

Talga Resources (ASX:TLG)

Investor Presentation



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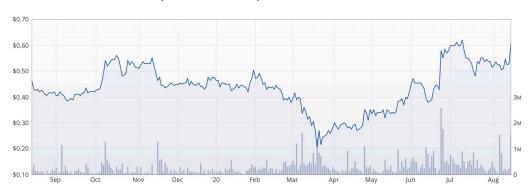
Becoming a significant and vertically integrated producer of lithium-ion battery anode products and technologies

- Talga is building an integrated graphite anode facility in Sweden running on 100% renewable electricity, to produce ultra-low emission coated anode for greener Li-ion batteries.
- Proven high-performance anode products
- Qualification process with battery manufacturers and automotive OEMs underway, targeting production 2023
- Full mine-to-product ownership resulting in cost and quality advantages with maximum margins
- Tier 1 location Sweden; local to battery megafactories
- Super high-grade ore and industry-leading process yields



Corporate Overview

ASX:TLG SHARE PRICE (YEAR TO DATE)





SHAREHOLDERS

- Board & Management
- Smedvig
- European Investors
- Other

CAPITAL STRUCTURE

ASX Listing Code: TLG

Market Capitalisation: A\$147M

Listed Shares: 243.7M

Unlisted Options: 7.0M

Cash: A\$5.1M

MAJOR SHAREHOLDERS

Smedvig – Family Office 10.47%

Mark Thompson – M. Director 5.88%

JP Morgan Nominees 5.35%

Pelmer Securities 3.76%

Citicorp Nominees 3.70%

TOP 20 SHAREHOLDERS 49.47%



The Opportunity

Long-term Li-ion battery boom has commenced driven by sustainability legislation, consumer demand and lower price EVs

Anode (a highly refined and coated form of graphite) is ~50% of the battery volume active ingredients

The fastest growing market in the world is Europe which imports 100% of its anode materials from Asia

European auto-OEMs want local and clean supply making now the time for Talga to enter the market and compete with Asian chemical companies



In-house Expertise

Talga develops high performance Li-ion anodes and battery materials enabled by its unique:

- natural carbon source type
- processing technology
- in-house material engineering technology

Strong technology capability with over 20 PhDs and Engineers with energy product experience including. ex-Toyota, Tata, Dyson and Cambridge University alumni

Deep industry knowledge enabling downstream strategy and cell maker/OEM interactions

Growing Partnerships

Confidential qualification processes under active customer engagements including majority of announced European Li-ion battery manufacturers and six of the world's major automotive OEMs













































Fastest Growing Battery Capacity

European Li-ion battery manufacturing will require 500,000tpa of new graphite anode by 2029



SOURCE: R. ZENN, JUNE 2020 AND PUBLIC SOURCES

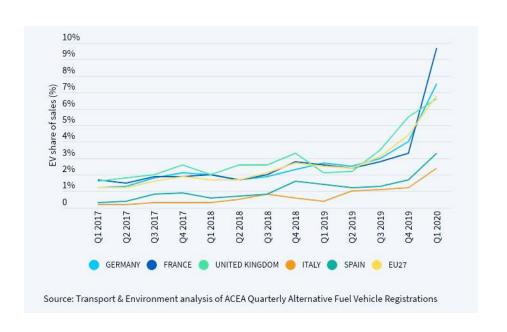
EV Sales Accelerating

European EV sales take off in the quarters prior to COVID-19, driven by **lower price models becoming available**

EV demand expected to grow ten-fold by 2028 (from 2019 base) but could be more as **emission-subsidies and legislation** clip economics of internal combustion engines

At least 400,000 tonnes anode required by 2028 for EU manufacturers (20 times Talga's current planned annual production)

Localisation, supply-chain security and low-CO₂ of increasing importance for auto OEMs



