering and financial feasibility studies under way for commercial plant

Talphite®, Talphene® **Graphene**

Products in R&D include conductive additives for cathode, solid-state anodes and recycling of graphite

Solves

Conductivity, CO₂, energy density, lithium-metal issues and environmental regulations

Stage

Lab scale tests and results

Silicon Anode Pilot Plant

Talga Advanced Materials GmbH, Germany



Producing Talnode®-Si samples for battery customer qualification and commercial discussions



Feasibility studies and work underway to support commercialisation including site selection

An aerial photograph showing a mining or processing site nestled within a vast, dense forest. The site features several large, dark, irregularly shaped pits or mounds of earth, likely containing minerals. A dirt road or path leads into the site from the upper right. In the background, rolling hills and mountains are visible under a clear sky. The overall scene suggests a remote, natural resource extraction location.

**New supply chains of critical minerals
in Europe are underway, enhancing
sustainability of battery materials**

Talga

Corporate overview

Capital Structure

Market Capitalisation	\$391.4M
Listed Shares	360.7M
Unlisted Options	13.4M ¹
Cash as at 30 June 2023	\$38.6M

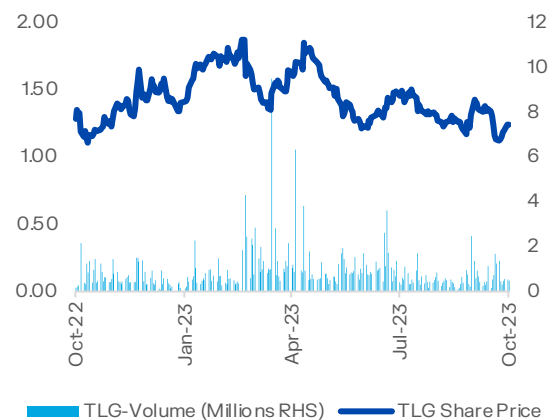
Major shareholders

Kinetic Investment Partners	4.7%
Mark Thompson – M Director	4.0%
Pentwater Capital Management	3.6%
UBS AG (Private Banking)	3.2%
Ellerston Capital	1.7%
Yandal Investments	1.7%

Talga entered the ASX 300 on 20 March 2023, with research coverage by the following brokers:



Share price performance (LTM)





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Experienced Board and Management Team

Strong technological and operational leadership with on the ground European presence

Board of Directors



Terry Stinson

Non-Executive Chairman

Over 35 years' Executive and Non-Executive Director experience, working for global innovation companies. Formerly the CEO and Managing Director of Orbital Corporation, VP for Global Fuel Systems at Siemens AG and CEO of Synerject. Currently the Non-Executive Chairman of Carnegie Clean Energy Limited and Non-Executive Director of Aurora Labs.



Mark Thompson

Managing Director & Founder

Over 30 years' global experience in the mineral industry including resource project development, technology and management. Founded Talga in 2009 and listed the company on the Australia Securities Exchange in mid 2010. A member of the Australian Institute of Geoscientists and the Society of Economic Geologists.



Grant Mooney

Non-Executive Director

Strong corporate advisory background with extensive experience in equity capital markets, corporate governance and M&A transactions. A member of the Institute of Chartered Accountants in Australia. Currently a Non-Executive Director of several ASX listed companies.



Steve Lowe

Non-Executive Director

Strong business management and taxation background with more than 20 years' experience consulting to corporate and high wealth clients. A member of the Australian Institute of Company Directors.



Ola Rinnan

Non-Executive Director

Extensive commercialisation and leadership experience across the energy, banking and finance sectors. Has held numerous board positions for European listed companies and financial institutions including Non-Executive Directorships in Smedvig group companies and DFCU Bank.

Key Management Personnel and Technical Leadership



Per-Erik Lindvall

Talga AB Chairman

A well-known business leader in northern Sweden with a long standing background in the Swedish mining industry including as former Vice President of LKAB. Per-Erik also holds several board assignments and has for many years been a driving force in creating a new, sustainable industrial cluster in northern Sweden.



