



DeepFission.com

NASDAQ: FISN

Corporate Overview

Powering Humanity from a
Mile Underground

June 2026





DEEP FISSION

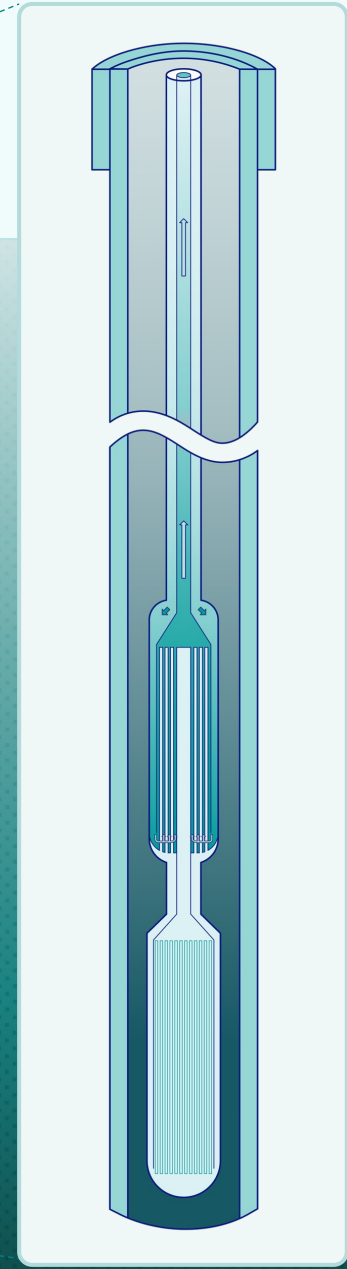
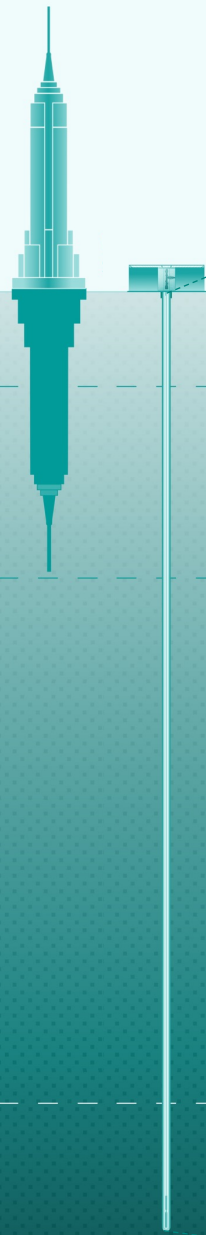
Empire State
Building for scale
(1,454 ft tall)

500 ft

1500 ft

4500 ft

1 Mile



| Energy Resilience for the AI era

Deep Fission is focused on delivering reliable, low-carbon baseload power to meet growing electricity demand from utilities, industrial customers, and data centers.

The Gravity Nuclear Reactor™ approach combines established pressurized water reactor technology with a novel underground deployment model designed to simplify construction, enhance safety, and support scalable commercial deployment.

2026 Company Update from CEO Liz Muller –
Advancing Development of First Reactor Project

[VIEW VIDEO](#)

Advanced Nuclear Company Deep Fission Announces
Closing of Public Offering of Common Stock

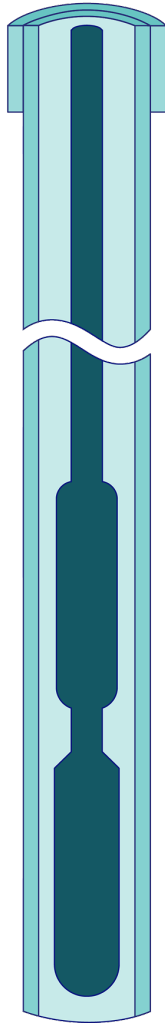
[VIEW PRESS RELEASE](#)

Deep Fission Breaks Ground

Site 1 – Parsons, Kansas

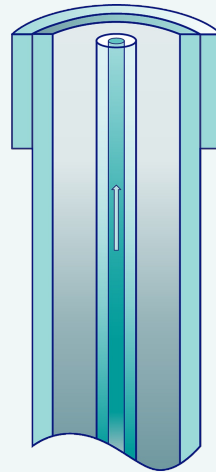


Integrating Three Mature Technologies



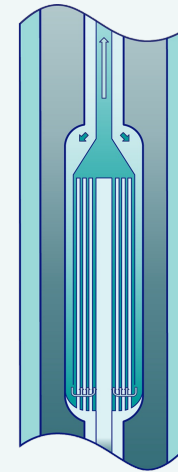
Deep Fission prioritizes deployment over invention. Our Gravity Nuclear Reactor™ design uses established reactor technology, leveraging existing capabilities in the oil, gas, and geothermal industries with the goal of reducing reliance on surface infrastructure, supporting faster deployment timelines, improving security, enhancing safety and lowering costs.

Deep Borehole Drilling



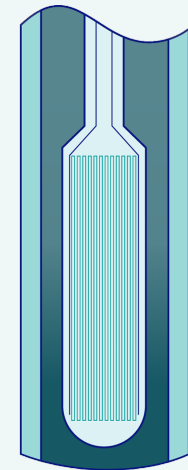
Optimized borehole design is intended to be drillable using proven oil & gas infrastructure for containment a mile underground.

Geothermal Technology



Novel deployment approach will apply established geothermal components and processes for energy transfer to the turbine generator at the surface.

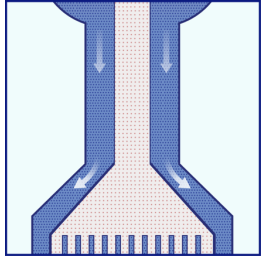
Pressurized Water Reactor



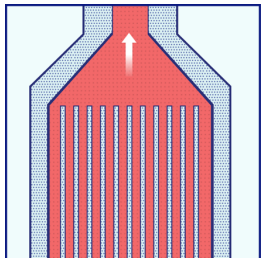
Hydrostatic pressure from one-mile-deep column of water expected to provide 160 atm of reliable pressure, safely and naturally. PWR design uses readily available low-enriched uranium (LEU) fuel.

