



# CLEAN TEQ WATER

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Investor Webinar

March 2023

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# CLEANTEQ WATER MISSION

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



# Business Overview

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

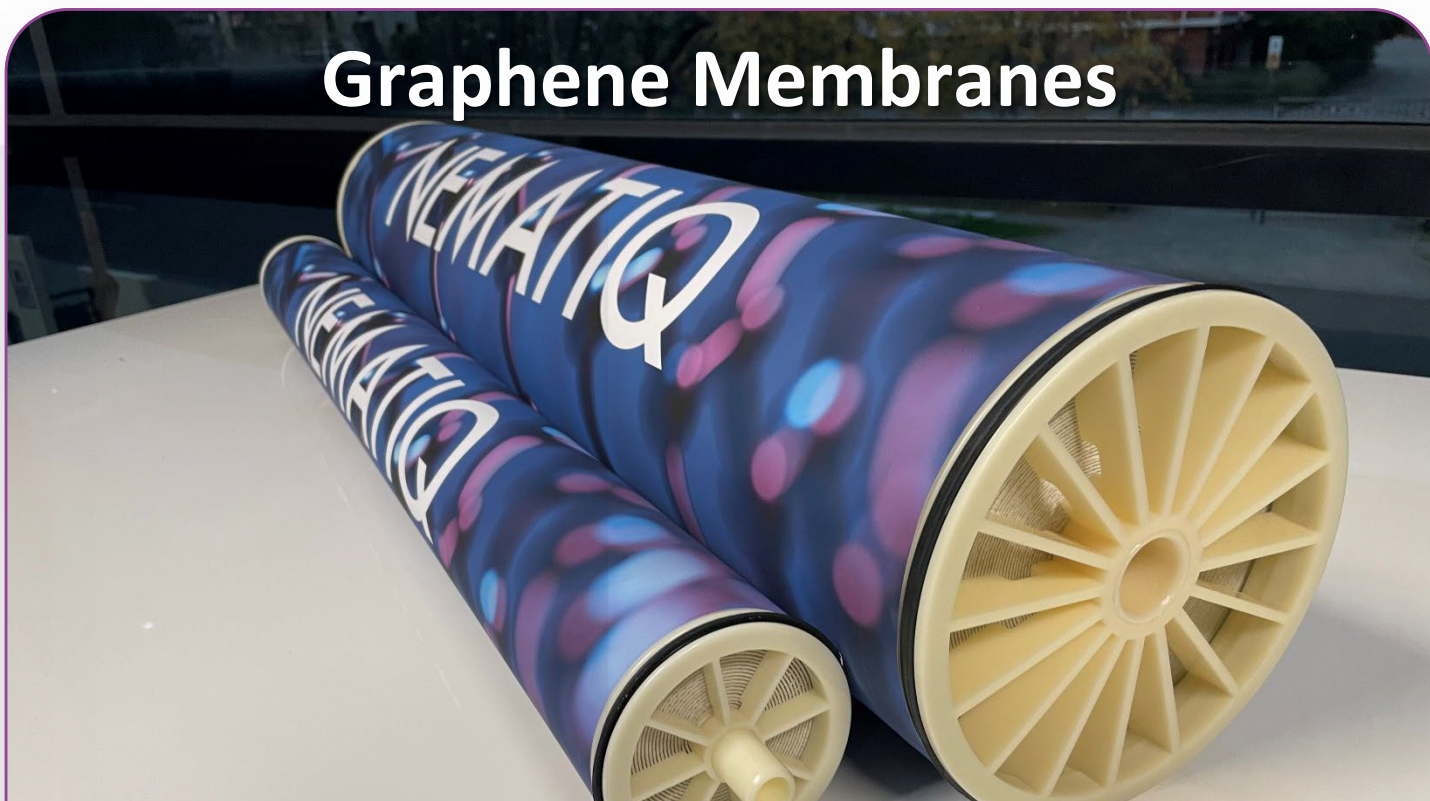
## Water Solutions



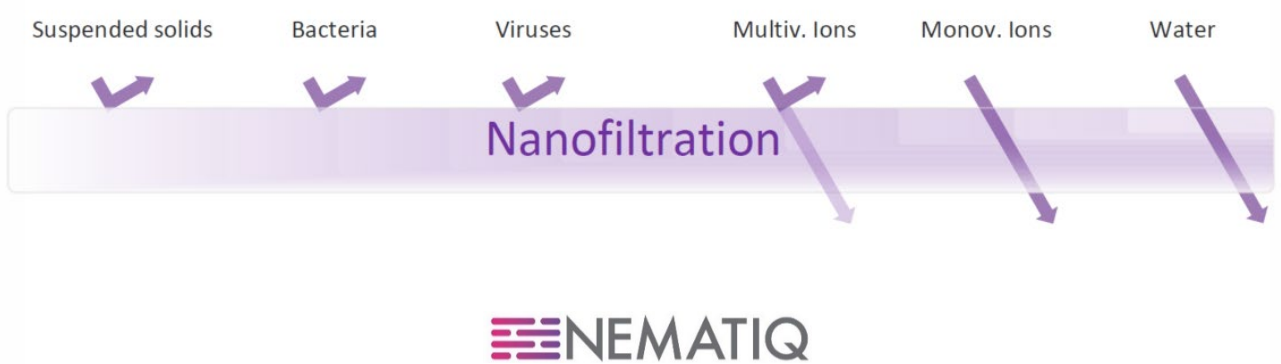
Water Technology solutions providing semi-customised advanced water treatment solutions and related consumables



## Graphene Membranes



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



## Direct Metal Extraction



A set of technical solutions to extract high purity metals directly from solution to be applied to pollutants and valuable metals



CLEAN-IX® - cRIP  
CLEAN-IX® - cRIL  
CLEAN-IX® - cLX  
CLEAN-IX® - U-Column

Water Solutions is in the growth phase, driving 95% of revenue. Graphene Membranes and Direct Material Extraction are pre-revenue, with pilots in progress and potential for significant additional value uplift



## Key Operational Highlights – FY23 to date

### ■ Water Solutions

- 1. Improving project margins and increasing profitability
- 2. Commissioning Koumala drinking water and PWC uranium removal
- 3. Signed and started implementation large scale Townsville contract
- 4. Partnership with leading UK environmental company ENVA, pursuing four projects with industrial clients in Europe
- 5. Signed distribution partnership agreement with Stitchwise for use of the ATA™ technology in underground backfill operations
- 6. Strong pipeline of additional opportunities

