



24 May 2022

Webinar Invitation to Shareholders

Shareholder Update on NT Power and Water Contract and Company Outlook

MELBOURNE, Australia - Clean TeQ Water Limited (ASX: CNQ, 'Clean TeQ Water', The Company) (ASX: CNQ & OTCQX: CNQQF) is pleased to invite shareholders and investors to a Webinar Presentation and Discussion on recent activities including:

- Material contract with NT Power and Water to supply treatment plant
- Clean TeQ Water will remove pollutants from bore water in Laramba, 200km from Alice Springs
- Discussion on previous Quarterly Activities
- Outlook on work opportunities in 2022 pipeline

CEO Willem Vriesendorp will conduct a Webinar Presentation for Shareholders and Investors on Wednesday 25 May at 1.30pm AEDT. Registration via the link below.

 When:
 Date: Wednesday 25 May 2022

 Time:
 Time 1.30pm AEDT

 Register:
 <u>https://us02web.zoom.us/webinar/register/WN_IFyybycMT6eWcy61w03BIQ</u>

Mr Vriesendorp' s presentation materials for the event are attached.

For more information:

Willem VriesendorpPeter TaylorChief Executive OfficerMedia and Investor RelationsClean TeQ WaterPeter@nwrcommunications.com.auWVriesendorp@CleanTeQWater.com+61 (0) 412 036 231

This announcement is authorised for release to the market by the Board of Directors of Clean TeQ Water Limited.

About Clean TeQ Water Limited (ASX CNQ) – Based in Melbourne, Australia, Clean TeQ Water provides innovative metals recovery and water treatment solutions for governments and companies. Our sectors of focus include municipal wastewater, surface water, industrial wastewater and mining wastewater. Clean TeQ Water has offices in Melbourne, Perth, Beijing and Tianjin, and partners in Africa and Latin America. We provide turnkey metals recovery and water treatment plants everywhere in the world.

For more information about Clean TeQ Water please visit <u>www.cleanteqwater.com</u>.

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CLEAN TEQ WATER

Shareholder & Investor Update

EANTER WATER

May 2022

Disclaimer

The Presentation contains certain "forward-looking statements" or "forward-looking information" within the meaning of applicable securities laws. Such statements involve known and unknown risks, uncertainties and other factors, which may cause actual results, performance or achievements of the Company or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements or information. Such statements can be identified by the use of words such as "may", "would", "could", "will", "intend", "expect", "believe", "plan", "anticipate", "estimate", "scheduled", "forecast", "predict", "target", "potential" and other similar terminology, or state that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved. These statements reflect the Company's current expectations regarding future events, performance and results, and speak only as of the date of this new release. There can be no assurance that actual outcomes will not differ materially from these statements. There are usually differences between forecast and actual results because events and actual circumstances frequently do not occur as forecast and their differences may be material.

Readers are cautioned not to place undue reliance on forward-looking information or statements. Although the forward-looking statements contained in this presentation are based upon what management of the Company believes are reasonable assumptions, the Company cannot assure investors that actual results will be consistent with these forward-looking statements. These forward-looking statements are made as of the date of this presentation and are expressly qualified in their entirety by this cautionary statement. Subject to applicable securities laws, the Company does not assume any obligation to update or revise the forward-looking statements contained herein to reflect events or circumstances occurring after the date of this presentation.

This announcement is authorized for release to the market by the CEO and the Board of Directors.





Executive Summary

	Company Overview	 Clean TeQ Water is a designer and provider of water treatm Demerged from Sunrise Energy Metals (SRL.ASX) in July 202 Proven ability to deliver projects and technology - 6 awarded Unique technology solutions have received international inn Global presence providing strong foothold to accelerate exp Strong shareholder register including Robert Friedland, four
	Large markets with strong tailwinds	 Water treatment is a highly fragmented and growing industries Focussed on three key markets (total estimated market size mining/metal recovery. Significant challenges across industries are related to second Increasingly strict regulation for removal of certain pollutant pollutants to ultralow levels with minimal brine production Graphene Membranes market to selectively remove microp
	Unique Technology offering	 Two key water technology platforms enabling deployment of lon Exchange Resin Technology and Encapsulated Lens Tech recycling Several initiatives underway in metals recovery with test wo look to replicate this success in other projects NematiQ, a wholly owned subsidiary, has developed a grour and currently preparing field pilot studies
	Strong Financial Growth and Outlook	 1HFY22 revenue of A\$6.7 million (vs \$1.24 million 1HFY21) Targeting annualised revenue growth of greater than 75% Project pipeline of US\$700m with 20% due for investment d Growing gross margins reflect the highly specialised nature of Projects moving from pilot to commercial stage and new properties.



- ment plants and equipment based on its proprietary portfolio of innovative technologies
- 21 to create a standalone water technology company
- ed contracts since 2021
- novation awards and over 10 patents
- pansion operating in Australia, Asia, Africa and the Middle East
- Inder and Co-Chairman of Ivanhoe Mines Ltd (US\$12B Mkt Cap)

e of ~\$50B annually); industrial brine treatment, municipal effluent / ground water re-use and

ndary waste brines produced by existing membrane systems nts such as nitrate and organics providing large market for ion exchange which can remove specific

pollutants is estimated to grow to A\$5 billion annually

of unique treatment solutions hnology solutions each provide a step change improvement in economic water recovery and resource

ork being undertaken - validated through the Sunrise Energy Metals Limited (SRL.ASX) experience – will

Indbreaking graphene membrane technology – commercial scale manufacturing achieved in March 2022

decision in next 12 months e of Clean TeQ Water's technology solutions roject wins driving sustainable revenue growth

ANTEQ





CLEAN TEQ WATER MISSION

We deliver unique water treatment and metal recovery solutions to accelerate the transition to a circular economy





Clean TeQ Water – An emerging leader in water technology solutions

Innovative and agile company with validated technology solutions

- **Global water technology delivery** across Australia, Asia, Africa and the Middle East
- Three large key markets with sustainability tailwinds \mathbf{O} industrial brine treatment, municipal effluent / ground water reuse and mining wastewater and metal recovery
- Multiple paths to high margin revenue growth
- **Extensive international IP protection**

Significant pipeline with opportunity for near term conversion



Business Update

Key Operational Highlights – FY22 to date

- 1. NematiQ achieved commercial scale manufacturing of Graphene Membranes
- 2. Final commissioning of the Oman water treatment plant upgrade
- 3. Signed and started three new contracts with total value of A\$10 million
 - Hassall EVAPX agricultural by-product wastewater recycling on site construction started
 - NESR bore water treatment and reinjection water supply project site construction started
 - Bore water treatment for Power and Water Corporation in the Northern Territory for a \$5 million contract as part of larger \$28 million dollar program. Design started
- 4. Continued progress across projects under implementation:
 - Ordos flagship 12,000 tons/day BIONEX[™] nitrate removal project ready for acceptance testing and continued operation
 - Koumala drinking water supply project equipment installations close to complete
- 5. Providing technical services to Sunrise Energy Metals in relation to lithium-ion battery products testing of flowsheet commenced
- 6. Metal recovery test works underway across vanadium and copper projects
- 7. Actively pursuing projects across municipal, industrial, and mining sectors

