



BUILDING THE FUEL INFRASTRUCTURE FOR THE NEXT CENTURY OF NUCLEAR ENERGY

A new foundational layer
for an infrastructure revolution

Investor Presentation | August 2026



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FUEL – THE NEXT BOTTLENECK

Electricity demand is accelerating...

Nuclear capacity is expanding...

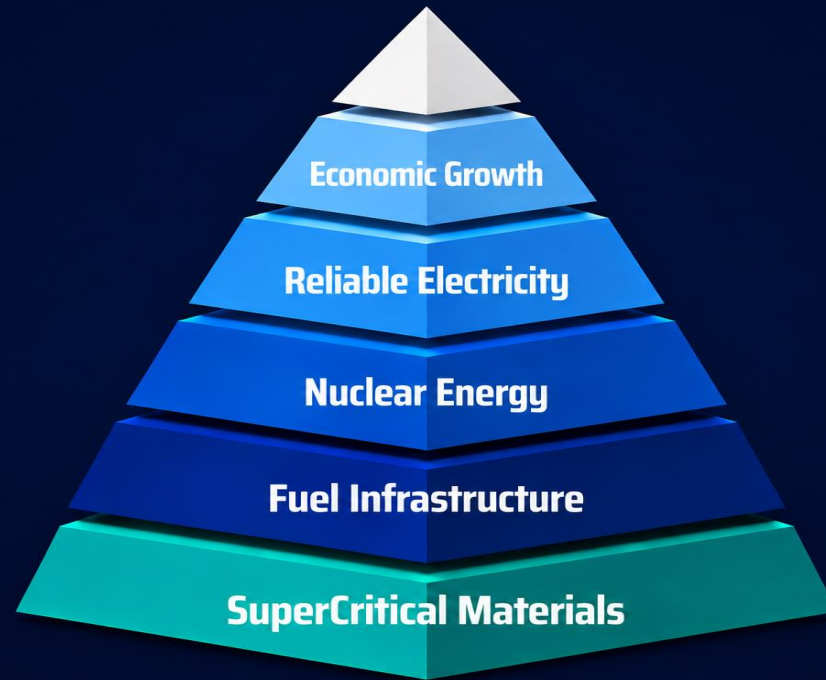
Nuclear reactors require reliable fuel supply...

Conventional mining remains essential, but additional fuel supply will be needed...

A new fuel layer must emerge...



THE NEW FUEL INFRASTRUCTURE STACK





FUEL INFRASTRUCTURE

The next generation of nuclear energy requires an entirely new class of industrial fuel production infrastructure.

SuperCritical is building that fuel infrastructure.





WHY SUPERCritical MATERIALS

Proven Technology

- No scientific/technology 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

Technical team responsible for developing this technology

- Former Deputy Director of Pacific Northwest Nuclear Laboratory
- Team populated with world-leading experts on seawater technology



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.

~2.0M
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.

