CleanTech Lithium

Carbon neutral lithium for the EV future

December 2022

CARBON NEUTRAL | BATTERY GRADE LITHIUM | POWERED BY CLEAN ENERGY | SUSTAINABLE EXTRACTION

Our Vision:

Direct Lithium Extraction, powered by clean energy

SEEKING TO BE THE GREENEST LITHIUM SUPPLIER TO THE EV BATTERY MARKET

CTL – A Snapshot

New path for lithium in Chile – low impact, sustainable lithium extraction

- 3 strategic lithium projects in Chile, >500 km^2 licence areas
- Total lithium resources exceed 2 million tonnes LCE – further upgrades due by Q1 2023
- Wholly owned licenced basins – no competing lithium projects in area and no indigenous communities
- Experienced board and management that have developed new major production projects in Chile
- Listed on AIM March 2022 – £9.6m raised in pre-IPO and IPO funds, a further £12.3m raised in November 2022

Project	Licence Area	Resource Estimate (JORC)
#1 Laguna Verde	67 km^2	1.5 million tonnes LCE at 206 mg/L Li
#2 Francisco Basin	110 km^2	0.5 million tonnes LCE at 305 mg/L Li
#3 Llamara *	344 km^2	Greenfield exploration

* The licences will remain applications until they are granted, which the Directors expect will occur imminently.

Board & Management

Strong operational experience, local knowledge and commercial understanding

Board

STEVE KESLER
Non-Executive Chairman

- 45 years of executive and board roles in the mining sector
- Direct lithium experience as CEO/Director of European Lithium
- Chile experience with Escondida and as the first CEO of Collahuasi.

ALDO BOITANO
Chief Executive Officer

- Co-founder of CleanTech Lithium, 25 years of management roles
- Board member of the International Leadership Association.
- Pioneer in Chile's solar industry with >800MW of projects deployed.

JONATHAN MORLEY-KIRK
Non-Executive Director

- 30 years of experience including 17 years in Non-Executive Director roles
- Expertise in financial controls, audit, remuneration, capital raisings, taxation/ structuring and risk management

GORDON STEIN
Chief Financial Officer

- Commercial CFO with over 30 years expertise in energy & natural resources
- A chartered accountant, has worked with start-ups to major companies, including board roles of six LSE companies.

Senior Management

SERGIO VIDELA
Chief Operating Officer, Chile

- 32 years of experience in development and execution of projects in the mining industry.
- Former Projects Director at Codelco in design, procurement, construction and start up of process plants.

JASON BAVERSTOCK
Executive Strategy & Development

- Co-founder of CleanTech Lithium, 20 years finance and mining sector experience in China, HK & Australia.

Technical Advisory Board

MARCELO BRAVO
Ad-Infintum

- One of the worlds leading lithium processing experts.
- Former head of processing at SQM's Atacama project, the worlds largest lithium production base.

Post IPO – Active 8 Months

Exploration, resource expansion and defining battery grade lithium

IPO
£5.6m
Raised

- Environmental Impact Assessments commenced at both projects
- Scoping Study at Laguna Verde advanced
- Produced 1kg of battery grade lithium
- Application for the Llamara Project
- New lithium discovery at Francisco Basin
- Maiden resource at Francisco Basin
- Expanded & upgraded resource at Laguna Verde

*further £12.3m raised in November 2022

Strategy

Sustainable value creation

Strategic projects
- Laguna Verde
- Francisco Basin
- Llamara

Resource/Reserve Development

Utilise
- Direct Lithium Extraction
- Clean power

Best in class sustainable technologies

Produce battery grade lithium

Target carbon neutral
- Lowest environmental impact

Strategic partners/ Off-take

Direct supply into
- EV market

Delivering long-term sustainable growth and returns to all stakeholders

CleanTech Lithium

Projects

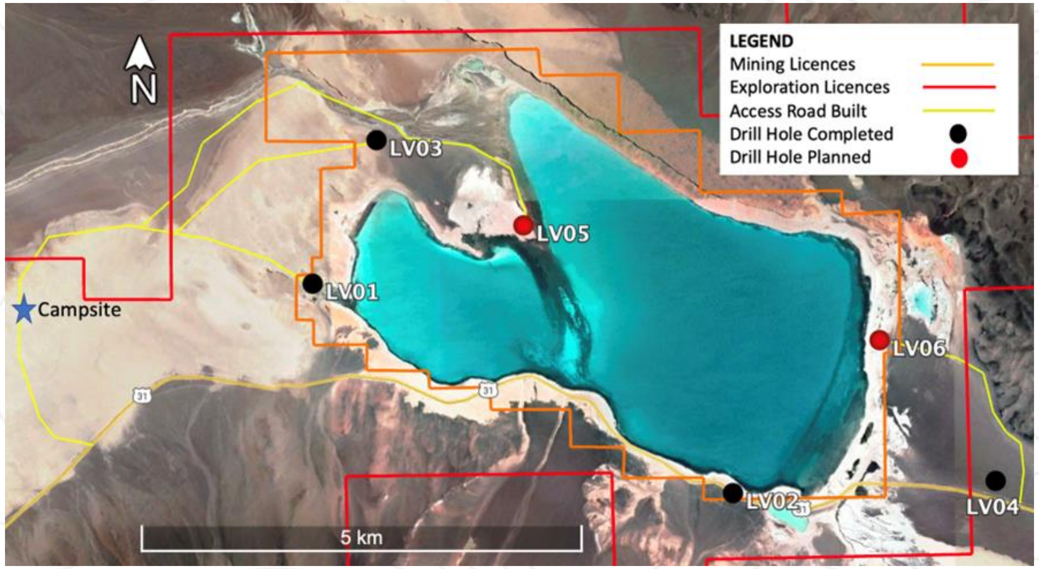
LOCATED IN THE LITHIUM TRIANGLE

#1 Laguna Verde

- A resource drill programme comprising four holes completed 1H 2022
- Produced JORC compliant resource estimate of 1.5 million tonnes LCE at 206mg/L lithium - majority of resource was upgraded to Measured + Indicated:
- New two well drilling campaign (LV05 & LV06) started in November 2022
- Current estimate has large upside, further upgrade expected 1Q 2023