¹2HY2022 is an indicative estimate only

² FY2023 revenue represents the target annualised revenue growth of at least 75%



Total Revenues (A\$ Million) 25 20 15 A\$ million **10 - 12**¹ 10 5 6.7 2.2 -0.0 1.2 $\mathbf{0}$ FY2020 FY2021 FY2022e FY2023e H1 H2



- 2. Industry Overview
- 3. Product Overview
- 4. Financial Summary and Outlook

1. Company Overview



Clean TeQ Water Recent History

Clean TeQ Water is at the beginning of a large inflection point in its history as it transitions into a commercialisation growth phase

2017

Pre 2017

Sunrise Ni, Co, Sc mine project launched in 2014

Various metal recovery, air treatment and technology developments

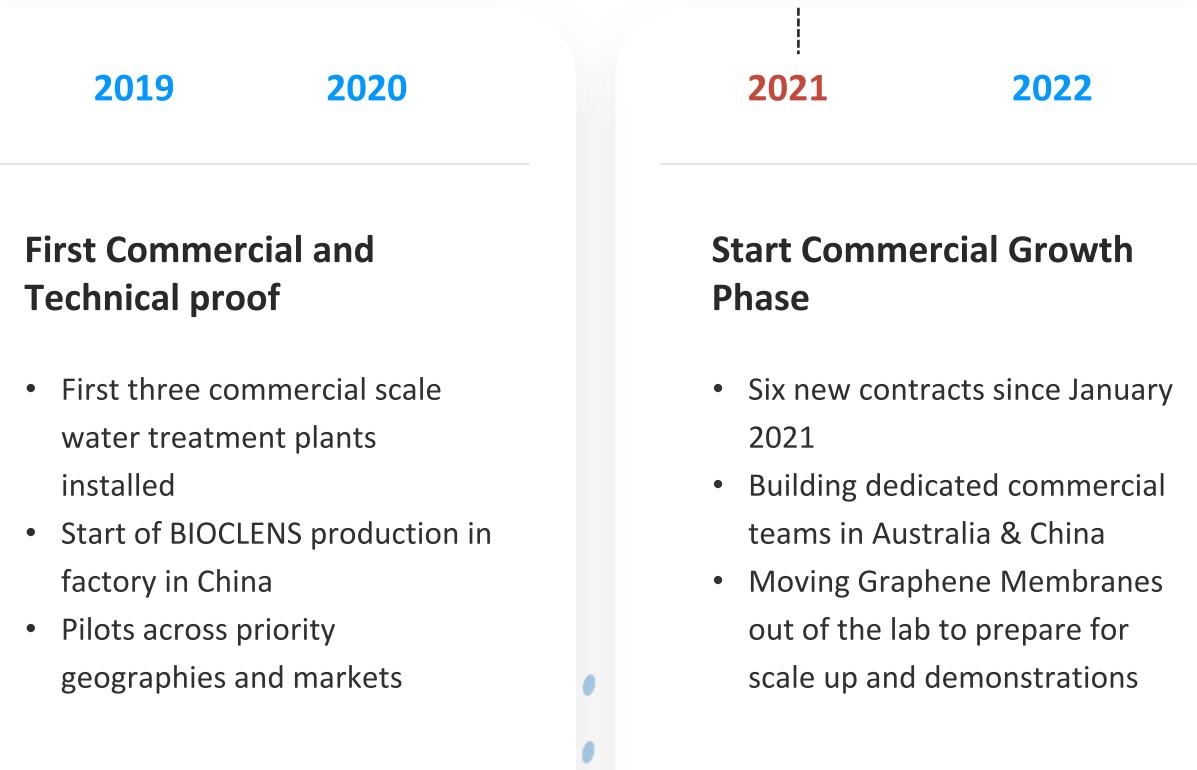
Reorient portfolio on water sector growth

2018

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



Demerger to create standalone water technology company







Business Overview

Operating across three business units delivering a unique and scalable technology offering



Resin technology platform shared across businesses



Metal Recovery / Green Mining



Metal recovery solutions to recover valuable metals, remove metal pollutants and minimize waste

> CLEAN-IX[®] - cRIP CLEAN-IX^{® -} cRIL CLEAN-IX^{® -} cLX CLEAN-IX^{® -} U-Column

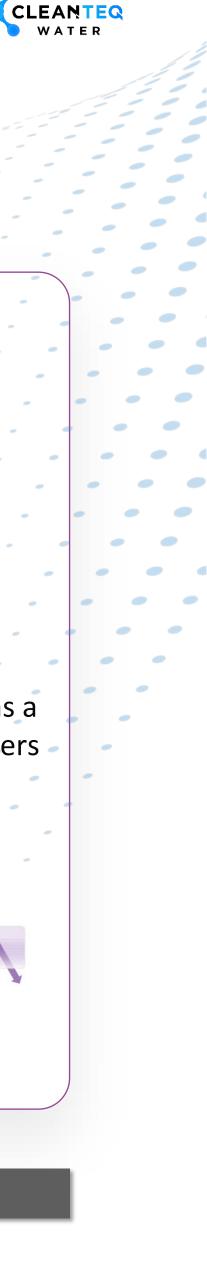
Graphene Membranes



NematiQ produces Graphene Membranes as a consumable and modules directly to end-users and various partners

