



**WORLD-CLASS LITHIUM HYDROXIDE  
PRODUCTION IN THE UK**

**TEES  
VALLEY  
LITHIUM**

**ALKEMY CAPITAL INVESTMENTS LTD (ALK.L)**

# 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 AND CARBONATE

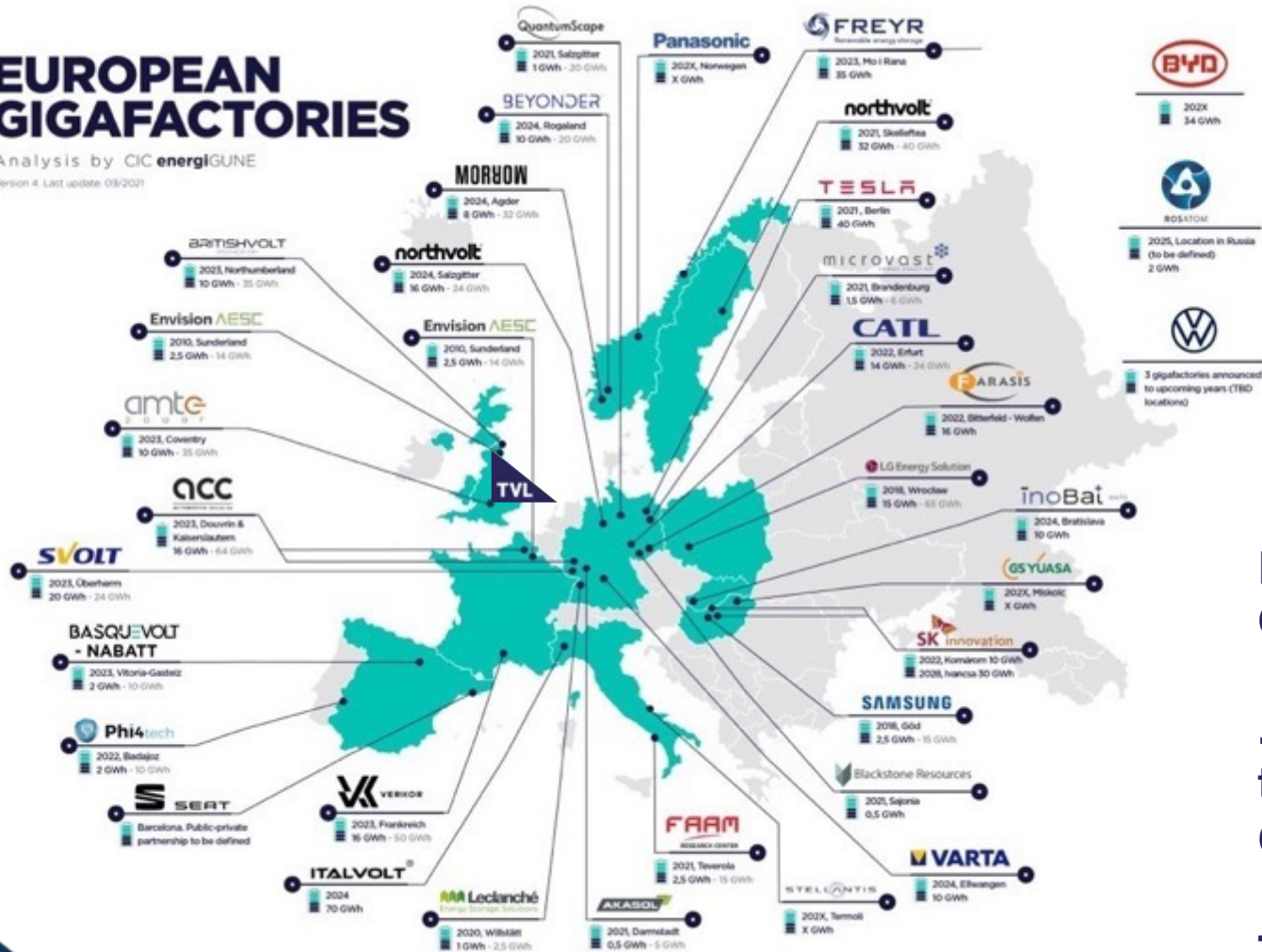


**China will need all of its Lithium production for its US\$11 trillion Carbon Neutral 2060 plan.**

# EUROPEAN GIGAFACTORIES

Analysis by CIC energigUNE

Version 4. Last update: 03/2021



Europe will have 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.

# A NEW LITHIUM HUB FOR EUROPE & THE UK

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

Equivalent to 15% of European demand by  
2030.