JORC Resource	Measured	Indicated	M+I	Inferred	Total
Lithium (million tonnes LCE)	0.2	0.6	0.8	0.7	1.5
Grade (mg/L Li_3CO_2)	211	205	206	205	206

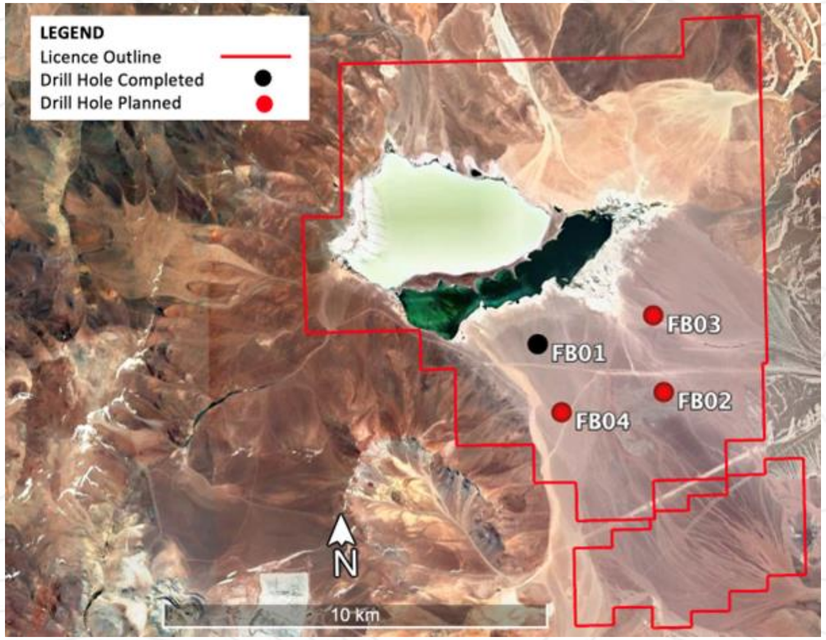
- Higher grades at depth (up to 409mg/L in deepest samples)
- Strong geothermal influence on brines, average 20–30°C, matches ideal temperature range for DLE process (significant potential opex saving)
- Makes Laguna Verde the shallowest geothermal influenced brine in the world, with these elevated temperature within 65m of surface
- Scoping study advanced, pre-feasibility study (PFS) planned to commence in Q4 2022
- Environmental Impact Statement baseline studies underway



Drilling at LV01 1H 2022

#2 Francisco Basin

- New lithium discovery August 2022
- Hole FB01 completed, 34 brine samples collected from aquifer zone, average lithium grade of 305mg/L
- JORC compliant Inferred resource estimate of 0.5 million tonnes LCE, based on FB01results
- Further three drill holes (FB02, FB03 & FB04) planned post the Chilean winter break – commencing before end December 2022
- Planned upgrade resource estimate to Measured + Indicated by early 2023
- Drilling is wide diameter cased bores, convertible to production bores in a commercial operation
- Scoping study commenced Q4 2022, pre-feasibility study planned for 1H 2023
- Environmental Impact Statement baseline studies underway

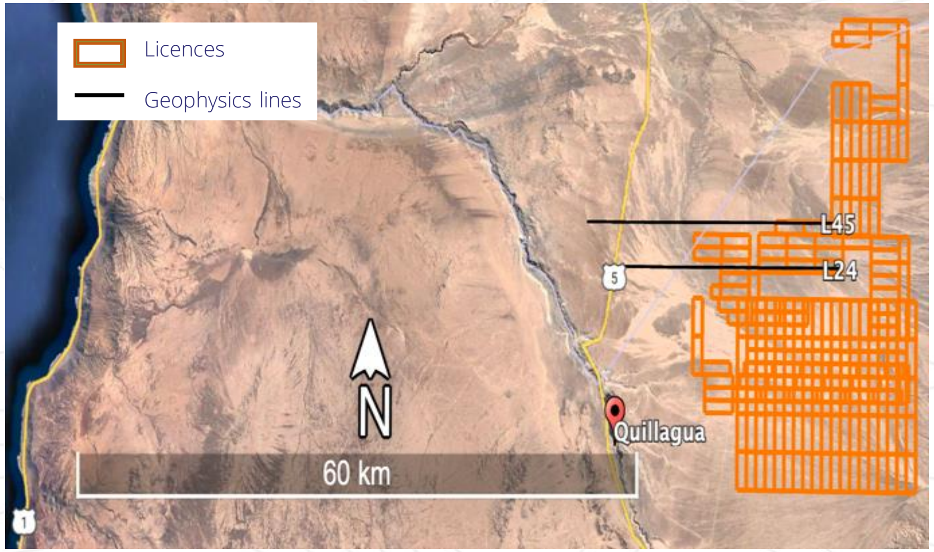


FB01 Rig – April 2022

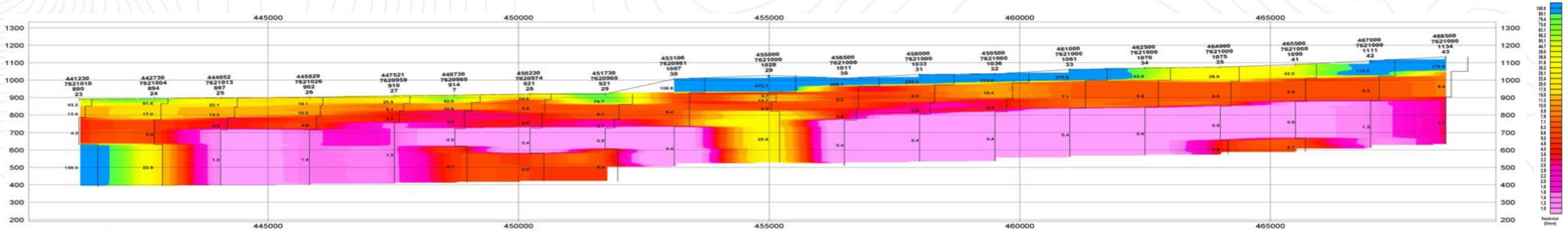
#3 Llamara

- Greenfields project in one of the largest basins in the lithium triangle, not previously drilled for lithium – total licence area 344 km^2