Pressurized Water Reactor (PWR)

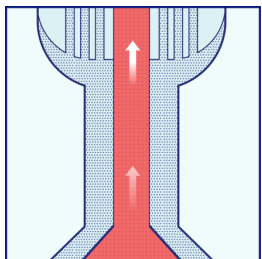
Primary System



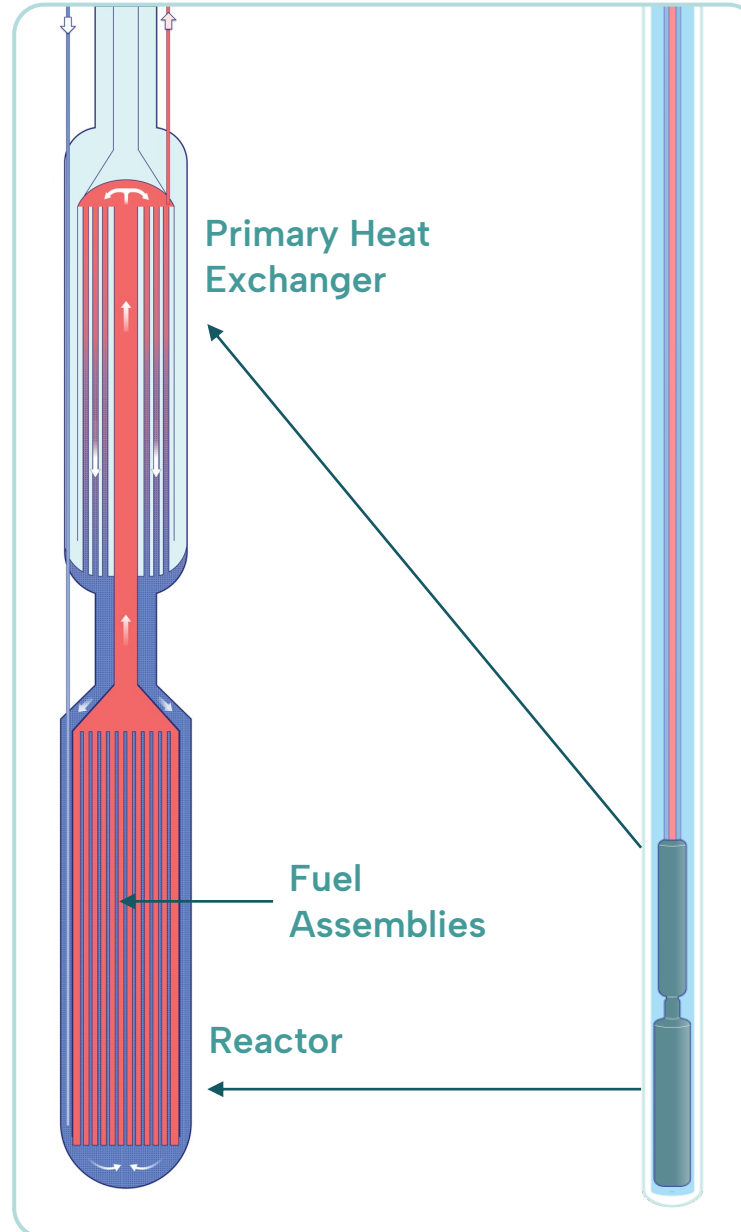
1
Primary Coolant is a Closed System (160 Atm)



2
Natural Circulation (Hot Water Rises)



3
Transfers Heat to Secondary System in Primary Heat Exchanger



Highlights



Primary Coolant Pressurized by Gravity (160 Atm)



Heat Transferred to the Secondary System is Pumped to the Surface



DOE Authorizes Operation, NRC Regulates Safety of the Reactor

Established Technology:
Large-scale commercial PWR first went critical on December 2, 1957.¹
There are currently 64 licensed to operate PWRs in the U.S.²

¹Library of Congress (loc.gov)

²Nuclear Regulatory Commission (nrc.gov)

Company History and Key Milestones



Key Highlights

- 1 Substantial Market & Regulatory Tailwinds:**
18.5 GWe Pipeline of Non-Binding LOIs
- 2 Established Technology Pathway:**
Light Water Reactor up to 15 MWe
Using Standard LEU Fuel
- 3 Rapid Speed of Deployment and Low Build Cost:**
Build / Own / Operate (BOO) Business Model
- 4 Enhanced Security Advantage:**
Defense-Enabling Energy Deployment
- 5 Depth of Team & Strong IP Stack:**
38 Patents Pending, 2 U.S. Patents Issued
- 6 Commercial Deployment Plan:**
Milestone Execution, Strategic Relationships,
and Defined Regulatory Pathway
2027-2028 COD Goal



Substantial Market & Regulatory Tailwinds

Key Tailwinds



Near-Term Capacity Constraints are creating Massive Production Shortfalls
AI, data centers, big tech, and military spend are supercharging energy demand



Lagging Infrastructure Lead Times are Creating Decade-Long Delays
Industry wide permitting and manufacturing delay affecting new reactor development



