



NZGA WINTER SEMINAR

Eliminating Silica Scale and Enabling Critical Mineral Recovery

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Who am I?

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Operations Manager





29th July 2026



4th August 2026



Benefits:

- Eliminate scaling
- Unlock more megawatts
- Reduce operating costs
- Increase CO₂ sequestration opportunities



Pipe line upstream
of Northern Plant

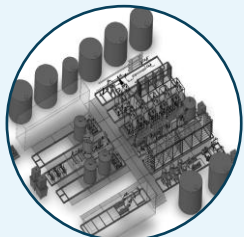


Pipe line downstream
of Northern Plant



Pathway to scale

starting here



1. Project viability

- Preliminary project feasibility assessment (concept and economics)
- Confirmation of **project viability (desk-top analysis)** ahead of onsite validation

2. Lab scale testing

- Complete **onsite** with fresh brine using Geo40 laboratory rig
- Processes very small brine volumes at <20 litres
- Low-cost test to **validate technology fit** on a brine (go/no go stage gate)

3. Micro-pilot

- Custom-built small rig, very efficient piloting programme
- Processes small brine volumes at 1,000-5,000 litres per day for 2-3 weeks onsite
- **Tests process performance on fresh brine over a sustained period**

4. Feasibility

- Feasibility study for commercial scale up
- Detailed engineering, concept design, initial CAPEX/OPEX estimates
- **Enables the economic opportunity of a full-scale plant to be well understood**

This permits steady project derisking and ensures can scale successfully

Scaling up our lithium technology – proving it to the sector

Logical, sensible scale-up, exactly as we did in silica, but much faster.

1

New Zealand Pilot

Has processed many global brines, 1000 cycles achieved



2

North American Pilot Tour

7 sites USA and Canada
Summer 2024



3

North American Demo Plant

Site selection
underway



Pre-commercial plant – now complete

This plant will be deployed to a partner site this FY.



Our goal is to be the best DLE technology partner in the game:

- Best tech
- Lowest capital intensity
- Best support
- Best team

This is the asset that gets a partner into the lithium game, fast.





Strategic mineral recovery has never been more relevant.

