

Carbon Cycle

Calcium-Based Mineral Purification (CMP)

A Breakthrough of National Significance



Calcium Mineral Purification (CMP) is a new process to purify gypsums, calcium carbonates and other calcium minerals

- **Our cleaning process concentrates contaminants that include rare elements while producing pure high whiteness gypsums and calcium carbonates.**
- **Anticipated to change the supply dynamics of many rare elements.**
- **Most of Cleantech developments depend on rare elements and demand is growing sharply.**
- **Creates new supply sources for gypsum, white fillers and cleans up troublesome leaky wastes.**

Three Essential Elements for the Future

Neodymium/Praseodymium

- Strong magnets for motors, wind turbines, cars, etc.
- Batteries

➤ Scandium

- Added at just 0.1% makes aluminium as strong as steel, as hard as ceramic, can be welded without strength loss and more corrosion resistant
- Planes 15% lighter. Cars maybe a ton lighter.

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- A small focused team of engineers and scientists lead by a management team that has successfully developed and licence technology previously.
- Initially focused on CCU to produce precipitated calcium carbonate (PCC) and ammonium sulphate from gypsum, ammonia and CO₂.
- For last 100 years industry has been seeking a viable means to clean calcium carbonates and gypsums.
- Carbon Cycle developed CMP process to solve this problem. Very strong industry interest.
- Company refocused towards CMP process.

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