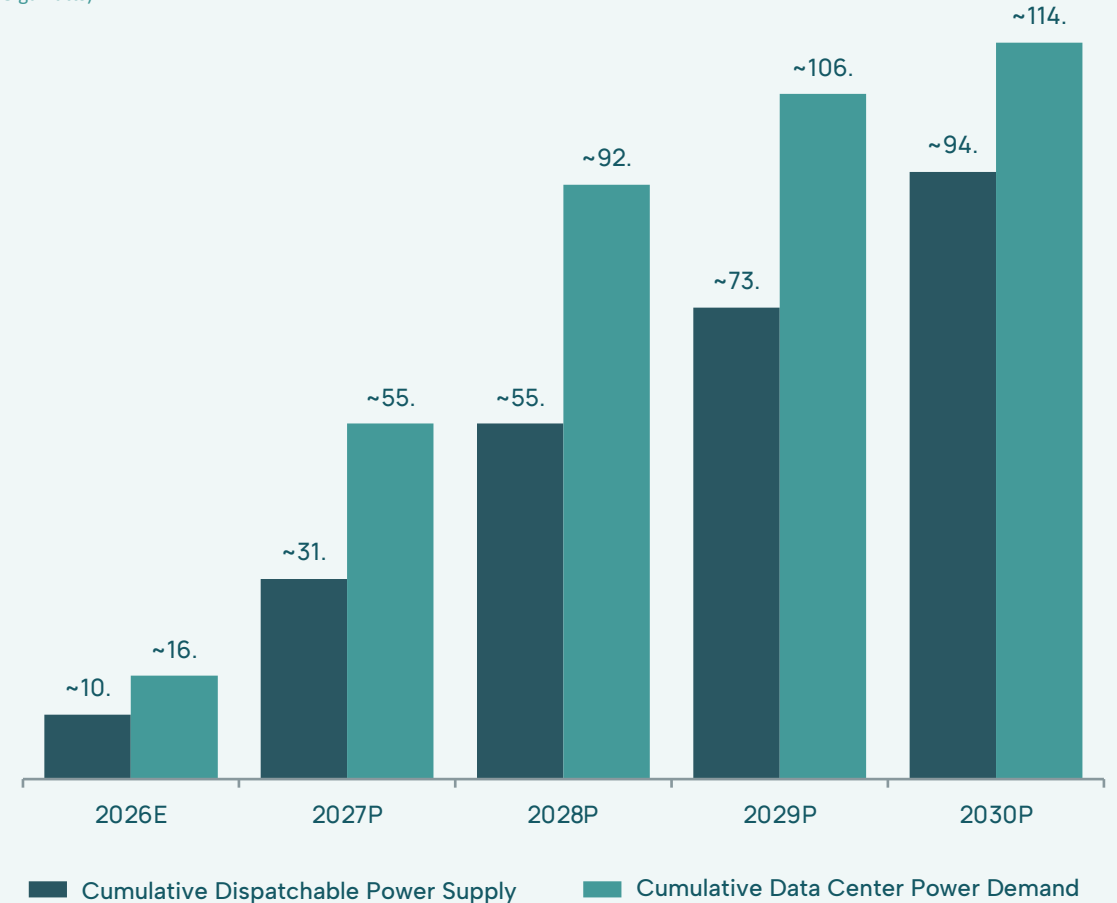
Big Tech Decarbonization by 2030 Deadlines
Numerous leading hyperscalers, energy majors and climate focused funds have made commitments to achieve net zero, or better, by 2030



Customers have been Searching for a Solution
Hyperscalers, governments, and militaries have been searching for near-term solutions to match near-and-long term demands

U.S. Data Center Power Demand Expected to Outstrip Supply

(Gigawatts)



Sources: EIA, and SEIA, Company Websites, Los Angeles Times, McCoy Power Reports. Chart is cumulative from 2025 Baseline.

Major Governmental Initiatives Propelling Nuclear Demand

America-first policies have accelerated demand for nuclear energy production

Policy Tailwinds



Speed up Reactor Licensing	✓	Deep Fission's regulatory strategy aligns with DOE's streamlined authorization framework for reactor demonstration and supports commercial licensing by NRC, building on licensing frameworks already in place for PWRs.
Add 300 GWe by 2050	✓	The Gravity Nuclear Reactor is intended to allow quick scaling.
Faster Reactor Testing	✓	On August 12, 2025, Deep Fission was selected as one of only 10 companies to participate in DOE Reactor Pilot Program.
Deploy for AI & Military	✓	Gravity Nuclear Reactor architecture is inherently modular and scalable, enabling energy-hardened underground deployment that may offer advantages for government and defense installations.
Ramp Up Fuel Production	✓	The novel approach of our reactor at-depth uses conventional LEU (not HALEU), which is more readily available than exotic alternative fuels (e.g., TRISO fuel).
Spent Fuel Management	✓	Our deployment model encompasses safe interim storage pending identification of national, long-term storage solutions.

Established Technology Pathway



Scalable Power

Targeting up to 15 MWe per reactor, scalable with additional boreholes.

Inherent Safety

Utilize borehole water to provide essential pressure control and safety.



Standard LEU Fuel

Utilize standard LEU fuel for pressurized water reactor (PWR). Expect initial 2x2 configuration and intend to move toward 3x3 PWR fuel assembly configurations.

Spent Fuel Management

Encompasses safe interim storage pending identification of national, long-term storage solutions.



Primary Heat Exchanger

Heat Transfer

Novel deployment approach will apply proven geothermal components and processes for energy transfer to the turbine generator at the surface.

Reactor Canister

Standard Fuel Assemblies

Hydrostatic pressure from one-mile-deep column of water will provide 160 atm of reliable pressure, safely and naturally.

Designed for Rapid Speed of Deployment

New reactor designs, advanced fuel cycles, and safety innovations are important, but not sufficient on their own for deployment at pace with compute infrastructure. Deep Fission believes it has a path to achieve near-term scale as determined by licensing efficiency, construction timelines, replicability/standardization, and supply chain readiness.

Other Nuclear Energy Solutions

Traditional/Surface Level Reactors

Credible, safe solutions that take decades to build, result in “not-in-my-backyard” pushback and often amplify costs to the point of cancellation.

Above-Ground SMRs

Above ground small modular reactors are hindered by their ability to produce cost-effective electricity in the near term.

Novel Reactor Startups

New solutions pose high risk with unproven upside—iterative, untested reactor technology as concepts advance through early engineering and validation stages.

Deep Fission

Deep Fission is designed for rapid deployment, leveraging established technology, and engineered for economic transformation.



