LINKING THE WORLD'S LARGEST LITHIUM MINES WITH EUROPE'S BURGEONING BATTERY GIGAFACTORY MARKET

TEES VALLEY LITHIUM

ALKEMY CAPITAL INVESTMENTS PLC (ALK.LSE) (JV2.FRA)

MAY 2023

ALKEMY CAPITAL INVESTMENTS PLC

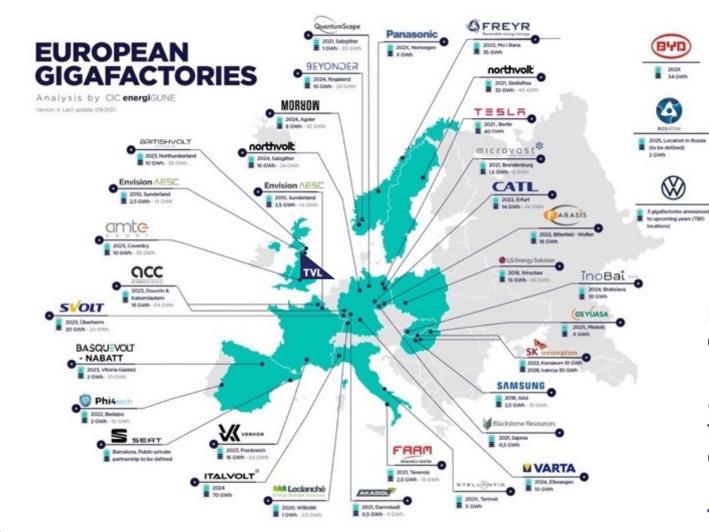
Listed on the London Stock Exchange (ALK.LSE) and Frankfurt Stock Exchange (JV2.FRA).

Tees Valley Lithium Ltd, a wholly-owned subsidiary of ALK, is establishing Europe's largest, low-carbon lithium mid-stream refining solution that links the largest lithium mines in Australia with Europe's burgeoning electric vehicle market.

CORPORATE PROFILE

LSE standard listing (LSE: ALK) FRA standard listing (FRA: JV2) 7.2M shares on issue Market cap ~£20 million





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LITHIUM

Europe will have 700 GW of Gigafactories by 2025.

..which will need over 325,000 tonnes of Lithium Hydroxide and Carbonate per year.

There is currently *zero* Lithium production capacity in Europe.

TEES VALLEY LITHIUM – COMPANY PRESENTATION 3

CHINA CONTROLS 90% OF THE WORLD'S LITHIUM HYDROXIDE PRODUCTION



"China will need all of its lithium production for its US\$11 trillion Carbon Neutral 2060 plan."

FOCUSED ON MID-STREAM LITHIUM REFINING SECTOR



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TVL has identified the opportunity to link the world's largest spodumene producers in Australia with the burgeoning battery gigafactory market in Europe.

To execute this strategy, TVL plans to build two linked refineries in Australia and the UK

PORT HEDLAND LITHIUM
 Lithium Sulphate Refining

TEES VALLEY LITHIUM
 Lithium Hydroxide Refining

APPROVAL GRANTED TO BUILD EUROPE'S LARGEST AND THE UK'S FIRST LITHIUM REFINERY

TVL has received full planning permission from Redcar & Cleveland Borough Council to build the UK's first – and Europe's largest – Lithium Hydroxide refinery.

Following an 18-month consultation period, TVL is now shovel-ready and will generate over 1,000 local jobs.

TEES VALLEY LITHIUM

PLANNING PERMISSION GRANTED



A NEW LITHIUM HUB FOR EUROPE

Producing up to 96,000 tpa of battery grade Lithium Hydroxide.

Equivalent to 15% of European demand by 2030.

UK has a unique opportunity to compete globally in lithium refining through the combination of world class chemical parks and expertise and low cost sustainable offshore wind power.

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WILTON INTERNATIONAL PLUG & PLAY CHEMICALS PARK

Tees Valley Lithium will be the first major ultra-low carbon Lithium Hydroxide plant to be established in Europe.