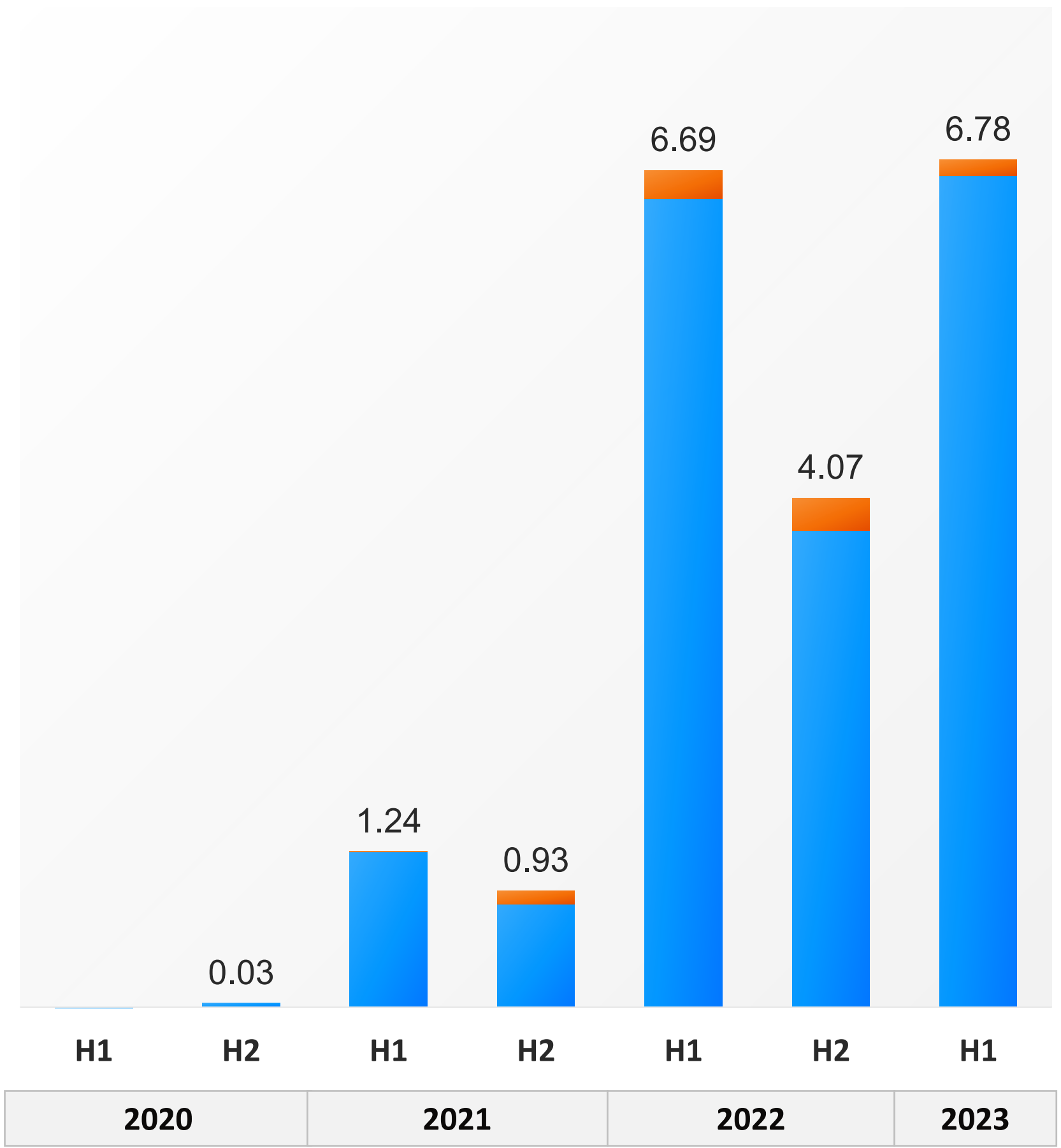
### ■ Metal Recovery

- 5. Establishment of Go2Lithium joint venture with Computational Geosciences Inc. for Lithium extraction from brines in North America using Clean TeQ Water’s proprietary Direct Lithium Extraction (cDLE™) technology