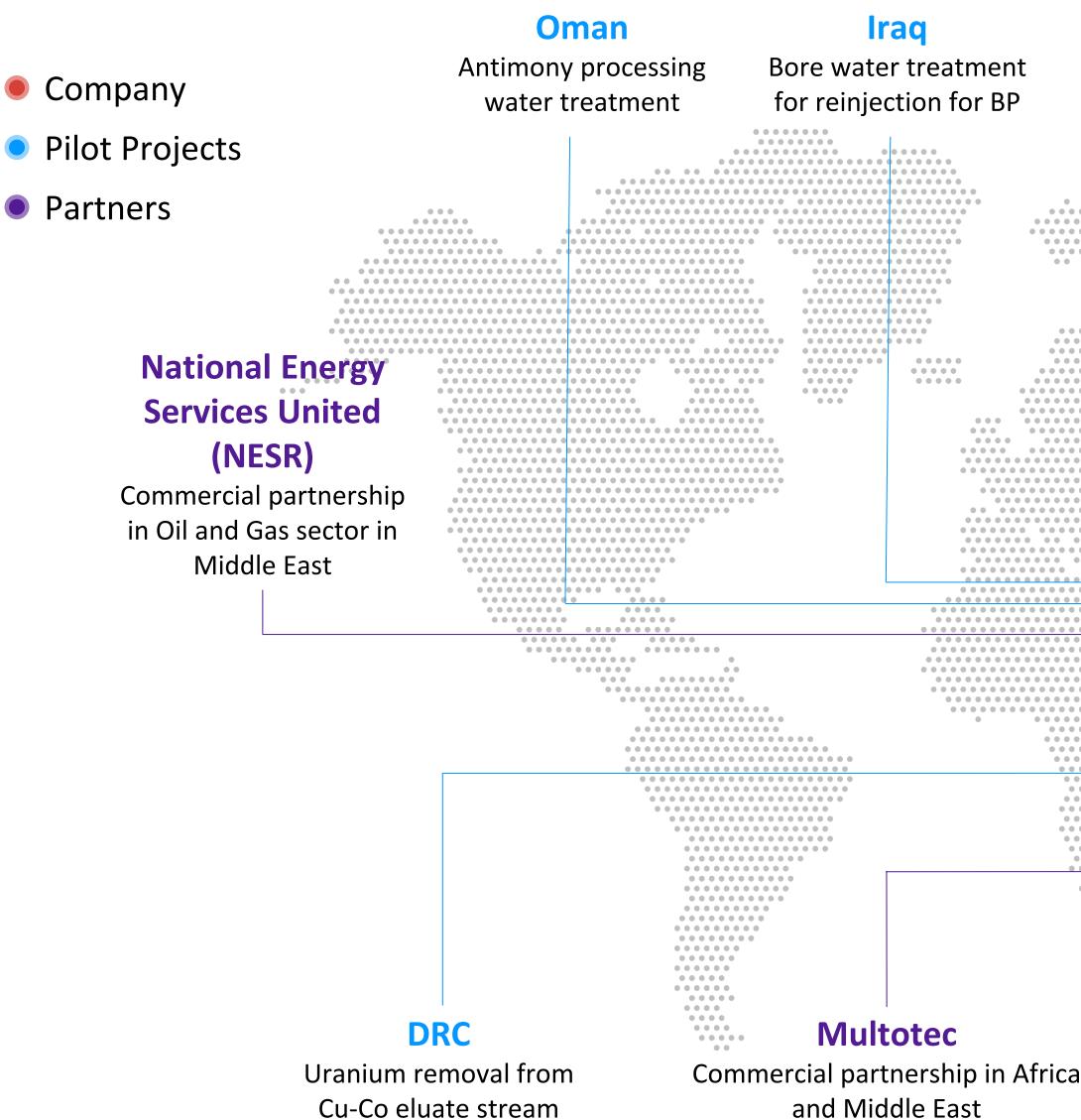


Unique standalone technology



Geographic Exposure

Global presence with strong foothold to accelerate commercial expansion





Clean TeQ Beijing

Office and research lab

Ordos

Nitrate removal from coal

mining water • • • • • • • •••• **Clean TeQ Tianjin** •••• ••• **BIOCLENS** production facility ----....... **Northern Territories** Bore water for drinking •• **New South Wales** <u>.</u> ····· Agricultural brine ••••• •••• • • • • • • • **Clean TeQ Melbourne** Queensland Victoria Office and research lab Gold mine water Bore water purification recycling plant



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Management and Board

Expertise where High-tech meets commercialisation



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.



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.





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



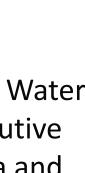
Robyn McLeod | Non-executive Director

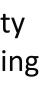
- Highly respected Executive within the water and health sectors in Australia.
- Ms McLeod currently sits on the Boards of Melbourne Water, Monash Health, and VicWater.
- Ms McLeod previous positions include Independent Commissioner for Water Security for South Australia, National Director of Water at KPMG, Executive Director of Major Water Projects for the Department of E&S in Victoria and Chief of Staff to the Victorian Minister for Energy.



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.





Corporate Snapshot

Clean TeQ Water de-merged from Sunrise Energy Metals Limited (SRL.ASX) in July 2021

5.5%

Financial Snapshot

ASX Code	CNQ
Share price (4 May 2022)	A\$0.60
Number of shares	44.7m
Market capitalisation	A\$27.69m
Cash (31-Mar-22)	A\$8.0m
Debt (31-Mar-22)	No debt
Enterprise value	A\$14.9m
Top Shareholders	
Mr Robert M Friedland	13.4%
Pengxin Holdings	11.7%

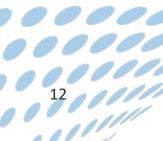
Directors and Management





CNQ Share Price Performance

(m) Volume



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Current Target Markets

Large and fragmented market with sustainability tailwinds



Annual Market Size (Estimates) *



(Estimates)		
Main general challenges	Secondary waste streams (brines) from existing membrane systems that need further advanced treatment to meet stricter regulation and to increase rate of recycling	Remo as nu meta recov volun
Clean TeQ Water Proposition	Advanced treatment that reduces brine volumes at lower operational cost	Targe pollu ⁻ elimii

> US\$ 20 BLN



> US\$ 20 BLN

noval of certain pollutants such utrients, organics, and heavy als while achieving maximum overy and minimum brine Imes

geted removal of certain utants to minimize or ninate brine volumes and cost



US\$ 5 - 10 BLN

Generally very complex waste waters for which traditional disposal methods including brine evaporation ponds and disposal through tailings are increasingly prohibited

Ability to accept and treat very complex waste waters





Current Target Markets

Large and fragmented market with sustainability tailwinds



- More water recovery from brines to reduce footprint
- Disposal of brines
- Removal of pollutants from brine, including especially organics and nitrates
- Minimize chemical use and cost, and recycling of chemicals

Clean TeQ Water Solutions

Specific Challenges

- **HIROX** can increase water recovery, reduce brine volume, and reduce chemical use by recycling of brine and salts
- **BIOCLENS** is one of the few technologies that can remove nitrate and ammonia from highly concentrated brines
- **EVAPX** provides a low-cost evaporation method for highly concentrated brines when zero liquid discharge is required



- Nutrient removal and recovery especially for nitrate, ammonia and phosphate
- Heavy metals and other pollutants such as uranium, fluoride, and PFAS
- Limited brine disposal possibilities requiring minimal volume of brine
- High hardness from ground water



Municipal Effluent and ground water Re-Use

• **BIONEX** removes trace concentrations of nitrate to meet regulation with limited/no secondary waste in contrast with traditional RO membranes • **PHOSPHIX** can economically remove and recycle Phosphate which is becoming a regulatory requirement in certain regions

Graphene membranes can remove organics at minimal energy cost for drinking water production • **CIF** can selectively remove certain pollutants. High selectivity ensures low cost and minimal brines • **HIROX** brine minimization