...With Deep Fission Offering a Quicker Solution

Traditional Reactor Pace		6-10 Years from breaking ground to completion
Above-Ground SMR Pace		3-4 Years from breaking ground to completion
Gravity Nuclear Reactor Pace		Targeting as quick as 6 Months for a single reactor deployment <i>NOAK basis</i>

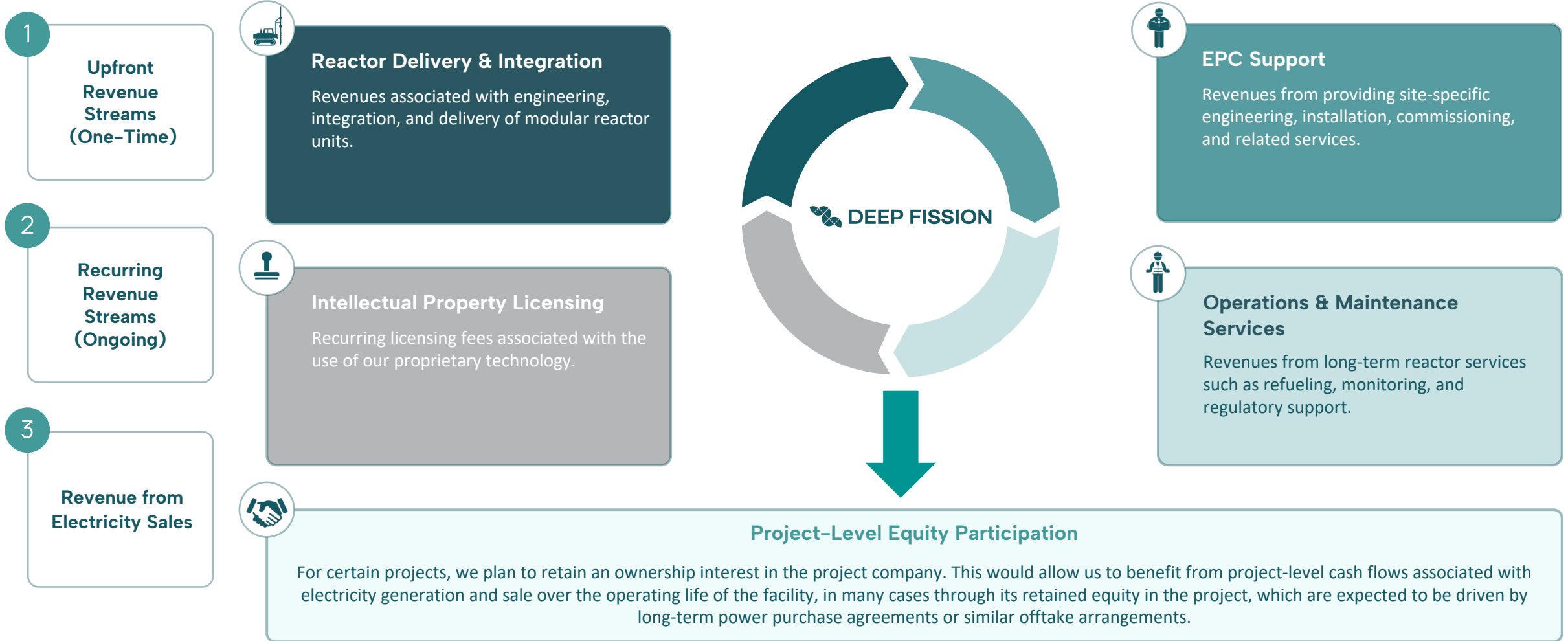
Low Build Cost

The Gravity Nuclear Reactor Expected to Improve on Major Variables of PWR Complexity and Cost

Criteria	New Pressurized Water Reactors are still not cost-effective	Deep Fission engineered to achieve compelling economics across the board
Reactor Pressure Vessel	Large forged pressure vessels within engineered nuclear island	Reactor system to be integrated within borehole environment
Emergency Core Cooling Systems	Engineered active safety systems with pumps, power, and redundancy	System to incorporate water column that generates pressure and serves as primary coolant
Reactor Containment Building	Above-ground reinforced concrete and steel containment structures	Containment functions integrated with geology and depth
Nuclear Construction and Quality Assurance	Large-scale, site-built nuclear construction with extensive on-site QA	Drilling-based installation with emphasis on repeatable, modularized + packaged system integration
Supply Cost for Standard Fuel Assembly	Our deployment model encompasses safe interim storage pending identification of national, long-term storage solutions.	Use of existing LEU fuel supply chains aligned with commercial infrastructure
		Targeting significant cost reduction of the nuclear island versus most recent completed conventional PWR

Deep Fission Business Model

Business plan includes revenue from development and construction, technology licensing and services, and long-term revenue from electricity sales. We expect to utilize third-party project financing to support reactor deployment



Security Advantage: Defense-Enabling Energy Deployment

Aligned with Department of Defense efforts to strengthen installation energy resilience, reduce dependency on vulnerable grids and fuel logistics, and maintain operational continuity under disruption

Physical Resilience

Minimal, modularized and packaged surface infrastructure =
Reduced targeting profile and resilient, distributed
architecture potential

- Limited above-ground infrastructure is difficult to detect and reduces exposure to kinetic attack
- Enables multiple smaller assets that can be reset quickly vs. single-point of failure infrastructure

Mile-deep deployment = Inherent physical protection and survivability of critical systems

- Naturally shielded from drones, missiles, and surface-level sabotage
- Fuel and core systems are sealed and inaccessible during operation
- Significantly reduces risk of tampering, diversion, or forced access

Logistical Resilience

Independent, continuous baseload power = Sustained operational support for :

- Military installations
- Forward operating environments
- Critical infrastructure and emergency response

Reduced logistics burden and long-duration operation =
Energy resilience

- Not dependent on weather conditions (solar, wind)
- Not dependent on fuel logistics (diesel, LNG)
- A single reactor is designed to have longer refueling cycles, enabling persistent power in remote or contested locations

Executive Leadership



Elizabeth Muller
CEO and Co-Founder

Prior Experience:
Co-Founder, Board Chair & Former CEO of Deep Isolation (nuclear waste disposal), and Co-Founder, Berkeley Earth policy advisor at the OECD



Mark Schmitz
CFO

Prior Experience:
40+ years of experience in global finance leadership in energy technology, manufacturing, automotive, life safety, and capital-intensive industries



Mark Pérès
Chief Nuclear Officer

Prior Experience:
40+ years of experience in Nuclear Engineering, former Engineering Lead at NuScale Power and Kairos Power, former Reactor Operator at Hanford



Michael Brasel
COO

Prior Experience:
30+ years of experience across Nuclear and Fossil, former Senior Director at NuScale Power, Board Chair of Great River Energy, and former Plant Manager at La Crosse Boiling Water Reactor



