SuperCritical

A NEW ERA OF METALS POWERED BY SEAWATER

Investor Presentation | July 2026

DISCLAIMER

THIS PRESENTATION IS FOR YOUR INFORMATION AND MAY NOT BE REPRODUCED, FURTHER DISTRIBUTED TO ANY OTHER PERSON OR PUBLISHED, IN WHOLE OR IN PART, FOR ANY PURPOSE.

This Presentation does not constitute an offer to sell or a solicitation of offers to buy shares or other securities ("Securities"), assets or products of any company or to invest in any fund and is not intended to form the basis of any investment decision. It is not and shall not be construed as a Private Placement Memorandum, and it is not reviewed or regulated by MiFID, AIFMD, or any other financial authority at this stage.
Although reasonable care has been taken to ensure that the facts stated in this Presentation are accurate and that the opinions expressed are fair and reasonable, the contents of this Presentation have not been verified by any company referred to herein or any other person. Accordingly, no representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information and opinions contained in this Presentation, and no reliance, should be placed on such information or opinions. Further, the information in this Presentation is not complete and may change. No company referred to herein nor any of their respective members, directors, officers or employees nor any other person accepts any liability whatsoever for any loss howsoever arising from any use of such information or opinions or otherwise arising in connection with this Presentation.

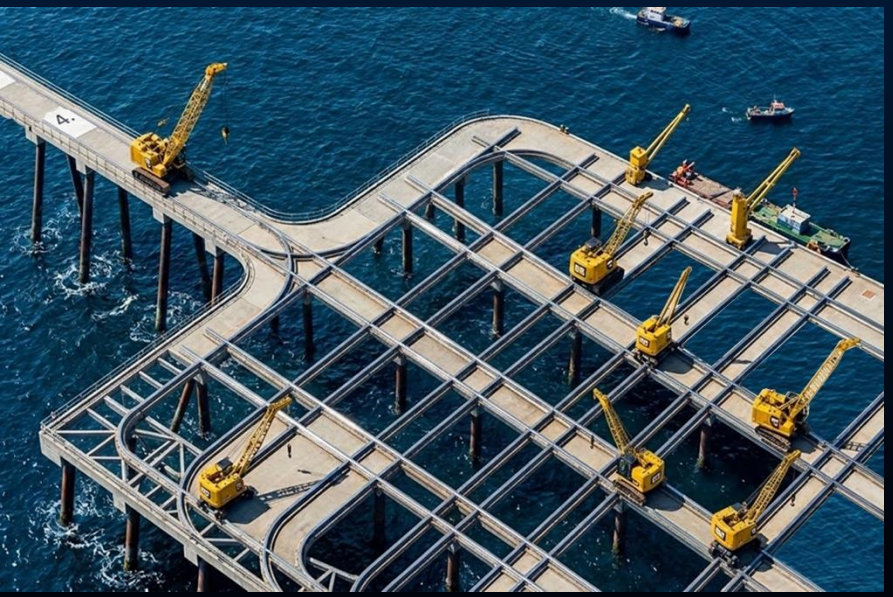
This Presentation is directed only at, and may only be communicated to, (i) persons who are outside the United States within the meaning of Regulation S under the US Securities Act of 1933, as amended (the "US Securities Act") or (ii) inside the United States to persons who are "accredited investors" as defined in Regulation D under the US Securities Act. No public offering of any securities discussed herein is being made in the United States and the information contained herein does not constitute an offering of securities for sale in the United States and no company is currently intending to register any securities under the US Securities Act. Neither the United States Securities and Exchange Commission nor any securities regulator body of any state or other jurisdiction of the United States, nor any securities regulatory body of any other country or political subdivision thereof, has passed on the accuracy or adequacy of the contents of this Presentation. Any representation to the contrary is unlawful. Persons who do not fall within any of these definitions should not rely on this Presentation or take any action in relation to it. The distribution of this Presentation in other jurisdictions may also be restricted by law, and persons into whose possession this Presentation comes should inform themselves about, and observe, any such restrictions.
Recipients of this Presentation are not to construe its contents, or any prior or subsequent communications from or with any company referred to herein or their representatives as investment, legal or tax advice. In addition, this Presentation does not purport to be all-inclusive or to contain all of the information that may be required to make a full analysis of the relevant company or fund. Recipients of this Presentation should each make their own independent evaluation of the relevance and adequacy of the information in this Presentation and should make such other investigations as they deem necessary. By participating in and/or accepting delivery of this Presentation you agree to be bound by the foregoing restrictions and the other terms of this disclaimer.