- Sulphate concentrations over the limit
- Heavy metal pollution over the limit
- Recovery of valuable metals from waste
- Decreasing 'easy' disposal options due to tightening regulation limiting use of brine evaporation ponds, reinjection, disposal into tailings
- CIF can remove certain pollutants from complex waste waters
- **Clean-IX** can economically recover certain valuable metals, returning a high purity and highly concentrate product stream
- BIOCLENS, HIROX, DESALX, EVAPX also have applications in mining depending on the situation





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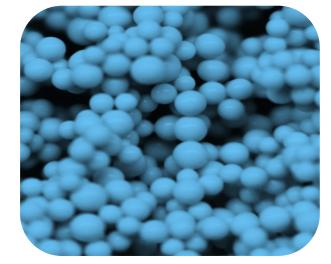
Unique Water Technology Platform

CNQ's unique water technology is built on two key technologies

1 Ion Exchange Resin Technology



- Resin beads are specifically designed to bind to targeted ions, thoroughly removing target species with minimal secondary waste
- Continuous ion exchange systems have been specifically adapted by Clean TeQ Water for water treatment applications including economic recovery of valuable components
- Clean TeQ holds over 10 patents across an extensive portfolio of industry leading solutions





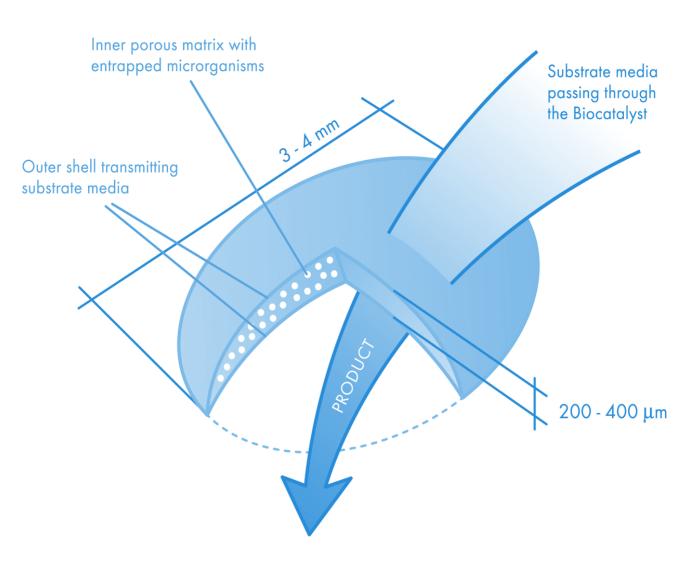




2 Encapsulated Bacteria Lens Technology

BIOCLENS™ BIONEX™

- Utilizes bacteria encapsulated in lenses as a biocatalyst to enhance and accelerate natural processes which break down organic matter.
- Specifically cultivated for nitrate and ammonia removal
- Lens provides protection against harsh environment making the it suitable for nitrate/ammonia removal from industrial wastewater and brines
- Patented lens manufacturing process and patent







Unique Water Technology Solutions

Clean TeQ Water Technology solutions each provide step change improvement in economic water recovery and resource recycling

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

Chemical Free Ultra high Recovery RO

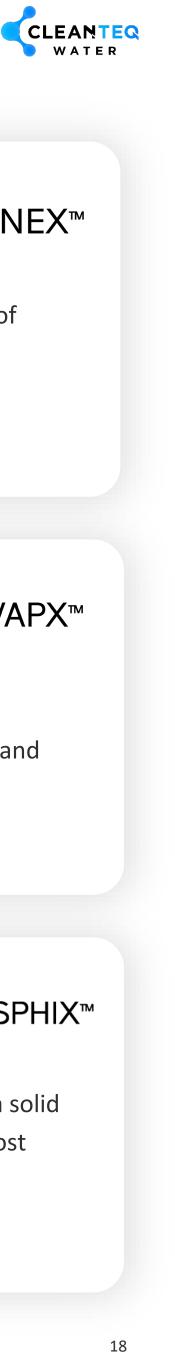


BIOCLENS™

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



Complete Nutrient Removal



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



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



Phosphorous removal and recovery



Selective removal of phosphate from water creating a solid phosphorus product that can be recycled using low-cost chemicals making recycling attractive even at lower Phosphate concentrations

Water Technology Solutions: Case Study

Ordos Nitrate Removal through



Algae blooms caused by pollution from nutrients such as nitrate



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

 \approx No brines or for less than



secondary pollution

A\$ 10 cents per ton



Status

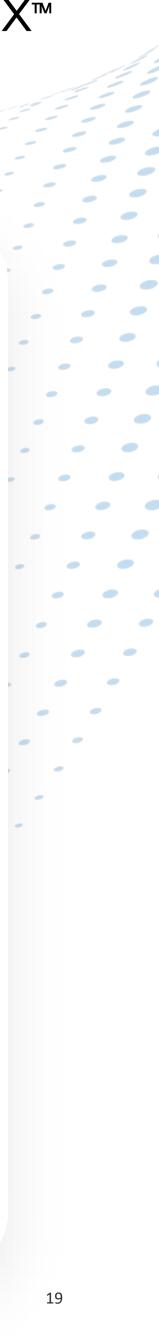
Commissioning (first water through manual operation Nov 2021)

Benefits

Ultralow nitrate (<0.5 ppm), ultralow cost (<A\$ 0,2), minimal environmental impact

Market Potential

Nitrate polishing sensitive river and ground water basins around the world



Latest Project Example: Laramba Uranium removal through IX





Uranium is a heavy metal detrimental to personal health



A\$ 5 million is largest single contract value in CNQ Water history



Future provision for nitrate and hardness removal if required







Metal Recovery / Green Mining Applications

In development and commercial discussions for large metal recovery projects



Unique Technology to unlock value potential

Our metal recovery technologies (CLEAN-IX[®]) provide a unique approach to ion exchange and is specifically suitable for extracting value from large, low concentrated resources



Focus on tailings management & new energy metals

Clean TeQ focus is on tailings (mining waste) which contain enormous metal resources that need to be recovered to meet future demand, including Vanadium, Copper, Nickel, Cobalt and Rare Earths

The Sunrise project includes CLEAN-IX[®] to be a central process step in the metal refinery to produce smaller, more highly concentrated metal raffinate lowering **CAPEX, OPEX and environmental footprint.**



Obtain Share in metal recovery upside

Clean TeQ aims to share in the value created by applying its technology through equity, revenue sharing or licence fees