Building the Solution

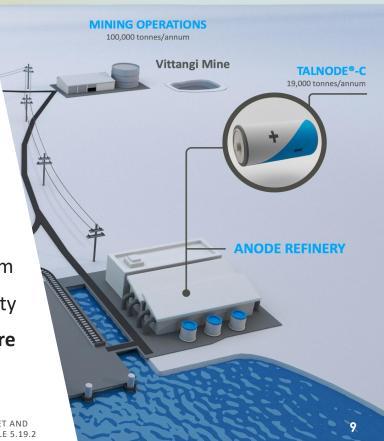
An integrated anode supply chain in northern Sweden with anode refinery to be built in Luleå fed by graphite concentrate from wholly owned Vittangi mine

Planned **19,000tpa of anode production for 22 years** from 2023 following Electric Vehicle Anode pilot plant in 2021

PFS shows strong financial potential with pre-tax annual revenue US\$188m and IRR 55%. Life of mine net profit before tax is US\$3,133m and current NPV₈ (real) is US\$1,056m

Expressions of interest received for >300% of planned capacity

Expansion being scoped for significantly larger scale in future (ASX:TLG 24 Jun 2020 re Niska Scoping Study)





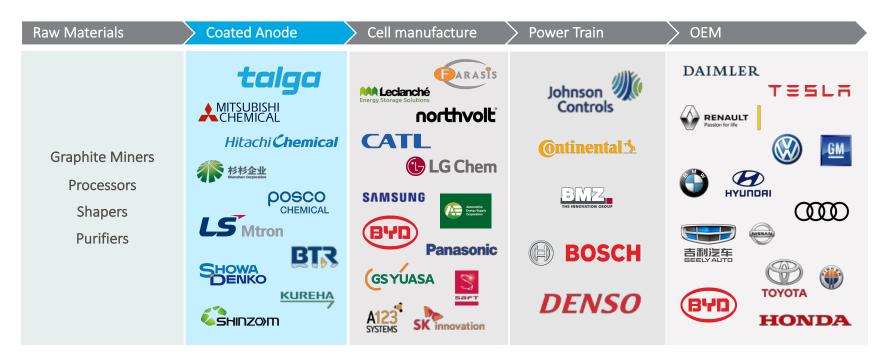
Battery Anode Range

Talga-developed active anode products designed for current and emerging Li-ion battery applications

- Talnode™-C: Engineered graphite for fast charge, high power, high capacity and excellent low temperature performance
- Talnode™-Si: Silicon-graphene composite anode for higher energy density
- Talnode™-X: Graphite-based anode with ultra-fast charge capability
- Talnode™-E: Graphite-composite anode materials for Solid State Batteries

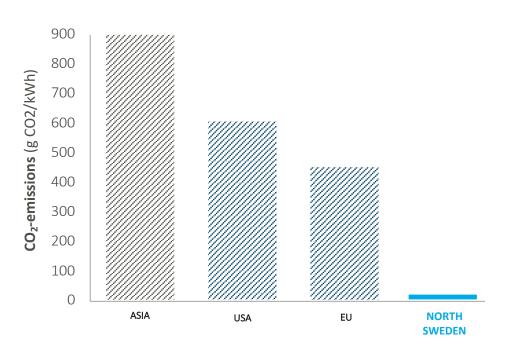
Position in the Supply Chain

With the capability to sell directly to end users Talga's peers are chemical companies, not miners



Low Emission Leader

Production emissions becoming more important to customers purchasing decisions



To produce 100GWhr of Li-ion batteries:

Talga's north Sweden anode production requires 2,300 GWhr power and emits approximately: 100t CO₂

China-based synthetic graphite anode production requires 4,100 GWhr power and emits approximately: **3,700,000t CO₂**

SOURCE: NODE POLE, BASED ON EUROSTAT AND EEA DATA.