Richard Muller
CTO and Co-Founder

Prior Experience:
Co-Founder of Deep Isolation, MacArthur “Genius” Recipient, holding 80+ nuclear patents, and is a Professor Emeritus at UC Berkeley



Stacy Tarver Patterson
CMO

Prior Experience:
19 years of experience across global marketing strategy, digital product growth, and brand transformation for technology and consumer platforms



Jon Gordon
General Counsel

Prior Experience:
20+ years of experience in legal services, advising companies on legal, compliance, securities, and other matters

Depth of Technical & Operations Teams

Executive Team	<p>Bryan Black VP, Business Development 14+ years in nuclear energy and power</p>		<p>Rani Franovich VP, Regulatory Strategy 30+ years in nuclear regulation</p>		<p>David Nelson VP, Drilling and Completion 25+ years in well engineering</p>		
Technical Team	<p>Aleem Boatright Director, Nuclear Analysis 25+ years in Nuclear Engineering, PE, former NRC Reactor Engineer</p>	<p>Jason Pottorf Director, Thermohydraulics 25+ years in Nuclear Engineering, PE, I&C and safety analysis expert</p>	<p>Chris Weindorf Director, Reactor Mechanical 20+ years in Nuclear Mechanical and Structural Engineering</p>	<p>John McClure Director, Electromechanical 15+ years in engineering, PE, and MBA experience</p>	<p>Brett Siebert Senior Thermal Hydraulics Engineering 20+ years in Nuclear Engineering</p>	<p>Brian Treadway Senior Project Director 30+ years in power generation, and MBA experience</p>	<p>Mark Chitty Licensing Director 45+ years in the nuclear industry</p>
	<p>Maurice LaFountain Director, Surface Design 25+ years in Nuclear, Engineering, PE, and PMP</p>	<p>Laura Holewa Senior Nuclear Engineer 15+ years in nuclear engineering</p>	<p>John Fehler Electromechanical Engineer 25+ years in mechanical and manufacturing engineering</p>	<p>Pradeep Pandurangan FEA Mechanical Engineer 20+ years in mechanical engineering</p>	<p>Justin Pottorf Surface Systems Lead 20+ years in digital systems and automation engineering, PE, and FPGA</p>	<p>Zach Comstock Quality Assurance Manager 15+ years in nuclear QA, NQA-1 Lead Auditor</p>	<p>Jim Read Senior Director Supply Chain and Procurement 25+ years in energy industry, and US Navy experience</p>
Nuclear Operations Team	<p>Adam Rose Director, Nuclear Operations 25+ years in nuclear and engineering</p>	<p>Tim Gnad Senior Nuclear Operations Engineer 18+ years in nuclear operations, and MBA, experience</p>	<p>Stephen Sparks Senior Nuclear Operations Engineer 35+ years in nuclear industry</p>	<p>David Green Senior Reactor Operator 15+ years in nuclear technical engineering</p>	<p>Dustin Cluck Reactor Operator 10+ years in nuclear and manufacturing engineering</p>		
Prior Work Experience	<p>Ardmore Energy U.S. Navy – Nuclear Propulsion Div.</p>		<p>Nuclear Regulatory Commission Paragon Energy Solutions</p>		<p>Holtec NuScale Power GE Vernova Westinghouse Fluor TVA</p>		

Board Of Directors & Advisors

Board of Directors



Elizabeth Muller
CEO and Co-Founder
Board Chair



Leslie Goldman Tepper
Managing Partner of LGT Seven
Enterprises Nominating & Governance
Committee Chair



Jonathan Angell
CEO of Angell Investments



Thomas Glanville
Managing Partner of Eschelon Advisors, LP
Audit Committee Chair



Blake Janover
Board Member and CCO of DeFi
Development Corporation
Compensation Committee Chair

Expert Advisors



Stacy Polley
Independent Board
Member, Blue Owl



Steve Koonin
Special Government
Employee, DOE



Kristin Svercek
Former President,
General Counsel at Lyft



Mark Peters
CEO Mitre Corp. Former Head
of Idaho National Labs



Patrick Huston
Brig. Gen. (Ret.)



