

General Introduction

CLEAN TEQ WATER

Clean TeQ Water



Clean TeQ Water Limited (ASX:CNQ) is an Australian based leading provider of wastewater treatment technology solutions

CNQ recently demerged from Sunrise Energy Metals (ASX:SRL) to create a stand-alone water technology company to focus on sales growth and commercialization of its new technologies

CNQ has successfully delivered integrated plants across Australia, China, The Middle East and Africa

Strong future growth outlook:

- Four new recently awarded contracts
- Significant pipeline of new revenue generating projects
- Close to launch new graphene membrane with wide applications across the industry

Strong board and management to execute growth strategy



ASX: CNQ

Share price

0.71

Shares on issue

45 million

Market Capitalization

\$31m



~7,500 shareholders

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Current Target Markets









> US\$ 20 BLN

> US\$ 20 BLN

US\$ 5 - 10 BLN

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- Nitrate, ammonia and organics
- Need for brine minimization
- Use of membranes

- Brine production and disposal
- Total Cost
- Nutrient removal

- Complex waste waters, brine / tailings management
- Recovery/removal of metals

- Clean TeQ Water proprietary Solutions
- HIROX and EVAPX for brine and cost minimization
- BIOCLENS for nitrate/ammonia removal from brines

- BIONEX for nitrate removal
- HIROX for maximum recovery

- CIF for removal/recovery of target species
- DESALX for brine free desalination

Clean TeQ Water Benefits

- More robust/less complex flow sheets
- Less brine leading to much lower OPEX

- Maximum recovery, minimum brine
- Lowest TCO and footprint

- Targeted and thorough removal of target ions producing highly concentrated & pure eluate
- Simple low OPEX flowsheets



