



**LINKING THE WORLD'S LARGEST LITHIUM MINES  
WITH EUROPE'S GIGAFACTORIES**

**ALKEMY CAPITAL INVESTMENTS PLC (ALK.LSE)  
June 2023**



## ALKEMY CAPITAL INVESTMENTS PLC

Listed on the London Stock Exchange  
(ALK.LSE)

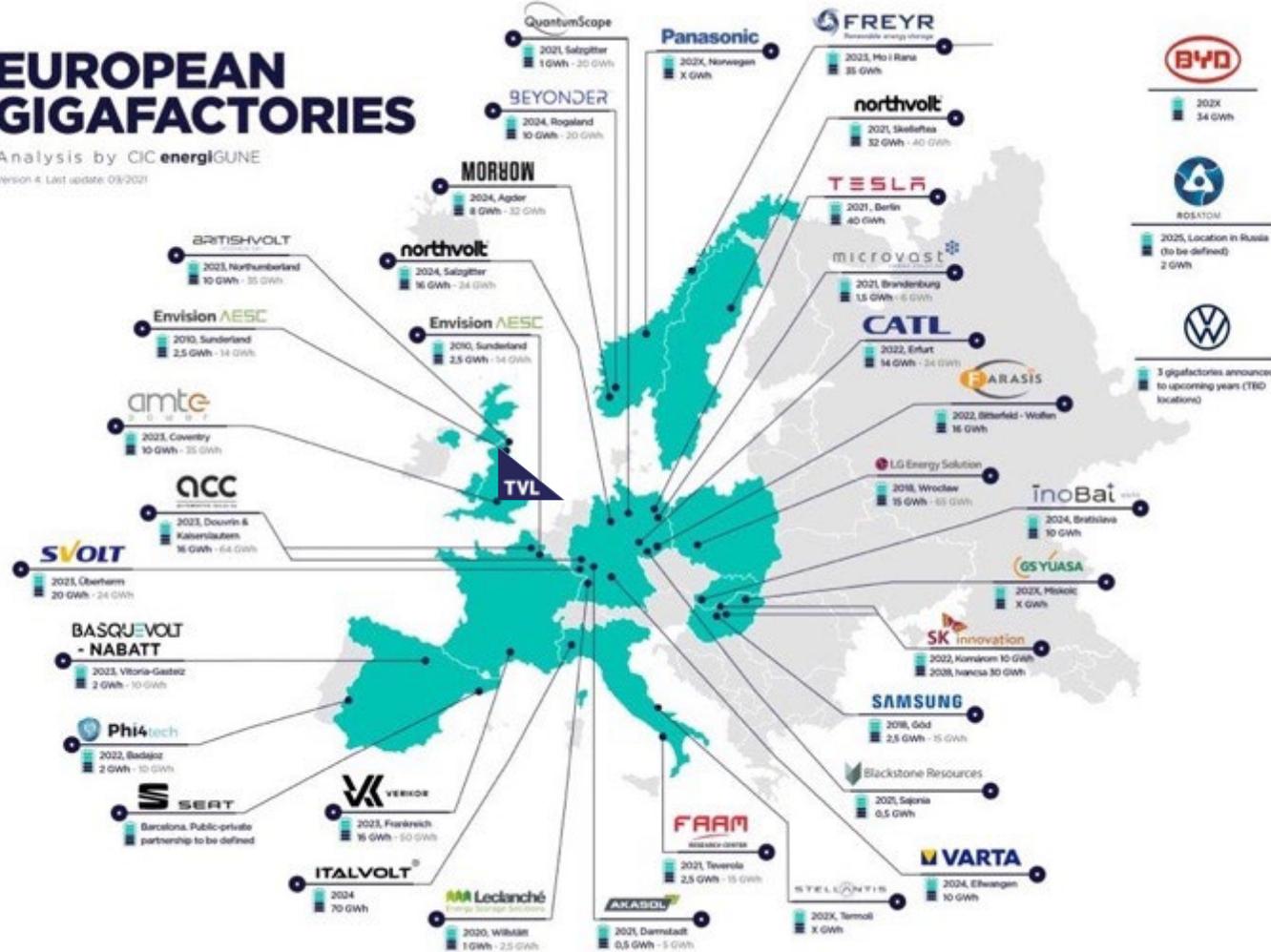
Subsidiaries Tees Valley Lithium and Port Hedland Lithium, will link the world's largest lithium mines with the Europe's burgeoning battery Gigafactories.