# WILTON INTERNATIONAL PLUG & PLAY CHEMICALS PARK

Tees Valley Lithium will be the first major ultra-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 Energy UK 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.**



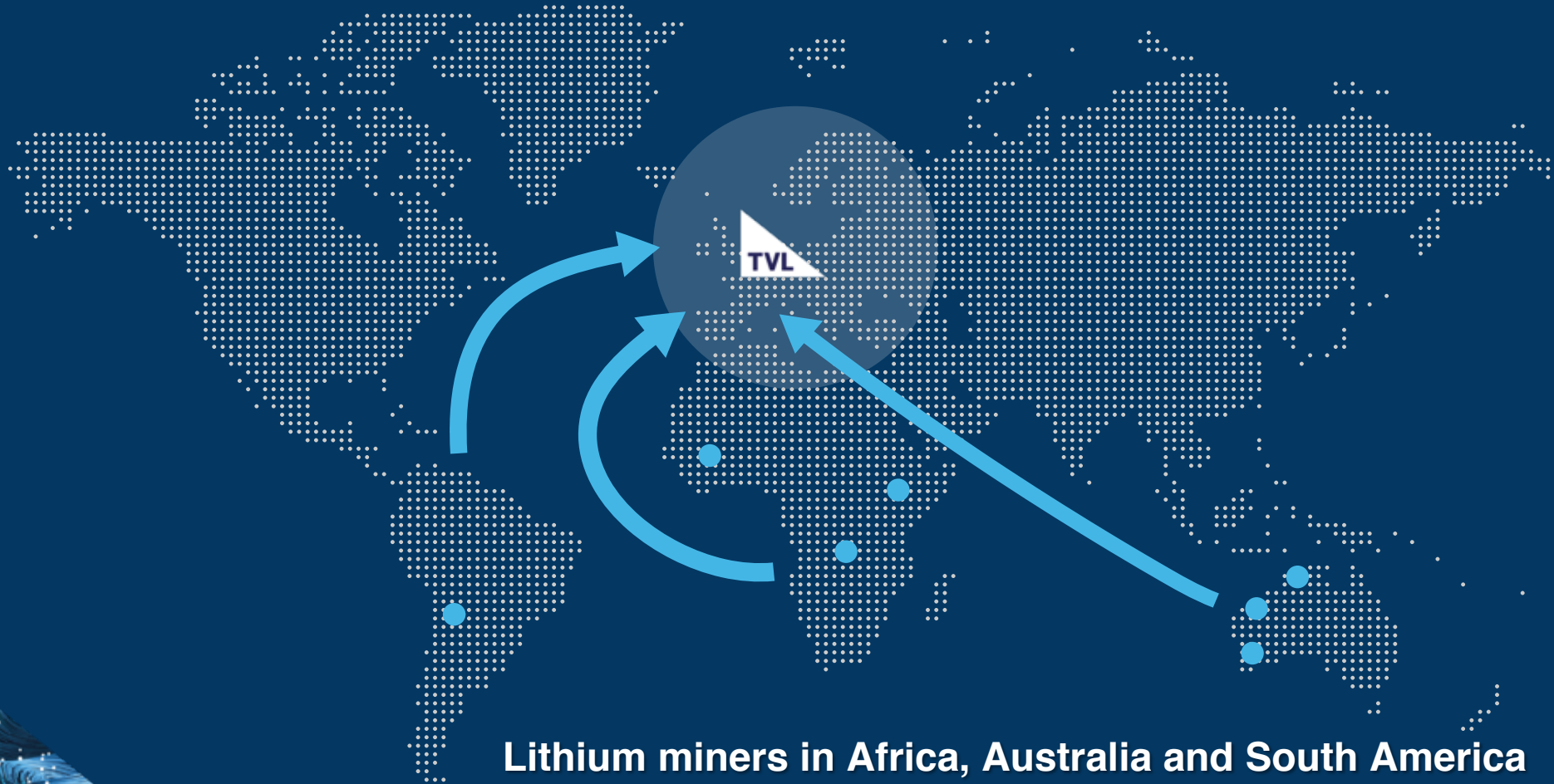
# TEESSIDE FREEPORT TO ESTABLISH WILTON AS INTERNATIONAL PROCESSING HUB

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.

# MULTIPLE FEEDSTOCK PROFILES PRODUCING HYDROXIDE AND CARBONATE FOR NMC AND LFP EV BATTERIES



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

# A PRIMARY LITHIUM SULPHATE CIRCUIT IN THE HEART OF THE WORLD'S LARGEST LITHIUM PRODUCTION REGION

Alkemy to build an intermediate product refinery in Western Australia, the world's largest and most established lithium mining region.

Alkemy has strong existing relationships with WA mining companies and will take existing SC6 to an intermediate product (LSM) before shipping to TVL's Wilton Refinery in the UK.



ALKEMY



# LITHIUM SUPPLY AGREEMENT WITH GLOBAL METALS TRADER, TRAXYS

*“Traxys is pleased to enter into this MOU with Tees Valley Lithium as we share their vision of establishing a strong and robust lithium supply chain in the UK that facilitates the adoption of EV’s and advancement of the energy transition.*”

*We believe Tees Valley Lithium has positioned themselves to be a tier one supplier of lithium hydroxide and are excited to be part of their sourcing strategy, leveraging Traxys’ supply chain finance and management expertise to best serve battery and OEM customers”*

**Traxys Managing Director  
Kevin Smith**

TRAXYS

# FEEDSTOCK SUPPLIERS TO ACCESS PREMIUM MARKET VIA DEDICATED TRAIN

Opportunity for Feedstock suppliers to supply individual trains of 4 x 24,000 tpa.