Target Market 2: Municipal Re-use

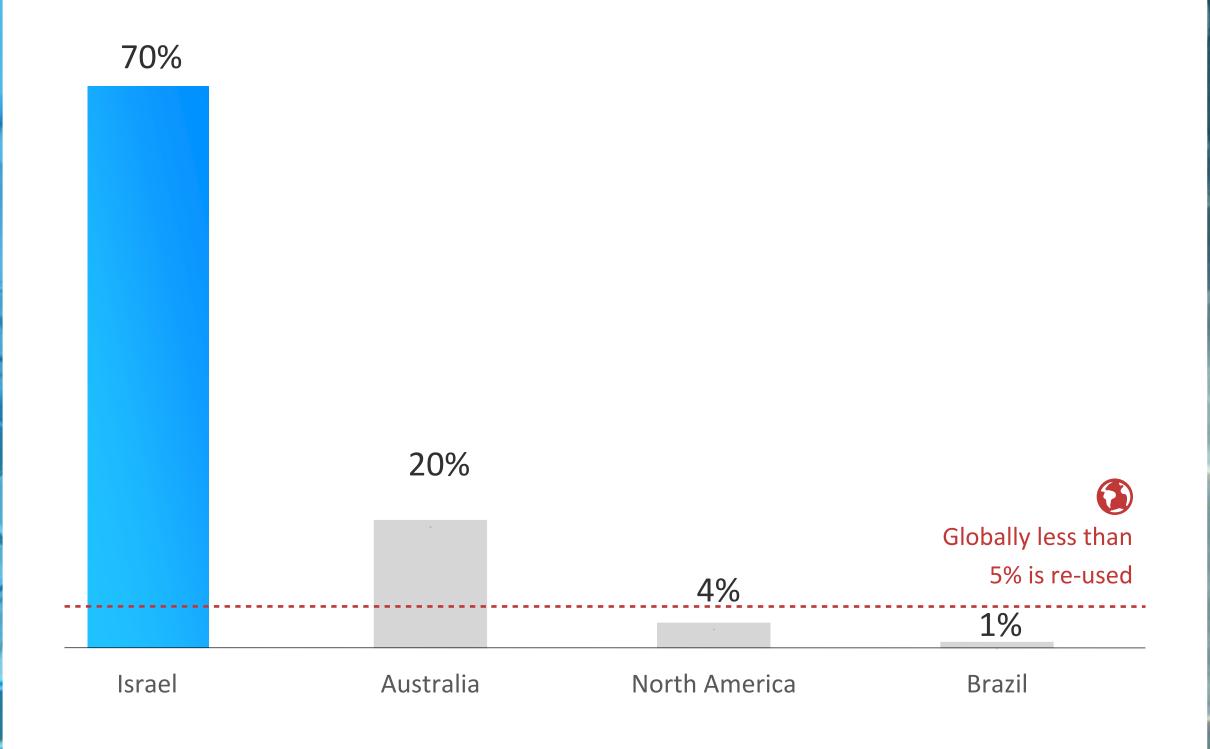


Waste water plant effluent is already relatively clean and can be a reliable low cost source of additional water supply



Only Israel and Singapore have substantial water re-use, with other areas like
California and Australia moving in this direction

MUNICIPAL EFFLUENT WATER RECYCLING RATE



Source: https://www2.deloitte.com/content/dam/Deloitte/pl/Documents/Reports/pl_Water-Tight-2-0-The-top-trends-in-the-global-water-sector.pdf





Target Market 3: Mining

50 BILLON OF ANNUAL

MINING REVENUE AT

27% of production is

estimated to be at risk from water stress by 2030E



The global mining equipment water treatment market estimated to reach

US\$8 billion by 2030

Clean TeQ also targets the recovery of valuable metals from mining waste streams

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Clean TeQ Water company overview