# 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 a major shortage of large-scale Lithium production capacity in Europe.



## 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.



## LOCATED AT THE WILTON INTERNATIONAL PLUG & PLAY CHEMICALS PARK TEESSIDE

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

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

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

# 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 jobs.

TEES  
VALLEY  
LITHIUM

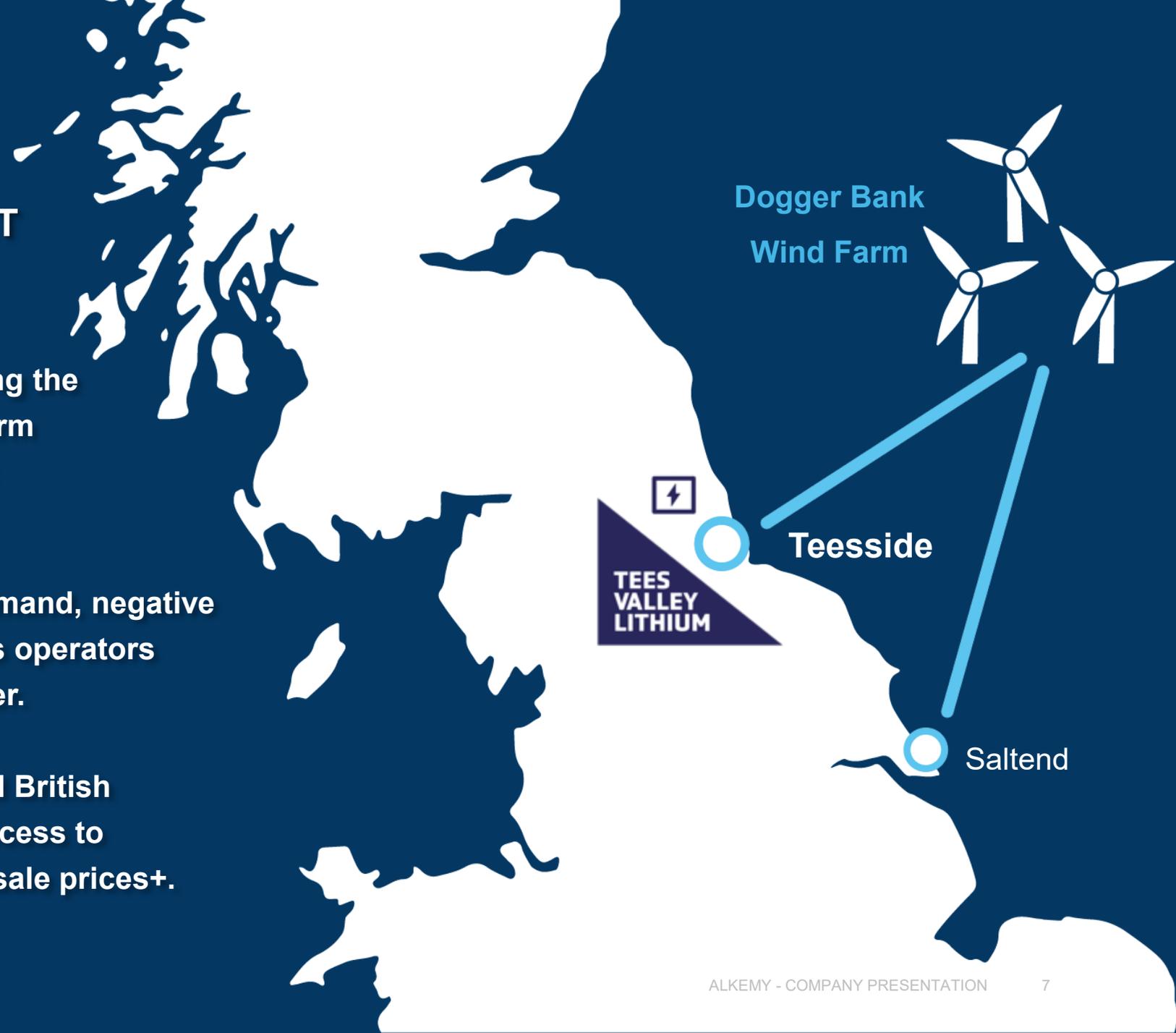
PLANNING PERMISSION GRANTED

## 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 have been generated as operators required to pay consumers to take power.