TOTAL ADDRESSABLE MARKET

U.S. ONLY



Current reactor
requirement in US

~50M
lbs/yr



Policy to increase
capacity by 400%
by 2050

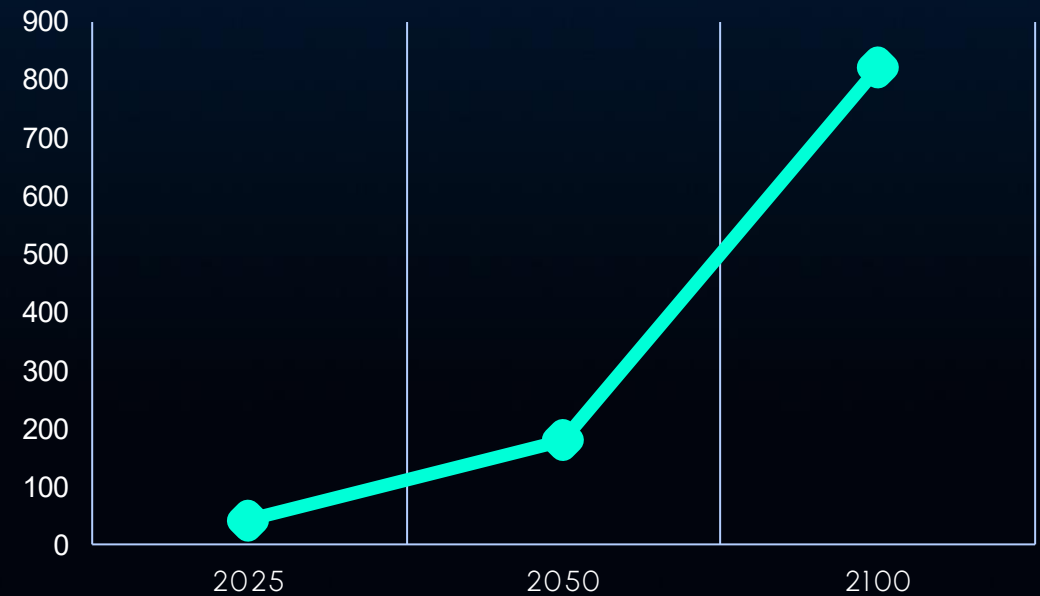
180M
lbs/yr



50% of total US
energy by 2100

821M
lbs/yr

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



FUEL INFRASTRUCTURE PLATFORM

EXTRACTING CRITICAL METALS FROM THE SEAWATER

Process involves the following steps:

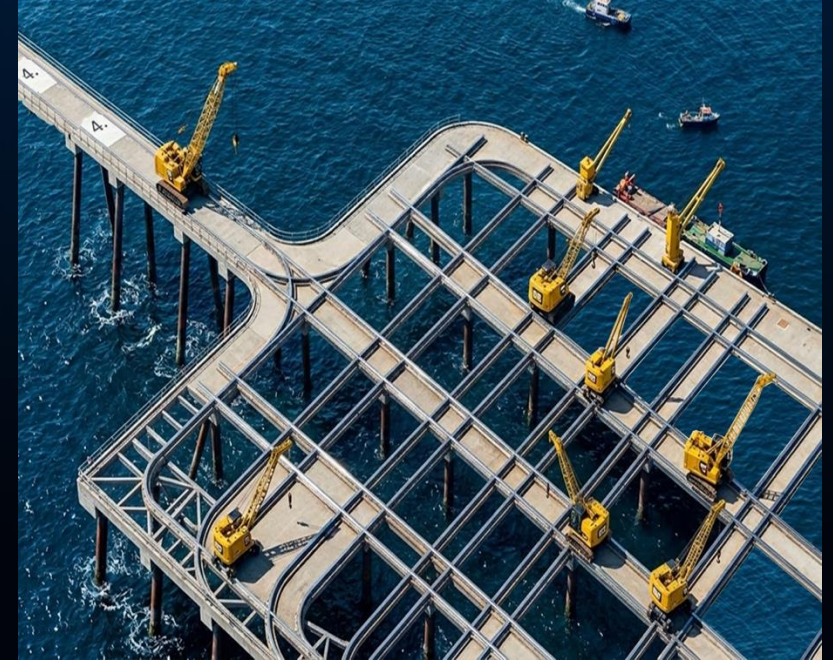
- Deployment of acrylic fibers in seawater treated with adsorption chemistries.
- Submerged fibers adsorb uranium and other metals ion exchange.
- Fibers removed from seawater and treated in elution bath for extraction of metals.
- Fibers re-deployed.
- Process repeated indefinitely.

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.





BUILT ON DECADES OF U.S. GOV'T RESEARCH

- U.S. Government spent years solving one of nuclear energy's most difficult scientific challenges — uranium extraction from seawater technology.
 - SuperCritical secured the exclusive commercial license **from U.S. Government.**
- **Additional IP will be acquired or developed in-house and patented.**
 - Company has developed 8 invention families that have been 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.



BUILDING THE FUEL LAYER

- First Principles engineering program to design industrial-scale facility capable of producing 1.85 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 cost-competitive with land-based mines.
- Phase I began in March 2025 and Pre-Conceptual Design, Conceptual Design, Scoping Study now complete.
- PEA underway with KBR, to be completed in 2026; PFS to begin in 2027 with demonstration facility launch Q1-2027.



PATH TO COMMERCIAL DEPLOYMENT

ENGINEERING

- Scoping Study
- Conceptual Design Report
- Preliminary Economic Assessment
- Pre-Feasibility Study
- Definitive Feasibility Study
- Final Investment Decision
- Project Finance
- Plant Construction
- Operation