Cost Leader

Collective advantages enable Talga to be globally competitive low-cost anode producer



Highest grade graphite resource



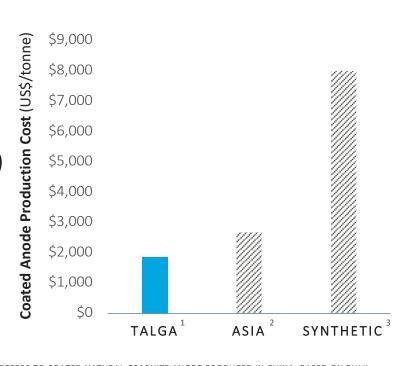
100% anode flake (no basket of industrial products)



Very high anode yield (90%)

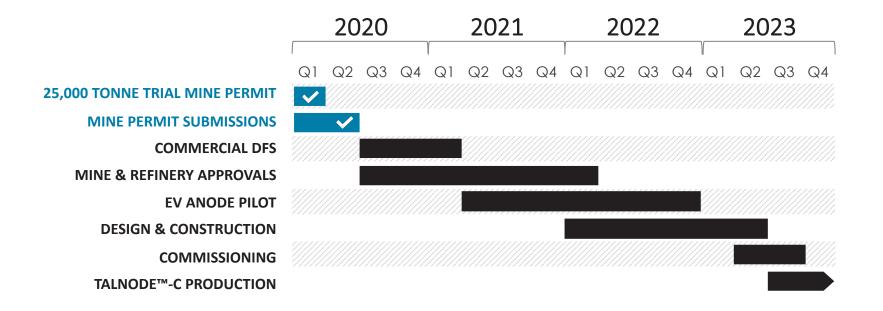


Low cost grid power



Project Development Timeline

Trial mine approved and full scale mining applications submitted for 2023 production



SEE: ASX:TLG 5 AUGUST 2020

Recent Milestones

- ✓ Partnerships underway to jointly develop project. A range of major parties are engaged and undertaking detailed diligence and testwork including Mitsui (ASX:TLG 20 Mar 2020)
- √ 36 commercial engagements for Talnode underway including qualification for EV markets, includes Farasis Energy (supplier to Daimler) (ASX:TLG 27 May 2020)
- ✓ Approval for 25,000t mining operation (5,000t Talnode production) received and land allocation for anode refinery from Municipality. Commercial 100,000tpa mining permits submitted
- ✓ Successful 60 tonne pilot concentrate program provides commercial samples
- ✓ Battery technology co-funding from UK government Innovate programs includes Bentley Motors
- Project development steps underway include Commercial Detailed Feasibility Study (Q1 2021)
 and expansion project Niska Scoping Study (Sep 2020)
- Multiple customer offtake and project financing discussions underway

Board of Directors

Substantial commercialisation experience across resource, innovation and development projects



Formerly the CEO and Managing

Director of Orbital Corporation, VP

for Global Fuel Systems at Siemens

Energy Limited and Non-Executive

AG and CEO of Synerject.

Currently the Non-Executive

Chairman of Carnegie Clean

Director of Aurora Labs.

Terry Stinson Non-Executive Chairman



A proven track record of forming the company on the Australia and leading international business collaborations and joint ventures.

> A member of the Australian Institute of Geoscientists and the Society of Economic Geologists.

Previously founded and served on the Board of ASX listed Catalyst Metals Limited.





Grant Mooney Non-Executive Director



Steve Lowe Non-Executive Director



Ola Rinnan Non-Executive Director

Over 35 years' Executive and Non-Executive Director experience, working for global innovation companies across a technology and management range of industry segments

> Founded Talga in 2009 and listed Securities Exchange in mid 2010.

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 the Non-Executive Director of several ASX listed companies including Carnegie Clean Energy Limited, Aurora Labs Limited and mineral resources companies Barra Resources Limited, Riedel Resources Limited. Accelerate Resources Limited and Gibb River Diamonds Limited.

Strong business management and taxation background with more than 20 years' experience consulting to corporate and high wealth clients

Holds a Bachelor of Business and a Masters of Taxation from the UNSW.

A Fellow of the Taxation Institute of Australia and a member of the Australian Institute of Company Directors.

Currently a Non-Executive Director of Coziron Resources Ltd.

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.

Formerly the Chairman of Avinor AS, CEO at Eidsiva Energi AS, CEO at Norgeskreditt AS and CFO for Moelven Industrier AS.

