

# UK REFINERY TO SUPPLY BATTERY METAL TO THE EUROPEAN MARKET

Building the UK's first independent, battery metals refinery, processing high-value imported intermediate material into battery grade chemicals

- 100% owned Tees Valley Lithium, located in Teesside Freeport
- Wilton Chemical Park site secured, fully engineered with full planning permission and EIA approval
- Initial focus on Lithium with potential to expand to Manganese and Graphite

Advanced discussions and MOUs with Feedstock suppliers and Offtake parties

- Includes global OEMs, trading houses and leading chemicals companies;
- Initial focus on Lithium carbonate from South America;
- Future supply of high value, intermediate product from Port Hedland plant in Australia

Highly experienced Board and Management team

- Strong financial backing, Mezzanine and Green Bond Finance
- UK Government support



# CHINA DOMINATES LITHIUM REFINING CONTROLLING OVER 80% OF THE WORLD'S LITHIUM SUPPLY CHAIN



Asia currently consumes 80% of global lithium production

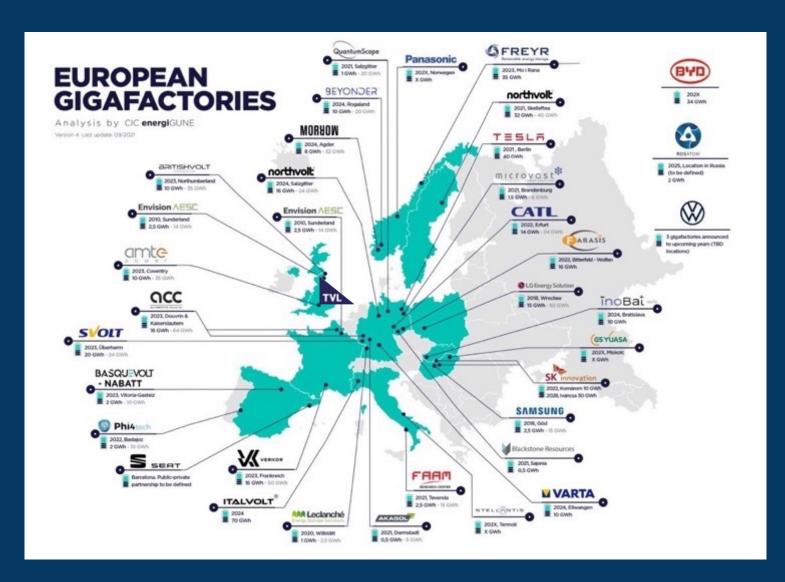
Forecast to rise to >100% by 2030

Whilst global demand is rising

The bottleneck is refining capacity



## **CURRENTLY NO LARGE-SCALE REFINERY CAPACITY IN EUROPE**



To support the EV and battery storage OEMs Europe is planning 700 GW of Gigafactories by 2025..

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



A NEW LITHIUM REFINERY FOR EUROPE

Producing up to 96,000 tpa of battery grade Lithium across four trains

- Utilising proven refining technology
- First of four trains in production 18mths post financing

### **UK** uniquely positioned with

- World class chemical park and expertise
- Low-cost sustainable offshore wind power
- Tax relief in Freeports
- UK Government Support
- Strong interest from financiers



# LOCATED AT THE WILTON INTERNATIONAL PLUG & PLAY CHEMICALS PARK



TVL will be the first major ultra-low carbon Lithium refinery to be established in Europe

Located in a world-class chemicals park, shovel-ready with full planning permission received on a *plug & play* basis.

Low capital cost with major power, reagent and utilities provided by owner Sembcorp Energy UK and port logistics by PD Ports

Zero-waste facility selling by-products to neighbouring businesses

# MULTIPLE FEEDSTOCKS PRODUCING BOTH HYDROXIDE AND CARBONATE FOR NMC AND LFP BATTERIES



Utilising proven technology, TVL's processing allows for flexibility in feedstock and has the ability to produce both LHM and LCE.