Jo Riley
Co-Founder and
CEO of Censia



Allison Salisbury
Entrepreneur



Steve Chu
Nobel Laureate
Former Secretary
of Energy

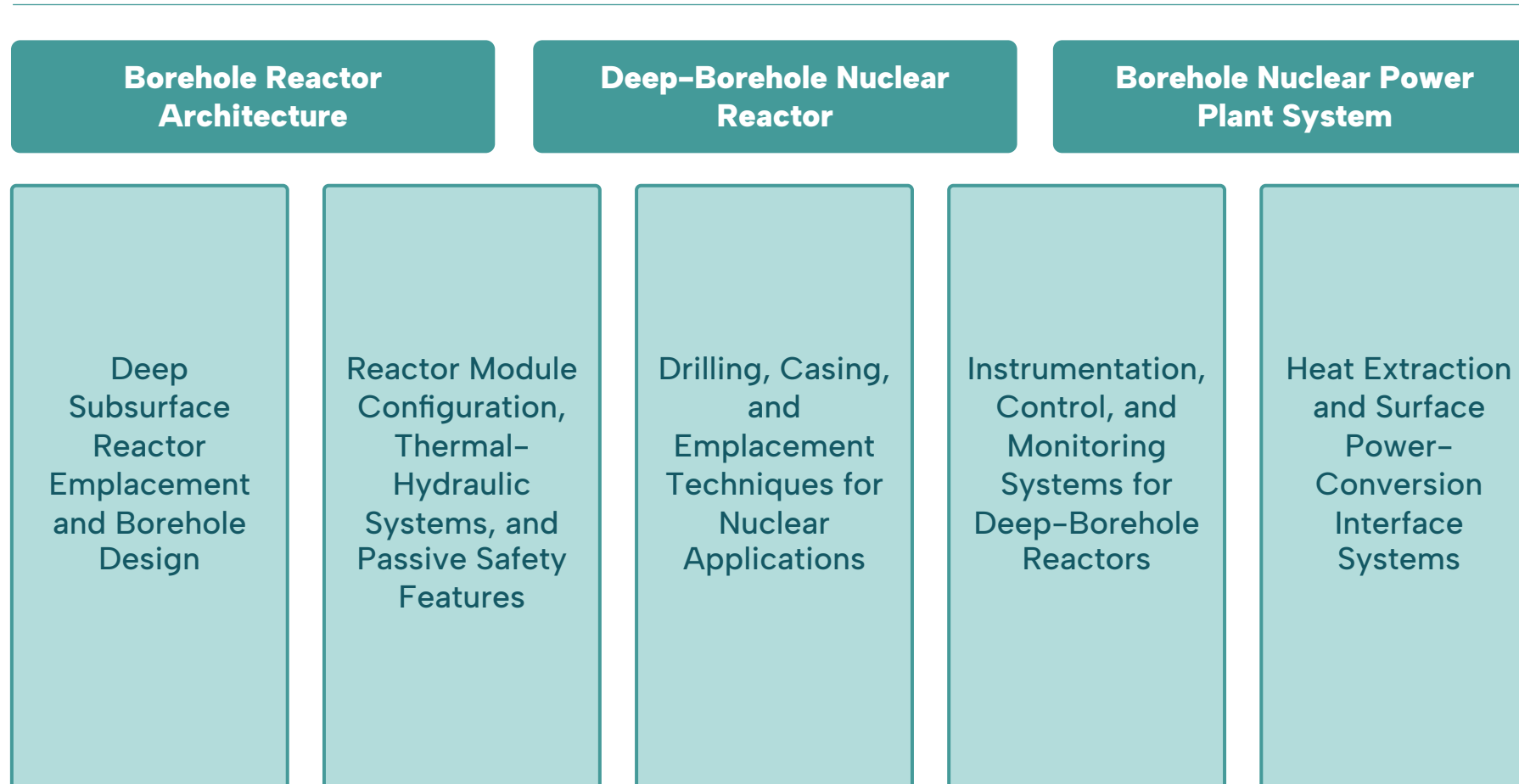


John Mather
Nobel Laureate
in Physics

Accelerated Innovation – Deep Fission is a New Class of Infrastructure

Intellectual Property (IP) Process is Intended to Create Long-Term IP Moat and Technology Licensing Potential

Core Concept Stack



38

Pending Applications;
2 U.S. Patents Issued

40+

Unique Innovations
and Novel Concepts
to Date

Commercial Deployment Plan: 2027-2028 Commercial Operation Date Goal

Phase 1: Analysis

Phase 2: De-Risk



Second Half 2025: Site Selection & Groundbreaking

Development activities commenced in Parsons, KS, including geological evaluation, borehole planning and early drilling.



Targeting Second Half 2026: Commercial Borehole Proof of Concept

Commercial-sized wellbore construction, emplacement and retrieval, mechanical assembly and thermal testing. Delivery of key components for full system integration.

Targeting First Half 2027: DOE Pilot Construction & NRC Licensing Submission

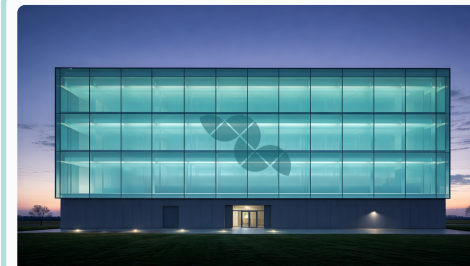
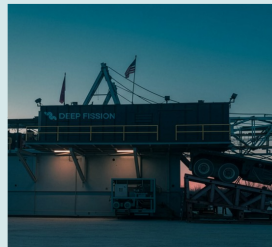
LEU fuel fabrication and loading, drilling and completion of pilot program well, delivery and assembly of reactor and components on-site. Subject to DOE authorization, plan to demonstrate the pilot reactor and submit for NRC licensing.



Secured non-binding LOIs for 15 GWe pipeline including site-host and off-take LOIs in KS, TX, UT

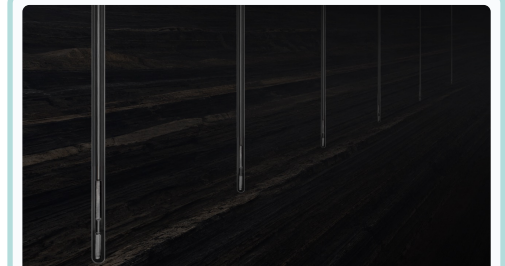
First Half 2026: Drilling, Engineering & Emplacement Analysis

Drilled first data acquisition well to ~6,000ft. to gather real-world subsurface data. Advancing engineering validation, including rigorous preparation and permitting for commercial-scale borehole drilling.



Targeting Second Half 2027: Convert to Commercial Operation

Pilot reactor expected to transition from demonstration to commercial operation following regulatory approval, surface construction, and aligning testing and licensing pathways in parallel.



Targeting 2027-2028: High-Volume License & Deployment

Targeting high-volume commercial licensing for deployment of multiple reactors at a single site through clustered boreholes, and subsequently across multiple sites.

Phase 3: Commercial

Commercial Deployment Plan (Cont'd)

Strategic Relationships for Accelerated Commercial Pathways

Great Plains Development Authority

Non-binding letter of intent and executed lease agreement establish framework to develop up to 2 GWe at Great Plains Industrial Park.

This partnership positions Deep Fission with a commercial pathway into hyperscaler and industrial customers, with potential for:

- Purpose-built data center campus with scalable power, high-speed fiber, and large contiguous land enabling hyperscale deployment.
- Accelerated time-to-market through powered shell sites and a pro-growth regulatory environment.

Blue Owl

Non-binding strategic relationship with Blue Owl Capital's Real Assets platform for the potential deployment of Deep Fission SMR projects across its digital infrastructure portfolio, alongside a \$20 million equity investment from a Blue Owl-managed fund.

This partnership establishes a direct commercial and financing pathway for Deep Fission reactors in the rapidly expanding data center sector, combining potential project development collaboration, power offtake alignment, and structured capital support, in an effort to accelerate scalable, zero-carbon baseload deployment.