Metal Recovery and Green Mining Applications: Case Studies

Providing value through advanced bespoke solutions



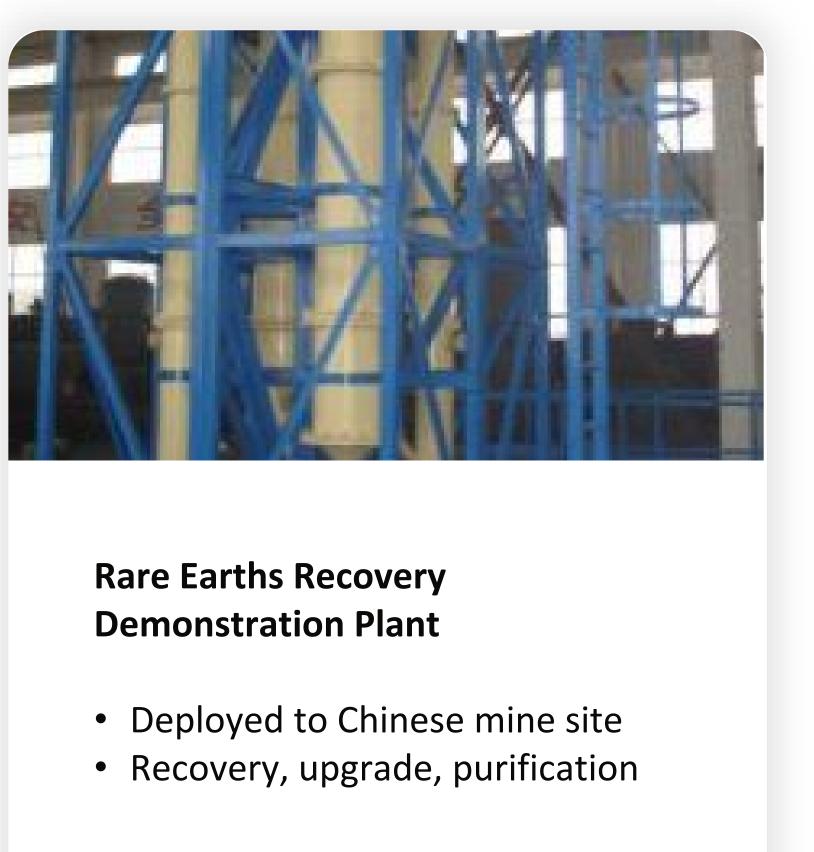


Nickel Cobalt – Sunrise Energy Metals Limited (SRL.ASX) Pilot Plant

- Deployed to Australian laboratory
- Resin-in-pulp adsorption circuit
- Desorption included a U-column
- Nominal throughput 100 200 L/h pulp

Uranium Recovery Demonstration Plant





• Deployed to Namibian mine site • Uranium recovery from leachate • Desorption included a U-column



Graphene Oxide Membranes

Energy efficient solution to the global water scarcity problem



High Water Transfer Rate = Lower energy requirement

Enabling lower pump pressures resulting in up to 50% reduction in energy cost for filtration



Tuneable Filtration Size

GO structure allows filtration characteristics to be engineered for specific use cases

