



Projects Update

CLEAN TEQ WATER

Sep 2021

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	0.77
Shares on issue	45 million
Market Capitalization	\$34m



~7,500
shareholders

#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

Current Target Markets



Annual Market Size

> US\$ 20 BLN

> US\$ 20 BLN

US\$ 5 - 10 BLN

Challenges

- 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



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



Handed over

A\$ 0.6m

Antimony Processing Plant

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



Handed over

A\$ 4.2m

Gold Mine Wastewater

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



Handed over

A\$ 2.4m

Cobalt Nickel Raffinate

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

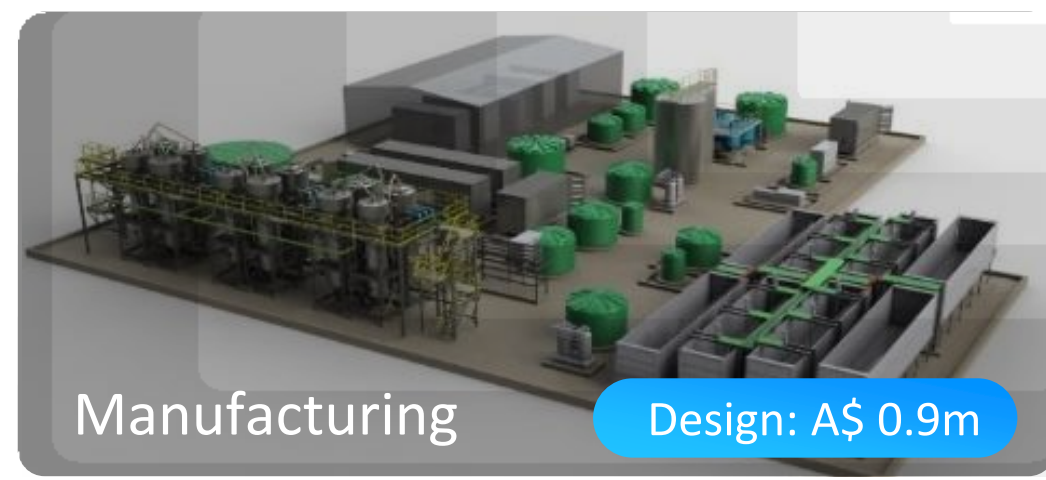


Manufacturing

>A\$ 1m

Oman 2

- Expansion and upgrade of original project



Manufacturing

Design: A\$ 0.9m

(Won tender: ~ A\$ 16m)

