

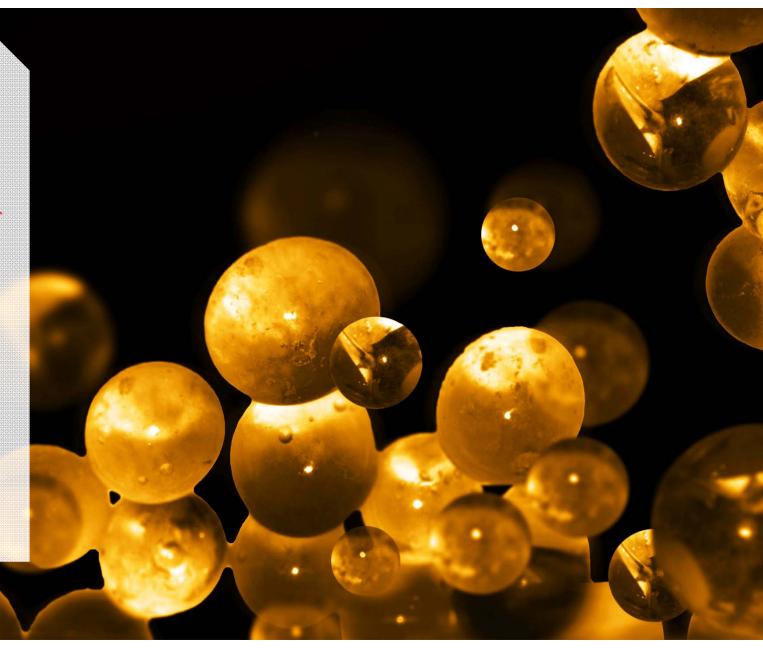
SYERSTON PROJECT

COBALT AND NICKEL SULPHATE

FOR THE LITHIUM-ION BATTERY INDUSTRY

SAM RIGGALL, MANAGING DIRECTOR

SPROTT NATURAL RESOURCE SYMPOSIUM JULY 2017



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Please refer to the back of this presentation for information concerning the calculation of reserves and resources referred to herein, and the consents provide the respective Competent Persons.

For further details on the content of this presentation, please refer to the ASX releases on the Company's website.



COMPANY OVERVIEW

CLEAN TEQ MISSION

We use hydrometallurgical innovation to produce metals that are highly geared to disruptive changes in technologies and markets, particularly in global energy and transport

Develop the Syerston Project to exclusively supply the rapidly expanding lithium-ion global battery industry

SYERSTON PROJECT OVERVIEW

Syerston is a laterite (iron-hosted) mineral resource, rich in nickel, cobalt and scandium, located 350km west of Sydney and 100% owned by Clean TeQ

Uniquely positioned as one of the largest and highest grade sources of cobalt outside Africa

Syerston is development ready and will be the first mine developed producing high-purity nickel and cobalt sulphate

CAPITAL STRUCTURE ASX code CLQ Share Price (17 July 2017) A\$0.75 576.3 M Shares 43.7 M **Options** Performance Rights 4.9 M Market Capitalisation (undiluted) A\$432 M

Liabilities (Mar-18 notes)	A\$3.0 M
MAJOR SHAREHOLDERS	
Robert Friedland	16.2%
Pengxin Mining	16.2%
Australian Super	5.0%
Board & Management ¹	5.7%



Cash @ 31 Mar 2017



A\$92.7 M 1 1 C C D A

1. Excludes options and performance rights



INVESTMENT THESIS

CATHODE MARKET

LITHIUM-ION BATTERIES

High-purity nickel and cobalt sulphate are key raw material inputs for the rapidly growing lithium-ion battery industry

RAW MATERIAL CHALLENGES

Evolving supply constraints for high-purity nickel and cobalt sulphate, particularly with an auditable supply chain

SYERSTON PROJECT

A STRATEGIC SOURCE OF RAW MATERIALS FOR THE LITHIUM-ION BATTERY INDUSTRY

COBALT PLAY

A rare, large and high grade cobalt project outside Africa

STRATEGIC JURISDICTION

Customers require supply options outside Africa

ATTRACTIVE ECONOMICS

First quartile cost position with 39 year mine life

DEVELOPMENT READY

All key permits and infrastructure in place



RECENT DEVELOPMENTS

STRONG MOMENTUM TOWARDS DEVELOPMENT OF SYERSTON



Jul-17

Powering innovation

NEAR-TERM OBJECTIVES

FAST TRACKING SYERSTON IS OUR IMMEDIATE PRIORITY

- Build out project development and operational management team
- Complete the Bankable Feasibility Study by Q4 2017
- Sign binding offtake agreements with strategic counterparties during 2017
- Continue progress towards fully financing the Syerston Project