Lithium Triangle Basin	Company	Basin Area (km^2)
Atacama	SQM / Abarmale	18,100
Hombre Muerto	Livent	4,000
Pampa del Tamarugal	CleanTech	17,150



- Historical surface sampling within basin: salt crusts up to 3,100ppm Li, hectorite up to 2,400ppm Li. These evaporite deposits indicate lithium prospectivity of basin brines
- Historical geophysics lines intersecting license area indicate very large hypersaline aquifer
- Exploration drill hole planned in Q4 2022 – subject to the anticipated grant of the licences



CleanTech Lithium

Environmentally Committed

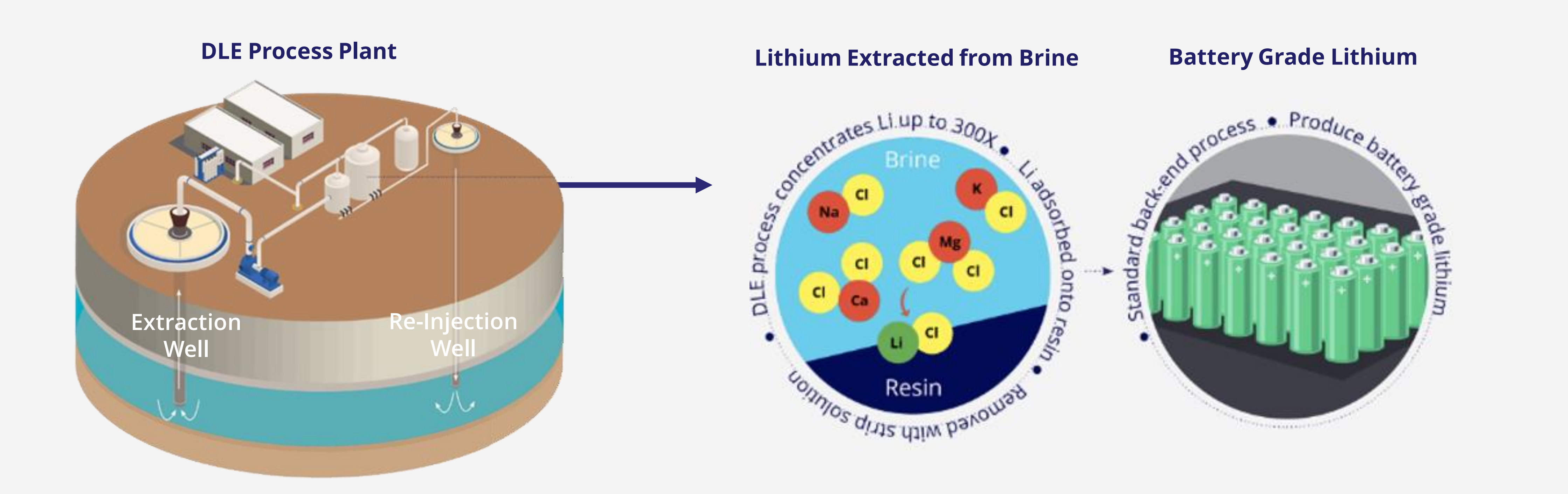
DEDICATED TO NET ZERO

Direct Lithium Extraction

Low Impact and Sustainable

Deploying direct lithium extraction (DLE) technology, a revolution in sustainability for lithium extraction:

- Brine is pumped to processing unit, resin used to extract only lithium, spent brine re-injected
- No evaporation ponds, no aquifer depletion~



DLE: Proven Technology in Various Countries

Pioneering Methodology for Sustainable Lithium Extraction

Producers

Company	CleanTech Lithium	Livent	Lanke Lithium	Zangge Lithium	Jintai Lithium	Eramet/ Qingshan	Standard Lithium	Vulcan Energy	Rio Tinto	CTR	Energy Source Minerals	Berkshire Hathaway	Lake Resources/ Lilac	Compass Minerals	E3 Metals
Asset name	L. Verde / Francisco Basin	Hombre	Qinghai	Qinghai	Qinghai	Centenario-Ratones	Smackover	Zero Carbon Lithium™	Rincon	Hell's Kitchen	ATLiS	Salton Sea	Kachi	Great Salt Lake	Clearwater Lithium
Country															
DLE provider	SunResin	Proprietary	SunResin	SunResin	SunResin	Proprietary	Proprietary	N/A	Axion	Lilac	Proprietary	Proprietary	Lilac	N/A	Proprietary
Stage	Pilot	Production	Production	Production	Production	Construction	Demo	Pilot	Pilot	Offsite pilot	Pilot	Pilot	Offsite pilot	Pilot	Pilot
Resource (Mt LCE)	2.0	N/A	N/A	N/A	N/A	10	3	16	12	3	N/A	N/A	4	2	7
Lithium Grade (mg/L)	206-305	N/A	N/A	50 - 60	N/A	436	168	181	397	181	N/A	N/A	211	71	75
Geothermal	✓	☒	☒	☒	☒	☒	☒	✓	☒	✓	✓	✓	☒	☒	☒
Start date	2025	1998	2017	2018	2019	2024	tbc	2024	2025	2024	2024	tbc	2024	tbc	2025
Capacity (ktpa LCE)	40	20	20	20	7	24	21	40	50	20	20	90	25	20-25	20
Valuation (US$'m)*	$37	$5,490	N/A	N/A	N/A	N/A	$730	$691	$825	N/A	N/A	N/A	$794	$1,320	$100

*Valuations as at 30.09.22

"DLE can massively increase supply, you don't need two years of drying lithium out from the brine. And instead of getting about 40% of lithium out of the brine, you can get more than double the amount."