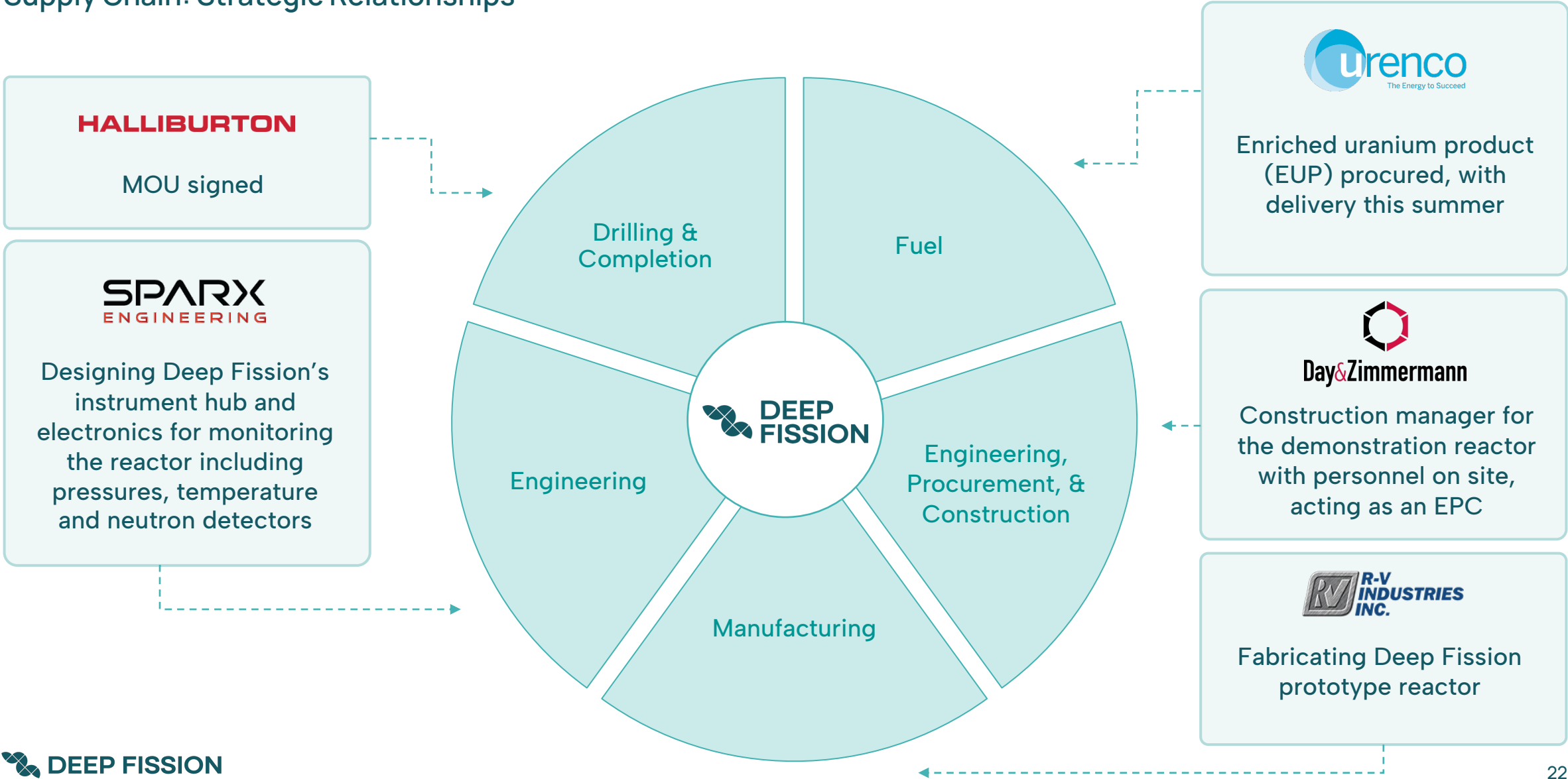
Endeavour

Non-binding strategic relationship term sheet with Endeavour, a sustainable data center infrastructure company, for potential co-development of 2 GWe of nuclear energy across cloud provider projects.

This partnership creates a direct commercial pathway for Deep Fission reactors in one of the fastest-growing electricity demand sectors.

Commercial Deployment Plan (Cont'd)

Supply Chain: Strategic Relationships



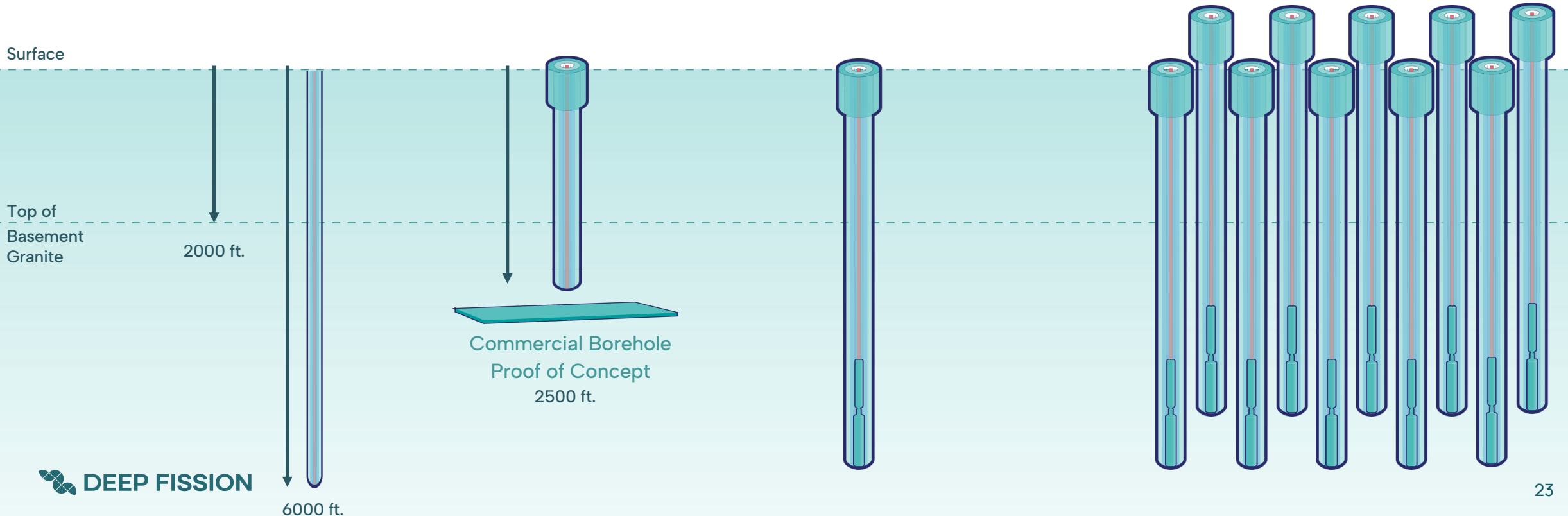
Commercial Deployment Plan (Cont'd)

