

ANNUAL GENERAL MEETING PRESENTATION

1 NOVEMBER 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.





CLEAN TEQ'S MISSION

Apply our **innovative**, proprietary processing technologies to:



Produce metals that are highly geared to disruptive changes in technologies and markets, particularly in global energy and transport



Deliver water purification solutions for the world's most challenging water treatment problems



Develop our technology portfolio to capture new opportunities

CLEAN TEQ METALS

Rapidly developing the Syerston Nickel/Cobalt/Scandium Project to supply the rapidly expanding lithium-ion global battery industry with high-purity nickel and cobalt sulphate.

Combining Syerston with our Clean iX ion exchange technology will enable production at lowest quartile costs

Project is development ready with Final **Investment Decision due in July 2018**

Applying innovative and low cost solutions to treat waste water streams including

- municipal wastewater
- industrial applications.

MISSION

CLEAN TEQ WATER

• treating ground or surface water for potable use

recycling process waters in power, mining and

CLEAN TEQ TECHNOLOGY

Continue developing our core capabilities in research and technology development.

Assess opportunities where Clean TeQ's proprietary technologies deliver value in new applications in selected markets.



COMPANY OVERVIEW

CAPITAL STRUCTURE

ASX code	CLQ
Share Price (27 October 2017)	A\$1.37
Shares	578.9 M
Options	41.7 M
Performance Rights	6.6 M
Market Capitalisation (undiluted ¹)	A\$790 M
Cash @ 30 Sept 2017	A\$62.9 M
Liabilities (Mar-18 notes)	A\$3.0 M

MAJOR SHAREHOLDERS

Robert Friedland	16.3%
Pengxin Mining	16.0%
Australian Super	5.0%
Board & Management ¹	5.8%





1. Excludes options and performance rights



Source: IRESS, as at 16 October 2017

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CATHODE MARKET



VALUE CHAIN

MULTIPLE STAGES RELIANT ON QUALITY RAW MATERIALS



CHEMISTRY BY MARKET

DOMINANT CHEMISTRIES FOR EV REQUIRE NICKEL AND COBALT

Note: pie charts represent proportion of total cathode active materials forecast in 2025 (400kt) Source: Avicenne Energy Analysis 2017

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 prices of Ni US\$4.20/lb; Co US\$28.00/lb; Mn US\$1.00/lb; Li US\$9,000/t (as LCE)

COBALT MARKET

COBALT FORECAST TO BE IN SIGNIFICANT DEFICIT IN THE FUTURE

- Battery chemicals dominate cobalt usage representing 78% of total demand in 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 with supply deficits forecast to continue
- 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 16 October 2017, scandium revenue has been excluded

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Source: Bloomberg

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

Children sorting cobalt ore, Kolwezi

Source: Amnesty International, Afrewatch

RECENT DEVELOPMENTS

STRONG MOMENTUM TOWARDS DEVELOPMENT OF SYERSTON

se in cobalt resource (relative to PFS)	October 2017
oduction with Beijing Easpring	August 2017
t in HPAL circuit reducing lead time	Jul 2017
pproved by NSW government	May 2017
samples to potential customers	April 2017
ngxin Mining	February 2017
	November 2016
Syerston	October 2016

SYERSTON AUTOCLAVES CRITICAL EQUIPMENT SECURED

- Acquired from Vale for US\$6.5m in July 2017
- Significantly de-risk project development schedule
- Currently being shipped to Port Pirie, Australia

SYERSTON PAGE 12

BBC Chartering

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 1Q 2018
- Only mine in the world seeking to **directly** supply the lithium-ion battery industry
- High-purity nickel and cobalt sulphate are 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

ONE OF AUSTRALIA'S LARGEST UNDEVELOPED NICKEL-COBALT RESOURCES

- Over 1,300 drill holes provide for strong geological understanding of the resource
- The resource is shallow (5m to 40m) and extends over a 2km horizon
- Existing Ore Reserves sufficient for a 39 year mine life
- Significant cobalt content (relative to nickel) compared to other traditional nickel deposits

Cobalt / Nickel Ratios of Australian Laterite Resources

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

2017 Updated Mineral Resource Estimate²

Classification	Mt	Ni %	Co %	Ni kt	Co kt
Measured	40	0.75	0.15	299	59
Indicated	47	0.55	0.12	259	58
Meas. & Ind.	87	0.64	0.13	558	116
Inferred	14	0.24	0.11	35	16
Total	101	0.59	0.13	593	132

liWest	Ravensthorpe
GME)	(First Quant.)