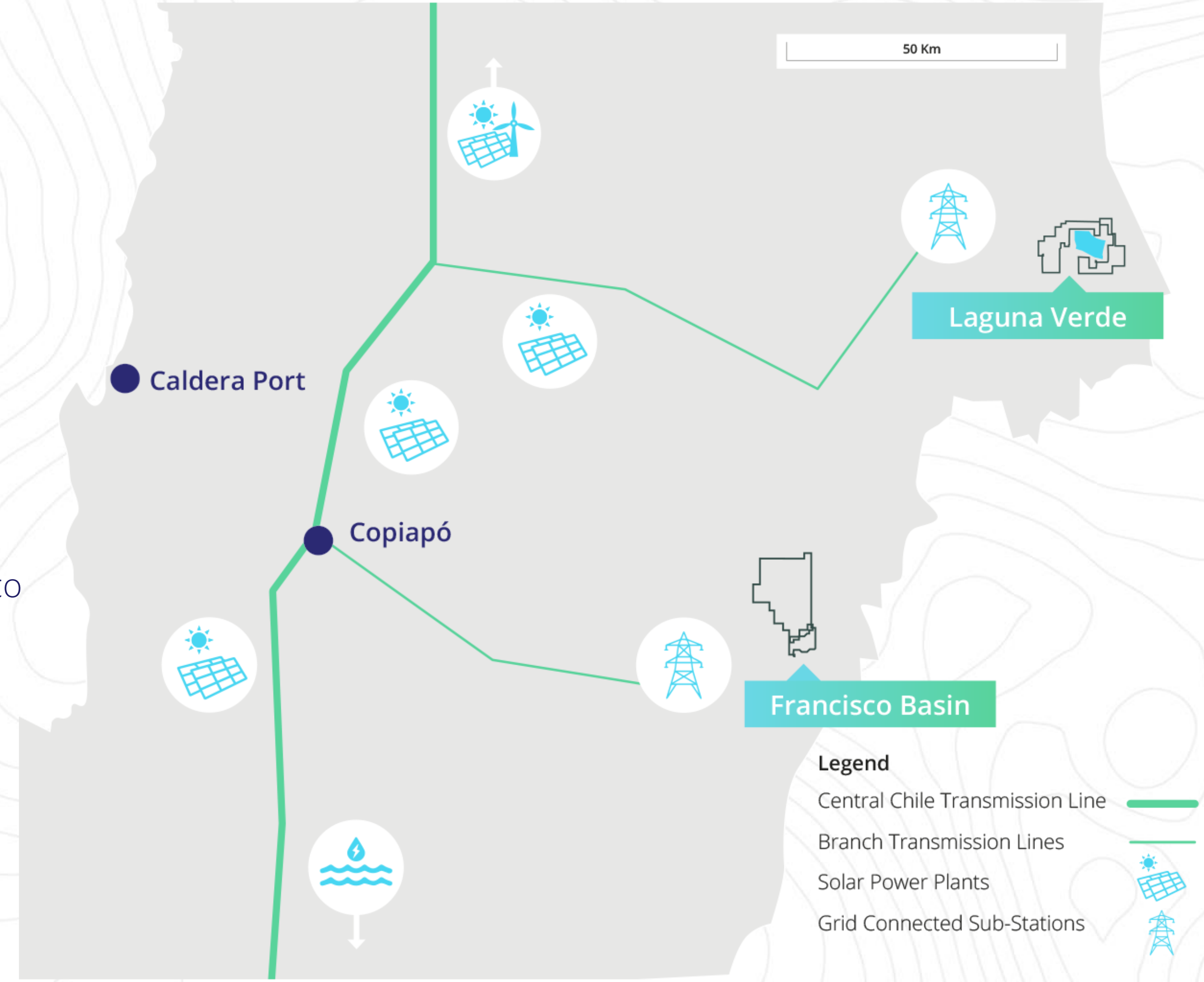
(McKinsey, May 2022)

Powered by Clean Energy

Chile: Leading renewable energy power grid

- Chile power grid - one of the highest renewable energy contents in the world
- Numerous renewable energy providers:
  - Solar plants in the Atacama region
  - Hydropower in southern Chile
  - Solar (PV and thermal), wind and geothermal power in northern Chile
- Sub-stations which connect to the grid are located in close proximity:
  - 52km and 5km from Laguna Verde and Francisco Basin respectively
- CTL plans to lock in a 100% renewable energy PPA
- The grid operator and PPA supplier would ensure 24/7 year round renewable energy supply

Chile's world leading renewable energy grid and the projects infrastructure advantage provide a ready made solution for CleanTech's clean energy processing plan



