SuperCritical

A NEW ERA OF METALS
POWERED BY SEAWATER

Investor Presentation | October 2025

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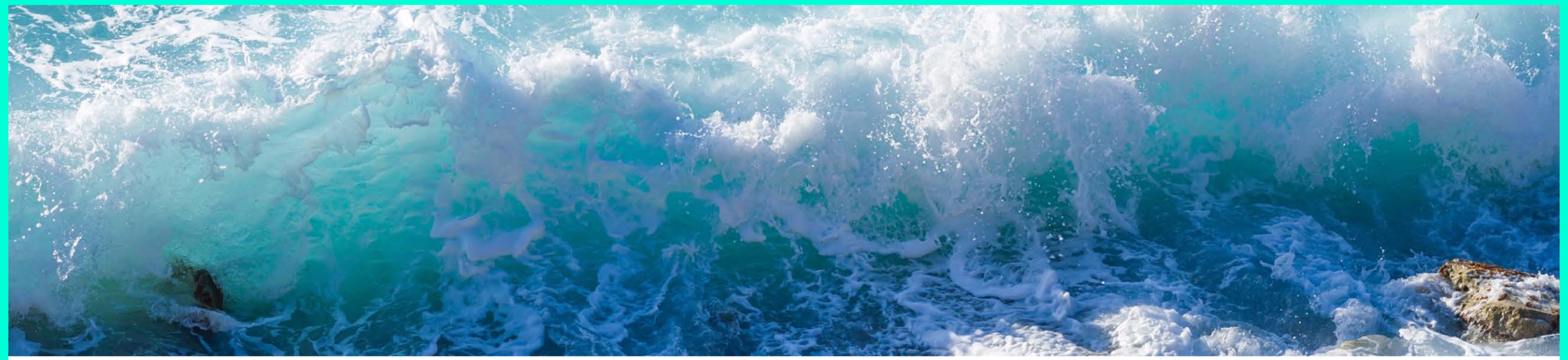


Extracting uranium and critical metals from seawater at low cost, and at global industrial scale, using technology developed and proven by the U.S. Government. This will ensure the domestic supply of critical materials, and support the independence of the United States industrial economy.

SUPERCRITICAL TECHNOLOGIES

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 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

EXECUTIVE ORDER MAY 23, 2025

Reinvigorating the Nuclear Industrial Base

"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.**"

MARKET CONDITIONS

Nuclear/Uranium

The Growing Role of Nuclear Energy & Uranium Demand

~50M lbs/year
Annual uranium required for reactor operations.

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

<0.2M lbs/year
U.S. domestic uranium production since 1981.

20% of U.S. electricity
Nuclear power generated by 94 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.

MARKET CONDITIONS

Critical Metals

U.S. Dependence & the Path to Security

50

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

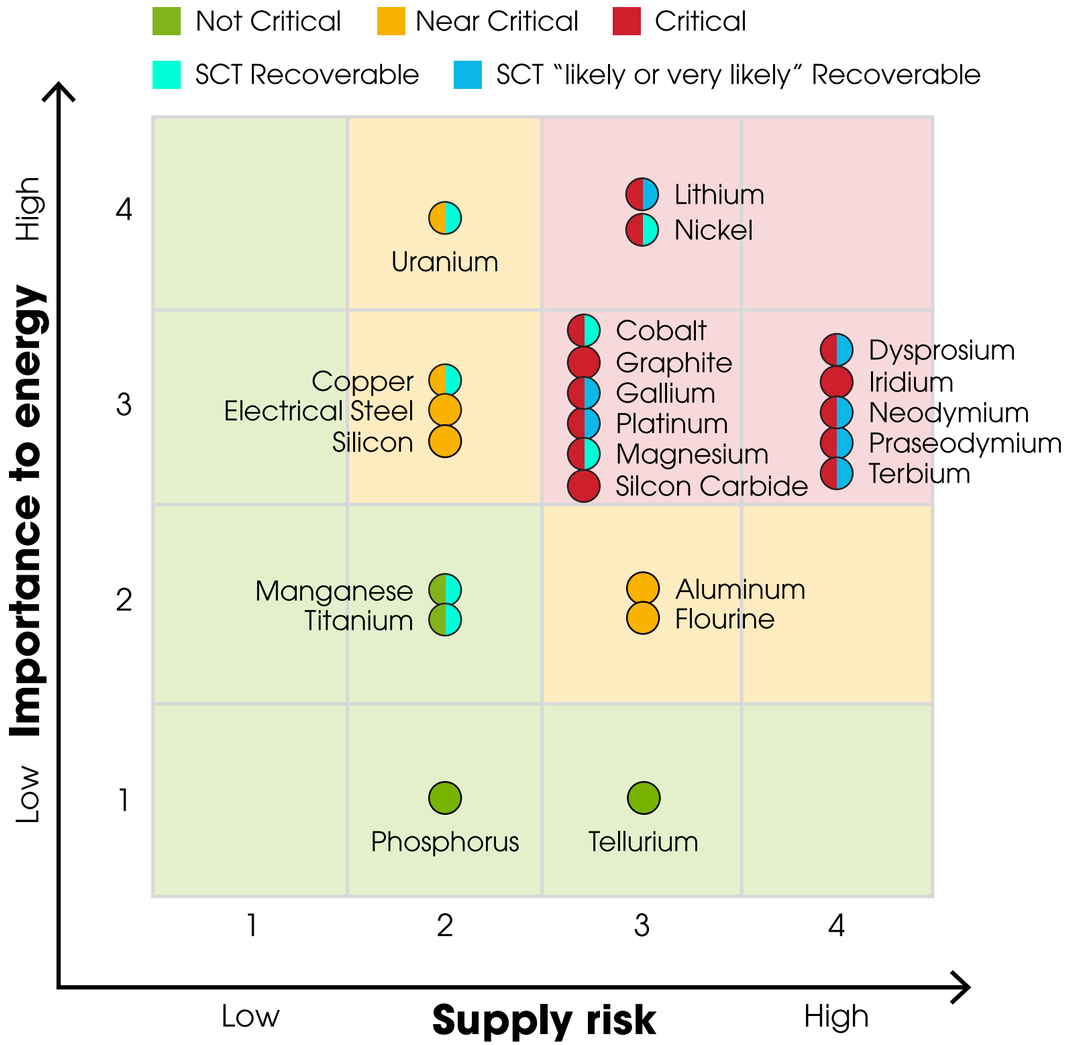
US is dependent on foreign sources
for nearly all of these metals.