Base case is lithium carbonate from South America



# POWERED BY LOW-COST RENEWABLE ENERGY

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

UK Government offering low cost, zero carbon Synthetic PPA ahead of direct private wire connection to offshore Wind



# LOW COST, LOW EMBEDDED CARBON PRODUCTS

#### **TRANSPORT**



Transporting Primary
Lithium Sulphate
reduces Lithium
hydroxide transport
CO2 by up to 50%

180ktpa SC6

41ktpa Li2SO4 PROCESSING & SALEABLE BY-PRODUCTS



Electrochemical refining recycles reagents creating circular economy.

Zero-waste facility with byproducts sold to neighbouring companies.

#### **RENEWABLE ENERGY**

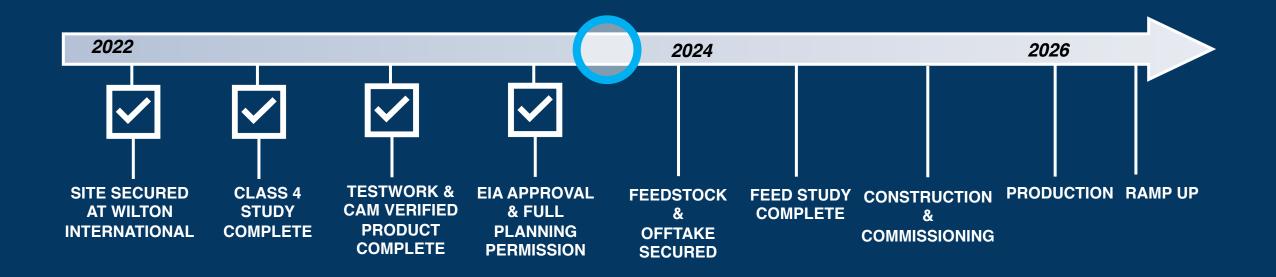


Powered by 100% certified green energy at Wilton from the outset with option to move to a direct connection to offshore renewable energy within 2 years.



## PROGRESSING RAPIDLY FROM CONCEPT TO DELIVERY

TVL planned to commence production in 2026.





# **COMPELLING PROJECT ECONOMICS**

	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



## **ALKEMY MANAGEMENT TEAM**



PAUL ATHERLEY

CHAIRMAN



SAM QUINN
DIRECTOR



CONRAD MULHERIN
CHIEF COMMERCIAL OFFICER



VIKKI JECKELL SUPPLY CHAIN ADVISOR



FUAD SILLEM

BUSINESS DEVELOPMENT

MANAGER



ALEX DELLA BOSCA

COMMERCIAL MANAGER



MOLLY ELDRIDGE

HEAD OF INVESTOR RELATIONS



TBA EXECUTIVE



TONY VEITCH

CEO

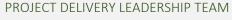
PORT HEDLAND LITHIUM



TBA

CEO

TEES VALLEY LITHIUM





RYAN HANRAHAN
PROJECT DIRECTOR



DR JINGYUAN LIU, PHD
PRINCIPLE PROCESS SPECIALIST



# **CORPORATE PROFILE**

Market Cap £10M

52 week high-low £3.83 / £1.06

Shares Outstanding 8,164,851

Research Coverage

VSA October 2023 Target price: £15.30





## **INVESTMENT SUMMARY**

- Unique opportunity to gain direct exposure to the biggest energy transition in history, represented by the demand for EVs and energy storage
- TVL located in Teesside Freeport inside world-class, plug and play, Wilton
  Chemical park, linked to offshore wind, with proven technology and a low
  capital cost, shovel-ready site
- Very strong interest from global OEMs, international trading houses and leading Chemicals companies
- Strong interest for funding from Mezzanine and Bond Financiers at TVL level
   reducing dilution for Alkemy investors
- Strong news-flow over coming weeks as TVL moves to finalise Feedstock and Financing

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