Melissa Roberts

Chief Financial Officer

Over 20 years' experience in the global resources industry across corporate and commercial roles, most recently with global mineral sands and rare earths producer Iluka Resources. Prior to this, Melissa worked with a range of European energy companies after commencing her career with Australian listed company, Wesfarmers.



Martin Phillips

Chief Operating Officer & European CEO

Experienced commercial and project manager with over 25 years of global metals and mining sector experience. Previous positions include engineering and management roles in battery recycling programs and smelting innovations at MIM's Mt Isa and UK operations. Mr Phillips was former Commercial Manager of Iluka Resources Ltd.



Dean Scarparolo

Company Secretary

A wealth of experience in developing and managing finance departments of ASX listed resource companies. A member of CPA Australia with over 25 years in roles spanning exploration, development and operations across Australia, Africa and Europe.

Technical and Environmental Leadership Team

Decades of experience across battery and advanced material sciences, and environmental management

Scientific and environmental leadership



Dr Anna Motta

Head of Talga Technologies
and Advanced Materials

A chemist with over 20 years of expertise in carbon nanomaterials and extensive experience in managing R&D programs. Heads up Talga's technologies and advanced materials unit focusing on the development of next generation products.

Formerly the manager of several research programs at Cambridge Graphene Centre with particular focus on industry partnerships and technology transfer. Previous positions include science and management roles at the National Research Centre of Finland and the University of Cambridge.



Nishida Tatsuya

Chief Scientific Advisor
Battery technologies

Mr Tatsuya holds more than one hundred patents listed in China, Japan, Korea, the US and EU.

His distinguished career includes the foundational work of commercialising graphite anodes and over 20 years' experience in commercial anode and battery technologies with world leading Japanese battery anode company Hitachi Chemical (now part of the Showa Denko Group).



Dr Karanveer S. Aneja

Senior Scientist
Materials

Dr. Karanveer S. Aneja is a Senior Scientist at Talga Technologies Limited, based in Cambridge UK, and overlooks Talga's composite and coating product development activities. Dr Aneja has a background in Metallurgical Engineering and Material Science with a specialisation in Corrosion Science. He was awarded the "Prime Minister's Fellowship" for his doctoral research at IIT Bombay, the highest and most prestigious fellowship in India.

Dr Aneja's work at Talga involves developing graphene functionalities for use in large volume applications such as protective coatings and has resulted in 5 graphene product patent applications. He has also co-authored several scientific papers on use of graphene in protective coatings.



Peter French

Environmental & Community
Manager

Experienced environmental professional with 25 years' experience in the mining and industrial sector. Responsible for managing permitting, environmental and social performance functions for Talga's Sweden operations.

Previously worked as an independent consultant to a range of mining operations and has spent the most of the past 15 years managing permitting processes for mining and industrial sites, often in a seconded capacity. Earlier positions include mine rehabilitation roles within the mineral sands industry.

JORC Graphite Reserve and Resources

Ore Reserve ^{3,5}	Tonnes	Graphite (% Cg)
Nunasvaara (JORC 2012)	2,260,140	24.1
Probable	2,260,140	24.1

Mineral Resources ^{1,2,4,6,7,8}	Tonnes	Graphite (% Cg)
Vittangi (JORC 2012)	35,020,000	23.8
Indicated	26,691,000	24.3
Inferred	8,329,000	22.1
Jalkunen (JORC 2012)	31,500,000	14.9
Inferred	31,500,000	14.9
Raitajärvi (JORC 2004)	4,300,000	7.1
Indicated	3,400,000	7.3
Inferred	900,000	6.4
Total Mineral Resources	70,820,000	18.8

Note:

1. Mineral resources are inclusive of ore reserves.
2. Mineral Resources are reported at various cut off grades: Vittangi 12.5% Cg, Jalkunen 5% Cg and Raitajärvi 5% Cg.
3. Ore Reserve is reported at a cut off grade of 12% Cg.
4. Errors may exist due to rounding.