High Resistance to fouling & oxidation

Leading to longer product life and decreased lifetime project costs



No Salt Rejection

No need for downstream water conditioning

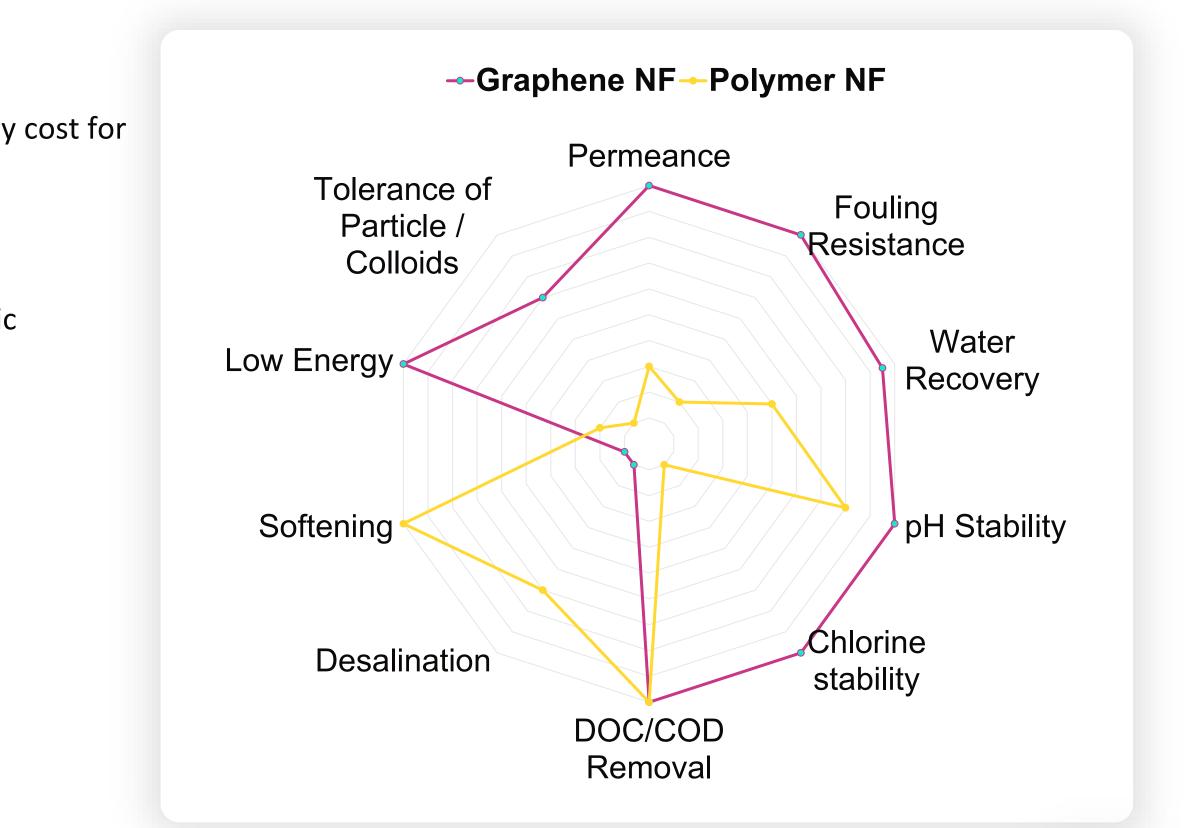


High chemical stability

pH and chlorine stable, allowing use in industrial processing



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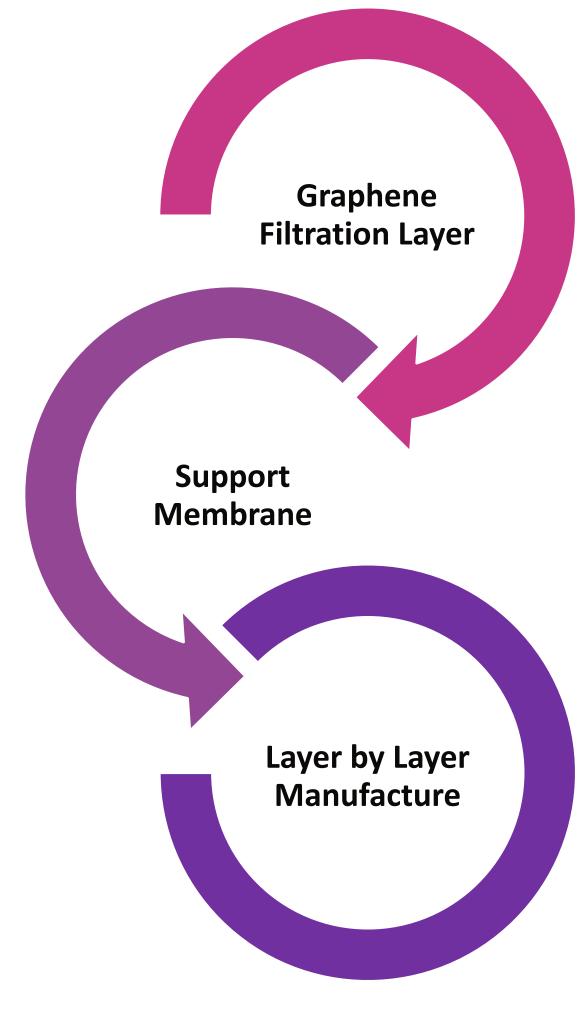


GO Membranes selectively remove micropollutants a market estimated to grow to A\$5 billion annually

Graphene Oxide Membranes

Ground-breaking technology that unlocks manufacturing at scale

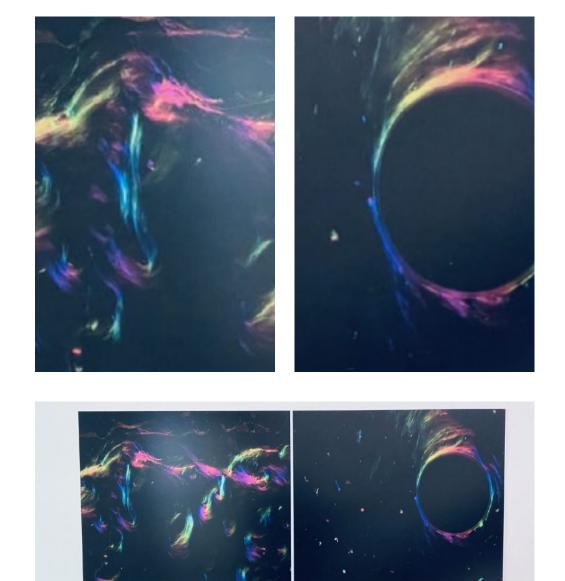
Manufacture of a Graphene Membrane with the required attributes at scale is not a simple task and is the major contributing factor to slow industry uptake





NematiQ has developed a ground-breaking technology to produce Graphene Membranes at scale

NematiQ is currently organising field pilot demonstration and scale-up of manufacturing, the final steps towards commercialization

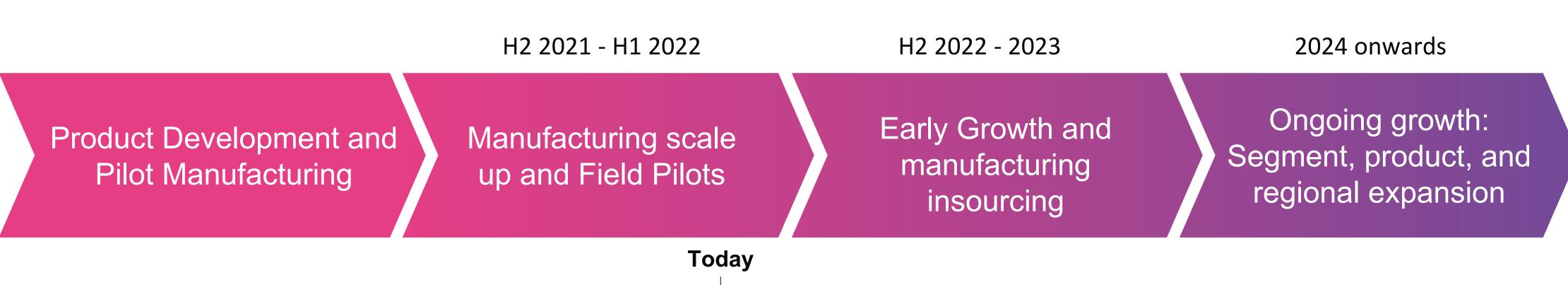






NematiQ at Inflection Point Due to Recent Progress

Clean TeQ Water has achieved a major milestone by manufacturing NematiQ graphene membranes at commercial scale



industrial rolling machine

for the next 6-12 months

capabilities, setting up partnerships and building internal manufacturing



- On March 03, 2022, CNQ achieved a major milestone by manufacturing graphene membranes at commercial scale on an
- These membranes will be incorporated into modules that will be used for field demonstration in key customer segments
- Upon successful completion of field trials, sales preparation will start through the building of commercial internal