Notes: Any apparent arithmetic discrepancies are due to rounding;

- 1. Ore reserve is based on PFS. Reported as autoclave feed tonnes
- 2. Based on 0.06% Co cutoff

Source: Company Filings

SIMPLE LOW RISK MINING OPERATION

SIMPLE AND LOW COST OPEN-PIT MINING AT SHALLOW DEPTHS

- Shallow deposit allows for simple strip-mining method and is amenable to free digging, with minimal grinding and beneficiation
- 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

2016 PFS HIGHLIGHTS

LARGE, LOW-COST AND WITH ATTRACTIVE ECONOMICS

- PFS completed in September 2016 and demonstrated highly favourable economi
- Processing of 2.5Mtpa ore over an initial year period with existing Reserves available up to 19-years of additional mine life extens
- Project designed to produce high purity ni sulphate and cobalt sulphate products targeted solely for the lithium-ion battery ma
- Spot cobalt price of US\$27.20/lb is well about the second seco PFS assumption of US\$12.00/lb
- Potential for significantly reduced C1 cas **costs** after co-credits at spot cobalt prices
- October 2017 Mineral Resource estimate confirmed a **30% increase in cobalt grade**

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

	\checkmark	Nickel sulphate production ¹	85.1ktpa
CS 20- e for sion	V	Contained nickel production ¹	18.7ktpa
		Cobalt sulphate production ¹	15.3ktpa
	\checkmark	Contained cobalt production ¹	3.2ktpa
ickel	V	Autoclave throughput ²	2.5mtpa
arket	\checkmark	Life of Mine	39 Years
ove		C1 cash costs (after Co-credits) ³	US\$0.89/lb Ni
sh	\checkmark	Total capital cost ⁴	US\$680m
	V	NPV ⁸ (post tax) ⁵	US\$891m
	\checkmark	IRR (post tax)	25%

2016 PFS HIGHLIGHTS (CONT.)

Q1 COST POSTION WITH MEANINGFUL EXPOSURE TO CO AND NI

- 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

Global Nickel C1 Cash Cost Curve³

After co-credits

OFFTAKE / CUSTOMER STRATEGY

RECENTLY SECURED BINDING OFFTAKE AGREEMENT – SEEKING ADDITIONAL CONTRACTS IN 2017 / 2018

- Clean TeQ's has agreed a binding five year offtake with Beijing Easpring for 20% of future production
 - Easpring is a leading Chinese NCM / LCO battery manufacturer
- Received strong expressions of interest for offtake from a number of parties, including signing MOUs and participating in site visits
- Aim to secure additional binding agreements over the course of 2017 / 2018
- Customers are very aware of impending raw material supply shortage and seeking certainty of supply

Binding five-year offtake agreement for 20% of cobalt and nickel sulphate production from Syerston Transparent pricing mechanism with sulphate premia

decided quarterly

Offtake converts to LOM supply with direct investment by Easpring in Syerston (discussions ongoing)

Parties to investigate potential for partnership in downstream precursor and possibly battery cathode production at site

NICKEL & COBALT SULPHATE

NEAR-TERM OBJECTIVES

FAST TRACKING SYERSTON'S DEVELOPMENT IS OUR PRIORITY

Complete the Definitive Feasibility Study in Q1 2018

Sign further offtake agreements with strategic counterparties during 2017/18

Continue progress towards fully financing Syerston

Optimise to accelerate development of Syerston

Commence construction in mid 2018

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SCANDIUM

A NEW GENERATION OF LIGHTWEIGHT ALLOYS

- Syerston is one of the world's largest and highest grade scandium resources
- 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
- Current development plan is to extract scandium oxide as a by-product of cobalt and nickel sulphate production and at very low cost
- Syerston is uniquely positioned to benefit from The world's first 3D printed electric bike aluminiumtwo key imperatives facing the global transport scandium frame makes it lighter and stronger industry: electrification and light weighting

Airbus Group's Light-rider

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

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FRESH WATER

FRESH WATER SCARCITY

THE ECONOMIC IMPERATIVE FOR TREATMENT AND RECYCLING

WATER PAGE 22

Data sources: Up to 2015 OurWorldInData series based on UN and HYDE. Projections for 2015 to 2100: UN Population Division (2015) – Medium Variant. The data visualization is taken from OurWorldinData.org. There you find the raw data and more visualizations on this topic.