Being established in a world-class chemicals park on a *plug & play* basis with ultra-low capital cost.

Major power, reagents and utilities provided by owner Sembcorp Energy UK and port logistics provided by PD Ports.





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Sembcorp Energy welcomes Tees Valley Lithium, UK's first Lithium Hydroxide Facility to Wilton International

"I'm delighted that Tees Valley Lithium has chosen Wilton International for their new plant, having been attracted by the benefits of the Teesside freeport and the readily-available connectivity of our site.

We welcome new customers and new low-carbon jobs that are supporting the UK's transition to net zero, similar to Sembcorp's strategic goals."

Andy Koss, CEO, UK & Middle East, Sembcorp Industries.



TO BE POWERED BY LOW-COST RENEWABLE ENERGY

Hitachi is laying a HVDC cable connecting the 2.45 GW Dogger Bank Offshore Wind Farm with a 360 MW battery storage facility at Teesside.

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During periods of high wind and low demand negative electricity costs are generated as operators are required to pay consumers to take power. Dogger Bank Wind Farm

Teesside

Saltend

MULTIPLE FEEDSTOCKS PRODUCING HYDROXIDE AND CARBONATE FOR NMC AND LFP BATTERIES



Recycled Material (EU 2027)

LEE2

TVL's unique chemical processing allows for flexibility in feedstock profiles and the ability to produce multiple end-products.

TVL OFFERS MINERS DIRECT ACCESS TO THE PREMIUM-PRICE EUROPEAN LITHIUM MARKET

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LITHIUM



Lithium miners in Africa, Australia and South America can gain direct access to the burgeoning European battery market by exporting a highvalue, low-carbon intermediate product.

A PRIMARY LITHIUM SULPHATE PLANT LOCATED IN THE HEART OF THE WORLD'S LARGEST SPODUMENE PRODUCING REGION

TVL is also planning to build a primary lithium sulphate plant at Port Hedland to supply feedstock to Wilton in future.

This offers Australian mining companies with capacity to convert Spodumene (SC6%) to Primary Lithium Sulphate (~50%) on an offtake or tolling basis for shipping to TVL's Wilton Refinery in Europe (*rather than shipping spodumene to China*).

43 hectare land allocation within Boodarie Strategic Industrial Area secured for refinery, approximately 10km from Port Hedland. PILGANGOORA ARBLE BAR WODGINA **YINNETHARRA** KATHLEEN VALLEY WARATAH WELL 0 MT MARION PERTH MT HOLLAND MANNA **GREENBUSHES**

PRODUCERS (EXISTING AND NEAR TERM)

PROSPECTIVE PROJECTS

WILTON – KEY PROJECT ECONOMICS (LHM)

	Unit	Train 1	TOTAL (4 Trains)
Life of Project	Years	30	30
LHM Sold	Tonnes	24 kt pa	96 kt pa
Gross Revenue	USD	600M pa	2,400M pa
Operating Costs Total	USD/t	18,292	18,513
Capital Cost (incl 17.5% contingency)	USD	290M	1.4bn
Free Cashflow	USD	120M pa	460M pa
Post-Tax NPV	USD	930M	2.7bn
Post-Tax IRR	%	41%	34%
EBITDA	USD	160M pa	620M pa
EBITDA Margin	%	27%	26%
Payback Period	Years	2.6	NM

TOTAL LIFE OF PROJECT = 2.84Mt LHM, \$71bn Rev

TARGET DATE OF PRODUCTION = 2025

Assumes a long term LSM price of US\$10,000/t and LiOH price of US\$25,000/t

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LITHIUM

• The initial 24,000 tpa will process via causticisation and thereafter via electrochemical

PORT HEDLAND – KEY PROJECT ECONOMICS (LSM)