NEW BATTERY CAPACITY IS COMING

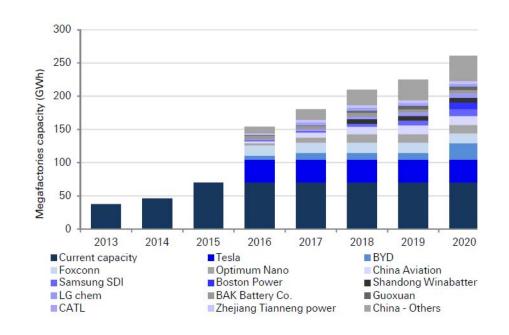
ALREADY ~US\$20B OF COMMITTED INVESTMENT

Tesla is important, but the real growth story is in China

China is now pushing for an aggressive California-style Zero Emission Vehicle (ZEV) program: 8% EV by 2018, 12% by 2020

Chinese technical capability is fast approaching Japanese and Korean manufacturers

European automakers making significant investments in the Chinese market



Source: Deutsche Bank, Lithium 101, May 2016



CHEMISTRY BY MARKET

DOMINANT CHEMISTRIES FOR EV REQUIRE NICKEL AND COBALT



(Lithium-Cobalt-Oxide)

Still one of the highest energy density chemistries, but expect to see only steady growth as automotive and utility-scale applications grow





NCM

(Nickel-Cobalt-Manganese)

Experiencing fastest growth with a good mix of energy density, power, cost and safety for automotive applications; new chemistries constantly developing



NCA

(Nickel-Cobalt-Aluminium)

Extremely high energy density, power and manufacturing experience make it a good candidate for automotive, such as the A18650





LMO

(Lithium-Manganese-Oxide)

Relatively low energy density (one-third of LCO), but the absence of cobalt makes this a low-cost alternative cathode material





LFP (Lithium-Iron-Phosphate)

Reasonable energy density but lower power; lower cost raw materials are offset by poor conductivity and higher unit costs from assembly process

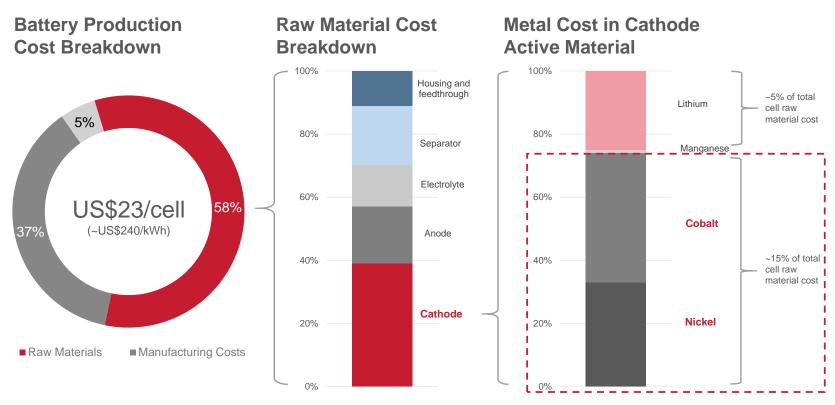


Source: Avicenne Energy Analysis 2014



CATHODE IS THE KEY TO COST

NICKEL AND COBALT PRICES DRIVE CELL COST



Source: Roland Berger (2012) and internal analysis. Assumes a 96Wh PHEV cell (26Ah, 3.7W) using NCM622 cathode chemistry. Cathode raw material cost includes non-metallic materials (carbon black, binder, foil). Internal assumptions concerning split of costs assumes spot prices of Ni US\$4.20/lb; Co US\$28.00/lb; Mn US\$1.00/lb; Li US\$9,000/t (as LCE)



CATHODE DEMAND FORECAST

EV IMPLICATIONS FOR CATHODE RAW MATERIAL DEMAND

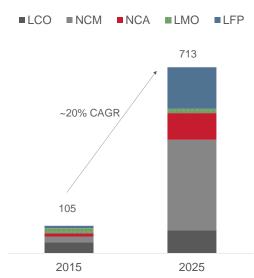
Use of nickel and cobalt dominant chemistries is accelerating in China

Of the 10 top selling Chinese EV's using LFP chemistry, six are already converting to **NCM**

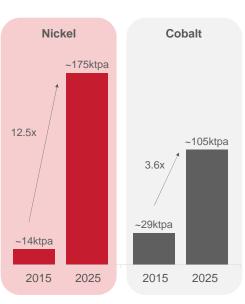
"We believe this potential [Chinese] subsidy plan would further promote the development of NMC over LFP in the next few years. The **NMC** penetration rate should climb significantly faster than we previously expected."

