



Tersa

Reclaim the future

The Net-Zero Metals Company

November 2023

Forward looking statement

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OUR PLANET NEEDS AN ENERGY TRANSFORMATION...

This requires an abundant supply of natural resources and green metals to meet a global shift towards a net-zero

Demand for green metals will only grow in the next decades, and our shared goal must be to ensure that this is being met in a way which enables both people and the planet to thrive.



OUR VISION

Unmatched patented technology for delivering essential metals needed for electrification and society's transition to **net-zero**.

Green metals

Elimination of
waste & liabilities

Carbon abatement

Water security

WE ARE THE NEXT CLIMATE UNICORN

01

Patented process produces metals, treats mining waste and reduces liabilities

02

Modular design of our processing units allows for continuous operation and ease of scalability

03

Technology supports public policy goals to bolster net-zero economy

04

Generates significant returns for its investors and communities through multiple revenue streams

05

We have a team that is experienced in developing and commercializing climate technologies



THE TERSACLEAN SOLUTION

Cutting edge bio-technology



METAL EXTRACTION

Our process extracts pure metals such as copper, gold and silver and produces clean water from mine-impacted water and runoffs



LITHIUM EXTRACTION

The process extracts lithium from brines and oil and gas wastewater more efficiently and economically than DLE technologies

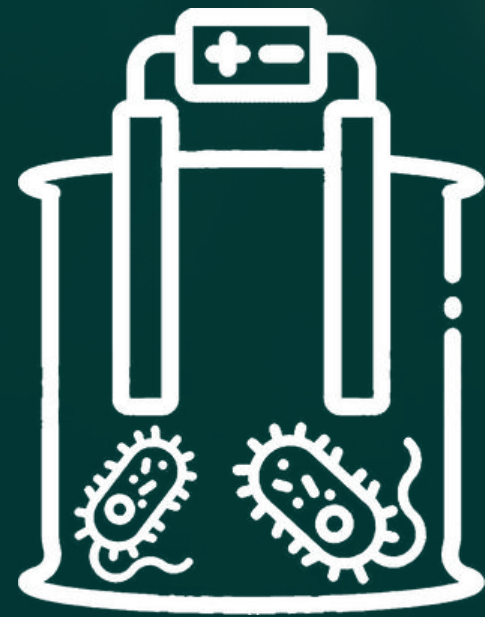


PFAS EXTRACTION

Tersa is partnering with Allonnia to remove PFAS (forever chemicals) from wastewater — the final mile in the cleanup process where other approaches have not worked

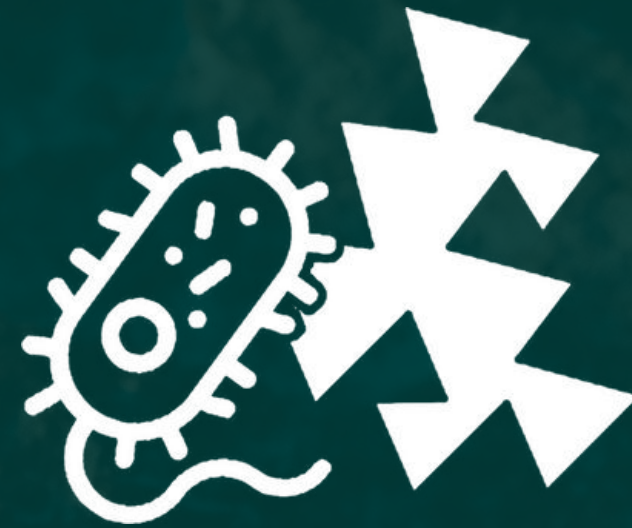


OUR ONE-OF-A-KIND TECHNOLOGY



Microbial
Fuel Cells

+



Microbial Carbonate
Precipitation

+



Bioprocess
Engineering

TersaClean readily recovers and separates pure copper, gold, silver, lithium, molybdenum, platinum, palladium and iridium and also removes contaminants such as cyanide, mercury, arsenic, and selenium

ACCELERATED GO-TO-MARKET STRATEGIES

Our unique engineering playbook has allowed us to mature from idea to demonstration scale in a short span of two years

The process will be demonstrated at mining sites operated by Tersa's partners in 2024 and will be fully commercial in 2025

TersaClean's innovative fuel-cell and reactor modules can be easily scaled by adding individual units and modules to any sites



TERSACLEAN BUSINESS MODEL

The business model works with the idea of creating value in tandem with the mine owner.