WATER TREATMENT

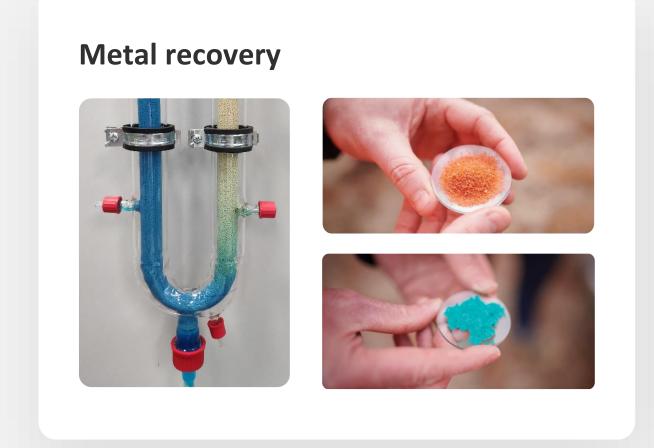


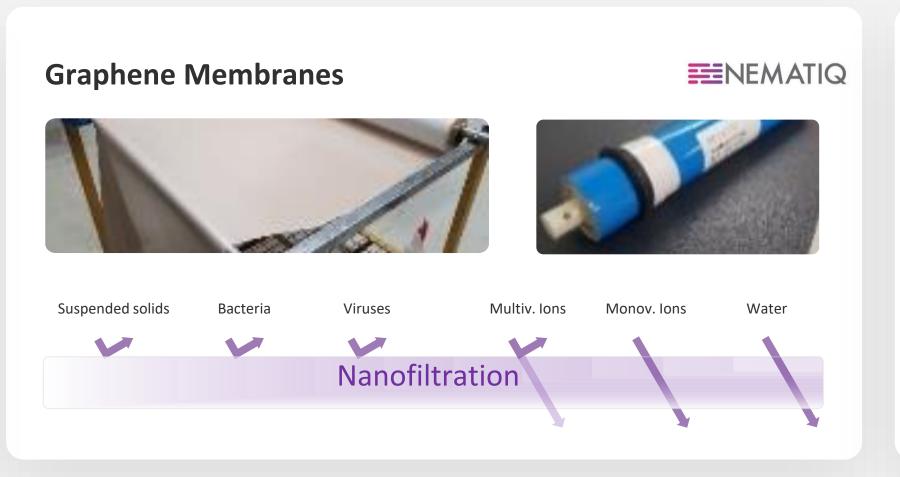


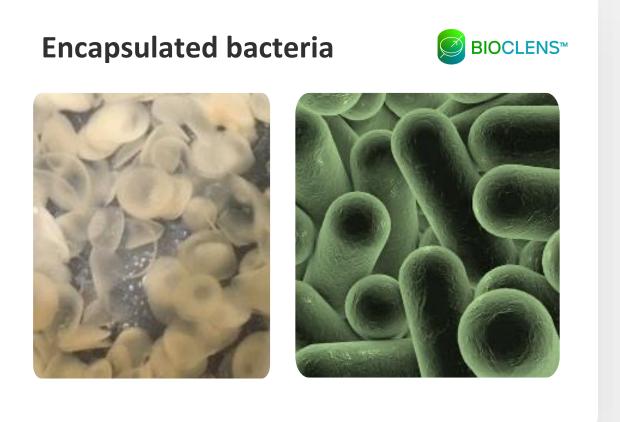






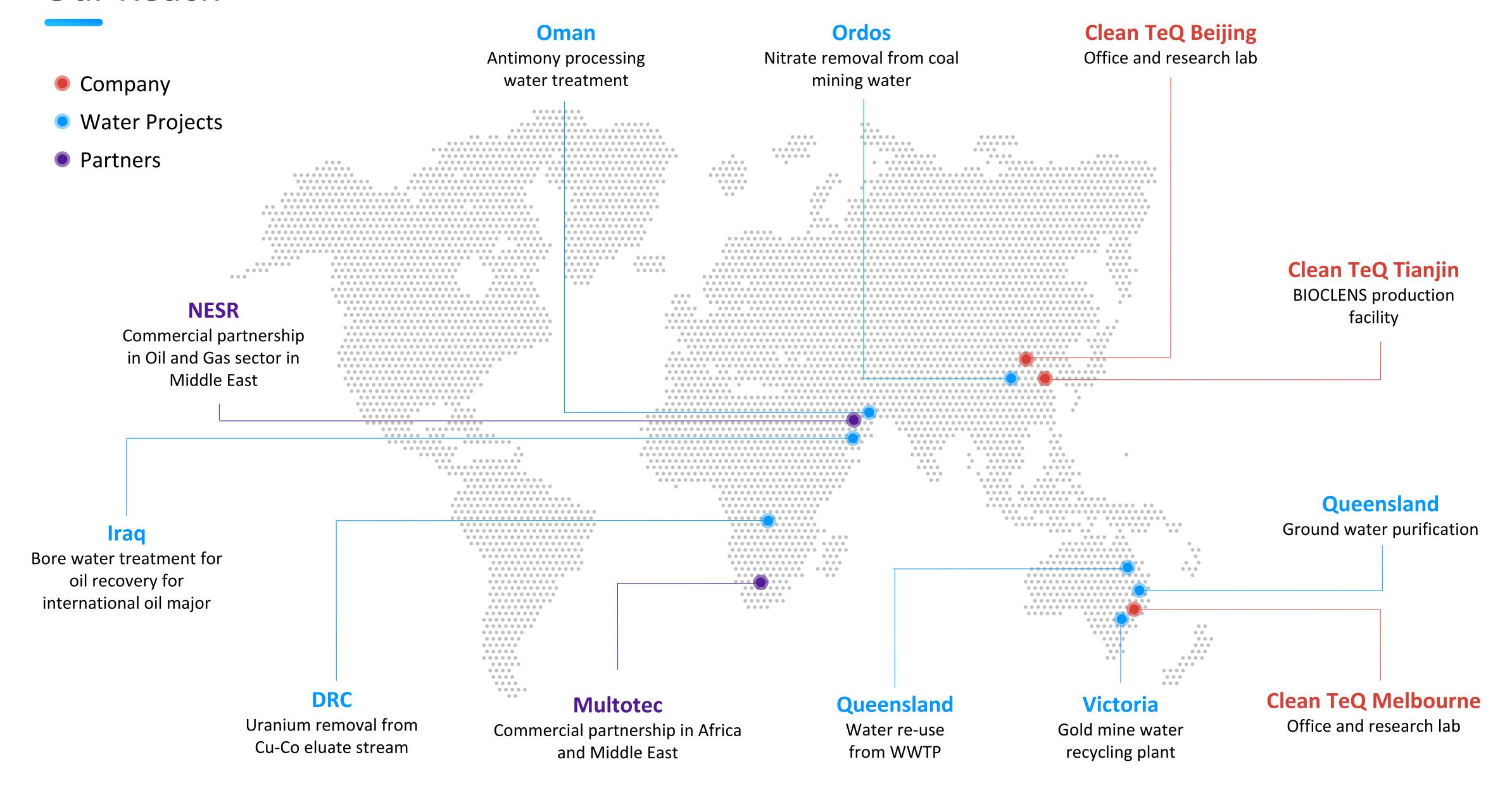






Our Reach





Management and Board





Peter Voigt | Executive Chairman and Chief Technology Officer

- Clean TeQ Founder. Over past 30 years, chairman and CEO
- Extensive experience in product development and technology commercialization.
- Mr Voigt has a bachelor and Masters of Applied Science (Chemistry) from Royal Melbourne Institute of Technology.



Sam Riggall | Non-executive Director

- Mr Riggall is currently CEO and director if Sunrise Energy Metals limited
- Previously, Mr Riggall was Executive Vice President of Business Development and Strategic Planning at Ivanhoe Mines Ltd
- Mr Riggall has previously been a director of Ivanhoe Australia and Oyu Tolgoi LLC as well as working for over a decade at Rio Tinto Group



Stefanie (Stef) Loader | Non-executive Director

- Mining industry executive with experience in in senior roles across seven countries and four continents.
- Ms Loader was most recently Managing Director of Northparkes Copper and Gold Mine for CMOC International.
- Ms Loader is Non-Executive Director of Sunrise Energy Metals and St Barbara Limited, and Chairperson of Waratah Coal Services.



Ian Knight | Non-executive Director

- Mr Knight's has worked with Boards of public, private and private equity ownership, State and Federal Governments on a range of topics including mergers, acquisitions, divestment and capital raising.