23

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



Source: https://www.energy.gov/cmm/what-are-critical-materials-and-critical-minerals

MARKET CONDITIONS

Total Addressable Market

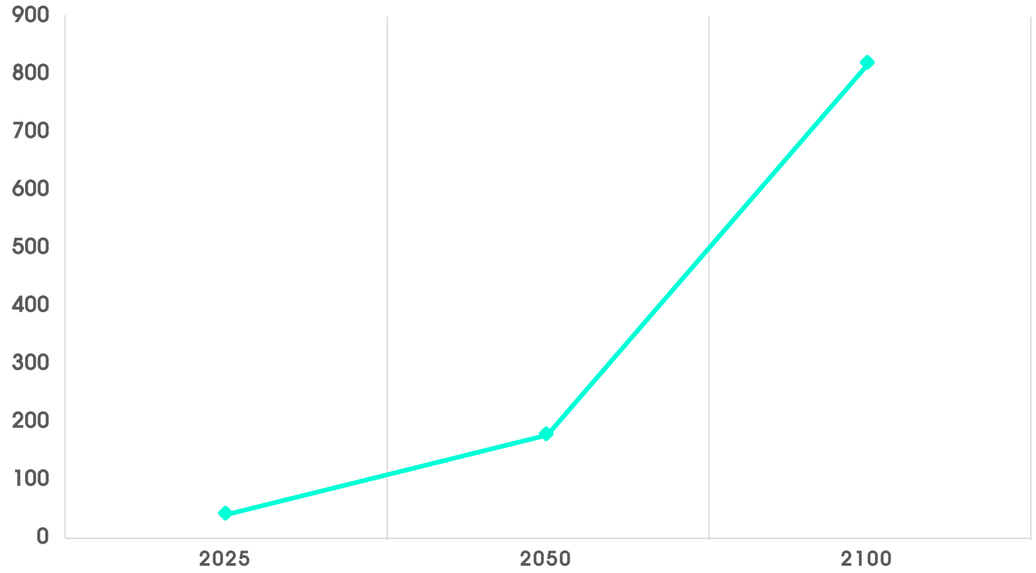
US only

Current reactor requirement in US = **43M** lbs/year

Policy to increase capacity by 400% by 2050 = **180M** lbs/year

50% of total US energy by 2100 = **821M** lbs/year

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



TECHNOLOGY

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.

TECHNOLOGY

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.

TECHNOLOGY

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 is progressing with modeling complete and Scoping Study to be completed by Q4-2025.

TECHNOLOGY

Project Deliverables

Engineering

- Scoping Study
- Conceptual Design Report
- 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 2025
- International patents: December 2026
- Develop proprietary inventions: ongoing

DOE Loan Application

- Part I Application submission: March 2026
- Part II Application submission : December 2026

ECONOMICS

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

TEAM

Management & Advisors

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.

Paul Martin
Chief Development Officer

- 30 years of experience as an investment banker and investor. Raised over $1B for alternative investments since 2022.
- Managing Partner of Gen4 Capital, a merchant bank in the advanced nuclear industry.
- Managing Partner at Valravn Capital, a private asset management firm since 2010.
- Formerly Senior Vice President at GE Capital; originated over $10 Billion of transactions.

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.

TEAM

Management & Advisors

John Kutsch
Process Engineer

- 30+ years in process engineering for industrial infrastructure.
- Led design for SenReq Syngas, Caldera Mine to Metal, and NREL's Gratzel solar cells.
- Co-founder and lead engineer of Terrestrial Energy's IMSR Gen IV reactor.

Stephen Boyd, PhD
Lead Chemist

- Trained, patented researcher with proven, extensive lab experience.
- Internationally published - among the top saline, inorganic, nuclear chemistry authors.
- Completed development of six, TRL-6-level chemobiological, organic natural products.
- Expert in Magic-angle Spinning MRI, various xray diffractometry techniques, ideally suited for inorganic, transitionmetal, transuranic, solidstate chemistries.

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.

Shirly Rodriguez Rojas, PEng
Nuclear Engineer

- 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.

SUPERCRITICAL TECHNOLOGIES

Project Partners

POLICY

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/DOD/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 is a 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.

POLICY

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
  - DOL
  - DOE Loan Programs Office (LPO)
- 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 LPO to submit its Part I Application.**

EXECUTIVE ORDER MAY 23, 2025

Reinvigorating the Nuclear Industrial Base

"…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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