JORC Exploration Target

2021 Exploration Target Vittangi Graphite Project		
Vittangi (JORC 2012)	Low	High
Tonnage Range	170Mt	200Mt
Grade Range	20% Cg	30% Cg

Note that the potential quantity and grade of the Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

Talga completed new ground electromagnetic geophysical ("EM") surveys of graphite targets at Vittangi following the 2020 upgrade of the Vittangi graphite resource. The EM survey results have been reviewed in combination with prior Talga geochemical samples collected from the surface within the conductors, which averaged 26.2% graphite ("Cg") (ASX:TLG 15 Nov 2012). Modelling of this data in conjunction with positive outcomes of the Niska underground mining scoping study have enabled a revised JORC-compliant Exploration Target estimate totalling 170-200Mt at 20-30% Cg at Vittangi (ASX:TLG 20 Jul 2021). This is a significant increase from the previous 26-46Mt at 20-30% Cg (ASX:TLG 17 Sep 2020). The majority of this estimate is proximal along strike and down dip from Talga's existing Vittangi JORC (2012) graphite resources of 30.1Mt @ 24.1% Cg. Additional targets are located along the mapped graphite units around the greater Nunasvaara Dome area.

New rounds of diamond core drilling commenced at Vittangi in mid-2021. The staged 69 hole diamond drilling program totalling ~8,000m tested parts of the JORC Exploration Target as down-dip extensions of the current JORC Resources as well as shallow subcrop targets between Nunasvaara North and Niska South. Reviews of JORC Exploration Targets will be undertaken where significant changes are indicated by continued exploration.

See Talga's ASX announcement dated 20 July 2021 for further information.

Competent Person Statements

The Vittangi Mineral Resource estimate was first reported in the Company's announcement dated 6 October 2023 titled 'Talga boosts Swedish battery graphite'. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement and that all material assumptions and technical parameters underpinning the Resource estimate in the previous market announcement continue to apply and have not materially changed.

The Nunasvaara Ore Reserve statement was first reported in the Company's announcement dated 1 July 2021 titled 'Robust Vittangi Anode Project DFS'. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement and that all material assumptions and technical parameters underpinning the Reserve estimate in the previous market announcement continue to apply and have not materially changed.

The Jalkunen Mineral Resource estimate was first reported in the Company's announcement dated 27 August 2015 titled 'Talga Trebles Total Graphite Resource to Global Scale'. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement and that all material assumptions and technical parameters underpinning the Resource estimate in the previous market announcement continue to apply and have not materially changed.

The Raitajärvi Mineral Resource estimate was first reported in the Company's announcement dated 26 August 2013 titled '500% Increase to 307,300 Tonnes Contained Graphite in New Resource Upgrade for Talga's Swedish Project'. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement and that all material assumptions and technical parameters underpinning the Resource estimate in the previous market announcement continue to apply and have not materially changed.

The Company first reported the production targets and forecast financial information referred to in this presentation in accordance with Listing Rules 5.16 and 5.17 in its announcements titled 'Robust Vittangi Anode Project DFS' dated 1 July 2021 and 'Positive Niska Scoping Study Outlines Pathway to Globally Significant Battery Anode Production' dated 7 December 2020. The Company confirms that all material assumptions underpinning those production targets and forecast financial information derived from those production targets continue to apply and have not materially changed.

The Information in this presentation that relates to prior exploration results for the Vittangi Graphite Project is extracted from ASX announcements available to view on the Company's website at www.talgagroup.com, with information on the exploration target first released to ASX on 20 July 2021. The Company confirms that it is not aware of any new information or data that materially affects the exploration results included in the relevant original market announcements. The Company confirms that the form and context in which the Competent Person and Qualified Person's findings are presented have not been materially modified from the relevant original market announcements.