Deutsche Bank. 2 Dec 2016

Cathode Raw Material Demand By Battery Type ('000 tonnes)



Implied Contained Metal Demand



Source: 2015 data based on Avicenne Energy Analysis. 2025 case based on internal company estimates, utilising an EV adoption rate based on the average from five banks and industry consultant forecasts: HEV 5.7m, PHEV 2.3m, BEV 5.1m. EV applications forecast at 289 GWh. Non-EV applications forecast at 135GWh. Assumes an average battery size of 50kWh/BEV. Chemistry adoption rates in 2025 for EVs are NCM₆₂₂ 60%, NCA 25% and LFP 15%. No allowance for yield losses or process inefficiencies at pack or cell level, nor metal recycling rates



COBALT PRICE

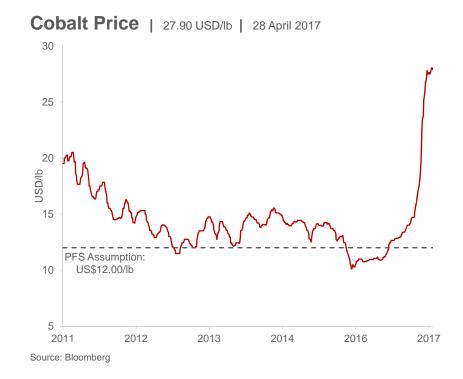
COBALT WAS ONE OF THE BEST PERFORMING METALS OF 2016

Cobalt has been one of the best performing metals with prices increasing by ~160% since the beginning of 2016

Significant upside in the event of supply disruption

Major end customers have declared cobalt a 'conflict' mineral – supply must come from auditable sources and supply chains

At Syerston cobalt is co-product, not byproduct: cobalt is ~55% of Syerston's revenues at today's spot metal prices1



^{1.} Spot nickel and cobalt prices as at 28 April 2017, scandium revenue has been excluded



A PROBLEMATIC SUPPLY CHAIN

MAJORITY OF CURRENT COBALT SUPPLY SOURCED FROM AFRICA

"The majority of the cobalt is heading straight to China. Their global hold is huge."

- CRU, May 2016

"While the occasional [analyst] questions the availability of enough lithium or flake graphite to satisfy soaring demand from the battery industry, everybody has overlooked or ignored the most critical mineral constraint - Cobalt. It's a truly gargantuan challenge. A Gigarisk!" - investorintel.com, March 2016



Percentage of global cobalt production 63% originating in the Democratic Republic of Congo



Source: Amnesty International, Afrewatch

Percentage of DRC cobalt mined artisanally

Source: Darton Cobalt Market Review 2016-2017





SYERSTON PROJECT

FULLY PERMITED DEVELOPMENT PROJECT LOCATED IN NSW

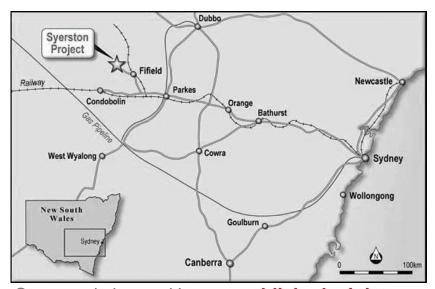
The Syerston Project is 100% owned by Clean TeQ and located 350km west of Sydney

Laterite (iron-hosted) mineral resource, rich in nickel, cobalt and scandium

Uniquely positioned as one of the largest and highest grade sources of cobalt outside **Africa**

Fully permitted project targeting release of Bankable Feasibility Study in 4Q 2017

Seeking to directly supply the **lithium-ion** battery industry with high-purity nickel and cobalt sulphate, the key raw materials in the production of cathodes



Syerston is located in an established mining region; other major projects include Cadia Valley, Northparkes and Cowal



KNOWN GEOLOGY

LARGE UNDEVELOPED NICKEL-COBALT RESOURCE

Over 1,300 drill holes provide for strong geological understanding of the resource 700kt of contained nickel and 114kt of contained cobalt, making Syerston one of Australia's largest undeveloped nickel-cobalt resources

