



Talga Resources (ASX:TLG)

The Nordic battery scene – Building a Swedish Lithium-ion battery anode supply chain



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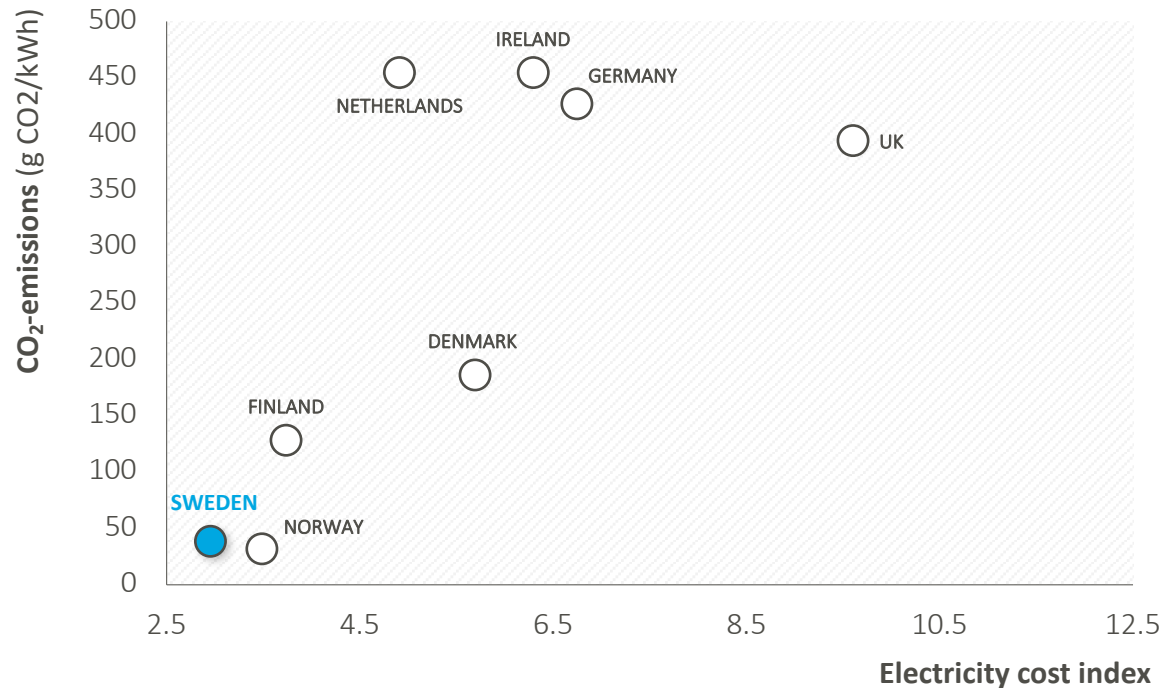
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Fastest Growing Battery Capacity