Sewage recycling

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



Manufacturing

>A\$ 2.5m

Bore water to drinking water

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



Manufacturing

A\$ 2.0m

Coal mine water nitrate removal

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



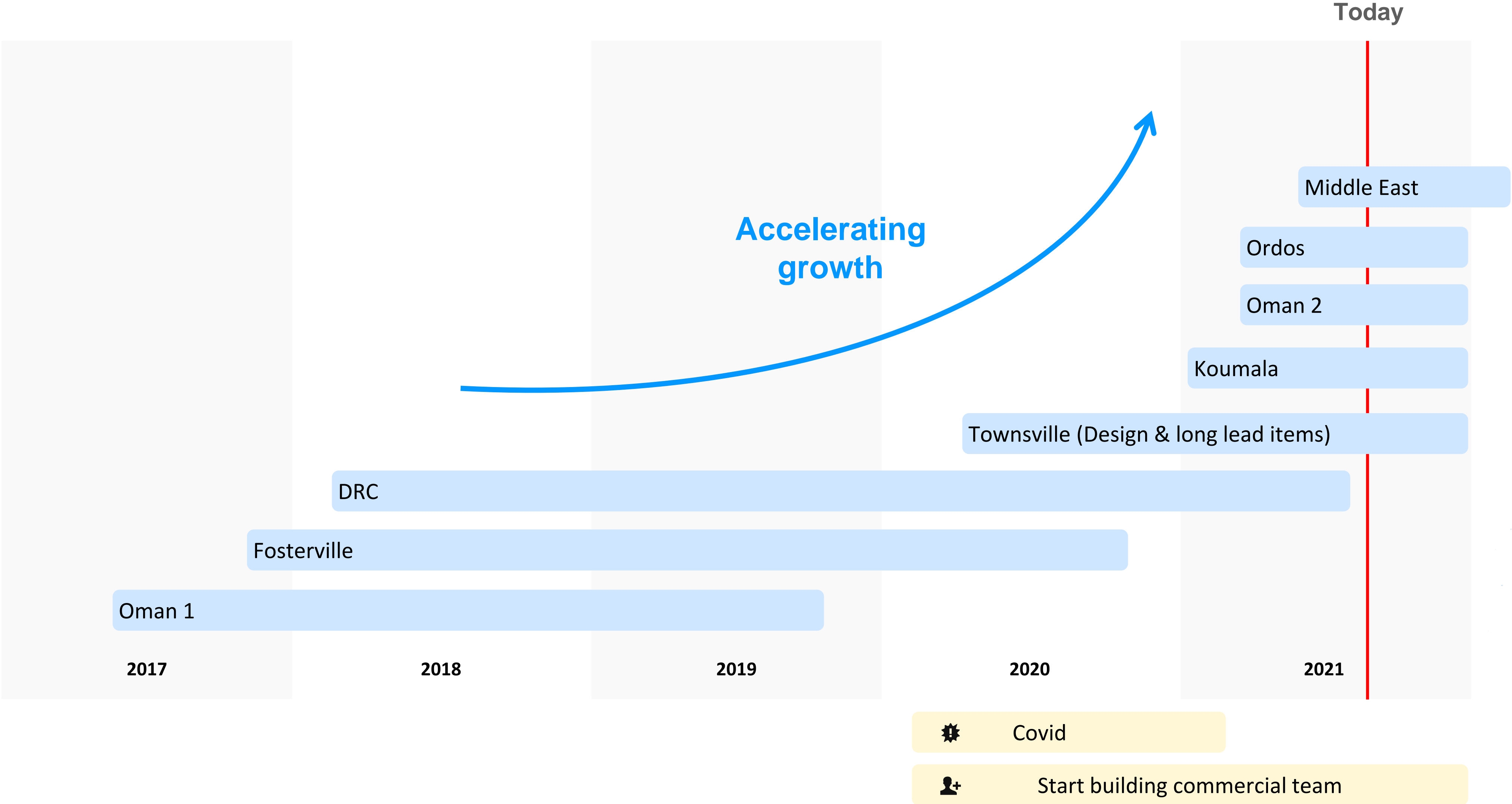
NEW: Design Phase

A\$ 3.0m

Bore Water Treatment

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

Project Portfolio Development



Project Example: Ordos Nitrate Removal through BIONEX®



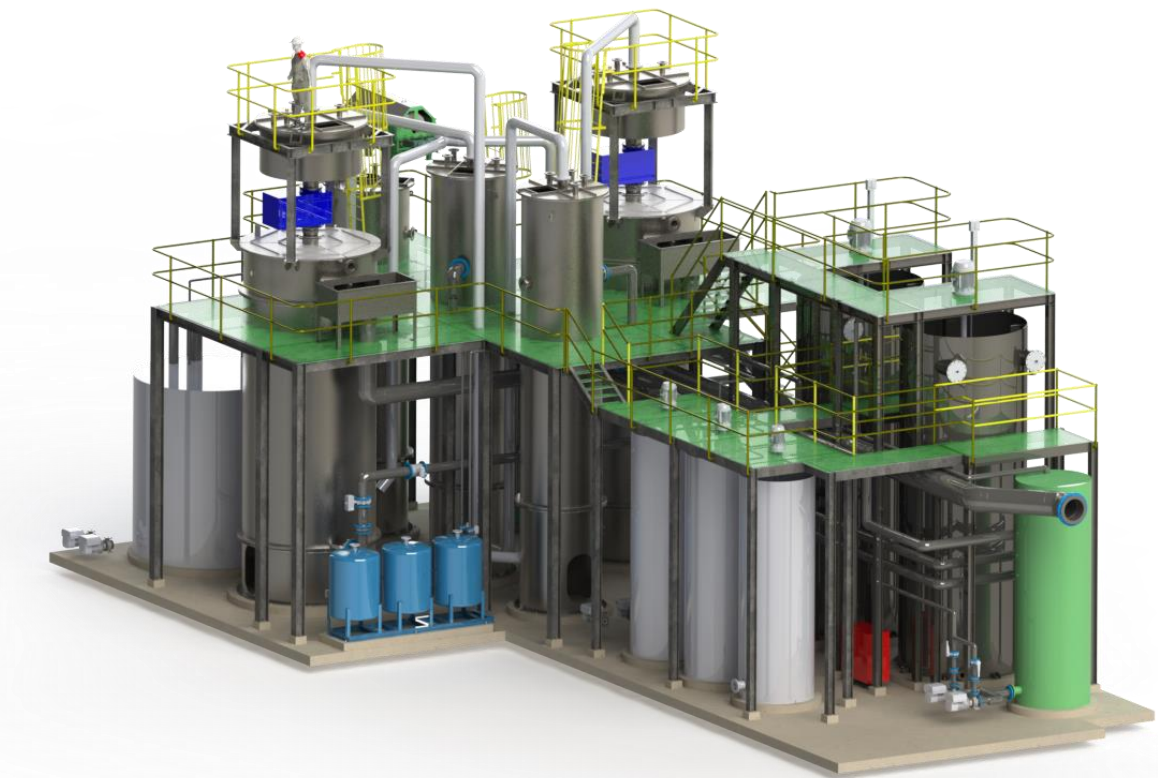
Nitrate detrimental to health and resulting algal blooms destroy ecosystems



12.000 tons per day treatment to reach <1 ppm total nitrates throughout the year



No brines or secondary pollution for less than A\$ 10 cents per ton



Status

Construction started, start operation Q4 2021

Benefits

Ultralow nitrate, ultralow cost, minimal environmental impact

Market Potential

Nitrate polishing sensitive river and ground water basins around the world

Project Example: Victoria Mine Desalination Through DESALX®



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



Status

Finalized
Warranty period

Benefits

Reduced OPEX and low environmental footprint (no brine ponds, low energy use)

Market Potential

Mining processing waste water, produced waters

Project Example: Bore water Re-use Through HIROX®

- Multinational client from Oil and Gas sector in the Middle East through our partner NESR
- Clean TeQ's HIROX / Sulphate removal method increases recovery from around 30% to 90% reducing brine by 80%
- Clean TeQ solution also re-uses salt reducing need to add salt and reducing OPEX



Status

Manufacturing started, delivery Q1 2022

Benefits

Reduced water use, waste brine and chemical consumption

Market Potential

Mining processing waste water

Project Example: Townsville HIROX® Project

- Clean TeQ has been selected to provide recycling facility in Townsville, for which it has finalized designs
- Current design would produce 15,000 tons/day water for re-use by industry and agriculture
- Council currently finalizing agreements with customers of the recycled water to finalize volume and water quality



Status

Order long lead items, awaiting EPC contracts

Benefits

Ultra-high recovery, clean brine, and minimal chemicals

Market Potential

Global WWTP re-use sector



- Clean TeQ has a large pipeline with hundreds of potential projects
- **Initial growth leads to more growth because of**
 1. entry into new subsectors, new regions, multinational customers
 2. a reduction in conversion time
 3. an increase in average project size
 4. an increasing consumables/recurring business