Energy Intensive Industry subsidies and British Industry Supercharger scheme gives access to *behind-the-meter* green power at wholesale prices+.



Dogger Bank  
Wind Farm

Teesside

Saltend

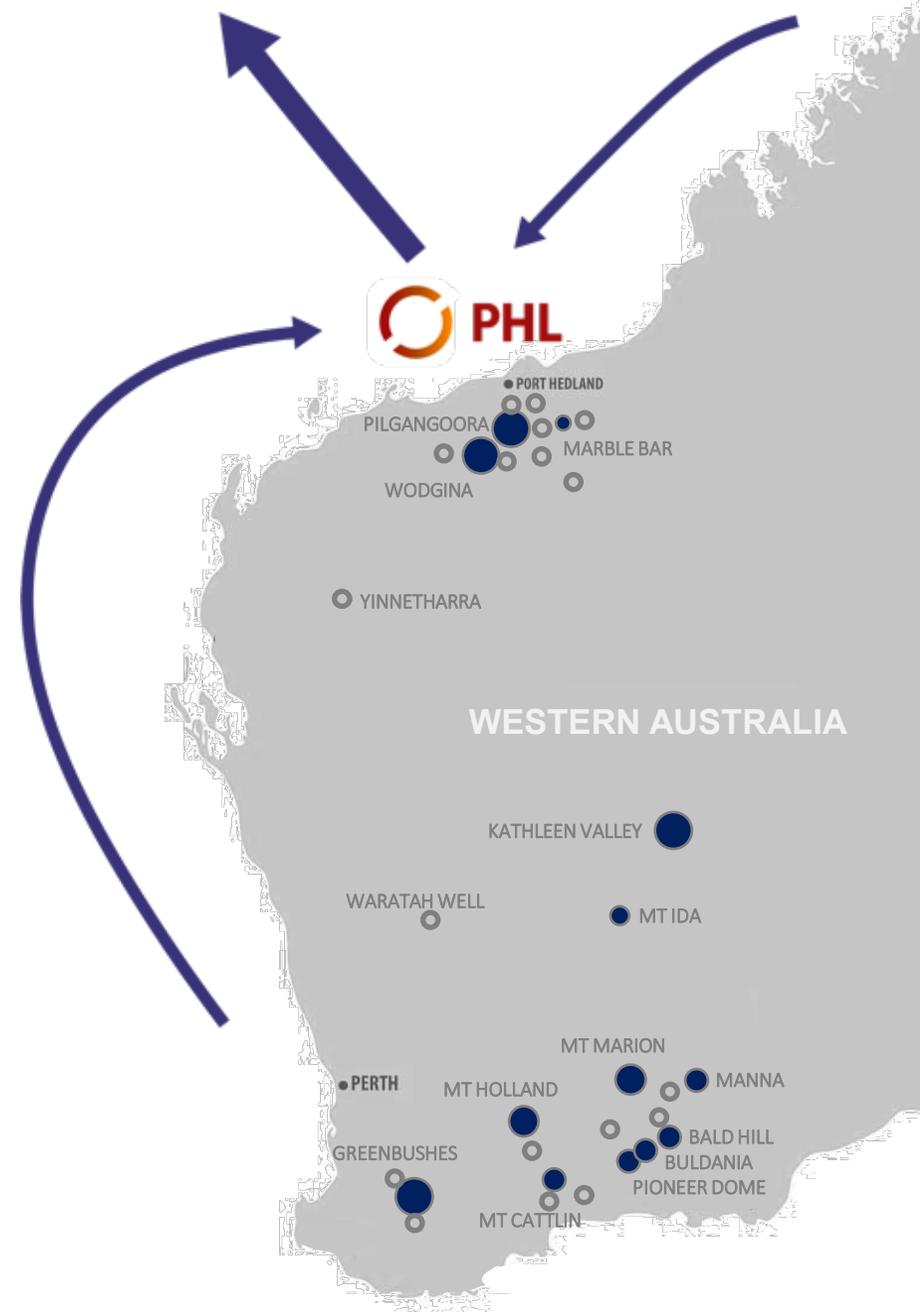
TEES  
VALLEY  
LITHIUM

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

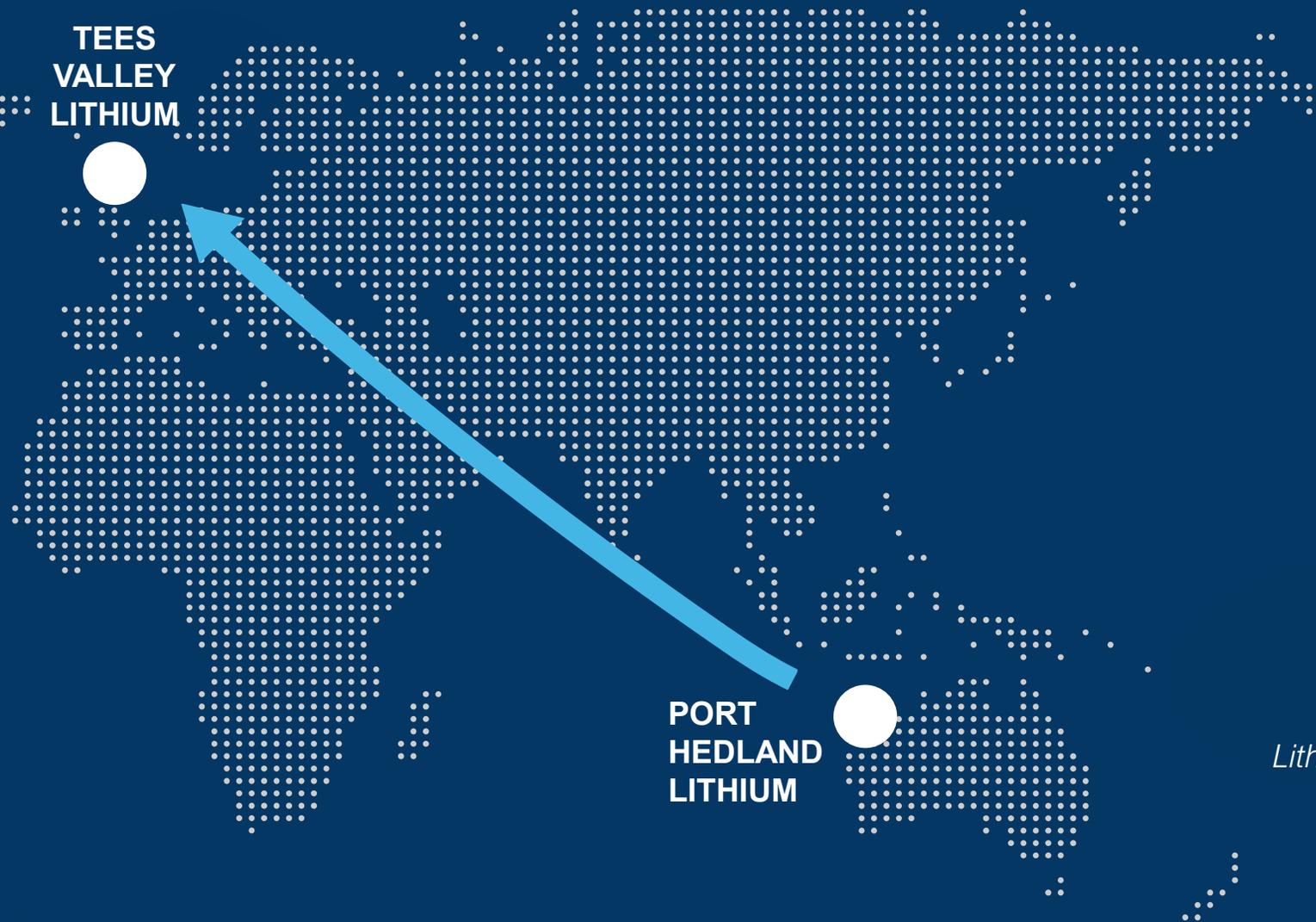
Port Hedland Lithium will supply Lithium Sulphate to Tees Valley Lithium's Hydroxide plant located in Teesside, UK.

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*).

Port Hedland Lithium has been awarded a 43 ha site within Boodarie Strategic Industrial Area, approximately 10km from Port Hedland close to the new Point Lumsden Critical Minerals Wharf.



# FOCUSED ON MID-STREAM LITHIUM REFINING SECTOR



Alkemy 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, Alkemy plans to build two linked refineries in Australia and the UK.



