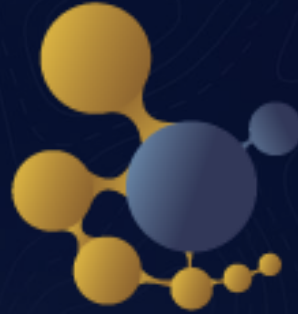


FEB. 10 – 11, 2021

The Energy Venture Investment *Summit*

Presented by: **ENERCOM**

 **COLORADO SCHOOL OF MINES**
EARTH • ENERGY • ENVIRONMENT



U S STRATEGIC MINERALS EXPLORATION

“Commercializing CO₂ Capture”

Thomas Smith P.E., COO

Sponsored by



haynesboone

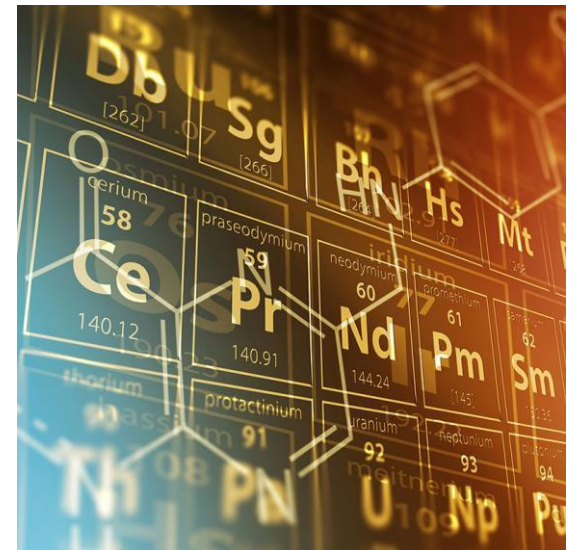




US Strategic was founded with an “all of the above” or **hybrid approach** to minerals exploration and production.

We continue to develop new and strategic technologies that seek to address two **global challenges**:

- The **Socio-Economic** effects of climate change caused by carbon emissions.
- The **Foreign Dominance** of global critical and strategic mineral supply chains.





Our business models utilize naturally-occurring brine sources which include industrial waste streams:

1. Safe and Sustainable Roads

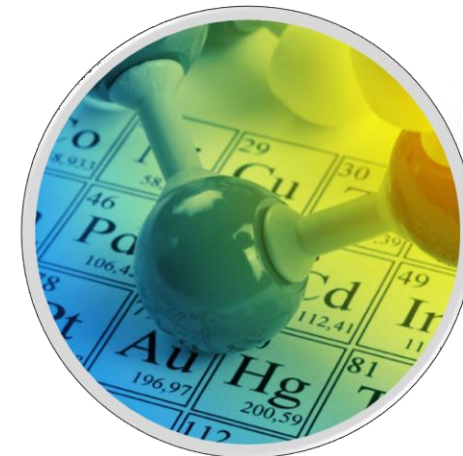
- Road & pavement de-icer
- Dust control and soil stabilization
- The GREENMILE™ Roadbase

2. Carbon Footprint Reduction Technologies

- CCUS Processing Technologies under development using LiquidOre™ Brines are ready for demonstration scale testing in 2021.

3. Rare Earths and Critical Minerals Exploration & Production with domestic emphasis

- Our technology is best used to extract valuable minerals during a patented Carbon Sequestration process using LiquidOre™ Brines.





Our LiquidOre™ Brine supports sustainable roads in three important ways:

1. In its natural form, LiquidOre™ Brine can be used as road and pavement de-icing product. When properly applied, LiquidOre™ Brine rapidly melts snow and ice to help maintain an ice-free surface, promoting safety during winter travel conditions.
2. Direct from the well-head LiquidOre™ Brine provides a superior dust control product. The high concentration of Calcium Chloride ‘pulls’ moisture from the atmosphere, extending the moisture content of the application and therefore reducing the need for reapplication. Keeps our air clean and healthy!
3. Through one important carbon capture process, we precipitate Calcium Carbonate (Limestone) from LiquidOre™ Brine. It represents a new, environmentally sustainable source of limestone for road construction and other projects. We call this precipitated Calcium Carbonate the GREENMILE™ Roadbase.



Carbon Footprint Reduction Technologies

We provide technology which assists high carbon-emitting industries in their efforts toward reducing their carbon footprint. We are continuing to develop Carbon Capture, Utilization, and Storage (CCUS) technologies that can be useful for heavy industrial and power generation sites where high carbon emissions occur.

Most oil and gas fields and mining sites, where CO₂ and wastewater are present in large volumes, are quite prospective for CCUS projects given the low cost of feedstock and existing water gathering and disposal infrastructure.

Some precipitated minerals from our CCUS process are various alkaline earth carbonates such as Precipitated Calcium Carbonate. PCC as a specialty mineral has a wide range of marketability from paper whitener to paint base to pharmaceutical grade calcium. PCC in a low-grade form can be used as a substitute for aggregate in concrete and as a “green” road building material we’ve trademarked as THE GREENMILE™.



Hybrid Exploration and Production

US Strategic Minerals Exploration and its partners are committed to reducing our foreign dependence on rare earths and processed critical minerals.

We are developing scalable CCUS technologies that promote sourcing of rare and critical minerals from subsurface brines and industrial-waste sites in the United States.

Funding opportunity grants from the US DOE provide funding for field testing and commercial scale-up in partnership with heavy carbon-emitting industries including cement, ethanol production, and power generation.

These partnerships can provide US Strategic with needed funds for advancing technologies specific to our goals, while supporting our industry partner's Net-Zero Carbon and corporate ESG strategies.



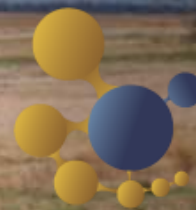
Utah Brine Mine – Seeking Partner

- A Capital commitment of USD \$15M will provide the AFE funding to bring the brine mine to production. Strategic Partner will carry US Strategic's 25% Interest through payout.
- The AFE will fund a 15,750' well and brine storage and loading facilities on a mine site of less than 10 surface acres. Expect to Spud well 3-6 months after close of funding.
- Sales of 1000 barrels per day of Calcium Chloride brine at \$55 / bbl. is assumed in the economic projections presented. Market analyses were obtained from Grandview Research in late 2019.
- The project is supported by mining claims, mineral leases, two patents and a trademark for LiquidOre™ Brine.
- As presented here, the Strategic Partner will receive 62% of all revenue generated from brine sales over the projected life of the well.
- Cash Flow Projections indicate the Strategic Partner's Initial investment will be recovered within 14 months. Undiscounted Return on the \$15M Investment is 7.2:1 over the 20-year projected economic life.



- Source of Calcium Carbonate for Carbon Sequestration Technology being developed worldwide - Sec 45Q Tax Credits apply
- Abundant and Local Feedstock for specialty minerals such as PCC, Lithium Carbonate, Magnesium Hydroxide and REE's.
- Commercial Grade Liquid CaCl_2 for direct use as:
 - Road de-icer
 - Dust Suppression
 - Road construction as a soil compactor
 - Brine-based Drilling systems - High Pressure and Temp
- New Domestic Source for Critical and Strategic minerals including rare earth elements for use by the US government space programs and defense system development.

CONTACT US



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