- Mr Knight was formerly a Partner of KPMG where he held the position of Head of Mergers and Acquisitions and Head of Private Equity for KPMG Corporate Finance.



Willem Vriesendorp | CEO

- Mr Vriesendorp has over 20 years experience in the cleantech sector
- Founded water treatment company in China in 2012
- Before moving to China Mr Vriesendorp spent 10 year at McKinsey & Company
- Mr Vriesendorp has a Masters in Applied Physics from Groningen University and an MBA from Insead in Paris



Magda Klapakis | CFO

- Ms Klapakis has over 25 years of experience in finance including executive roles in ASX listed Tali Digital Ltd (formerly Avexa Ltd) and Amrad Corporation Ltd.
- More recently, she was CFO at both Plexus Healthcare Ltd and Hydrogen Systems Australia.
- Ms Klapakis has a post graduate accounting degree from Monash University and is a Fellow of the Australian Society of CPAs.





Robert Friedland

- Mining entrepreneur and founder and chairman Ivanhoe and Ivanhoe Capital Corporation
- Founder, financier and chairman of multiple non mining high-tech companies including I-Pulse and Puneng



Jiang Zhaobai,

- Founder and Chairman of Shanghai Pengxin Group Co., Ltd,
- Shanghai Pengxin Group is a diversified conglomerate with controlling interests in four listed companies in China including a water infrastructure company.
- Mr Zhaobai has been ranked in the Forbes China "Hurun Rich List" for his outstanding achievements within the last decade up to 2016.