*Lithium Hydroxide Refinery*



*Lithium Sulphate Refinery*



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

Primary Lithium Sulphate

Crude Carbonate (Brine)

Crude Carbonate (Mica)

Recycled Material (EU 2027)

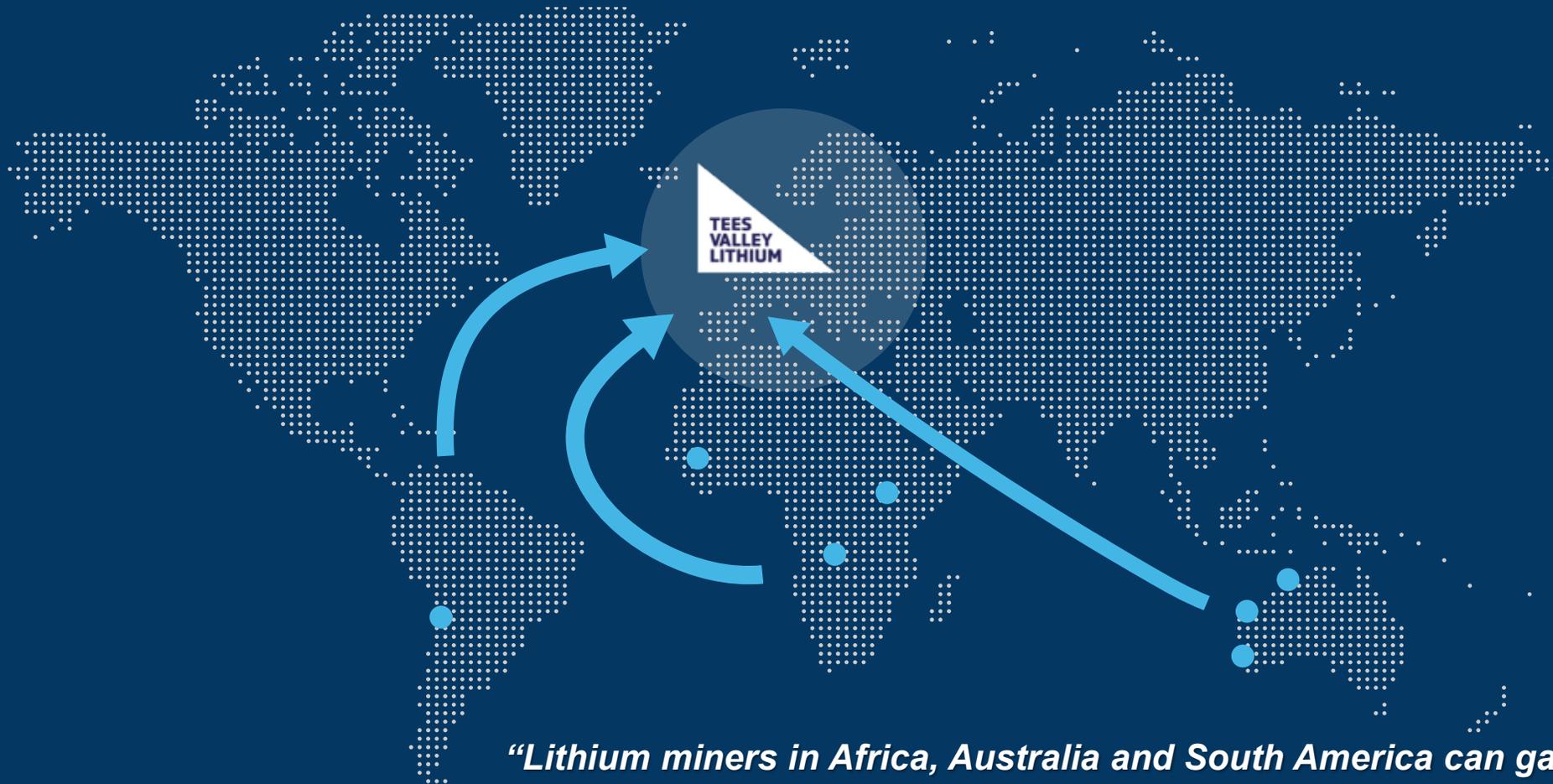


Lithium Hydroxide (NMC)

Lithium Carbonate (LFP)

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



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

# 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.



**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.



**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 Hydroxide 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.

PROJECT DELIVERY LEADERSHIP TEAM



**FUAD SILLEM**  
BUSINESS DEVELOPMENT  
MANAGER



**ALEX DELLA BOSCA**  
COMMERCIAL  
MANAGER



**MOLLY ELDRIDGE**  
HEAD OF INVESTOR  
RELATIONS



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