



**TARGETING NET ZERO WITH
WORLD-CLASS LITHIUM HYDROXIDE
PRODUCTION IN THE UK**

**TEES
VALLEY
LITHIUM**

ALKEMY CAPITAL INVESTMENTS LTD (ALK.L)

TEES VALLEY LITHIUM – COMPANY PRESENTATION

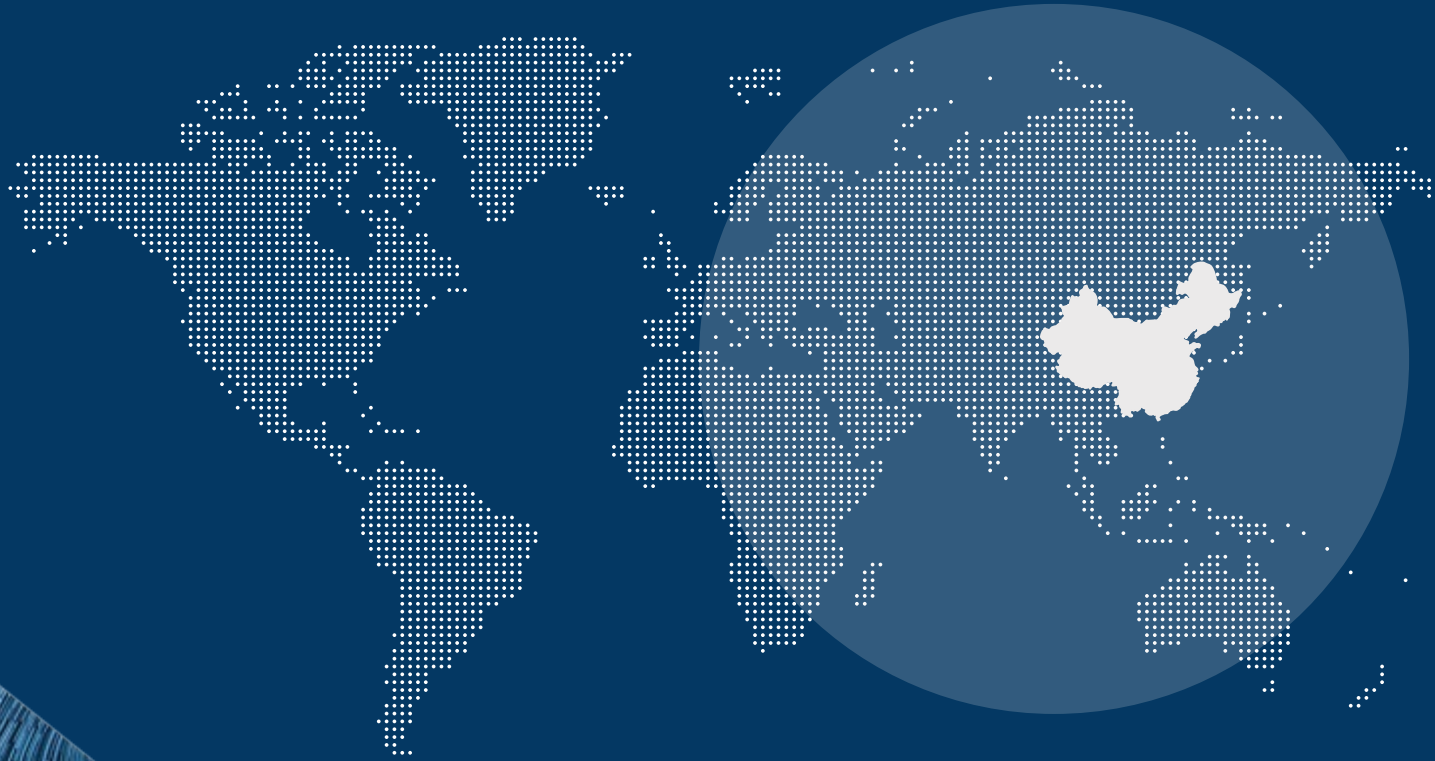
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LITHIUM DEMAND EXPECTED TO GROW BY 600% OVER THE NEXT DECADE

Benchmark Minerals

“The rapid demand growth from electric vehicle battery makers is soon to be overtaken by the demand for storage of renewable electricity”