The resource is shallow (5m to 40m) and extends over a 2km horizon

Existing Ore Reserves sufficient for a 39 year mine life

Ore Reserves Estimate¹

Classification	Mt	Ni %	Co %
Proved	55	0.71	0.10
Probable	41	0.58	0.10
Total	96	0.65	0.10

Mineral Resource Estimate²

Classification	Mt	Ni %	Co %	Ni kt	Co kt
Measured	52	0.73	0.11	380	57
Indicated	49	0.58	0.10	280	49
Meas. & Ind.	101	0.65	0.10	660	106
Inferred	8	0.54	0.10	50	8
Total	109	0.65	0.10	700	114

Notes: Any apparent arithmetic discrepancies are due to rounding; NiEQ = nickel equivalent

^{2.} Based on 0.60% NiEQ cutoff. Calculated as NiEQ% = Ni% + (Co% x 2.95), based on assumed metal prices of US\$4.00/lb Ni, US\$12.00/lb Co, at AUDUSD exchange rate of 0.70. NiEQ was calculated on Ni and Co only, with no consideration for scandium or platinum



^{1.} Ore reserve is reported as autoclave feed tonnes

SIMPLE MINING OPERATION

SIMPLE AND LOW COST OPEN-PIT MINING AT SHALLOW DEPTHS

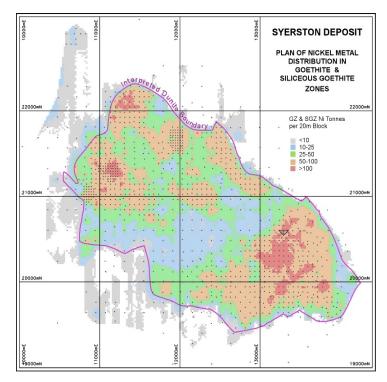
Shallow deposit allows for simple strip-mining method, with minimal grinding and beneficiation

The ore is friable and is amenable to free digging by excavators with no blasting required

The average strip ratio is 0.8x:1.0 (waste:ore) (i.e. there is more ore than waste)

Average C1 operating cash cost in years 3-20 of US\$2.96/lb nickel or US\$0.89/lb nickel after cobalt co-product credits

Excellent acid consumption and rheology





2016 PFS HIGHLIGHTS

LARGE, LOW-COST AND WITH ATTRACTIVE ECONOMICS

PFS completed in September 2016 and demonstrated highly favourable economics

Processing of 2.5Mtpa ore over an initial 20year period with existing Reserves available for up to 19-years of additional mine life extension

Project designed to produce high purity nickel sulphate and cobalt sulphate products targeted solely for the lithium-ion battery market

Spot cobalt price of US\$27.90/lb is well above PFS assumption of US\$12.00/lb

Potential for significantly reduced C1 cash costs after co-credits if spot cobalt prices are assumed

✓ Nickel sulphate production¹	85.1ktpa
Contained nickel production ¹	18.7ktpa
Cobalt sulphate production ¹	15.3ktpa
Contained cobalt production ¹	3.2ktpa
Autoclave throughput ²	2.5mtpa
Life of Mine	39 Years
C1 cash costs (after Co-credits) ³	US\$0.89/lb Ni
✓ Total capital cost⁴	US\$680m
✓ NPV ⁸ (post tax) ⁵	US\$891m
✓ IRR (post tax)	25%

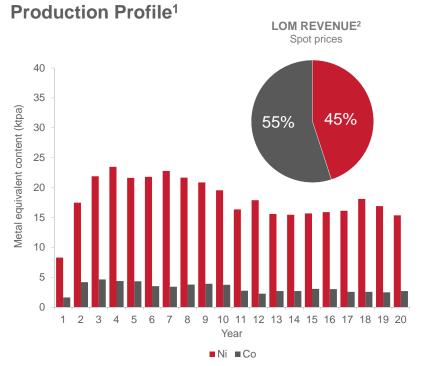
PFS assumptions: nickel price US\$7.50/lb, cobalt price US\$12.00/lb, AUDUSD 0.75

1. Years 3-20 average. 2. Designed processing throughput rate following a 24-month commissioning and ramp-up period. 3. C1 cash cost excludes potential by-product revenue from scandium oxide sales and royalties. 4. Includes US\$62m contingency. 5. Post tax, 8% discount rate, 100% equity, real terms



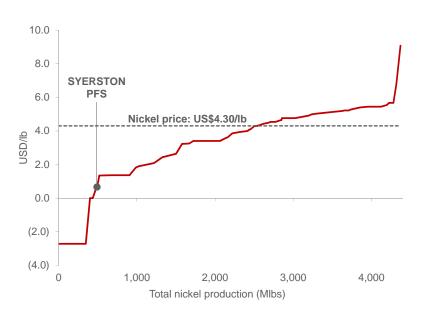
2016 PFS HIGHLIGHTS (CONT.)