	Value	
LSM Exported (train 1 per annum)	41,500 tonnes	
LSM Exported (4 trains per annum)	166,000 tonnes	
Material Processed (SC6 per annum, 4 trains)	720,000 tonnes	
Gross Revenue (4 trains per annum)	US\$1.6 billion	
Estimated CAPEX (train 1 only)	US\$150-200 million	
Statutory Approvals Timeframe	c12 months	
Commencement of Construction	Mid 2024	
Commencement of Operations	End 2025 / H1 2026	
Operational Staffing	180 personnel	
Construction Staffing (train 1 only)	300 personnel	

• Assumes a long term LSM price of US\$10,000/t and LiOH price of US\$25,000/t

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• Note: these project timelines are to be finalised in FEED study however the dates above are a preliminary estimate, given market demand emerging in the UK and Europe for urgent new lithium supply chains direct from Australia to the UK and Europe

EXPERIENCED BOARD AND MANAGEMENT TEAM



PAUL ATHERLEY NON-EXECUTIVE CHAIRMAN

Paul has extensive capital markets and industry experience. He is Founding Director of **PENSANA PLC** and has completed numerous successful acquisitions and financings of resource projects in Europe, China, Australia and Asia.

TVL



TONY VEITCH CHIEF EXECUTIVE OFFICER INTERNATIONAL

Tony has over 20 years' experience in senior corporate leadership roles in Western Australia and the UK. Recently, he was founding director of MACH **ENERGY AUSTRALIA** and **ATLANTIC VANADIUM.**



SAM QUINN NON-EXECUTIVE DIRECTOR

> Sam is a corporate lawyer with over 20 years' worth of experience in the natural resources sector, in both legal counsel, finance and management positions.

VIKKI ROBERTS LITHIUM SUPPLY CHAIN ADVISOR

Vikki has extensive experience in the battery supply chain industry. Recently led the supply chain strategy. development and control at JOHNSON MATTHEY **PLC**. Vikki has expertise in innovative industries related to sustainable technologies.

PROJECT DELIVERY LEADERSHIP TEAM



RYAN HANRAHAN

PROJECT DIRECTOR

Ryan has been involved in the lithium industry for 20 years. Qualified as a Mechanical Engineer Ryan's key experience is in the development of projects from concept to financing, and through to implementation. Ryan has played a key role in multiple major Lithium Hvdroxide developments in Australia, Asia and Europe.



DR JINGYUAN LIU, PHD PRINCIPAL PROCESS **SPECIALIST**

Dr Liu is a globally recognised leader in the processing of Lithium Chemicals. with 5 years of operational experience at the world's first continuous lithium chemical plant. Jingyuan has delivered process design, on site commissioning and due diligence to multiple significant Lithium Hydroxide developments in Australia, Europe and Asia.



FUAD SILLEM **BUSINESS DEVELOPMENT**

COMMERCIAL MANAGER MANAGER

ALEX DELLA BOSCA

MOLLY ELDRIDGE HEAD OF INVESTOR RELATIONS



MARKET AND TECHNICAL ADVISORS

MARKET INTELLIGENCE

Benchmark Minerals Intelligence Market forecasts

Conrad Partners Feedstock pricing

Exa-watt Strategic consulting

NOF & NEPIC Supply chain

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WILTON TECHNICAL

DWD Planning application

Sembcorp Wilton International plug and play services

PD Ports *Transport logistics and port services*

ITP Energised Environmental Impact Assessment

Minviro Life-cycle assessment

PROCESSING TECHNICAL

WAVE International Processing facility design

ANZAPLAN Benchscale electrochemical testwork

JordProxa Crystallising testwork & design

NAGROM Benchscale metallurgical testwork **RESEARCH INITIATED BY LONDON BROKERS SHARD AND VSA**

(Current share price circa £2.80/share)

SHARD CAPITAL

Firmly at the front of the pack

- Fast-track credentials, envied low capital intensity and a superlative site location
 - Major de-risking event box ticked
 - Upgraded target price

TEES

£12.28/share

target price

VSA CAPITAL

Fast-tracked, scalable and green
Differentiated by processing
lithium sulphate and
electrochemical process
Only pure play listed conversion
exposure

Upgraded target price

£10/share target price

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