This Presentation may contain forward-looking statements that reflect current expectations regarding future events. Forward-looking statements involve risks and uncertainties. Actual events could differ materially from those projected herein and depend on a number of factors. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions, potentials, future events or performance (often, but not always, using words or phrases such as "believes", "expects", "plans", "estimates" or "intends" or stating that certain actions, events or results "may", "could", "would", "might", "will" or "are projected to" be taken or achieved) are not statements of historical fact, but are forward-looking statements. The forward-looking statements herein relate to, among other things, the company's exploration strategy for precious metals, acquisition strategy for mining properties yielding minerals required for battery production, and strategy related to the company's proprietary recycling technology. Forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by the company as of the date of such statements, are inherently subject to significant business, economic and competitive uncertainties and contingencies, which includes, without limitation, global demand for such resources. Any forward-looking statements made herein with respect to the anticipated development and exploration of the company's mineral properties or development of the company's proprietary technology are intended to provide an overview of management's expectations with respect to certain future activities of the company and may not be appropriate for other purposes. Forward-looking statements are based on management's current plans, estimates, projections, beliefs and opinions and, except as required by law, the company does not undertake any obligation to update forward-looking statements should assumptions related to these plans, estimates, projections, beliefs and opinions change. Readers are cautioned not to put undue reliance on forward-looking statements. The forward-looking statements made in this information are intended to provide an overview of management's expectations with respect to certain future operating activities of the company and may not be appropriate for other purposes.

MISSION

SuperCritical Materials builds the production infrastructure that secures America's supply of the strategic materials required for advanced energy, artificial intelligence, and national security. By commercializing breakthrough technologies developed through decades of U.S. Government research, we enable resilient domestic supply chains capable of supporting the next generation of nuclear power and the industries that depend upon it.

INVESTMENT HIGHLIGHTS



Proven Technology

- No scientific/discovery risk

Meeting urgent and strategic policy and industrial demand

- Executive orders clearly laying out United States policy urgency for nuclear fuels
- Developed in America by American scientists

Nuclear energy and nuclear technology a growth industry

- Capital investment into nuclear technology sector (N-Tech) experiencing logarithmic growth
- Export opportunities with State Department/EXIM Bank support

First mover advantage

- Limited scientific/discovery risk
- No public sector companies currently pursuing this technology

Technical team responsible for developing this technology

- Former Deputy Director of USDOE-owned Pacific Northwest Nuclear Laboratory
- Team populated with world-leading experts with this chemistry

REINVIGORATING THE NUCLEAR INDUSTRIAL BASE

EXECUTIVE ORDER MAY 23, 2025

"It is the policy of the United States to expedite and promote to the fullest possible extent the production and operation of nuclear energy to provide affordable, reliable, safe, and secure energy to the American people… and to build associated supply chains that secure our global industrial and digital dominance, achieve our energy independence, protect our national security, and maximize the efficiency and effectiveness of nuclear fuel."

NUCLEAR / URANIUM

THE GROWING ROLE OF NUCLEAR ENERGY & URANIUM DEMAND

~50M
lbs/yr

Annual uranium required for reactor operations.

4
Major Suppliers

USA relies on Kazakhstan, Canada, Namibia, and Australia for uranium.

<1.0M
lbs/yr

U.S. domestic uranium production since 1981.

20%
of U.S. Electricity

Nuclear power generated by 95 reactors nationwide.

High-temp advanced reactor technologies address entirely different verticals:

Industrial Heat

Data centers behind-the-meter

Remote Locations (Microreactors)

This will expand nuclear capacity in the US, and consequently uranium supply requirements.

CRITICAL METALS

U.S. DEPENDENCE & THE PATH TO SECURITY

50 elements

are deemed critically essential for U.S. national security by the government.

US is dependent on foreign sources

for nearly all of these metals.