Ambition and Values / our ESG Focus

Socially minded, environmentally driven and governed by our core values

Ambition

- To produce the greenest battery grade lithium for the EV future

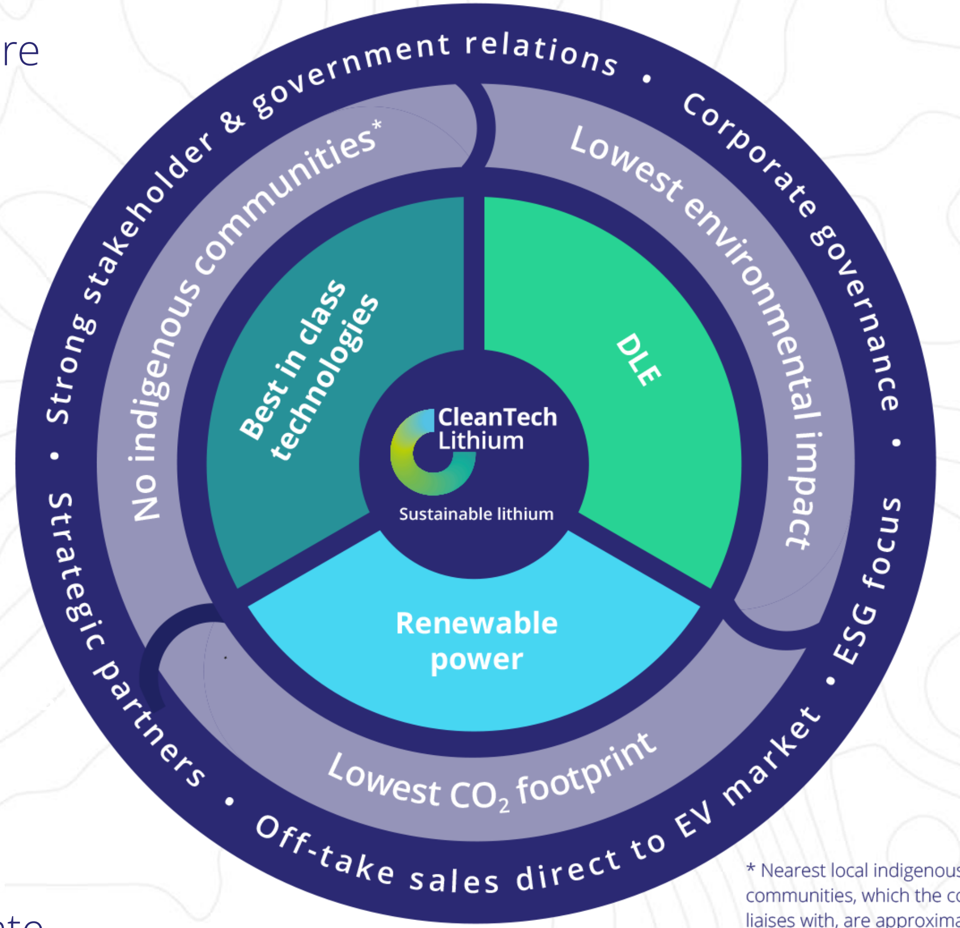
Values:

- Seeking to create a safe workplace
- Improving the environment that we operate in
- Transparency, sustainability and integrity

ESG focus:

- Sustainable lithium extraction
- Commitment to carbon neutrality and net-zero
- Low environmental footprint, powered by clean energy
- Strong stakeholder and government relations & good corporate governance

Sustainable lithium model:



* Nearest local indigenous communities, which the company liaises with, are approximately two hours away by road.

CleanTech Lithium

Chile

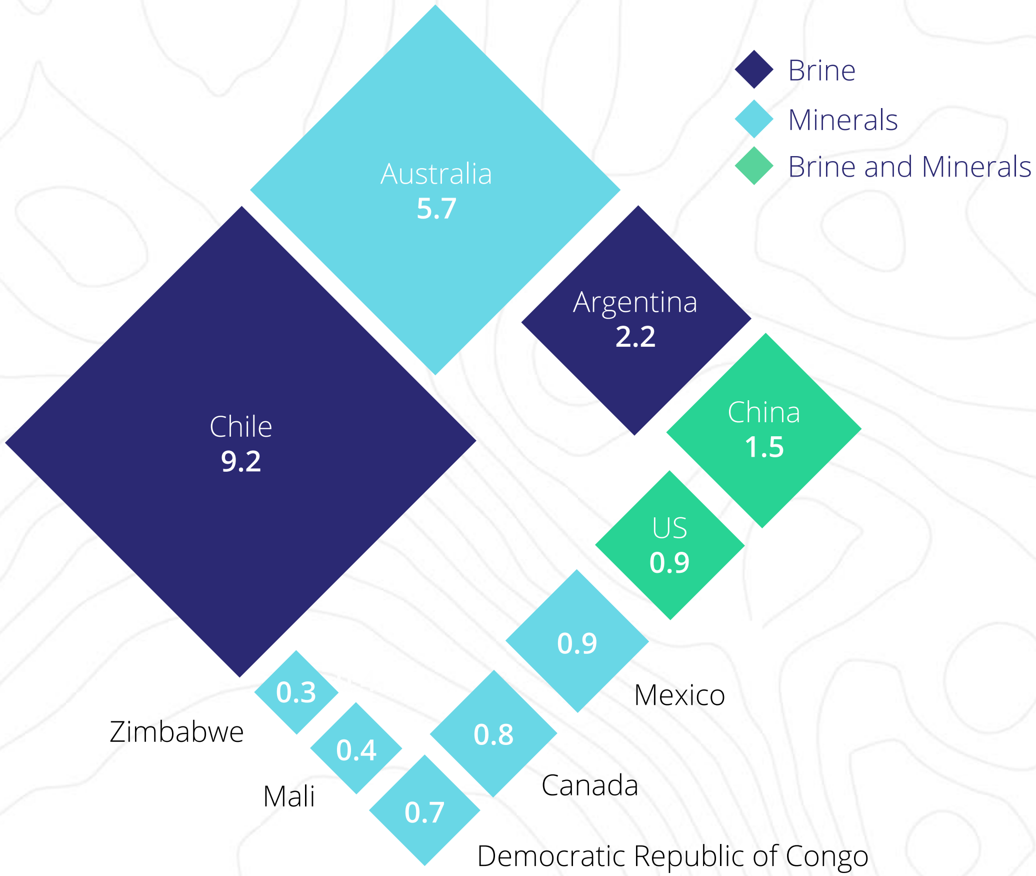
LARGEST LITHIUM RESERVES GLOBALLY

Chile: The Home of Battery Metals

Largest global lithium reserves

- Highest income country in Latin America (S&P A, Moody's A1)
- Strong mining code and laws
- Only major lithium carbonate producer that holds a free trade agreement (FTA) with the US – Recent 'Inflation Reduction Act' requires 80% of minerals in the battery to be sourced from the US or FTA country by 2026
- "Let's invest in Chile" action plan announced Sep 2022 by new Chile President, includes:
  - Tax incentives for private investment
  - Improving access to financing
  - Public investment in infrastructure for development
  - Promoting foreign investment
  - Creating one-stop-shop for permitting
  - Promoting public-private partnerships for investment