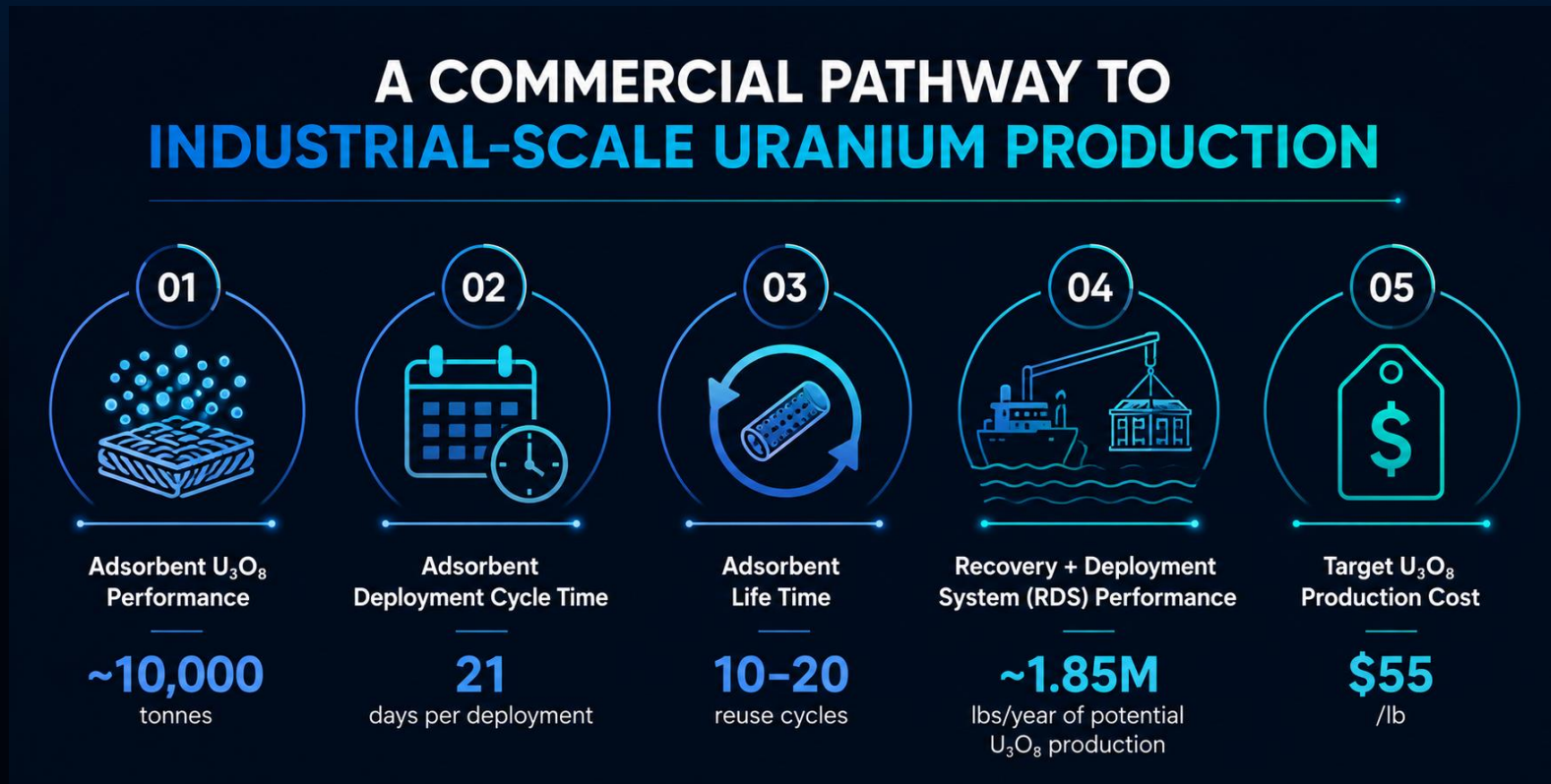
IP STRATEGY

- Acquire government IP: completed August 2025
- Developed/patented 8 invention families
- Acquire private sector IP: 2026
- International patents: 2026
- Develop proprietary inventions: ongoing



PATH TO INDUSTRIAL URANIUM PRODUCTION

- SuperCritical Materials' development program is designed to progressively replace modeled assumptions with demonstrated operating data.



PATH TO COMMERCIAL READINESS

- America is rebuilding its critical-material supply chains. Nuclear fuel is part of that infrastructure. SuperCritical is building a new source of domestic uranium production.



UNLOCKING INFRASTRUCTURE CAPITAL

- Private capital to reach the technical and engineering milestones unlocks significantly larger pools of infrastructure, government and strategic capital.

PRIVATE CAPITAL CAN UNLOCK STRATEGIC INFRASTRUCTURE CAPITAL



MANAGEMENT



**Canon
Bryan**
President & CEO

- Co-founded Uranium Energy Corp, largest US uranium mining company.
- Founded NioCorp, largest undeveloped niobium project in the world outside of Brazil.
- Co-founded Terrestrial Energy, world-leading advanced nuclear technology developer.
- Supported >\$500M 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.
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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.



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 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.

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."



GOVERNMENT INCENTIVES

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

- DOW
- DOS
- EXIM Bank/DFC
- DOE
- DOL

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.)
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THE NEXT CENTURY OF
NUCLEAR ENERGY

REQUIRES A NEW
FUEL INFRASTRUCTURE