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

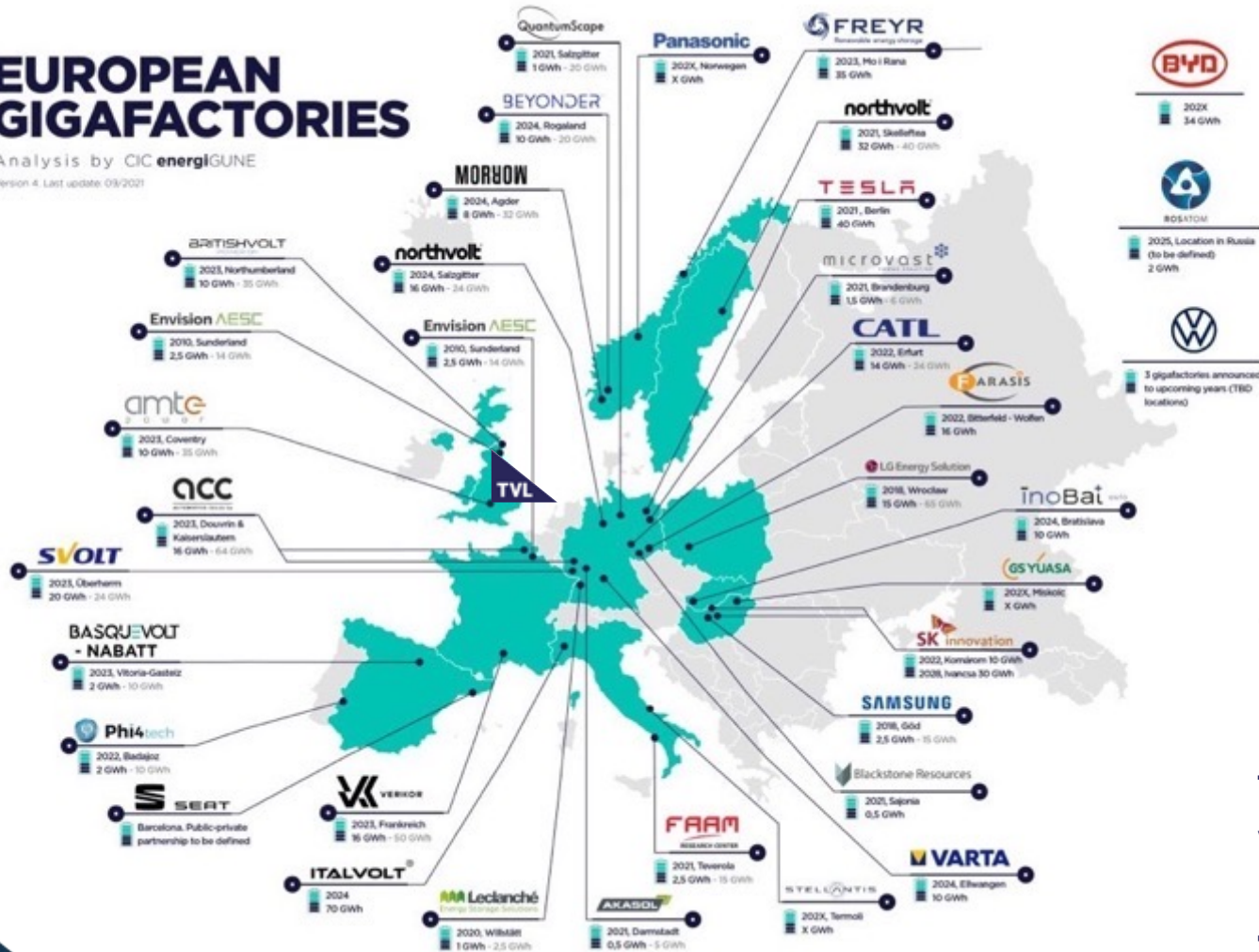


China will need all of its Lithium production for its' US\$11 trillion Carbon Neutral 2060 plan.

EUROPEAN GIGAFACTORIES

Analysis by CIC energiGUNE

Version 4, Last update: 03/2021



Europe will have 543 GW of Gigafactories by 2025.

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

There is currently zero Lithium Hydroxide production capacity in Europe.

A NEW LITHIUM HYDROXIDE HUB FOR EUROPE & THE UK

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

Equivalent to 15% European demand
by 2030.



WILTON INTERNATIONAL PLUG & PLAY CHEMICALS PARK

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

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

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



Semcorp Energy UK 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 Semcorp's strategic goals."