Global Lithium Reserves (Million Tons)



Source: United States Geological Survey, McKinsey & Company article, 25 May 2022

Chile: Highly Supportive of Sustainable Extraction

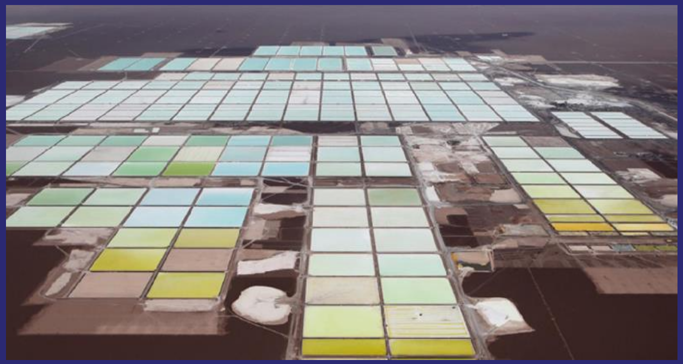
New path for lithium in Chile – strategy aligns with Government agenda

- Government emphasis on lowering environmental impact and CO2 emissions of mining
- Positive feedback from authorities for CTL's plan on:
  - Direct lithium extraction
  - Renewable energy based processing
- CTL strategy aligns perfectly with the Government agenda for the lithium industry

"It is fundamental to create the conditions for investment to grow. President Boric has tasked us with pushing forward an ambitious agenda, which would allow us to stimulate investment, generating employment, but which at the same time allows us to speed up the transition to a green economy."

– Treasury Minister, Mario Marcel (Sept 2022)

#1 Current lithium production in Chile - Salar Atacama: large evaporation ponds (~50km²)



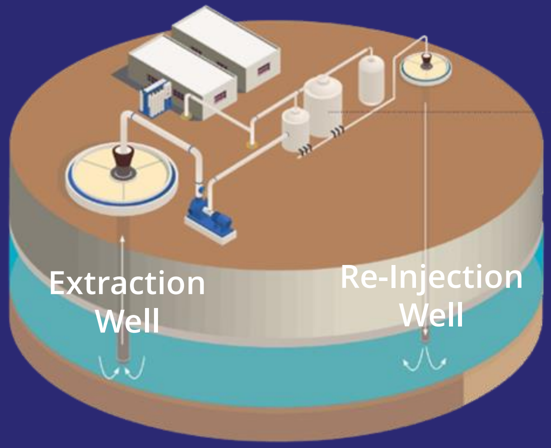
Impacts:

X Environment

X Indigenous communities

#2 Future Production - CleanTech Direct Lithium Extraction

- No harm to environment
- No Aquifer depletion
- Small footprint



Lithium

THE RESOURCE OF THE 21ST CENTURY

EU Automakers Committed to Carbon Neutral

A ready-made market for low carbon lithium production

Committed Automotive Industry

"Mercedes-Benz is getting ready to go all electric by the end of the decade....the world's pre-eminent luxury car company is accelerating toward an emissions-free and software-driven future."

"Together with other companies from around the world, we have signed The Climate Pledge, where we commit to reaching net zero carbon by 2040, ten years before the target set by the Paris Agreement."

"Developing products and solutions that reduce the CO_2 footprint is thus the first priority in our climate strategy. In accordance with this, we have set ambitious and ground-breaking targets to limit global warming."

"The climate agreement foresees climate-neutrality and zero CO2 emissions by 2050. TRATON GROUP and its brands MAN, Scania, and Volkswagen Caminhões e Ônibus are entirely committed to further reducing greenhouse gas emissions"

Lithium DLE - Off-Take Agreements

- Numerous publicly announced DLE off-take agreements with lithium plays
- Major automotive companies showing strong support for green lithium
- CTL in early-stage discussions with potential off-take partners for production

EU Demand for Lithium

Demand forecast to increase exponentially

Lithium demand forecast to rise: (*)
- From 350,000 tonnes LCE in 2020 to 2.5 million tonnes LCE in 2030;
- Over 7 million tonnes LCE in 2040

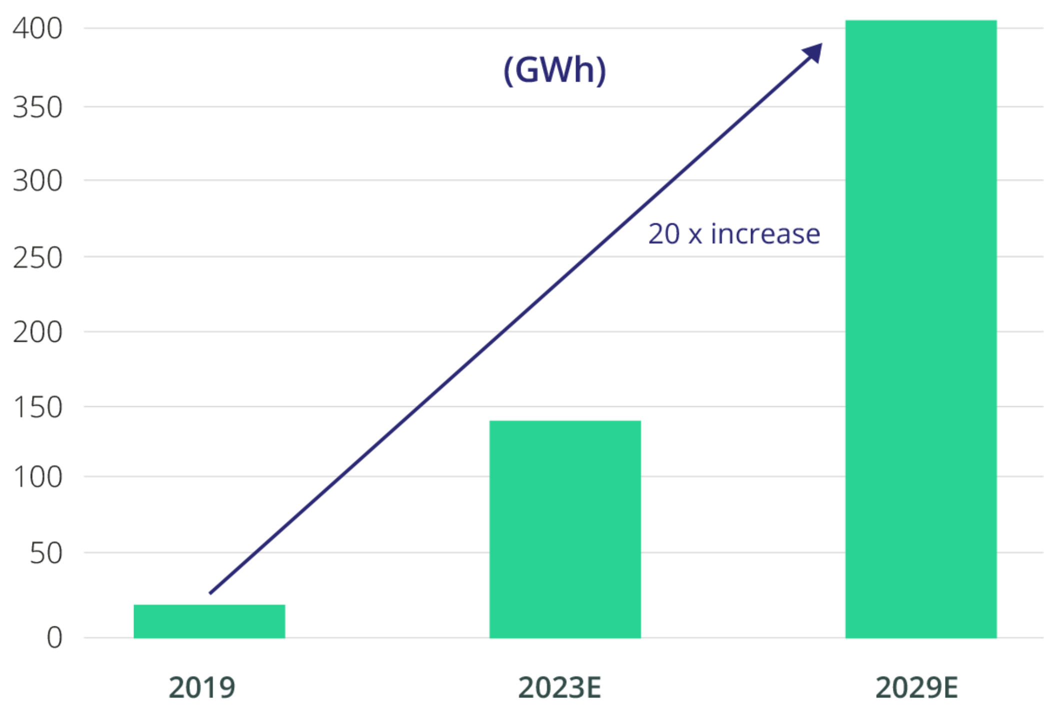
Positive long term price trend estimate of US$22,500/tonne for battery grade LCE from 2027 – 2040 (**)

