



A NEW ERA OF METALS POWERED BY SEAWATER

Investor Presentation | April 2026



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MISSION

SuperCritical Materials is resolving the domestic security of supply of nuclear fuels and critical metals constraints in the United States. SuperCritical invests in and develops non-incremental industrial technologies that contribute to the domestic supply chain of essential critical materials. The Company's anchor project is the development of production infrastructure based on technology proven and owned by the United States Federal Government. SuperCritical has an exclusive license to this technology from the U.S. Government, and is now developing it for commercial deployment at industrial scale in the United States.

By partnering with governments, prestigious engineering and construction firms, as well as scientific institutions, SuperCritical is advancing its mission to provide America with a proven, safe and low-cost solution to domestic uranium and critical metal supply.

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

- No public sector companies currently pursuing this technology
- SuperCritical has a multi-year lead over any other prospective competitors

Technical team responsible for developing this technology

- Former Deputy Director of USDOE-owned Pacific Northwest Nuclear Laboratory
- Team populated with world-leading experts who worked on the NEUP program



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

~45M
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.

19%

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.

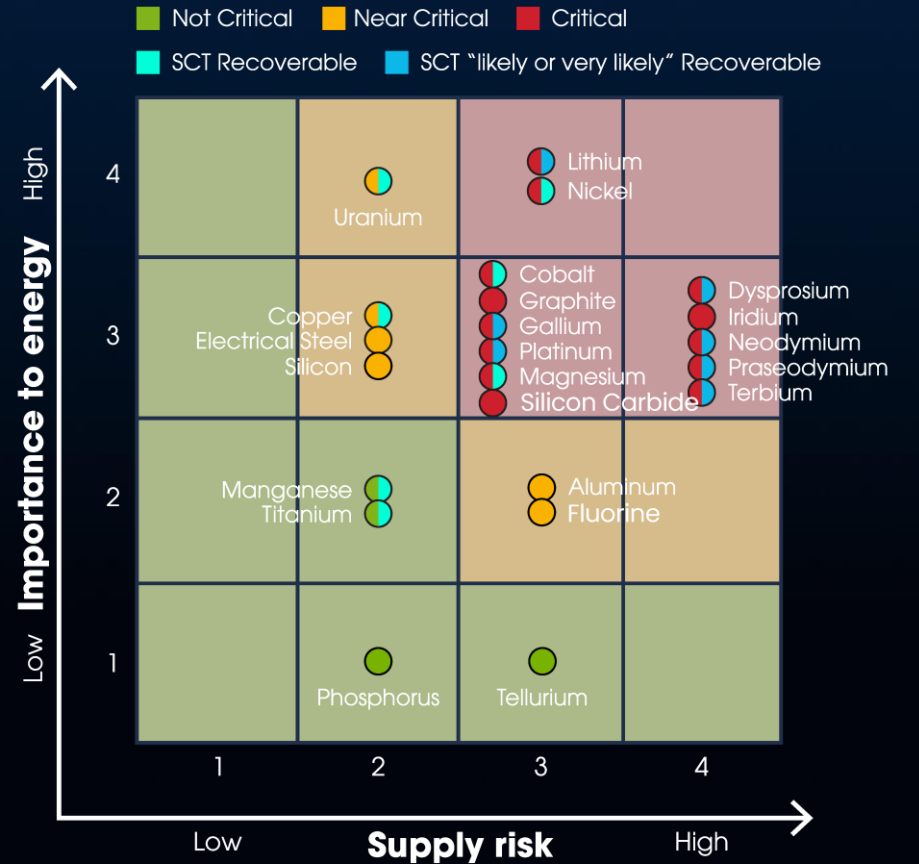
23 of the most critical and scarce metals

can be produced by SuperCritical proven tech

China completely dominates

the supply of REEs and many other critical metals.

Medium-term (2025–2035) Criticality Matrix



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 ion exchange.
- Fibers removed from seawater and treated in elution bath for extraction of metals.
- Fibers rinsed and re-deployed.
- Process can be repeated for multiple cycles.

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 8 invention families that have been submitted to USPTO.

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

- **Company patenting all improvements internationally.**

ENGINEERING PROGRAM

- First Principles engineering program to design industrial-scale facility capable of producing 2.2 million lbs of uranium per year per platform plus valuable critical metals by-products.
- Objective to scale and commercially deploy the technology in a 3- to 5-year timeframe.
- Phase I began in March 2025 and is progressing with Conceptual Design and Scoping Study complete as of Q1-2026. Advancing to pre-feasibility.
- Company seeking to deploy demonstration in the Gulf of America in 2026, using fully permitted abandoned oil rig, in cooperation with GORI and KBR.



PROJECT DELIVERABLES

ENGINEERING

- Scoping Study (complete)
- Conceptual Design Report (complete)
- Pre-Feasibility Study (commenced)
- Definitive Feasibility Study (2027)
- Final Investment Decision (2028)
- Plant Construction (2029–2031)
- Operation (2031)

IP STRATEGY

- Acquire government IP (complete)
- Submit applications to USPTO on 8 proprietary invention families (complete)
- Acquire private sector IP (Q2 2026)
- Develop proprietary inventions (ongoing)

DOE LOAN APPLICATION

- Part I Application submission (Q2 2026)
- Part II Application submission (Q1 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

- Over 40 years of experience in the mining and minerals industry.
- Founder, former President, CEO of Sibanye-Stillwater Mining, the largest PGM mining company globally.
- Founder, former President, CEO of Uranium One, growing the company to the largest uranium mining company globally.



**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

- Co-founder, Chairman and Chief Executive Officer of ASP Isotopes Inc.
- Over 20 years banking experience on Wall Street, including Soros Fund Management and Morgan Stanley.
- Masters of Engineering from Cambridge University and a CFA charter-holder.



**Clayton
Scott**
CCO of
NuScale Power

- Former Senior Vice President of Global Sales for Framatome.
- Former Chief Nuclear Officer for Schneider Electric.
- Currently Chief Commercial Officer of NuScale Power, a leading SMR company.

ADVISORY BOARD



**Gary Gill,
PhD**

Technical
Advisor

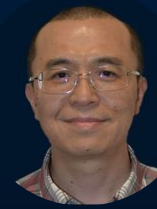
- Former Deputy Director and Senior Scientist at Pacific Northwest National Lab; Retired.
- Former Professor, Texas A&M University.
- PhD Oceanography, University of Connecticut
- Author or co-author on 125 peer-reviewed publications.



**Harry
Anthony**

Former COO,
Uranium Energy
Corp

- One of the most experienced uranium in-situ leach mining experts globally.
- Former COO of Uranium Energy Corp, largest US uranium mining company.
- Former SVP of Uranium Resources Inc, responsible for building and operating uranium mines in the US.



**Horng-Bin
Pan, PhD**

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.



ADVANCING NUCLEAR TECHNOLOGY THROUGH POLICY SUPPORT

EMPOWERING PROGRESS
THROUGH ALIGNMENT

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

FEDERAL

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

STATE OF TEXAS

- Market leader in supporting advanced nuclear technology.
- New legislation created \$350 million carve-out from the Texas Energy Fund 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:

- DOD
- DOS
- Small Business Administration
- DOE
- DOC
- DOE Energy Dominance Financing

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 plans to submit its Part I Application to the USDOE Energy Dominance Financing Office (EDF) for a \$1 Billion loan in Q2 2026.

REINVIORATING 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."



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