- 6. Start of testwork at Kamo-a-Kakula for recovery of copper in tailings

### NematiQ

- 7. Excellent results from first on-site pilot at agricultural processing company Schreurs and Son’s

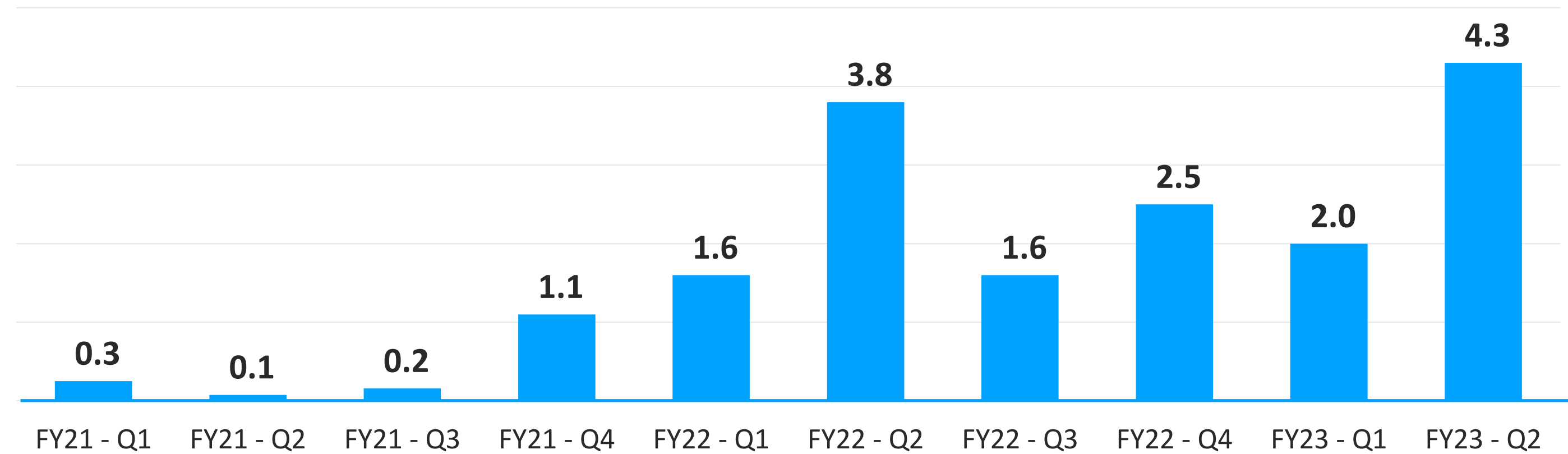
Sales Revenues (A\$ Million)