Swedish Renewable Energy

LOW COST



SOURCE: NODE POLE, BASED ON EUROSTAT AND EEA DATA



SWEDISH The Mining Zone



Existing quality infrastructure



Operating open cut mines



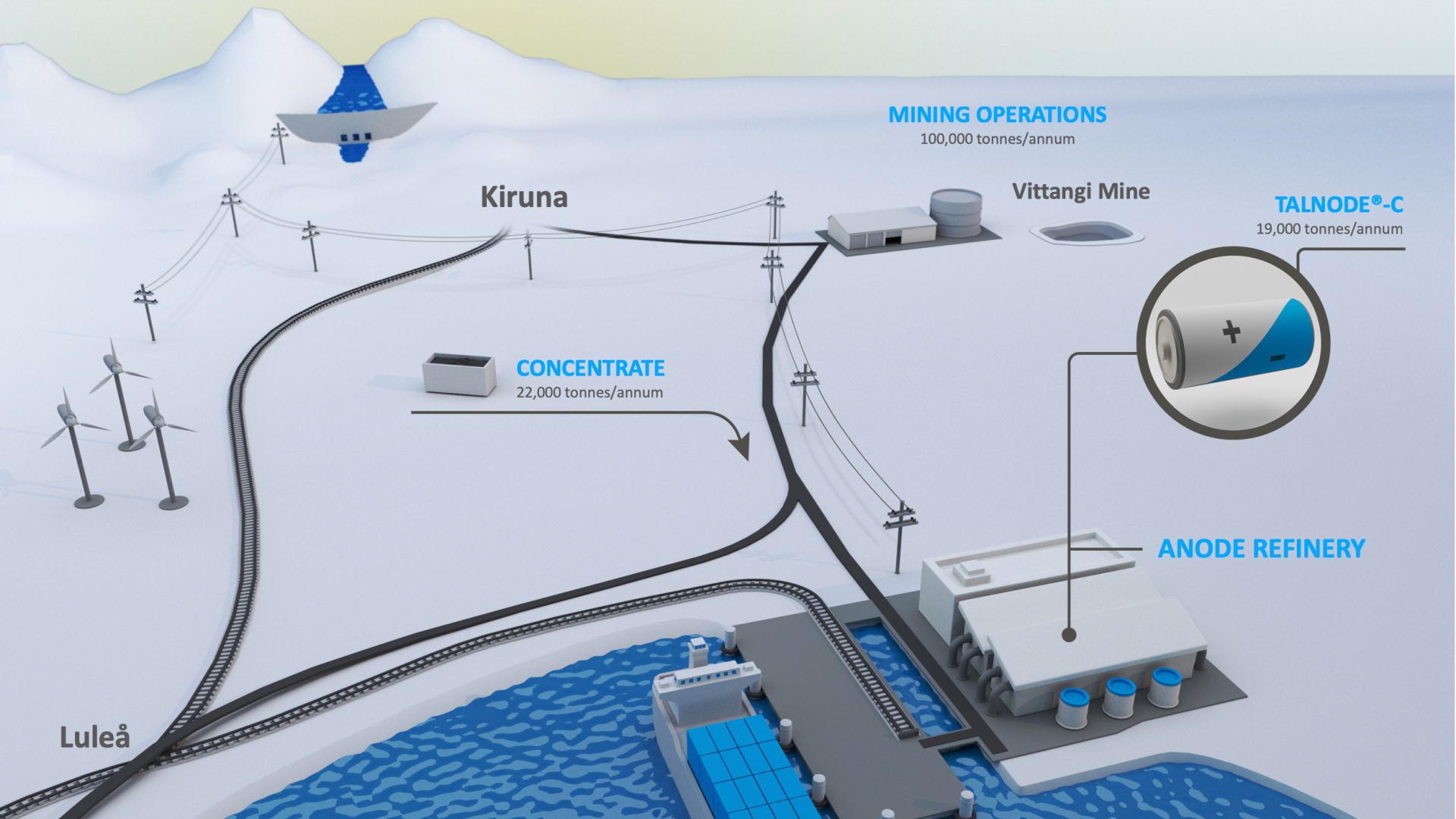
High level of mining innovation



**Productivity 6 times higher
than international standards***

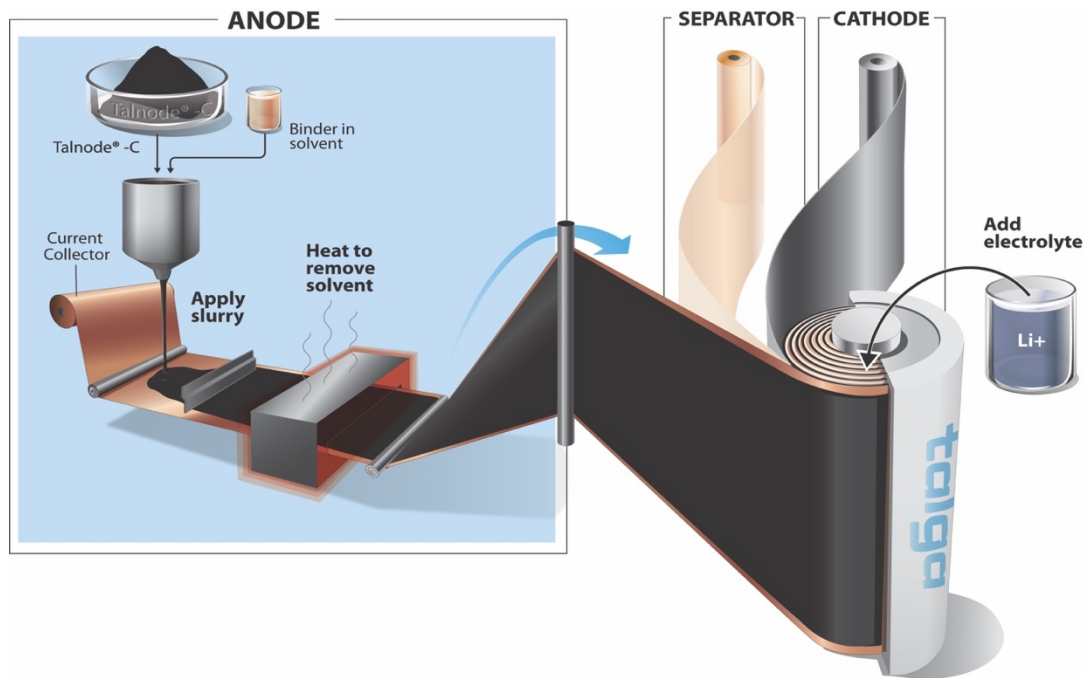
The Opportunity

- **Long-term Li-ion battery boom has commenced** driven by sustainability legislation and demand
- **Fastest growing market in the world is Europe**, imports 100% of its anode materials from Asia
- European auto-OEMs want **local and clean** supply
- Anode is **~50% of battery volume active materials**
- **Graphite** listed by the EU as a **critical raw material**



Anode Product: Talnode-C

COATED, SHAPED ACTIVE ANODE POWDER READY FOR CELL MANUFACTURER USE



❄️ Freezing temperature performance