Phased Milestones

- 1** TARGETING 2026 - 2027
Borehole Drilling, Installation and Emplacement
Data Acquisition + Analyses + Full Proof of Concept

- 2** TARGETING 2027
DOE Pilot Authorization Milestones and Demonstration
NRC Commercial License at Kansas Site

- 3** TARGETING 2027 - 2028
Potential Future Commercial Deployment Objective
Multiple Boreholes at Single Site



Next Milestone: Commercial Borehole Proof of Concept

“G2 Well”



What G2 Intends to De-Risk:

1. Ability to drill a large-diameter well in the target geology and handle subsurface complexity
2. Ability to manage lost circulation and preserve seal integrity through enlargements
3. Ability to test the emplacement and retrieval process in a field setting
4. Ability to test the mechanical assembly and thermal hydraulics in a field setting

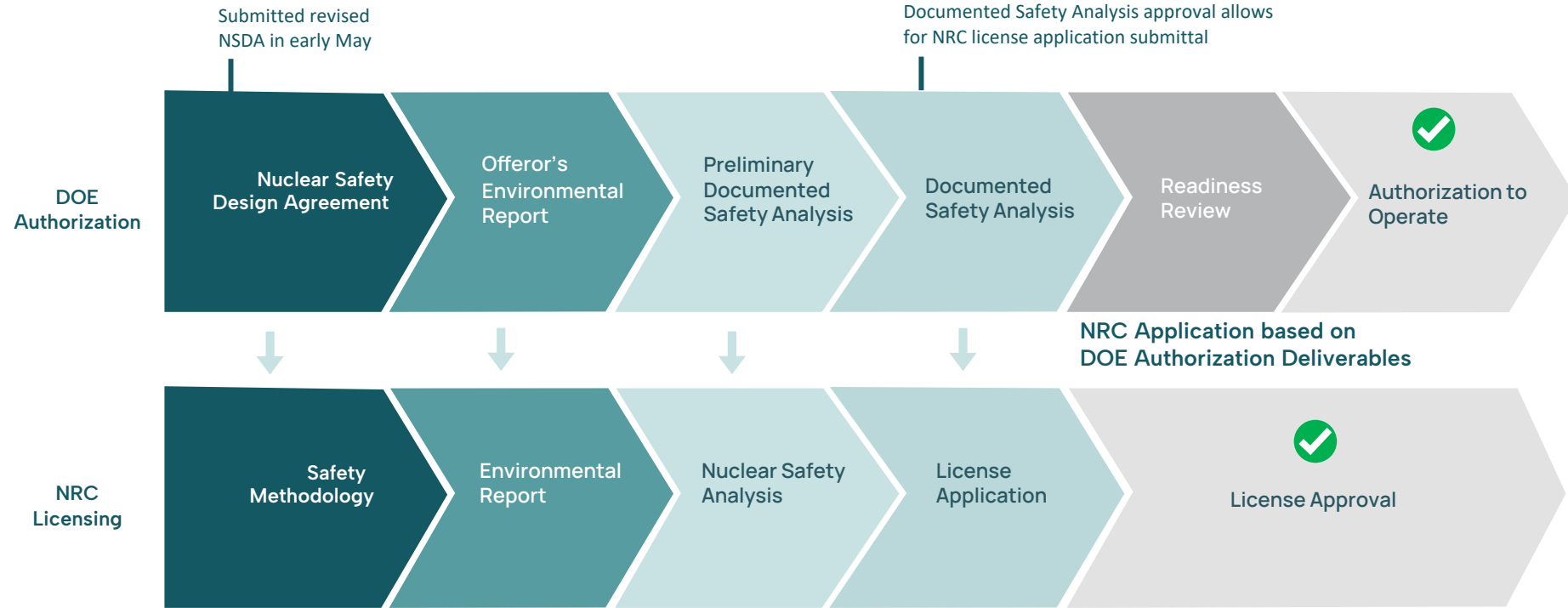
G2 milestone is a focused proof-point program.

Use of funds concentrated on the most important next milestones: Larger borehole execution and advancing the regulatory path.

Deep Fission Operates in a Market with Rigorous Nuclear Requirements

Proactive engagement with Regulators allows for parallel path - technology development and commercial approval

DOE Authorization & NRC Application Process



Technical & administrative meetings
 Commissioner and Exec meetings (if needed)
 Document submittals: white papers, topical reports, etc.

Review of Safety Analysis Report outlines or other drafted submittals
 Observation of DOE RPP authorization

Commercialization Pathway



Commercial operation of FOAK Reactor at Parsons, KS



License Amendment application for larger reactor up to 15 MWe for large scale commercialization



Establish corporate and project infrastructure to deliver the 15 GWe of non-binding LOI agreements



Continue development of customer pipeline

Forward-Looking Statements

This document includes forward-looking statements within the meaning of federal securities laws. Forward-looking statements include statements regarding Deep Fission's technology, business strategy, regulatory activities, commercialization plans, anticipated deployments, market opportunities and future performance.

These statements are based on current expectations and assumptions and involve risks and uncertainties that could cause actual results to differ materially from those expressed or implied. Important factors include financing, regulatory, technical, operational, market, supply chain, construction and commercialization risks, as well as the other risks described in Deep Fission's filings with the Securities and Exchange Commission.

Deep Fission's forward-looking statements are based on information available as of the date of publication. Except as required by law, Deep Fission does not undertake any obligation to update these statements.



Powering Humanity from a
Mile Underground

