A NEW ERA OF METALS POWERED BY SEAWATER

Investor Presentation | July 2026

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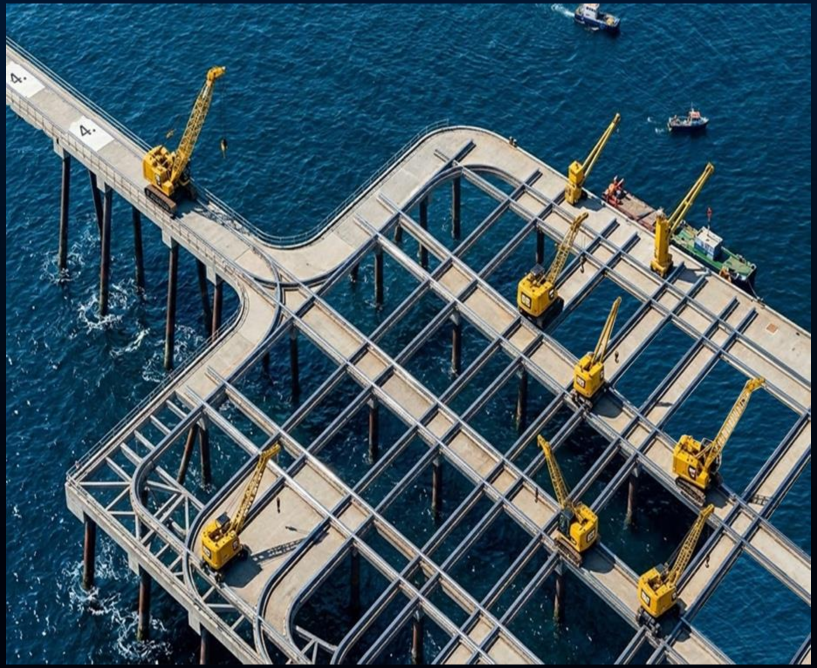
MISSION

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.

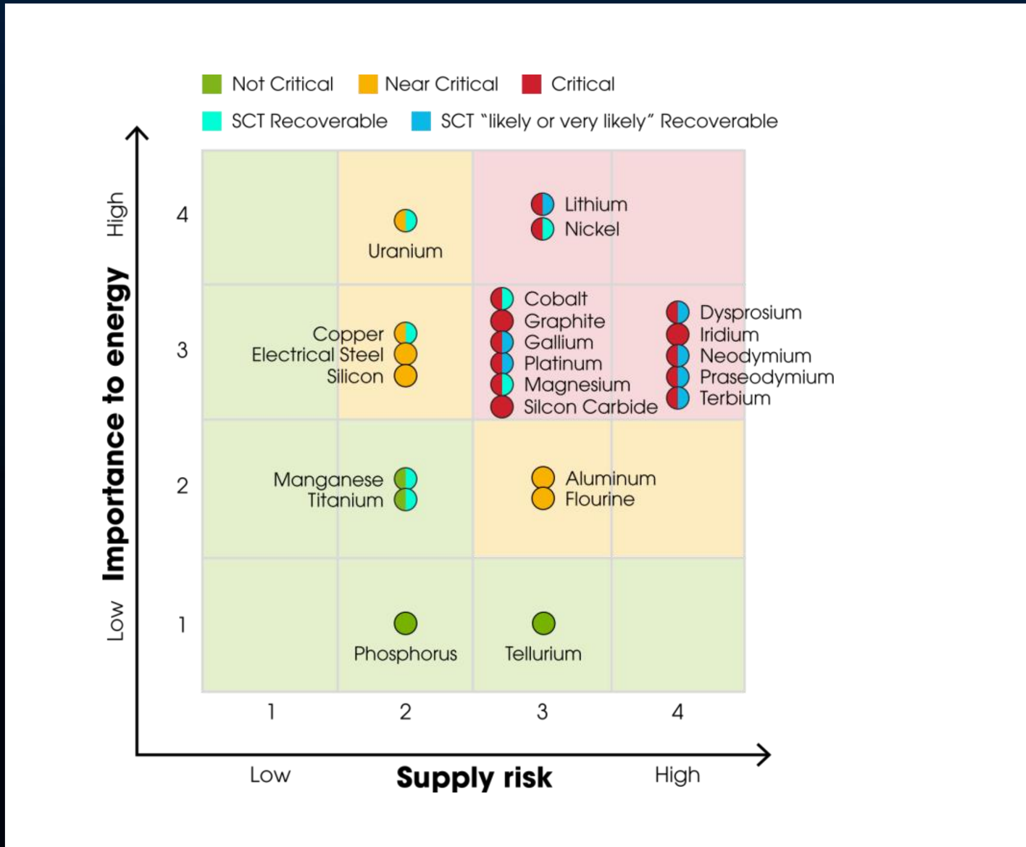
23 of the most critical and scarce metals

can be produced by SuperCritical.

China completely dominates

the supply of REEs and many other critical metals.