📈 High power and fast charge

🌐 Semi-synthetic properties

Project PFS Results

\$1,056M
NET PRESENT VALUE

Estimated pre-tax project
net present value

55%
IRR

Estimated pre-tax project
internal rate of return

\$188M
ANNUAL REVENUE


Estimated LOM 22 year
annual steady state revenue

\$174M
TOTAL CAPEX

Capturing margins in
value-added project

1.5 YEAR
PAYBACK PERIOD

Rapid payback from start of
commercial production in 2023



NOTE: ESTIMATED KEY ECONOMIC OUTCOMES ALL IN USD. SEE: ASX:TLG 23 MAY 2019

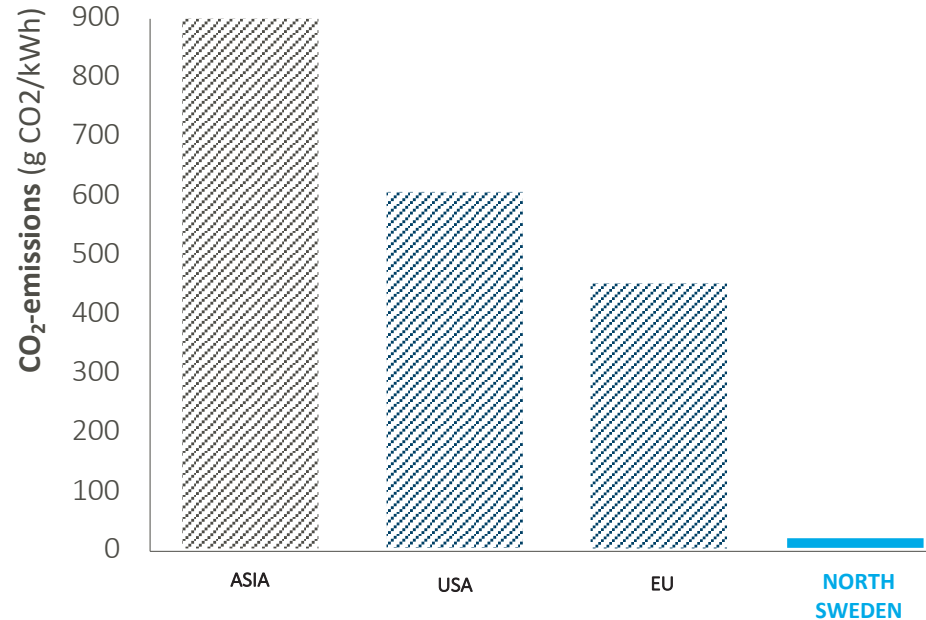
Overall Impact Goals

- Support shift towards **electrified industry** and **carbon neutral economy**
- Ca **120 direct jobs** in mining and refinery operations
- **Improved rural economy** – infrastructure, municipal revenue, associated services and businesses
- Leading **technology hub** (industry and academia)



