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Sustainably extracting geothermal minerals

Geo40’s vision is to develop a successful, sustainable, international mineral extraction company that economically extracts valuable minerals from geothermal brines and other mineralised fluids in a clean, green and environmentally friendly manner.
Geo40’s Business Model

To partner with geothermal power plant owners to develop mineral extraction plants at existing and new geothermal fields. Where Geo40 and the owners will benefit economically through the extraction of minerals and the lowering of operating costs.
A truly global business

New Zealand is seen as a centre of excellence for geothermal innovation and development

Source: Geothermal Energy Association, March 2016, Annual U.S. & Global Geothermal Power Production Report, USA
Silica scaling; a significant cost to the industry

- Silica scaling in geothermal power plants is a major cost as it reduces generation efficiency and prevents further power generation.
- Geo40 process removes silica, producing green sustainable speciality silica products and unlocks access to other valuable minerals including lithium.
- Geo40 process benefits the geothermal producer with:
  - Much longer reinjection-well life (wells cost US$5m – US$10m each);
  - Little or no scaling - lower operating costs (potential to lower by 20%);
  - Capacity to generate up to 20% more power from the same fluid.
Examples of silica scaling in geothermal power plant pipes

Silica scaling of 450mm reinjection pipe at Coso, California, USA

Extreme silica scaling of 450mm pipe at Ohaaki, NZ
Geo40 has

• a robust and proven process for producing low carbon specialty silica products from green sustainable geothermal source;

• the first commercial plant operating in NZ with agreements for the next two plants;

• been producing and selling colloidal silica comparable with the market leaders; and

• lithium extraction trials underway that are showing good promise

Schematic showing the integration of the Geo40 technology

Geothermal power plant

SiO₂ + other minerals extraction

Processing

To distributors
Simple integrated process

High pressure geothermal fluid at 200 – 350 degrees centigrade

Power Station (flash)

Flash Plant/Separator

High pressure steam

Separated geothermal water (SGW), saturated with silica

Condensate

Heat Exchanger

UF1

UF2

Colloidal silica storage

Possible further minerals extraction e.g.: lithium

Colloidal silica extraction

Cools filtrate before cooling incoming hot SGW

Production well

Reinjection well
Ohaaki power station, NZ
Ohaaki commercial demonstration plant – Ngawha Plant
Hot spring before and after photos
Ngawha Plant (850tpd)

• Commissioned in May 2018.

• Proven reliable performance led to Contact Energy sign-off in November 2018 to proceed with larger Northern Plant

• Product being sold in NZ, Australia, Japan and USA.

• Valuable thirty “lessons learnt” and incorporated into the design of the larger Northern Plant

Mike O’Sullivan (Founder) with Mayor and Councillors of Taupo, NZ
Ngawha Plant (850tpd) cont

- SGW
  - entry temp – 140 deg C
  - exit temp – 132 deg C

- Silica levels
  - entry – 720ppm
  - exit – 220ppm

- Processing capacity
  - 850 tonnes per day

- Colloidal silica produced
  - 450 tonnes per annum
  - 30wt%

- Availability
  - > 99%

- Cost – NZ$3.5m
Ngawha Plant (850tpd) cont

Inlet scaling coupons after 6 months

Outlet scaling coupons after 6 months¹

¹Scaling is due to one month when Geo40 plant was by-passed
Contribution to a low carbon world

- Geo40 process allows for increased geothermal power generation from the same fluid
- Industrially produced specialty silica products have a large carbon footprint
- In the Geo40 products, nature has done all the hard work under the ground to get the silica in a soluble form
- Sustainable geothermal energy is used to further process the silica
- Next target is sustainably produced, low carbon footprint lithium for EV batteries
What is colloidal silica used in?

- **Geo40 Sol 1030 product packaged in IBC**
- **Geo40 pure and natural product**

**COLLOIDAL SILICA**
- Latex resin binder
- Ceramic binder
- Used to bind the mould

**Water based latex paints.**

**Orifice plate used to make glass bottles.**

**Investment casting used to cast metal drivers in a golf set.**
Geo40’s colloidal silica quality is comparable with market leading products

To whom it may concern,

Pyrotek is a global engineering leader and innovator of performance improving technical solutions. In late 2018 we made the switch to Geo40’s colloidal silica for our manufacturing operation in New Zealand. It has performed as well, if not better than any of the imported colloidal silica we have used previously. Import batches had arrived cloudy in colour which indicated the presence of impurities. This is no longer the case with Geo40 colloidal silica which demonstrates a better quality product. We are starting the process of investigating reduced dosages for our manufacturing, as Geo40’s colloidal silica appears to react more readily than previous supplied product. We are confident in our ongoing partnership with Geo40 and their ability to provide high quality colloidal silica to us.

Best regards,
Nathan McKenzie
Production Manager

To whom it may concern,

Supreme Metal Components is a leading Investment Casting specialist in New Zealand. Geo40 approached us in early 2016, and since then we have tested two of their colloidal silica products and have found them to perform as well if not better than the imported colloidal silica we have used previously. In fact the green and fired strength seem to be improved. We look forward to our ongoing partnership with Geo40 and their ability to provide a high quality product and service to us.

Lewis Reid

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Future growth

**Future Opportunities**

NZ – 5 additional fields being explored.

Japan – Commercial opportunities being targeted.

US – targets identified

Italy – in discussions

**Other Minerals For Extraction**

Lithium – lab-scale trials completed. Pilot plant starting

Boron – lab-scale trials competed – pilot plant planned 2020

Caesium – US Department of Energy grant

**Other Speciality Silica Products**

US$6 billion estimated market

Geo40 samples being tested in Japan, USA and Europe

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Precipitated silica used in fuel-efficient tyres¹

Nissan Leaf Lithium Batteries³

Silica gel²

Source 1: Bridgestone Ecopia

Source 3: Huffington Post

Source 2: Stock Image
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