Q1 COST POSTION WITH MEANINGFUL EXPOSURE TO CO AND NI



Global Nickel C1 Cash Cost Curve³

After co-credits



- 1. Per September 2016 PFS
- 2. Spot nickel and cobalt prices as at 28 April 2017, scandium revenue has been excluded
- 3. Macquarie Research, as at Q1 2017. Nickel price as at 28 April 2017



CUSTOMER STRATEGY

FEEDBACK FROM POTENTIAL CUSTOMERS TO DATE IS VERY POSITIVE

Clean TeQ's objective is to agree binding long term nickel and cobalt sulphate sales contracts with a small number of strategic counterparties during 2017 while the BFS is being completed

Received strong expressions of interest for offtake from a number of parties, including signing MOUs and participating in site visits

Customers are receiving **samples** of nickel sulphate and cobalt sulphate with **product** certification process progressing well

Customers are very aware of impending raw material supply shortage and seeking certainty of supply



NICKEL & COBALT SULPHATE



SCANDIUM

A NEW GENERATION OF LIGHTWEIGHT ALLOYS

Scandium is used to provide next generation lightweight aluminium alloys for key transportation markets

Clean TeQ continues to promote the use and development of new scandium alloys

Syerston is one of the world's largest and highest grade scandium resources

Current development plan is to extract scandium oxide as a by-product of cobalt and nickel sulphate production, at very low cost

Syerston is uniquely positioned to benefit from two key imperatives facing the global transport industry: electrification and light weighting

Airbus Group's Light-rider

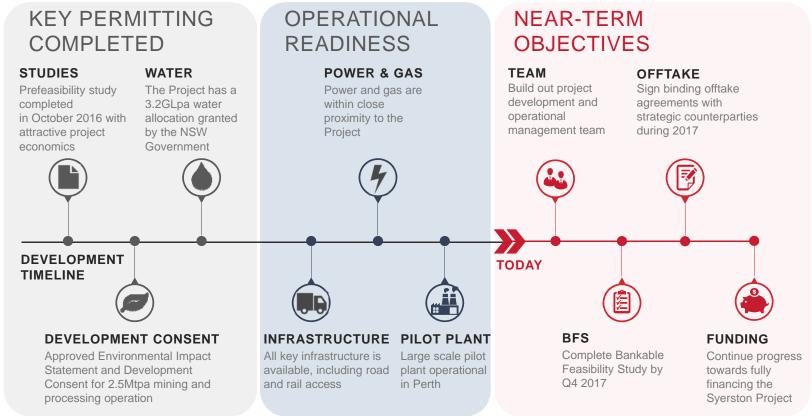


The world's first 3D printed electric bike aluminiumscandium frame makes it lighter and stronger

The bike weighs 35kg, contains a 6kWh battery, has a top speed of 80km/h and a range of 60km



PROJECT IS DEVELOPMENT READY





CONTACT





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RESERVES AND RESOURCES

COMPETENT PERSON CONSENTS

The information in this document that relates to nickel-cobalt Mineral Resources is based on information compiled by Diederik Speijers and John McDonald, who are Fellows of The Australasian Institute of Mining & Metallurgy and employees of McDonald Speijers. There was no clear division of responsibility within the McDonald Speijers team in terms of the information that was prepared — Diederik Speijers and John McDonald are jointly responsible for the preparation of the Mineral Resource Estimate. Diederik Speijers and John McDonald have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Diederik Speijers and John McDonald, who are consultants to the Company, consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The information in this document that relates to scandium Mineral Resources is based on information compiled by Sharron Sylvester, who is a Member and Registered Professional of the Australian Institute of Geoscientists and is an employee of OreWin Pty Ltd. Sharron Sylvester has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which she is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Sharron Sylvester, who is a consultant to the Company, consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The information in this document that relates to Ore Reserves is based on information compiled by Michael Ryan, MAusIMM (109558), who is a full time employee of Preston Valley Grove Pty Ltd, trading as Inmett Projects. Michael Ryan has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Michael Ryan, who is a consultant to the Company, consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. Michael Ryan holds options in Clean TeQ Holdings Limited, the ultimate parent entity of Scandium21 Pty Ltd, the owner of the Project.

For further details on the content of this presentation, please refer to the ASX releases on the Company's website.