Europe is the key growth market for lithium with demand forecast to increase 20X this decade

EU recently announced strict CO2 footprint limits on the Li-ion battery supply chain

** Source: Canaccord Genuity: Rating and Target Price Changes, 22 August 2022

European LI-ion Battery Cell Forecast

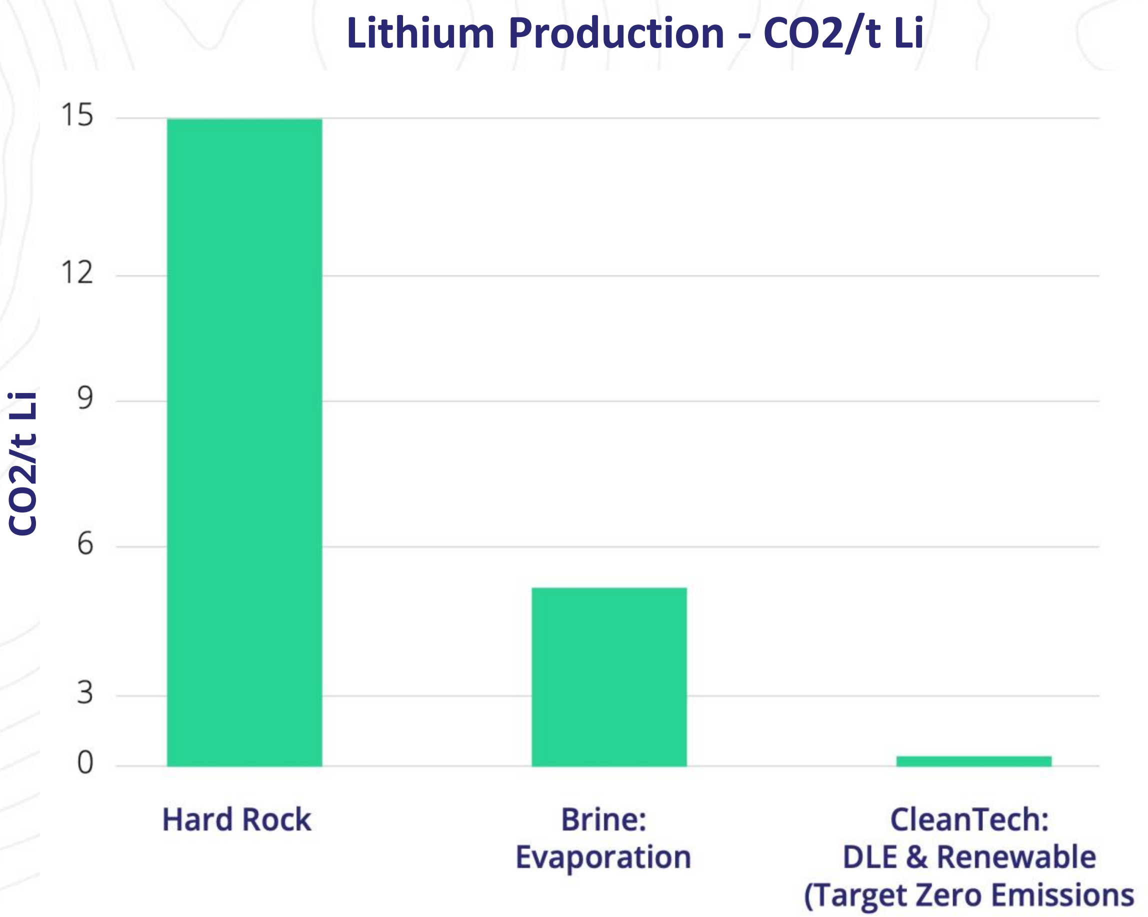


* Source: Benchmark Minerals, Global Lithium Forecast, Q4 2021

CTL – Targeting Carbon Neutral Lithium Supply

Zero emissions, green lithium, a critical advantage for the EU market

- Lithium production from hard rock mines and evaporation pond operations generate high emissions:
  - Estimated 5 - 15 tonnes CO2 per tonne of lithium
- Cleantech Lithium's strategy to integrate renewable energy with DLE with solar
- Unlocking a path to zero emissions, a critical advantage for the EU market