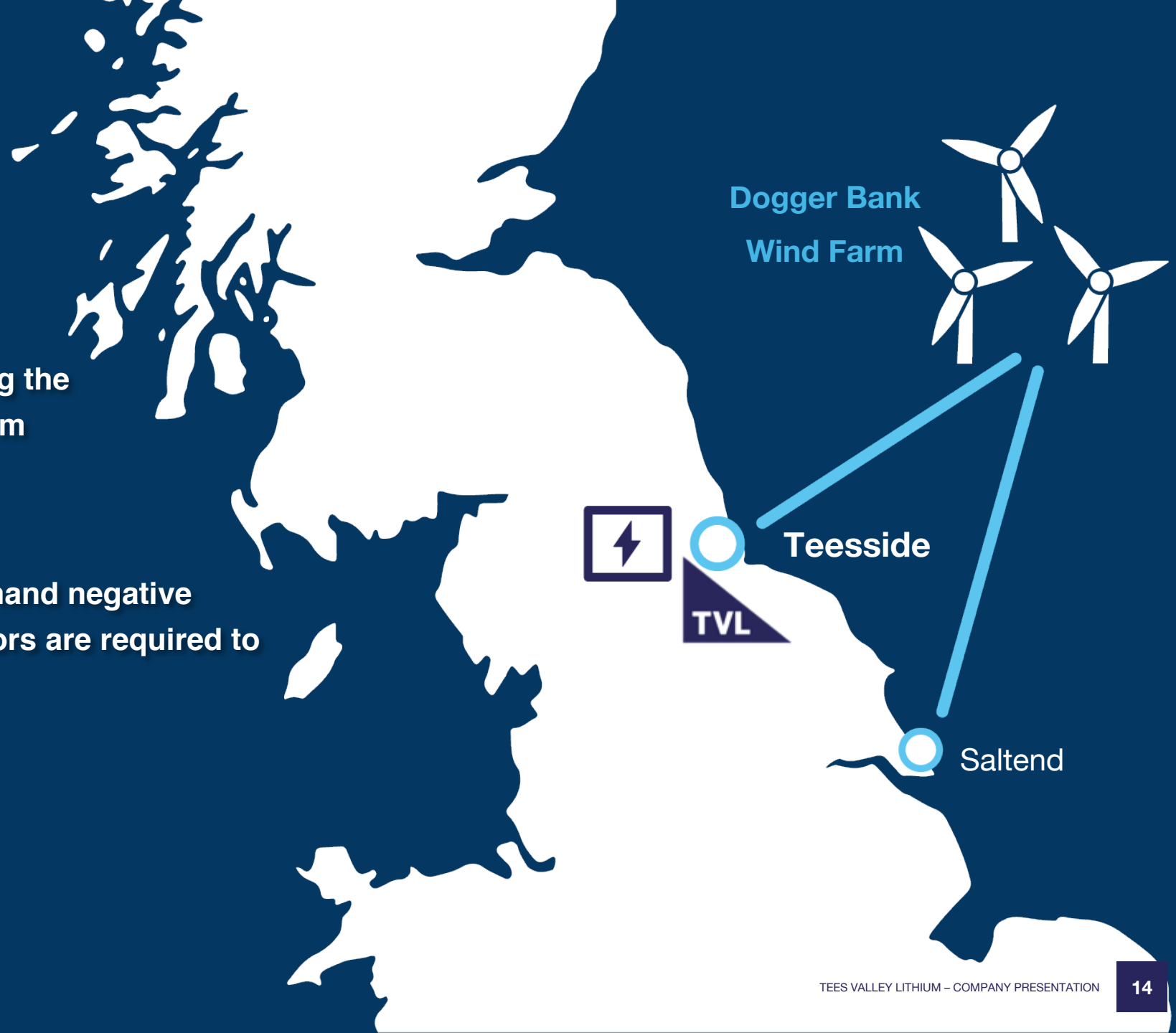
First 24,000 tpa train to be commissioned in 2024.

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

# 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.

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



# KEY PROJECT ECONOMICS (4 TRAINS 96,000 tpa LiOH ONLY)

	Unit	Train 1	TOTAL
Life of Project	Years	30	30
LHM Sold	Tonnes	24 kt pa	2.84 MT
Gross Revenue	USD	600M	71.0bn
Operating Costs Total	US\$/t	18,292	18,513
Capital Cost (incl 17.5% contingency)	USD	288M	1.99bn
Free Cashflow	USD	120M pa	
Post-Tax NPV	USD		2.27bn
Post-Tax IRR	%		32.9%
EBITDA	USD	160M	
EBITDA Margin	%	27%	26%
Payback Period	Years	2.6	

- 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 MANAGEMENT TEAM



**PAUL ATHERLEY**

NON-EXEC  
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 he 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



**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 ultra low-carbon Lithium Hydroxide**

**Multiple feedstocks to produce Lithium Hydroxide (NMC) Lithium Carbonate (LFP) and Nickel Sulphate**

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

# 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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