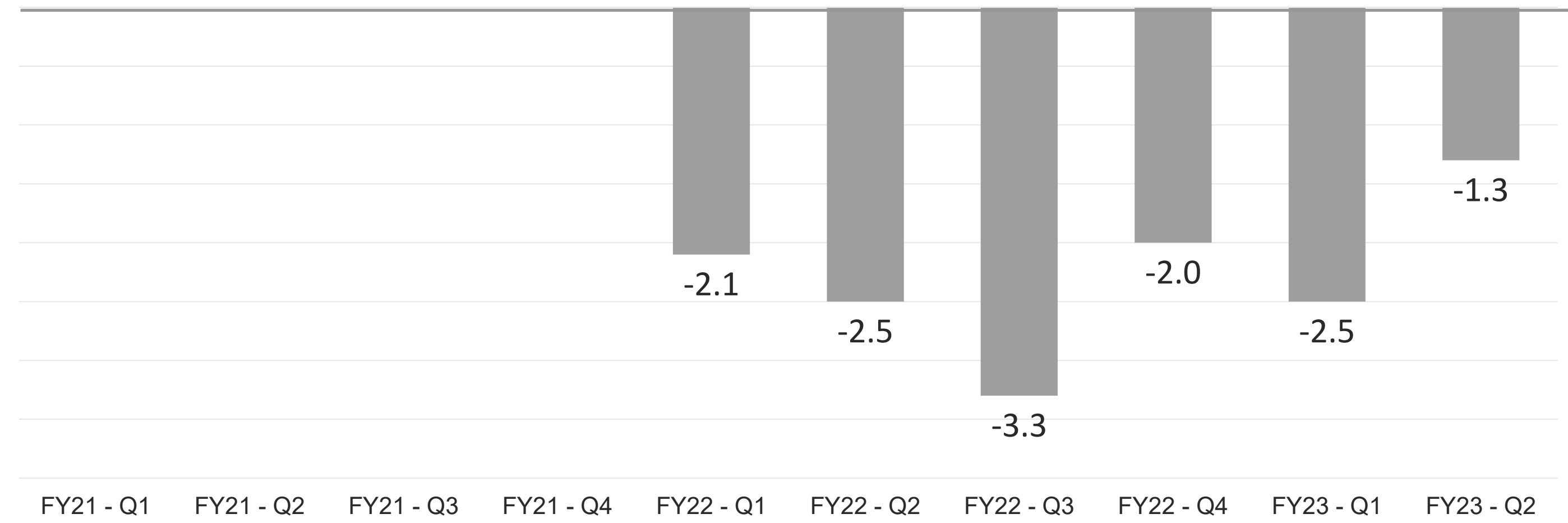
# Improving Cash Flows and Profitability