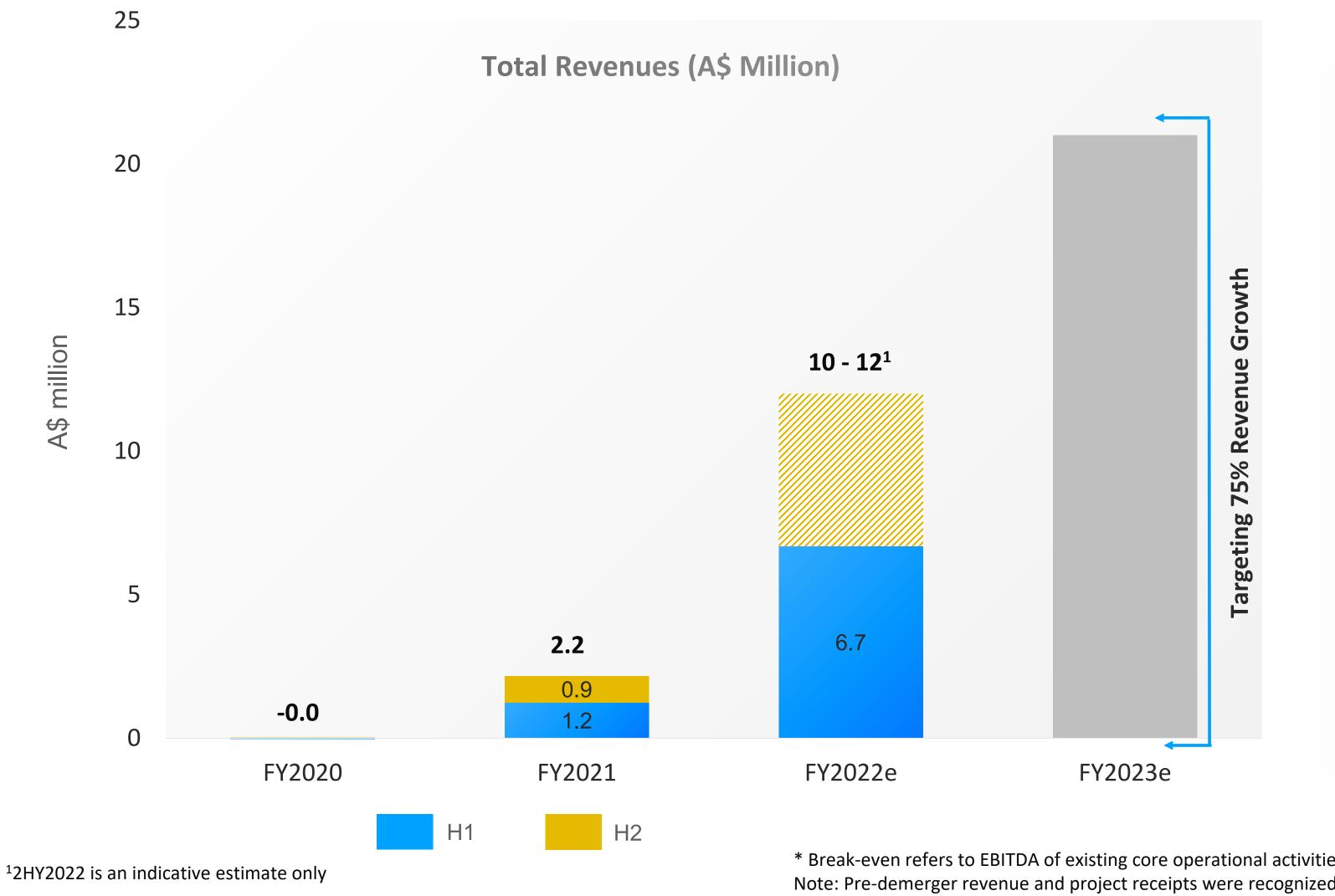
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Strong revenue growth

Well positioned to deliver sustained revenue growth as the Company enters its commercial growth stage





Targeting annualised revenue growth of 75%, delivering:

- operational break-even* for international water solutions in FY 2023
- operational break-even* for full company in FY 2024

H1 FY2022 Revenue of A\$6.7m was

- 90% sales and delivery of advanced water treatment packages
- 10% from consumable and recurring revenues

Operating leverage to deliver high gross margins as the number and size of active projects grows

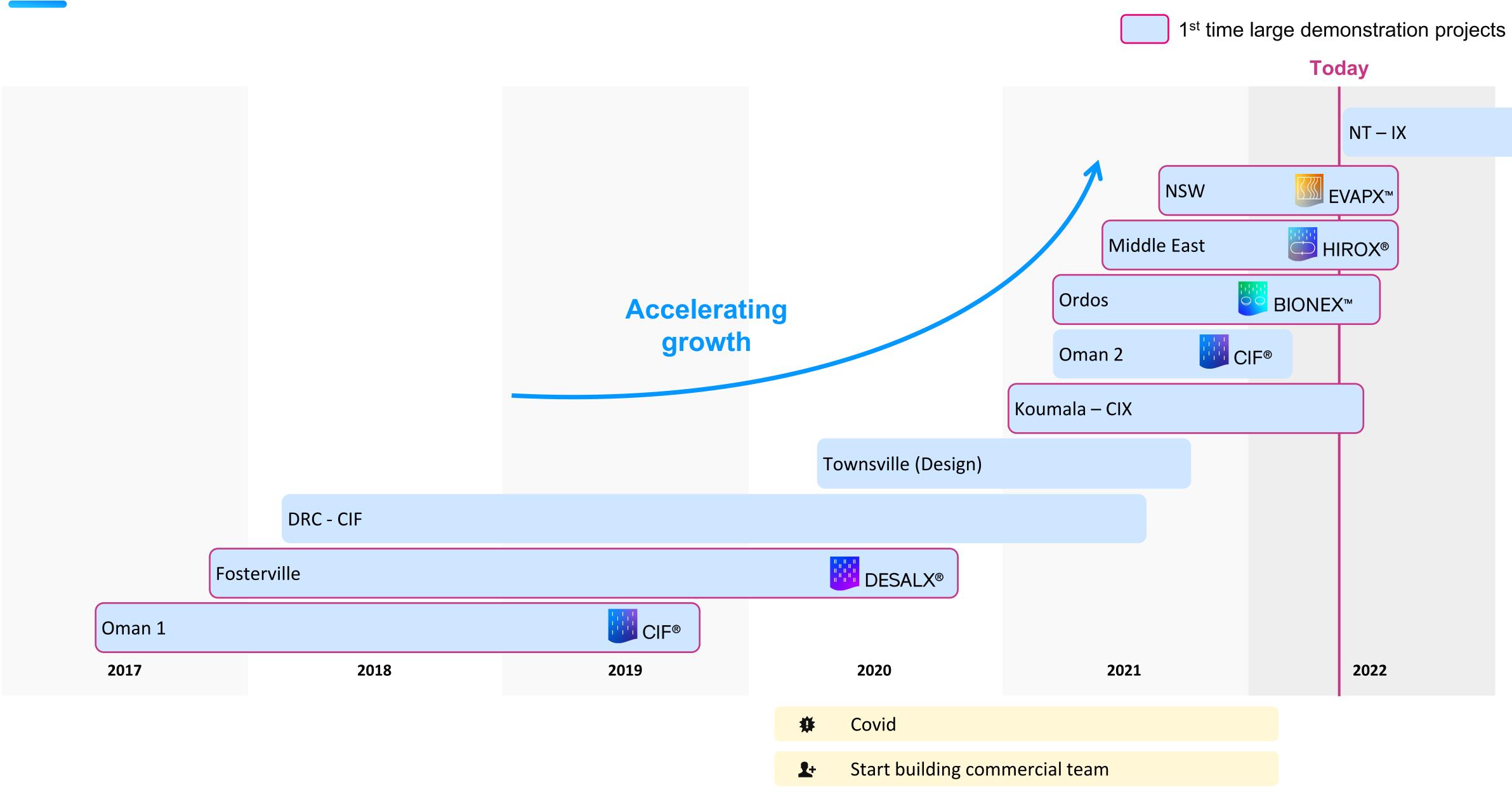
Project payment milestones are typically concentrated at the start (signing, design, ordering, start shipping) and the end (final construction and commissioning)

Cash of A\$8m at 31 March 2022

* Break-even refers to EBITDA of existing core operational activities (excludes investments or possible future business scope expansion) Note: Pre-demerger revenue and project receipts were recognized under SRL's group structure