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

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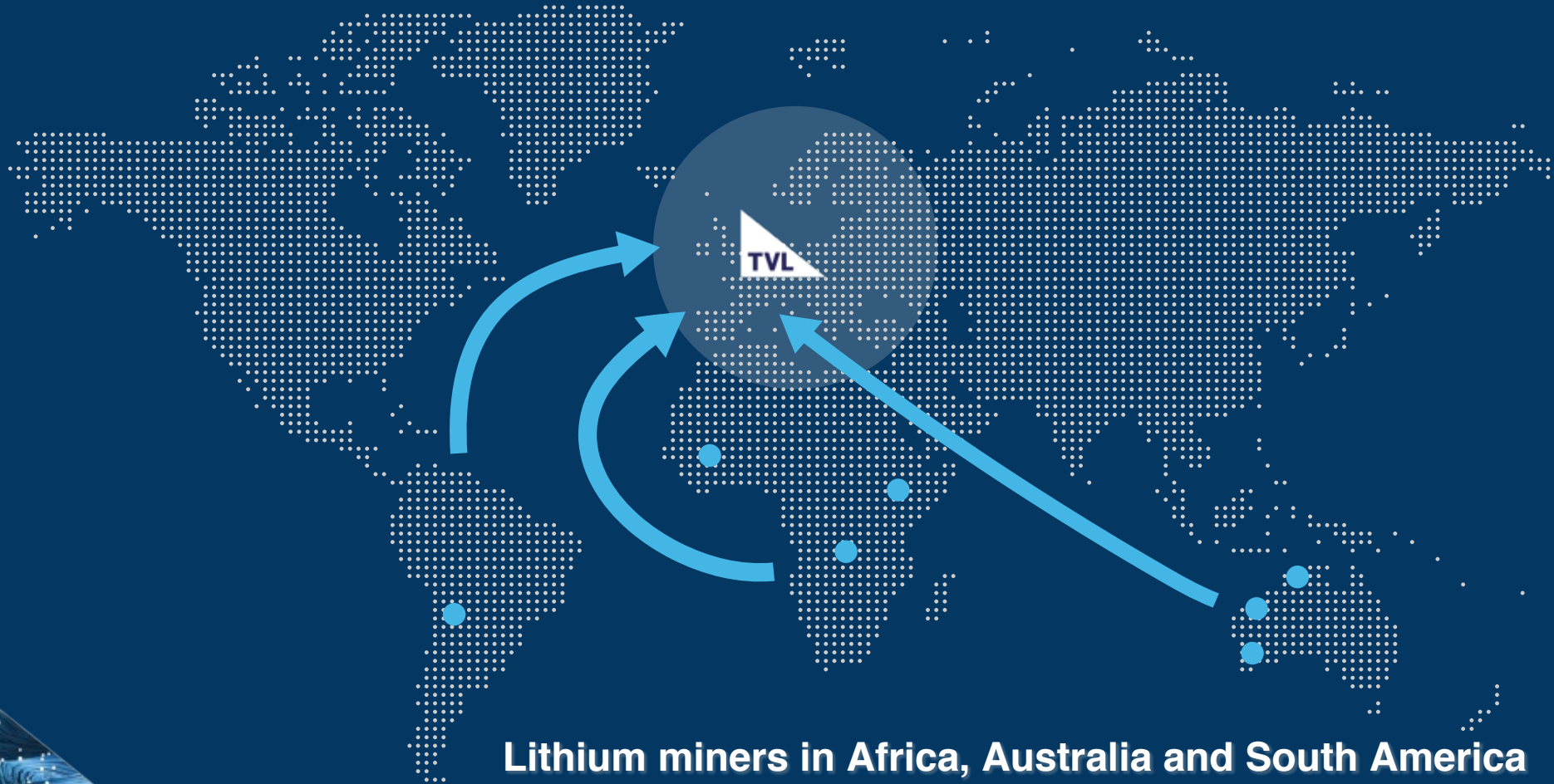


TEESSIDE FREEPORT TO ESTABLISH WILTON AS INTERNATIONAL PROCESSING HUB

Range of benefits is expected to include enterprise zone incentives and customs zone:

- Business rates relief for five years of operation
- National insurance relief for new employees
- Discounts on land tax and stamp duty
- 130% deduction for main pool assets
- Import and Export Tariff Free
- Part of the UK Government's Levelling Up strategy

ACCESS TO THE PREMIUM-PRICE EUROPEAN MARKET VIA INTERNATIONAL PROCESSING HUB



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



“Mining process currently accounts for roughly half of the carbon footprint of a battery cell.