Unique Technology Solutions



Encapsulated Bacteria Lenses



Intensification of nitrification and denitrification to achieve lower footprint and operate under harsh conditions of high salinity and toxicity

Continuous Ionic Filtration

Moving resin beds in counterflow to water to improve treatment efficiency, reduce chemical use, produce smaller volume brines and filter solids

CIF® Complete Nutrient Removal



Resins to remove TN from main effluent irrespective of temperature and composition with BIOCLENS used to remove TN from concentrated brine

Chemical Free Ultra high Recovery RO



CIF removes hardness to maximize recovery and membrane life, while produced brine is used to regenerate the resins without need for additional chemicals

Membrane Free Desalination



Chemical removal of divalent ions
resulting in ultra-high recovery of complex waste
water at low cost without producing saline brines

Low Energy Evaporation/ Crystallization



Low temperature normal pressure evaporation to minimize energy use, reduce scaling and fouling risks and enable the re-use of waste heat

Resin Technology Background

Continuous ion exchange has been specifically adapted by Clean TeQ Water for water treatment applications

Clean TeQ holds over 10 patents and extensive know-how



NematiQ Graphene Membranes





Graphene Membranes focus
on the micropollutants market
estimated at USD2B in 2022 growing to
USD3B in 2028

- NematiQ has developed a ground-breaking technology to produce Graphene Membranes at scale
- Graphene Membrane nanofilters can potentially reduce the energy cost of water filtration by 50% and with a much improved resistance to fouling
- NematiQ is currently organising field pilot demonstration and scale-up of manufacturing, the final steps towards commercialization

Recent Case Examples





Antimony Processing Plant

- Oman
- 500 tons/day
- DESALX + Reverse Osmosis for re-use
- Commissioning Complete



Gold Mine Wastewater

- Victoria, Australia
- 2000 tons/day
- Removal of Sulphate, Calcium, Magnesium, Arsenic, and Antimony



Cobalt Nickel Raffinate

- Democratic Republic of Congo
- 20,000 tons/day
- Removal & recovery of Uranium through CIX



Oman 2

 Expansion and upgrade of original project



(Won tender: ~ A\$ 16m)

Sewage recycling

- Townsville, Queensland
- 10,000 tons/day for agriculture,
 5,000 m3/day for industry
- 98% recovery through HIROX



Bore water to drinking water

- Koumala, Queensland
- 100 tons/day
- Removal of hardness, salinity and disinfection



Coal mine water nitrate removal

- Ordos, China
- 12,000 tons/day
- BIONEX, effluent nitrate <1 throughout the year



Bore Water Treatment

- Middle East
- 1,000 tons/day
- HIROX, increase water recovery from 30% to 90% at much reduced OPEX

High-level Strategy



#1

Build on our unique portfolio of innovative technologies and solutions

#2

Focus on selected large and high growth sectors and regions that fit our solutions

#3

Provide integrated technology solutions, BOOT* and consumables

^{*}Build, Own, Operate and Transfer. I.e. invest in an asset and provide water treatment as a service under long term supply contract

Context and Outlook



Demerger to create standalone water technology company

Pre 2017

Sunrise Ni, Co, Sc mine project launched 2017

2018

Reorient portfolio on water sector growth

- Signed new commercial scale contracts in priority markets
- Bought encapsulation technology for nitrate removal
- Accelerated Graphene Membrane development

2019

2020

Commercial and Technical proof

- First three commercial scale water treatment plants installed
- Start of BIOCLENS production in factory in China
- Pilots across priority geographies and markets

2021

2022

Growth Phase

- Four new contracts since
 January 2021
- Building dedicated commercial teams in Australia & China
- Planned commercial introduction of Graphene Membranes



Case Example Gold mine in Victoria aiming to eliminate use of brine ponds and increase recycling Precipitation plus DESALX® technology to remove heavy metals, sulphates and scaling ions without producing liquid brines Some of effluent towards reverse osmosis to enable re-use Reduced OPEX and low environmental footprint