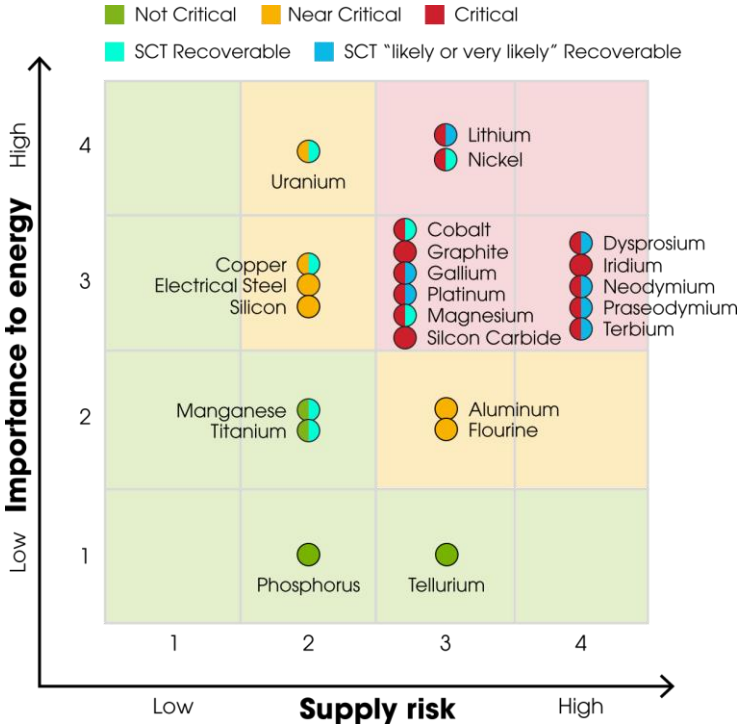
23 of the most critical and scarce metals

can be produced by SuperCritical.

China completely dominates

the supply of REEs and many other critical metals.

Medium-term (2025–2035) Criticality Matrix



TOTAL ADDRESSABLE MARKET

U.S. ONLY

Current reactor requirement in US

~50M lbs/yr

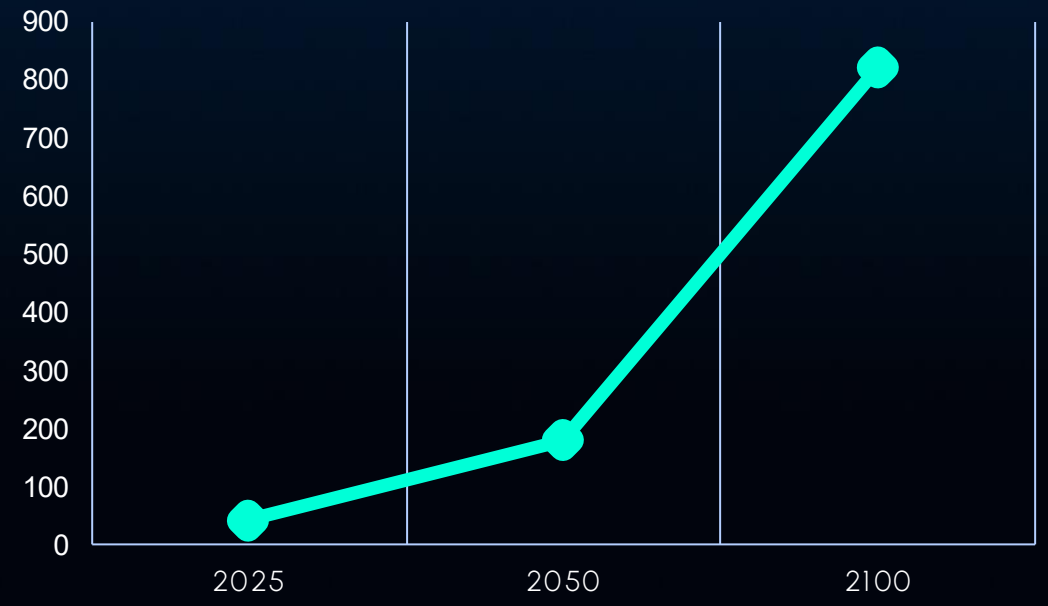
Policy to increase capacity by 400% by 2050