Low Emission Leader

Production emissions becoming more important to customers purchasing decisions



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

Global Cost Leader

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



Ultra high grade ore



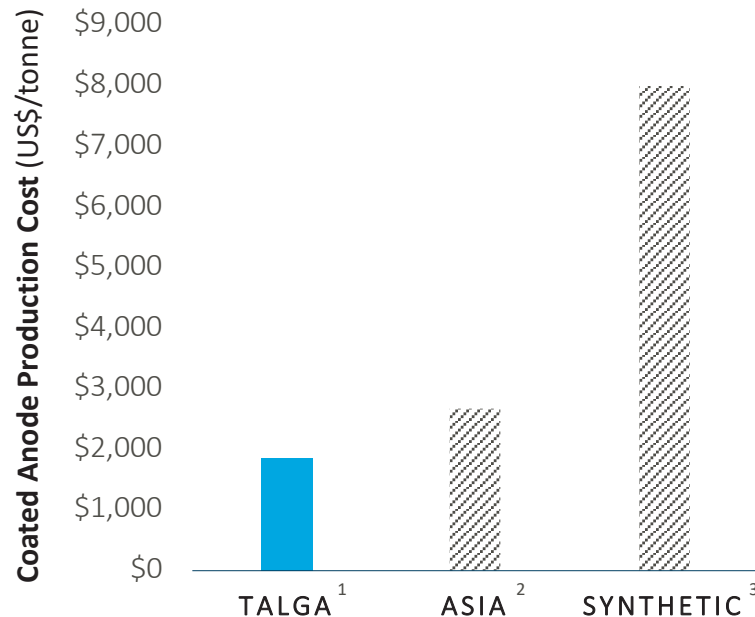
100% anode flake (no basket of industrial products)



High Process yield (88%)



Low cost grid power



SEE: ¹ ASX:TLG 23 MAY 2019. SOURCE: ² BENCHMARK MINERAL INTELLIGENCE PRESENTATION: 'CHINA' REFERS TO COATED NATURAL GRAPHITE ANODE PRODUCED IN CHINA, BASED ON BULK SALES AND MID-POINT AVERAGE COSTS AS OF H1 2018. ³ RECRUIT REPORT: 'SYNTHETIC' REFERS TO COATED ANODE MADE FROM SYNTHETIC GRAPHITE SOURCE eg.. NEEDLE COKE.

Strong Partnerships



Recent Milestones and Development Underway

- ✓ Partnerships underway to jointly develop project. A range of major parties are engaged and undertaking detailed diligence and testwork including **Mitsui** (agreement 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 trial mine** (25,000t ore and 5,000t Talnode production) received and confirmation of land **allocation for refinery** received from Luleå Municipality.
- ✓ Full scale mining permit applications submitted with Swedish government authorities.
- **Project development steps underway include Niska Scoping Study for Q3 2020 and Commercial DFS for Q1 2021 amid customer offtake and project financing discussions underway**
- **Commencement of production proposed for 2023 with full-scale integrated mine to anode production of approximately 19,000tpa of Talnode-C**

Corporate Overview

ASX code: TLG

A\$128m

Market Cap

~243.7m

Listed Shares

A\$5.1m

Cash

~9.8m

Unlisted options

BOARD OF DIRECTORS

Terry Stinson	Non-Executive Chairman
Mark Thompson	Managing Director
Grant Mooney	Non-Executive Director
Steve Lowe	Non-Executive Director
Ola Rinnan	Non-Executive Director

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%

Thank you!

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Appendix

PFS Key Outcomes

Confirms technically and financially robust project

PARAMETER	UNITS	OUTCOME
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

NOTE: PFS STUDY DETAILS FOR THE VITTANGI GRAPHITE PROJECT, ESTIMATED KEY ECONOMIC OUTCOMES ALL IN USD.
SEE: ASX:TLG 23 MAY 2019. SOURCE: TALNODE™-C PRICE BASED ON BENCHMARK ASSESMENT REPORT.

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.