The best way to reduce the carbon footprint of minerals is to stop shipping them across 9,000 kilometres of ocean before refining them”

**Robyn Denholm
Tesla Chairman**



Shipping accounts for 2.6%
of global carbon emissions



Australian spodumene miners ship
97.5% waste

Opportunity for Lithium Miners to multiply revenue stream and significantly reduce carbon footprint - *without getting into Chemical Engineering.*

By producing a Primary Lithium Sulphate, rather than a Spodumene Concentrate (6% Li_2O), miners can significantly reduce their carbon footprint by shipping less waste and:

- Increase revenue by (>450%) and participate in downstream revenue.
- Reduced CAPEX over a Lithium Hydroxide plant by 45%, typical 24ktpa Lithium Hydroxide plant in Australia costs US\$350 million.
- Access the rapidly emerging premium-priced European market and diversify revenue stream away from small number of existing converters.
- Avoid the Chemical Engineering complexities of consistently producing, handling, storing, developing the market and gaining accreditation for a short shelf-life, battery-grade Lithium Hydroxide.

WILTON INTERNATIONAL PLUG & PLAY CHEMICALS PARK

Opportunity for Feedstock suppliers to supply four individual trains of 24,000 tpa.

First 24,000 tpa train to be commissioned in 2024.

Feedstock suppliers gain access to the premium-price European market via international Freeport ahead of Carbon Border tax.



LOW CARBON BATTERY-GRADE LITHIUM HYDROXIDE FOR THE EUROPEAN MARKET

Source solid-form, high-value intermediate products,
such as Lithium Sulphate.

Convert these intermediate products into battery-grade
Lithium Hydroxide for UK and EU customers.

Become a reliable, local supply of high-purity Lithium
Hydroxide with consistent battery-grade quality for the
European battery makers.



TARGETING NET ZERO WITH OFFSHORE WIND AND CERTIFIED RENEWABLE ELECTRICITY

Tees Valley Lithium's process is Low Carbon, powered by 100% certified renewable electricity provided by Sembcorp at Wilton International.

Planning low-carbon electrochemical process route powered by combination of direct-wire offshore wind combined with large scale battery storage.



EXPERIENCED MANAGEMENT TEAM



PAUL ATHERLEY

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.



JOHN WALKER

CHIEF EXECUTIVE OFFICER

John has over 30 years of leadership experience in the mining and advanced materials processing industries with **IMERYS**. Most recently, John has been providing strategic advice to lithium projects such as **PIEDMONT LITHIUM**.



TBA

CHIEF FINANCIAL OFFICER



TBA

CHIEF OPERATING OFFICER



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.



ROBERT GRUAR

TECHNOLOGY CONSULTANT

Robert has 15 years of experience in the batteries industry and has held several senior roles across the batteries value chain. Most recently he has been providing strategic and technical advice to **UK OEM's** and previously held senior roles at **DYSON** and **SHARP**.



TBA

PROJECT MANAGER



FUAD SILLEM

BUSINESS DEVELOPMENT MANAGER



ALEX DELLA BOSCA

COMMERCIAL MANAGER



MOLLY ELDRIDGE

HEAD OF INVESTOR RELATIONS

KEY PROJECT ECONOMIES

(£ millions)

	24,000 tpa	48,000 tpa	72,000 tpa	96,000 tpa
Incremental Capex	177	217	217	217
Post-Tax NPV	1,003	1,934	2,865	3,797
Post-Tax IRR	64%	51%	51%	54.3%
Annual Revenue	432	864	1,296	1,728
Annual EBITDA	130	257	384	511
Annual NPAT	102	201	300	399

- Assumes a long term LSM price of US\$10,000/t and LiOH price of US\$25,000/t
- The initial 24,000 tpa will process via causticisation and thereafter via electrochemical

Experienced Chemicals Industry team establishing the UK's first major Lithium Hydroxide producer to meet the burgeoning demand from European Giga-factories

Being constructed in the world-class *plug and play* Wilton International Chemicals Park and TEESSIDE FREEPORT

Using a renewable-powered electrochemical process route to produce up to 96,000 tpa (*equivalent to ~15% of European demand*) of low-carbon Lithium Hydroxide

**Stage 1 Economics CAPEX £177 million
IRR 64% EBITDA £130 million NPV £1.0 billion**

**TVL is a 100% owned subsidiary of LSE listed
Alkemy Capital Investments Limited (ALK.L)**

**TEES
VALLEY
LITHIUM**

MARKET AND TECHNICAL ADVISORS

MARKET INTELLIGENCE

Benchmark Minerals Intelligence

Market forecasts

Conrad Partners

Feedstock pricing

Exa-watt

Strategic consulting

NOF & NEPIC

Supply chain

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

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