Currently the Chairman of Nordavind DC Sites AS. Hamar Media AS, Espern Eiendom AS and Gravdahl AS.

Key Management Personnel

Leading in-house expertise across mine and battery product development



Martin Phillips Chief Operating Officer

Experienced commercial and project manager with over 25 years of global metals and mining sector experience

Manages Talga's battery anode project development and oversees the Group's European operations.

Extensive experience in constructing and managing operations and implementing business growth strategies.

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 ScarparoloFinancial
Controller

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.

Responsible for overseeing Talga's growth in Europe taking care of areas in finance, admin, HR and legal.

Mr Scarparolo is also the Company Secretary for Talga Resources Ltd and has managed the in-country compliance requirements during Talga's European expansion.



Dr. Claudio CapigliaDirector - Battery
Technologies

Over 20 years of experience in the battery industry in Japan and holds exclusive development and industrialisation know-how of advanced materials for Li-ion battery manufacturing

Heads up the commercialisation of Talga's battery products.

Previous Professor & Head of Battery Group/Italian Institute Technology.

Co-founder and Director of original Li-ion cell manufacturers in Europe.

Former Senior Scientist for the solid-state battery for Hybrid Electric Vehicles (HEVs) at Toyota.



Dr. Anna MottaHead of Technologies
& 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.

Disclaimer

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

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Authorisation

This presentation is authorised for release by the Board of Directors.

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GLOBAL OPERATIONS

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Talga Japan: Takatsuki, 569-1046, Osaka, Japan



Appendix

PFS Key Outcomes

Confirms technically and financially robust project

| PARAMETER | UNITS | ОИТСОМЕ |
|---|--------------|----------|
| Annual ore mining rate | tonnes | 100,000 |
| Average annual production of Talnode™-C | tonnes | 19,000 |
| Life of Mine (LOM) | years | 22 |
| Pre-tax NPV ₈ (real) | \$M | \$1,056 |
| Pre-tax IRR | % | 55% |
| Total Capex | \$M | \$174 |
| Payback | years | 1.5 |
| Talnode™-C average price | \$/t product | \$11,250 |
| Revenue (LOM) | \$M | \$4,148 |
| Cash cost of production of Talnode™-C | \$/t product | \$1,852 |
| EBITDA (LOM) | \$M | \$3,254 |
| Net profit before tax (LOM) | \$M | \$3,133 |

JORC Graphite Reserve & Resources

| Ore Reserve ^{3, 6} | Tonnes | Graphite (% Cg) |
|-----------------------------|-----------|-----------------|
| Nunasvaara (JORC 2012) | 1,935,000 | 23.5 |
| Proven | 0 | 0 |
| Probable | 1,935,000 | 23.5 |

| Mineral Resources 1, 2, 4, 5, 7, 8, 9 | Tonnes | Graphite (% Cg) |
|---------------------------------------|------------|-----------------|
| Vittangi Nunasvaara (JORC 2012) | 12,300,000 | 25.5 |
| Indicated | 10,700,000 | 25.7 |
| Inferred | 1,600,000 | 23.9 |
| Vittangi Niska (JORC 2012) | 4,600,000 | 25.8 |
| Indicated | 4,600,000 | 25.8 |
| 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 | 52,700,000 | |

NOTE:

- ¹ MINERAL RESOURCES ARE INCLUSIVE OF ORE RESERVES.
- ² MINERAL RESOURCES ARE REPORTED AT VARIOUS CUT OFF GRADES: NUNASVAARA 17% Cg, NISKA 10% 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.

Competent Person Statements

The Niska Mineral Resource estimate was first reported in the Company's announcement dated 15 October 2019 titled 'Talga Substantially Increases Flagship Graphite Resource Size, Grade and Status'. 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 Mineral Resource estimate was first reported in the Company's announcement dated 27 April 2017 titled 'Talga boosts Swedish graphite project with maiden Niska resource'. 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 23 May 2019 titled 'Outstanding PFS results support Vittangi graphite development'. 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 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 announcement titled 'Outstanding PFS results support Vittangi graphite development' dated 23 May 2019. 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.