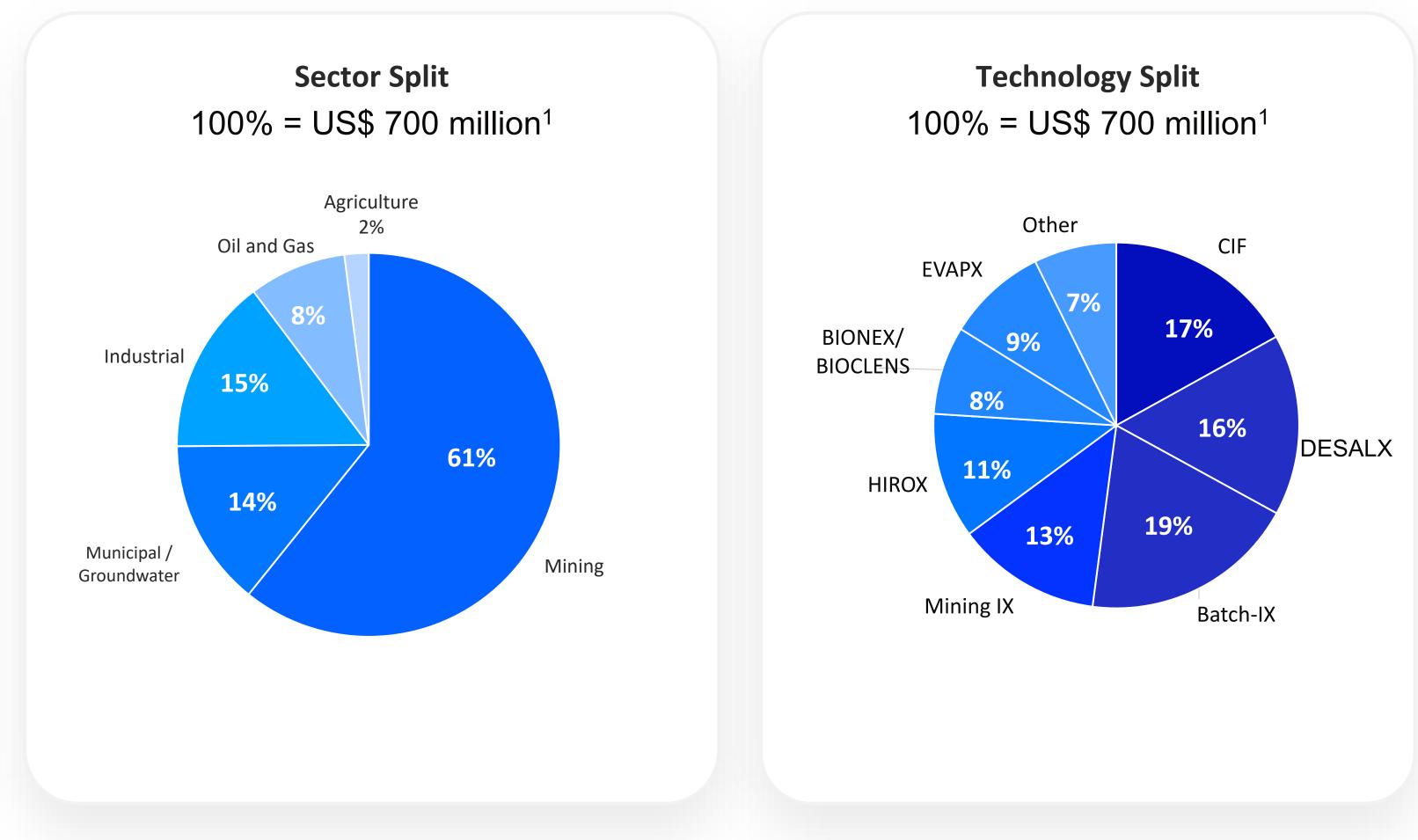
Accelerating Growth of Water Solutions Project Portfolio





Strong pipeline of new customer opportunities

Potential customer pipeline of approx. USD\$700m with approximately 20% due for a customer decision within 12 months



¹ Indicative only, does not represent company forecast. Revenue represents lifetime revenue of the project. Projects are included in the pipeline when there has been direct contact with the prospective customer, when CNQ has received water quality information of the specific project, and when CNQ sees a potential fit with our technology. The pipeline size is not corrected for the chance of the customer project to go ahead, nor for the chance of success of winning the project, nor for the stage of the project. It includes both tender projects and early-stage direct discussions



Projects range from early-stage project discussions to late-stage competitive tenders

Around 20% of the pipeline is estimated to see a customer decision within the next 12 months

Revenue Potential¹

Pipeline Size (US\$m)		\$700	
Pipeline conversion to sales (%)	10%	20%	30%
Potential Revenue (US\$m) ²	\$70	\$140	\$210





Revenue growth drivers

Four triggers that will drive sustained revenue growth and improved margins across the business

New demonstration plants in new regions, with new technologies & partners

Middle East/HIROX and China/BIONEX are the world's first plants at scale, in high demand regions and sectors (oil & gas and China municipal)

Decisions on multiple follow-up projects will be triggered by their successful delivery

Access to larger scale projects

Historically, target projects have been limited in size to up to around A\$6 million due to perceived risks

With delivery of more A\$ 3-4 million projects, ability to access >A\$ 10 million projects will increase





Underlying increase of repeat business

In the past year average project delivery time decreased from around 3 years to 1.5 years. Recurring applications will reduce project delivery time further to 1 year due to less testing and design time

Faster project delivery leads to increased revenues and higher margins

Continued increase of repeat business with every delivered projects from consumables and services



Key Catalysts and Strategic Focus

Clean TeQ Water is set to deliver strong news flow through the remainder of FY22 and FY23

- Planned commissioning of Ordos BIONEX[™], Koumala, Northern territories IX, and NESR HIROX[®] projects
- Continuation of commercial discussions on projects across geographies, sectors and technologies, including multiple tenders in Australia, and multiple high value potential projects with NESR in the Middle East
- Expansion of sales activities in new major markets with addition of local commercial representatives that will pursue and follow-up potential African and European projects.
- Commencement of pilot of CLEAN-IX[®] technology for valuable metal recovery from tailings and recycling waste in China
- Demonstration of water filtration systems utilizing ground-breaking graphene membrane technology NematiQTM
- Expand BIOCLENS[®] manufacturing capacity to meet expected projects demand
- Further Standardize Water solutions designs and manufacturing
- Technical services for Sunrise Energy Metals in relation to lithium-ion battery recycling
- Commercial launch of NematiQ graphene membranes
- Launch Build Own and Operate delivery model
- Actively pursuing projects across municipal, industrial, and mining sectors