Source (for Hard Rock and Brine): Minviro Study

Lithium DLE Deals

Realising value through partnerships

Rio Tinto
Rincon, Argentina
$825M acquisition
2021

Standard Lithium
Koch
$100M Investment
2021

CTR
GM - Multi-million investment
2021

Vulcan Energy
Inst. investment
$320M
Stellantis - A$76M
2021/22

Eramet
Tsingshan
$375M Investment
2021

GanFeng Lithium
Lithea, Argentina
$962M Acquisition
2022

Compass Minerals
Koch
$252M Investment
2022

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Positioned for Production

GREEN LITHIUM FOR THE EU BATTERY SUPPLY CHAIN

DLE from Pilot to Commercial Scale

Target commercial scale and production 2025

- June 2022: Completed trial on 2000L sample of Laguna Verde brine to produce 1kg of battery grade LCE
- Achieved 99.9% Li_2CO_3, with very low inpurities*
- August 2022: Signed MOU with SunResin, world leader in commercial scale DLE plants (9 plants, total capacity 73,000 tpa LCE)
- Pilot scale test-work and negotiation of commercial terms – pilot unit to be ordered in coming weeks from SunResin
- SunResin deploying 25,000 tpa LCE Phase 1 units to Salar Diablillos in Argentina, 250km north-east of Laguna Verde, for production in 2023
- CleanTech aims to achieve commercial scale construction and production in 2025

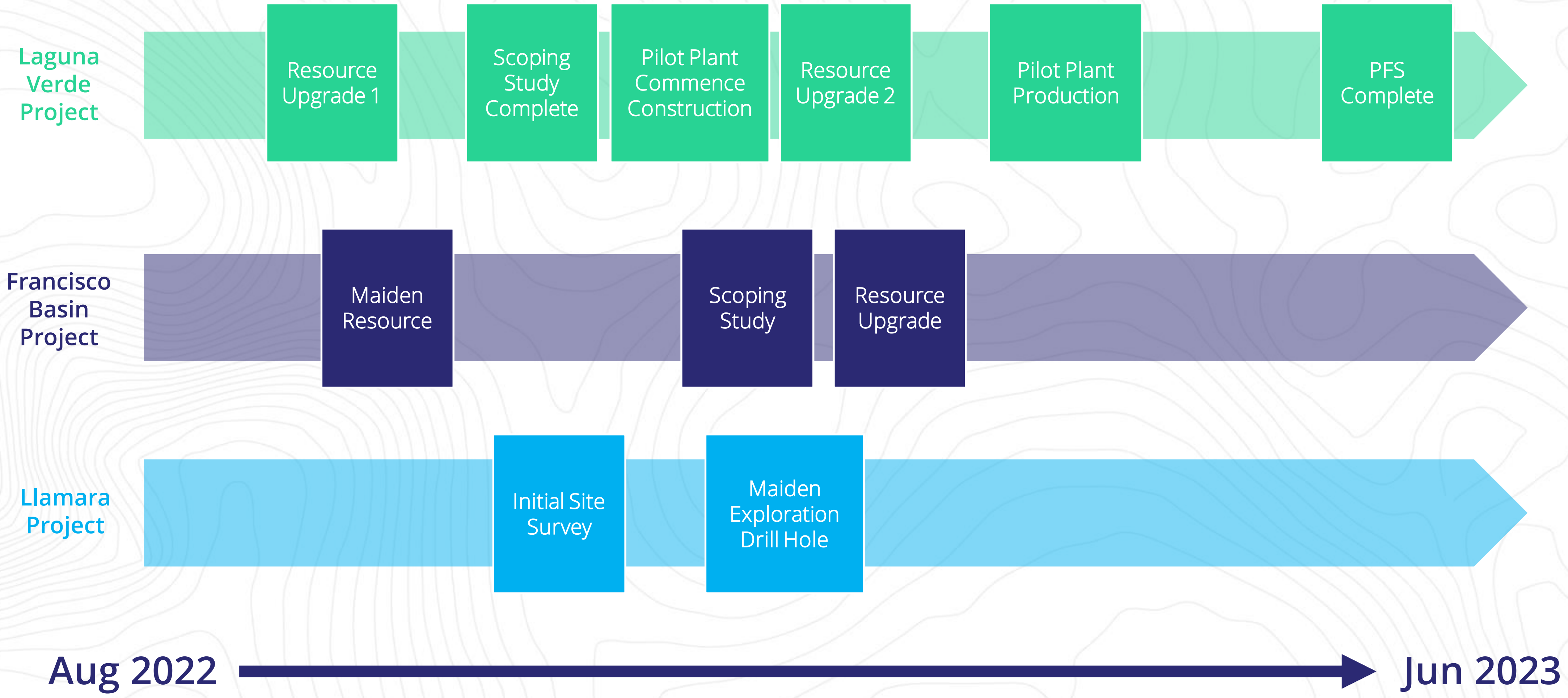
*Independent lab Dorfner Anzaplan (Germany)

SunResin Commercial Scale DLE Adsorption Columns at Zangge Lithium project, Qinghai China – Modular Design for Scalability

Shipment of DLE Equipment to 25,000tpa Plant in Argentina

The Path to Production

2022/2023: value catalysts



Summary: De-risked Path to Production

Driving shareholder value – sustainable lithium for the EV future

- Short lead time to production
- Proven DLE Technology *
- Excellent infrastructure
  Roads, renewable power & water supply
- Right to operate
  No indigenous communities or unique flora/fauna to disturb
- Supportive government/ stakeholders
- Financed for growth
- Strategic partner/ off-take upside
- ESG focus

* DLE plants operating successfully in Argentina and China

Appendix

CleanTech Lithium – Key Data

Market listing: AIM	**Ticker:** CTL	**Market cap**: £46.3M	**Share price: 47**p (05-Dec-22)
Funds raised IPO: £5.6M	**Shares in issue: 105,333,500**	**Research:** Canaccord	**Price Target:** £2.90

Directors and Significant Shareholders: Percentage not in public hands 25.44% Share Register as at 5 December 2022

Investor	Holding
* Regal Emerging Companies Opportunities Fund and Regal Emerging Companies Funds 111	16.49%
Jason Baverstock	9.49%
Aldo Boitano	8.92%
Luke Jarvis	5.06%
Gordon Stein	0.58%
Steve Kesler	0.33%
Jonathan Morley-Kirk	0.32%

*The Regal Funds are two separate funds, each of which are managed by the same investment manager, being Regal Funds Management Pty Limited (ACN 107 576 821).

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