180M lbs/yr

50% of total US energy by 2100

821M lbs/yr

Nuclear now viewed as the chief engine of energy supply growth globally

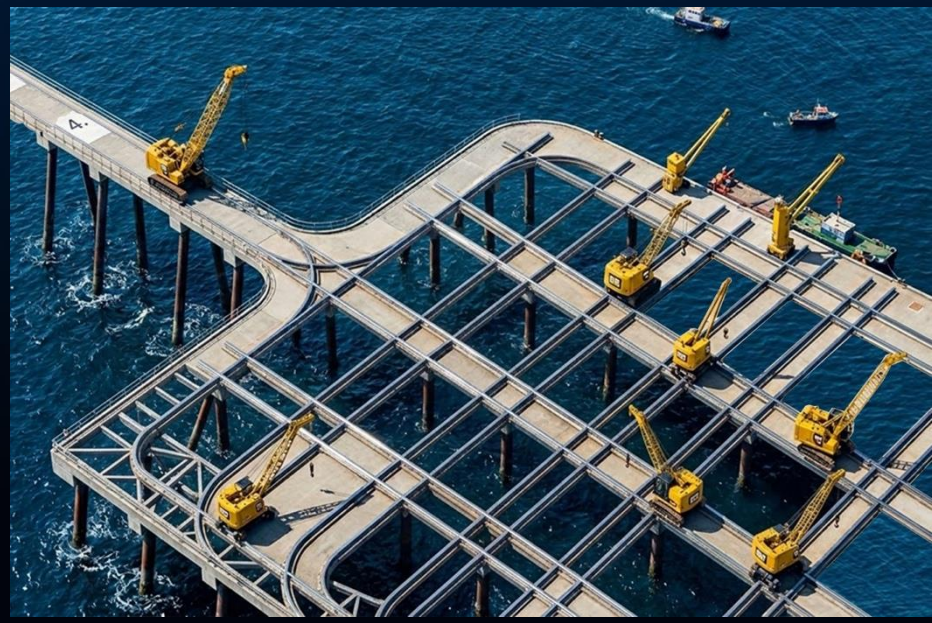


UNLOCKING AN UNTAPPED OCEAN

EXTRACTING CRITICAL METALS FROM THE SEAWATER

Process involves the following steps:

- Deployment of acrylic fibers in seawater treated with adsorption chemistries.
- Submerged fibers adsorb uranium and other metals through electrostatic charge.
- Fibers removed from seawater and treated in elution bath for extraction of metals.
- Fibers re-treated and re-deployed.
- Process repeated indefinitely.



Process is environmentally benign.

Permitting is far less burdensome than offshore oil rig.

Early deployment can begin with production platform only.

- Processing of yellowcake can be arranged with tolling facility in Texas.

IP STRATEGY

- **Company owns exclusive license from US Government for Foundational IP.**
  - Foundational IP is uranium extraction from seawater technology.

- **Additional IP will be acquired or developed in-house and patented.**
  - Company has developed 7 inventions that will be patented.

- **Improvements Include:**
  - Addition to the portfolio of recoverable metals.
  - Decreasing adsorption/elution times.
  - Increasing recoveries.
  - Process improvements to decrease energy usage.
  - Increase reusability of fibers.

- **Company will patent all improvements internationally.**

ENGINEERING PROGRAM

- First Principles engineering program to design industrial-scale facility capable of producing 1 million lbs of uranium per year per platform plus valuable critical metals by-products.
- Objective to prove that technology can be scaled, and can be the lowest-cost producer in the world.
- Phase I began in March 2025 and Pre-Conceptual Design, Conceptual Design, Scoping Study complete.
- PEA underway with KBR, to be completed in Q3-2026; PFS to begin Q4 2026 with demonstration facility launch Q1-2027.

PROJECT DELIVERABLES

ENGINEERING

- Scoping Study
- Conceptual Design Report
- Preliminary Economic Assessment
- Pre-Feasibility Study
- Definitive Feasibility Study
- Plant Construction
- Operation

IP STRATEGY

- Acquire government IP: completed December 2024
- Develop 7 proprietary inventions: completed May 2025
- Acquire private sector IP: December 2026
- International patents: December 2026
- Develop proprietary inventions: ongoing

DOE LOAN APPLICATION

- Part I Application submission: Q1-2026
- Part II Application submission : Q2-2027

MANAGEMENT

Canon Bryan
President & CEO

- Co-founded Uranium Energy Corp, largest US uranium mining company.
- Founded NioCorp, largest undeveloped niobium project in North America.
- Co-founded Terrestrial Energy, world-leading advanced nuclear technology developer.
- Supported >$250M in financing, >$150M in grant funding, >$1B in government loan guarantee.

Tunggul Tobing
CPA, CMA
CFO

- Former VP Finance, Terrestrial Energy
- Former Director of Finance, Rolls Royce Nuclear Canada
- Former Director of Finance, Vale Inco.

Graham Ballachey
MASc, PEng
COO

- Professional engineer with extensive experience in building design, manufacturing, energy management.
- VP Engineering, American Lithium Corp, where he directed the successful Preliminary Economic Assessment for a lithium mine.
- Key driver of a US DOE grant application for $300 million towards the construction of the TLC Lithium Claystone Project.