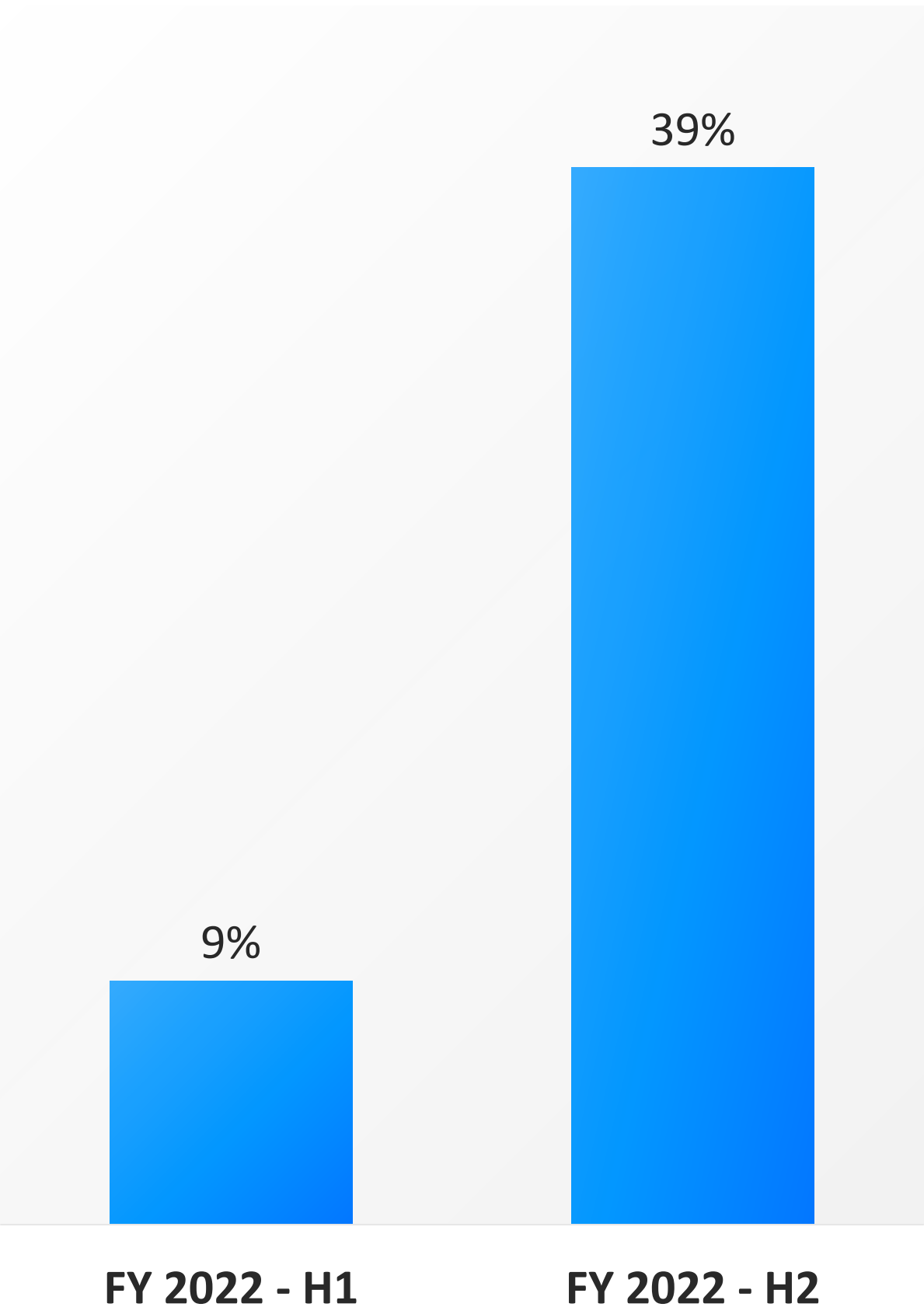
Cash Receipts\* (A\$ million)



Net Cash used in Operating Activities (A\$ million)



Project Gross Margins



\* FY2021 Cash Receipts represent Water customer receipts to Sunrise Energy Metals prior to Demerger.

Continuous Ionic Filtration



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

Membrane Free Desalination



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

Encapsulated Bacteria Lenses



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

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

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

Moving into piloting

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

Rapid Tailings Dewatering



A polymer-based technology which rapidly separates tailings into reusable high strength solids and clarified water for immediate recycling.

Graphene Membranes



Graphene Membranes with nanofiltration properties offering high performance at low energy and with limited fouling



# Project Completions Expand Footprint in Australia Drinking Water Sector



## Laramba Uranium removal through IX

- \$ 5m project for Uranium removal from ground water
- Part of a \$ 28m program to improve water to Aboriginal communities



## Queensland drinking water project through IX

- Hardness removal and salinity reduction from ground water
- Improvement of drinking water quality in local community



# Other Recent Projects Update



## Nitrate removal inner Mongolia

- Coal mine waste water
- Nitrate removal with no secondary waste

### Project update

- BIOCLENS portion awaiting installation
- Soft handover, plant operated by end-user.