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FRESH WATER SCARCITY

THE ECONOMIC IMPERATIVE FOR TREATMENT AND RECYCLING

Water Stress by Country: 2040

NOTE: Projections are based on a business-as-usual scenario using SSP2 and RCP8.5.

For more: ow.ly/RiWop

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WATER MARKETS

THE ECONOMIC IMPERATIVE FOR TREATMENT AND RECYCLING

Municipal Effluent Treatment

Purify wastewater effluent to meet more stringent regulations and to allow reuse or disposal to the environment.

Mining Process Water Treatment Purify mining process and tailings water to recover water for reuse and additional metal values.

Power Wastewater Treatment

Purify highly polluted and hard to treat wastewater. Regulations coming for Zero Liquid Discharge (ZLD) for all existing and new power plants.

Coal Chemical Water Treatment Purify process water for internal reuse and to meet existing Zero Liquid Discharge regulations.

WATER PAGE 24

DELIVERING ON CONTRACTS

HOYO JOINT VENTURE – CHINA

- Initial contract to build, own and operate a Clean TeQ CIF® water treatment plant to treat up to 13,000 tonnes of effluent per day for a 20-year period at a waste
- Design & engineering complete with construction expected to commence Q1 2018

MULTOTEC CONTRACT – OMAN

- Continuous Ionic Filtration (CIF®) wastewater treatment solution at a minerals processing plant
- Designed to remove toxic pollutants and in particular sulphate, antimony and arsenic
- Design, procure and commission contract with value in excess of \$US400,000
- Manufacture complete with shipment to site in progress and commissioning expected during Q4 2017

BUSINESS DEVELOPMENT

Engineering/feasibility contracts underway for:

- Wastewater treatment from gold mines in Australia, PNG and Chile
- Uranium recovery from copper/cobalt project in Africa
- Coal-to-chemical and coal mine wastewater plants in China

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TECHNOLOGY

TECHNOLOGY PAGE 26

DEVELOPING OUR CORE CAPABILTY

GRAPHENE – A REVOLUTIONARY MATERIAL

- Graphene is the **new plastic**
- Graphene is a **revolutionary** material for a wide variety of fields
- Graphene based products have potential for **disrupting** metals separation and water treatment markets

DEVELOPING OUR CORE CAPABILTY

CONTINUED FOCUS ON IP DEVELOPMENT

- Targeting multi billion dollar activated carbon market
- Novel product that can be readily regenerated.
- Compatible with our CIF® **Continuous Ionic Filtration** processes

Graphene Membranes for **Municipal and Industrial** Applications

- bacterial fouling
- Provides high water recovery at low energy input

Targeting multi-billion dollar membrane filtration market Novel product that resists

Hybrid Ion Exchange Processes for Water & Metals

Extend the range of ion exchange materials that can be used in our CIF® continuous ionic filtration process

TECHNOLOGY PAGE 28

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RESERVES AND RESOURCES

COMPETENT PERSON CONSENTS

The information in this document that relates to nickel-cobalt Mineral Resources from the 2016 Pre Feasibility Study 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 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 ore reserves from the 2016 Pre Feasibility Study 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.

The information in this report that relates to the 2017 Mineral Resource update is based on information compiled by Mr Lynn Widenbar, a member of the Australasian Institute of Mining and Metallurgy. Mr Widenbar is a full-time employee of Widenbar and Associates. Mr Widenbar is a consultant to Clean TeQ and has sufficient experience which is relevant to the style of mineralisation and type of Deposit and to the activity which they are 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". Mr Widenbar consent to the inclusion in this 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.

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