BOARD OF DIRECTORS

Neal Froneman
Non-Executive Chair

- Neal Froneman, age 65, serves as Non-Executive Chairman of the Board of Directors. Mr. Froneman has over 40 years of experience in the mining and minerals industry.

Canon Bryan
President & CEO

- Co-founded Uranium Energy Corp, largest US uranium mining company.
- Founded NioCorp, largest undeveloped niobium project in North America.
- Co-founded Terrestrial Energy, world-leading advanced nuclear technology developer.
- Supported >$250M in financing, >$150M in grant funding, >$1B in government loan guarantee.

Paul Mann
CEO of ASP Isotopes

- Paul E. Mann, age 50, serves as a member of the Board of Directors. Mr. Mann is the co-founder, Chairman and Chief Executive Officer of ASP Isotopes Inc.

Clayton Scott
CCO of NuScale Power

- Consultant in Advanced Nuclear Solutions.
- Nuclear engineer with expertise in designing test and commercial Advanced Reactors.
- Inventor with a proven track record of developing and patenting innovative techniques for advanced nuclear technologies.
- Managed global BWR outages, coordinating maintenance and operations.

ADVISORY BOARD

Gary Gill, PhD

Technical Advisor

- Former Deputy Director and Senior Scientist at Pacific Northwest National Lab; Retired.
- Former Professor, Texas A&M University.
- PhD Oceanography, University of Connecticut
- Author or co-author on 125 peer-reviewed publications.

Harry Anthony

Former COO, Uranium Energy Corp

- Co-founded Uranium Energy Corp, largest US uranium mining company.
- Founded NioCorp, largest undeveloped niobium project in North America.
- Co-founded Terrestrial Energy, world-leading advanced nuclear technology developer.
- Supported >$250M in financing, >$150M in grant funding, >$1B in government loan guarantee.

Horng-Bin Pan

Professor, University of Idaho

- Dr. Horng-Bin Pan is an accomplished chemist with more than 15 years of experience in nanomaterials, supercritical fluids, and polymer adsorbent technologies.

PROJECT PARTNERS

Pacific Northwest NATIONAL LABORATORY

OAK RIDGE National Laboratory

U.S. DEPARTMENT OF ENERGY

EDF Office of Energy Dominance Financing

University of Idaho

THE STATE OF TEXAS

ADVANCING NUCLEAR TECHNOLOGY THROUGH POLICY SUPPORT

EMPOWERING PROGRESS THROUGH ALIGNMENT

EDF
Office of Energy Dominance Financing

SuperCritical is aligned with US Federal and Texas State security of supply policies.

FEDERAL

- DOE/DOW/DOS strongly support security of nuclear fuel supply, and are investing heavily.
- DOE Critical Metals list is urgent national policy, and supported by all Departments.

STATE OF TEXAS

- Market leader in supporting advanced nuclear technology.
- New legislation will create carve-outs from the Texas Energy Fund for nuclear technologies.
- New State grant funds are being appropriated for nuclear technologies.
- New State government loan program for nuclear technologies.

GOVERNMENT INCENTIVES

The following departments within the US Federal Government are ordered to prioritize funding to nuclear fuel development:

- DOW
- DOE
- DOS
- DOL
- Small Business Administration
- Office of Energy Dominance Financing (EDF)

In May 2025, State of Texas passed HB14, which mandates by law $350 million in funding for nuclear technology developed and deployed in the state of Texas.

- (Many other laws passed in same legislative session, benefiting nuclear technology development and deployment.)

SuperCritical has been invited by the EDF to submit its Part I Application.

REINVIGORATING THE NUCLEAR INDUSTRIAL BASE

EXECUTIVE ORDER MAY 23, 2025

"...the Secretary of Energy, through the Department of Energy Loan Programs Office, shall... prioritize activities that support nuclear energy, including actions to make available resources for... improving all associated aspects of the nuclear fuel supply chain."

" The Secretary of Energy, consistent with applicable law, is authorized to provide procurement support, forward contracts, or guarantees to such consortia as a means to ensure offtake for newly established domestic fuel supply, including conversion, enrichment, reprocessing, or fabrication capacity."

SuperCritical

Investor Presentation | July 2026

Contact: info@supercritical.one

111 Congress Avenue, Suite 504,
Austin, TX 78701