## Reinjection water for BP in Middle-East

- Increase recovery of bore well water treatment from 30% to 90%,

### Project update

- Construction close to finalized, preparing for commissioning phase



## Agricultural brine recycling

- World-leading tannery located in NSW
- EVAPX to recycle brine at reduced energy and therefore carbon footprint

### Project update

- Hot commissioning ongoing



## Townsville Municipal Recycling

- \$ 10m 15 MLD project
- Recycled water for industry and irrigation

### Project update

- Equipment design finished
- Major equipment contracts ordered
- Foundation finished



# Cooperation Agreement with Leading UK Environmental Company Enva



- Enva is a UK based waste management company, employing around 1500 people across 30 facilities
- Enva has a leading position in the dairy, pharmaceutical, and industrial sectors
- Parties are currently pursuing four projects with multinational companies
- First customer paid testing for PHOSPHIX™ has commenced



# ATA™ Distribution Agreement in South Africa with Stitchwise



## Stitchwise:

- Leading South-African provider of back-fill operations operating 60% of underground mines

## Distribution Agreement:

- Exclusive use of ATA™ dewatering technology for Stitchwise customers
- License fee per m3 treated plus sourcing of polymers from CNQ
- CNQ to provide technical support

## Next:

- Multiple inquiries from leading mining companies, driven by safety concerns and the need to reduce footprint and legacy liabilities
- Aim to expand across the global tailings management market estimated to reach U\$ 260 billion by 270\*

\* <https://www.absolutereports.com/global-mining-tailings-management-industry-research-report-competitive-landscape-market-21439154>



# Commercial Outlook Water Solutions



## Australia and Rest of the World:

- Strong follow-up interest from latest projects in Australia
- Middle-east/NESR awaiting delivery of large scale HIROX plant
- High potential leads from mining customers across the world



## Europe Interest:

- Strong technology fit
- Regulatory pressure and strong demand from multinationals driving innovation
- Pursuing over 30 new projects including multiple pilots



## China Recovery:

- COVID regulations ended
- Governments budgets limited, but industrial sectors expected to increase investments
- Pursuing new partnerships focused on industrial sectors with three ongoing pilots



# Progress Towards Entry into Lithium Production with Establishment of JV



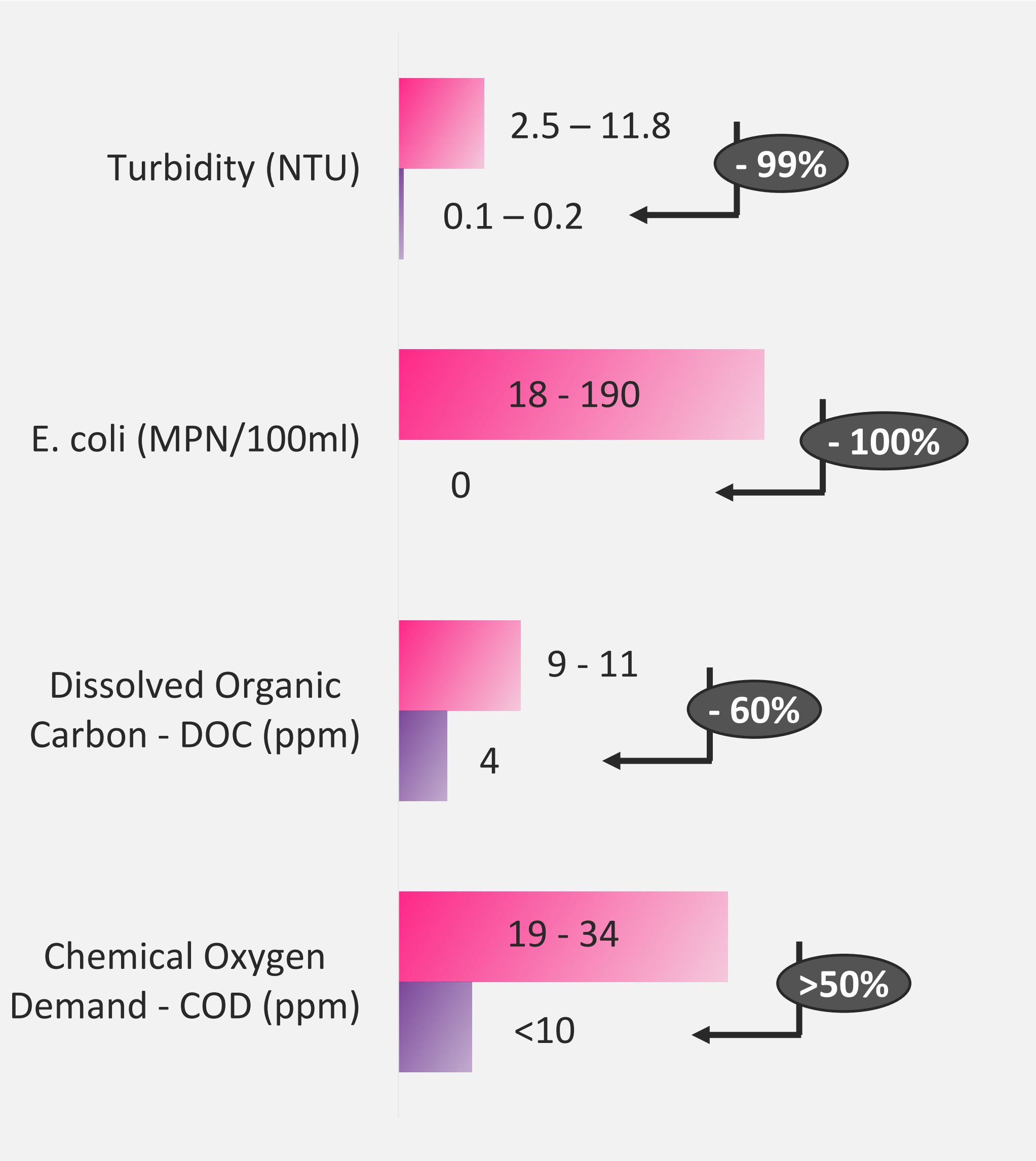
- Go2Lithium Inc formally established as Canadian entity
- 50/50 JV with Computational Geosciences Inc (a subsidiary of Ivanhoe Electric)
- Continuous Direct Lithium Extraction (cDLE™) showing significant improvement in lithium recovery and upgrade
- Lab and Demonstration plants being readied for transport to Canada or USA