Mining companies will be charged a fixed service cost

Revenues from the sale of pure base and essential metals will be shared or retained entirely

Decarbonization credits will be generated by replacing current carbon-intensive waste management operations at mine sites

Tersa will also charge mines a commission on the reduction in insurance premiums and liability repayments

Our business development strategy leverages its deep networks with government, regulators and First Nation stakeholders

ROADMAP



2023

SCALE TECHNOLOGY

- Scale up technology (lab scale to field trial readiness)
- Continuous optimization of processing capabilities
- Finalize field trial testing locations & develop field trial pilot unit

2024

CONDUCT FIELD TRIALS

- May/June
July
August/Early Fall
- Fabrication of pilot to conduct field trials and validate technology at scale
- Delivery of pilot to facilities
- Testing of pilot unit for commercialization

2025

COMMERCIALIZATION

- Commercial Launch



ACHIEVING SUSTAINABILITY & PROFITABILITY WITH TERSACLEAN

The levelized cost to treat mining effluent at commercial scale is **below 0.5 cents/L**

Conventional copper mines are projected to incur **net losses of \$30,000** to produce **1 ton of pure copper**.

Tersa's realizable net revenues at a single copper mine:

- **2025:** \$1.35 million/day
- **2030:** \$1.60 million/day

Gold mines will fetch us nearly **2.5 times more**.

We estimate capturing 10% of this realizable market by 2026 and 30% by 2028.



TERSACLEAN'S CARBON ABATEMENT POTENTIAL

For base metals such as copper, deploying Tersa Clean at an average-sized copper mine can yield powerful environmental and financial results.

Carbon offsets of **1,000 tons/day**

Reduce expenditures on waste management and liabilities by **\$300,000/day**

Total carbon offset revenues could touch **\$250,000/day** by **2030**.

TersaClean can replace 100 tons of 'fossil fuel-derived' copper with **100 tons of green copper** at a single site daily



BRINGING NORTH AMERICA TO THE GLOBAL FOREFRONT OF SUSTAINABLE MINING

The 2015 Paris Agreement demands an aggressive, global decarbonisation approach

Tersa will work with the US and Canadian government to work towards meeting ESG mandates to make a decarbonised future possible.

We are currently in touch with the BC Government and the BC First Nations, Tulsequah Chief Mine to discuss its longstanding ARD problem.

Tersa aims to lead the way in providing a new standard of treatment for mine waste and will help North American operators build, and sustain, a decarbonised future.



WHAT SETS TERSACLEAN TECHNOLOGY APART?

Like Ginkgo and Allonnia, Tersa breaks new ground in microbes and process planning

TERSACLEAN





- Technology comprises microbial fuel cells (MFCs) and microbial carbonate precipitation (MCP)
- Deployed in easily scalable shipping containers that have significantly higher removal rates and operating efficiencies
- Does not consume as much power as batch-based sulfide-sulfate cycling and is net-zero

CONVENTIONAL SOLUTIONS

- Use a variation of a sulfate-sulfide cycle which is slow and operates as a batch process
- Processes are challenging to scale and have very low rates and treatment efficiencies
- Do not produce pure metals, only metal sulfides
- Do not offer any metal extraction and are purely water treatment processes

MARKET COMPARISON



	 Microbial Fuel Cells (Induced Calcium Precipitation)	 Bioleaching, sulphide oxidizing bacteria	BQE Water Bio-Sulphide Precipitation	 Saltworks Electrochemical, Ion Exchange Treatment	 ARD treatment and metal recover
Metal Recovery	✓	✓	✗	✗	✗
Lime Regeneration	✓	✗	✗	✗	✗
Carbon Competitive	✓	✓	✗	✗	✗
Self-Powered	✓	✓	✗	✗	✗
Avoids sludge creation	✓	✗	✗	✗	✗
Non-Toxic	✓	✗	✓	✓	✓



Backed by a management team with a track record of generating significant shareholder value, and a Board of Directors and advisors with deep cross-functional expertise

FOUNDERS & BOARD MEMBERS



Stewart Muir
CBDO, Board Member



Barinder Rasode
Chair of Board



Glen Clark
Board Member



Victor Cantore
Board Member

MANAGEMENT & ADVISORS



Josh Erickson
Technical Advisor



Matt Tomich
Advisor



Lyn Anglin
Advisor



Grant Cool
Consultant



Lisa Fuller
HR



OUR TEAMS PROVEN TRACK RECORD

- 9 Patents published to date
- 150+ years of leadership
Experience in senior roles
- \$3 billion+ shareholder value
Created over the past 14 years
- Strong industry relationships
With large producing mines in North America
- Strategic relationships
With government and first nation communities



RAISE OF FUNDS AND USE OF PROCEEDS

\$10 million
at \$0.30/share

SHARE CAPITAL STRUCTURE

Shares Outstanding	13,952,686
Warrants	7,584,562
Performance Warrants	15,000,000
Issued & Outstanding	36,537,248
Raise @ 30 Cents	33,333,333
Fully Diluted	69,870,581

*All funds noted in CAD

USE OF PROCEEDS

Tech & Business Development

Field Trials

NON-DILLUTIVE FUNDING

Past grant funds awarded: \$340,000

Future grants (applied): Field trial cost matching at
30% to 50% of funds raised



THANK YOU

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