Medium-term (2025–2035) Criticality Matrix

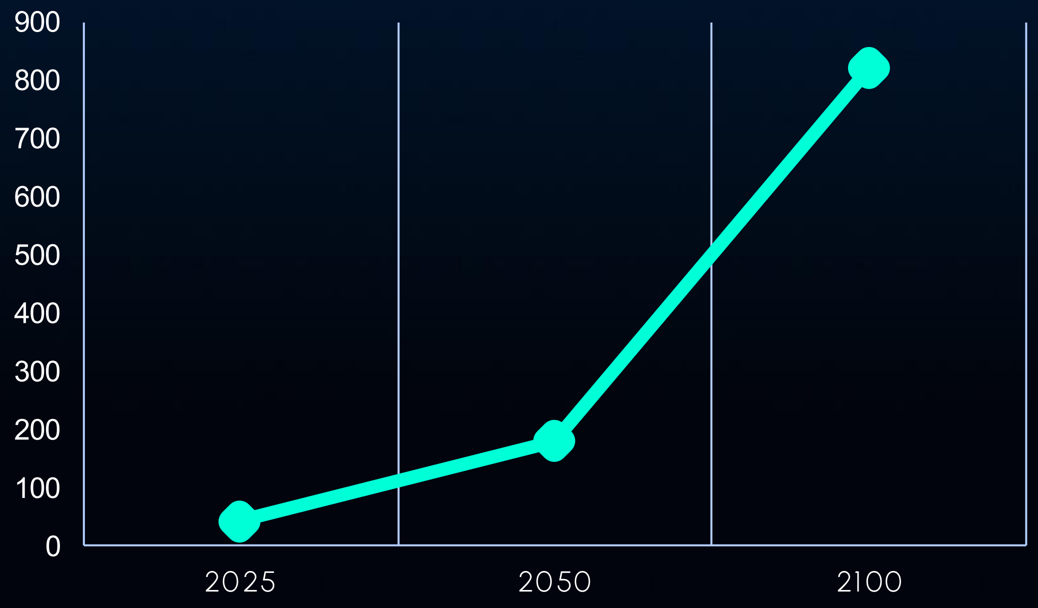


TOTAL ADDRESSABLE MARKET

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:

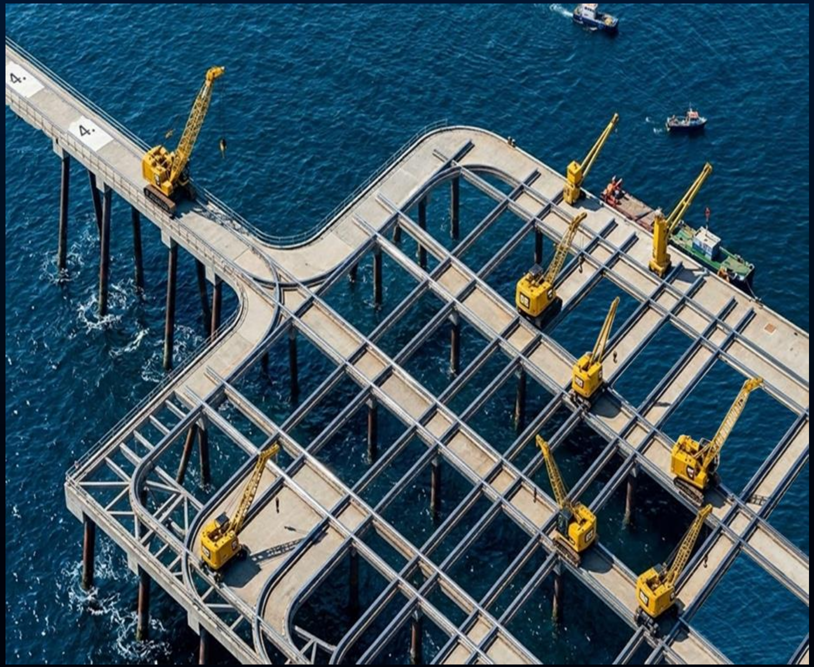
- Deployment of acrylic fibers in seawater treated with adsorption chemistries.
- Submerged fibers adsorb uranium and other metals through electrostatic charge.
- Fibers removed from seawater and treated in elution bath for extraction of metals.
- Fibers re-treated and re-deployed.
- Process repeated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

REVENUE PROJECTIONS

USD $Millions	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Revenue											
Uranium production	–	–	–	304	304	304	608	608	608	912	3,648
Vanadium production	–	–	–	23	23	23	46	46	46	70	279
Magnesium production	–	–	–	13	13	13	26	26	26	39	156
Nickel production	–	–	–	5	5	5	11	11	11	16	64
Subtotal production revenue	**–**	**–**	**–**	**345**	**345**	**345**	**691**	**691**	**691**	**1,036**	**4,145**

Assumptions

Low price	70
No growth production	43,425,000
Mid market share	10%
Countries	USA

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.

SuperCritical

PROJECT PARTNERS

Pacific Northwest
NATIONAL LABORATORY

OAK RIDGE
National Laboratory

U.S. DEPARTMENT OF
ENERGY

EDF

University of Idaho

THE STATE OF TEXAS

ADVANCING NUCLEAR TECHNOLOGY THROUGH POLICY SUPPORT

EMPOWERING PROGRESS THROUGH ALIGNMENT

Loan Programs Office

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

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