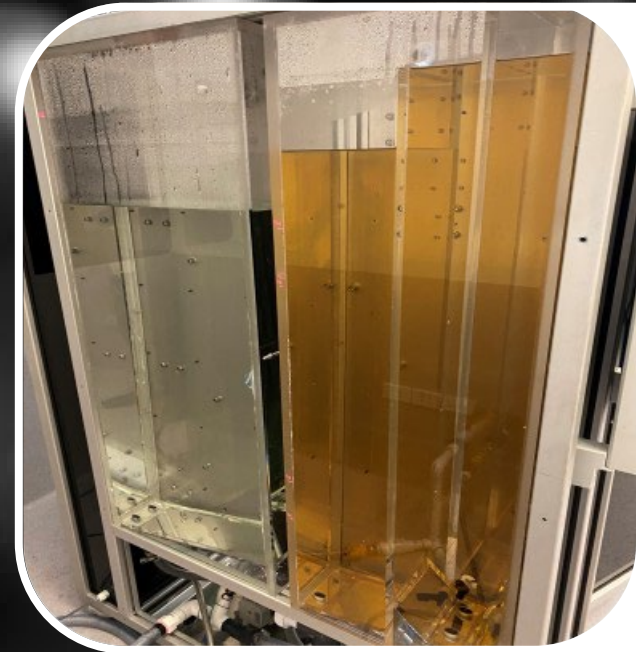
# Onsite Pilot at Food Processing Facility



- 10-day of operations at Schreurs and Son's, achieving excellent results in effluent quality, robustness against fouling, and flow rate
- Commercial discussions with customer have started and follow-up discussions with sector are planned







Grey water  
recycling in  
Australia



Textile  
waste  
Water



Drinking  
water  
organics  
removal



Pulp and  
paper  
black  
liquor



Wineries  
100%  
water  
recycling



# Clean TeQ Water – Building Value Through Superior Technology



**Unrivaled Technology Portfolio** supported by extensive international IP protection



**Strong Momentum** through successful commercialization of water solutions across the world



**Significant Pipeline** with Opportunity for near Term Conversion



**Graphene Membranes'** step-change performance improvement could gain substantial share in multibillion dollar membrane market



**Substantial Value upside** from direct metal extraction technology for **lithium extraction** and other applications