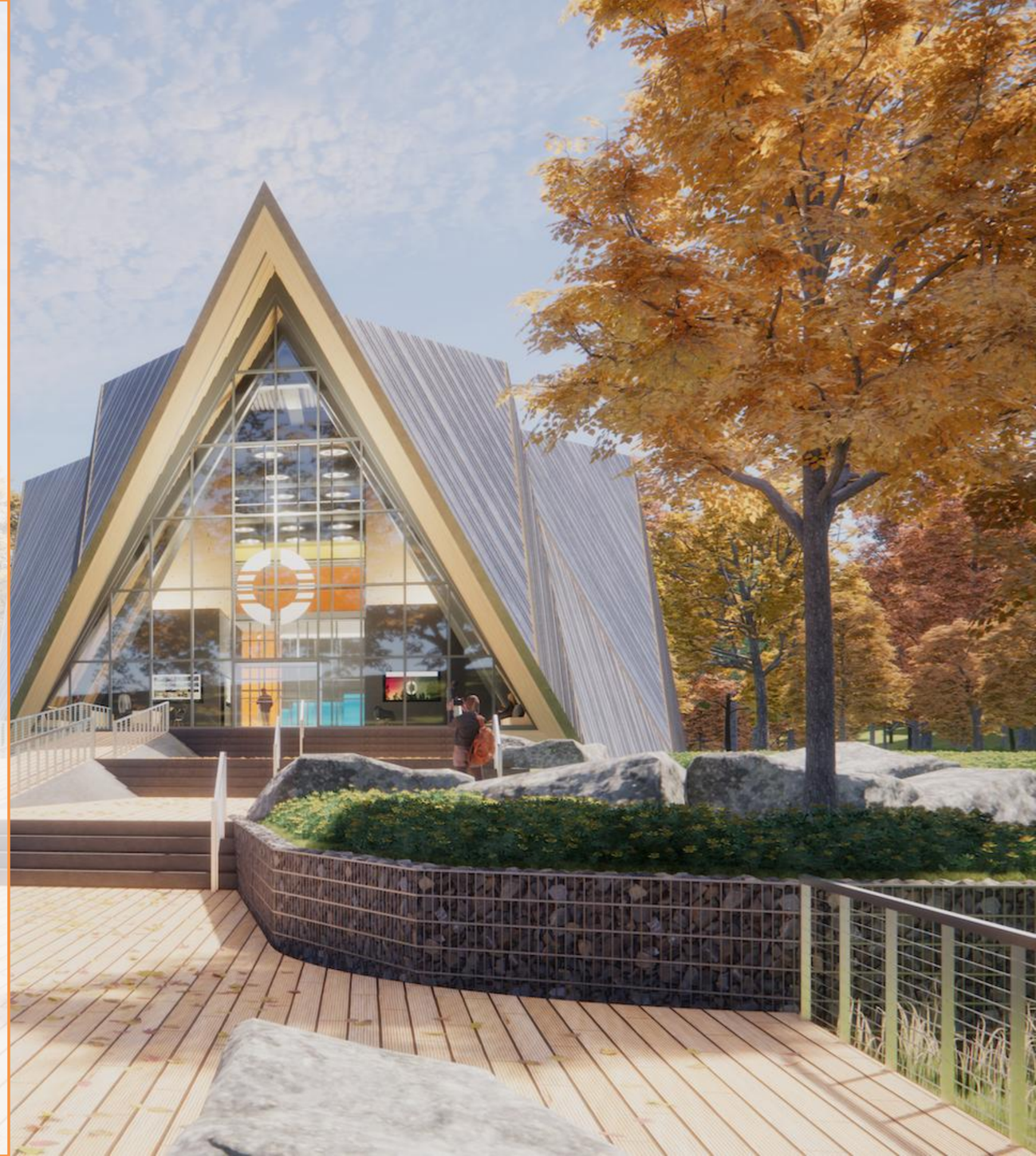
OKLO

Everett Redmond, Ph.D.

March 20, 2025



Forward-looking statements

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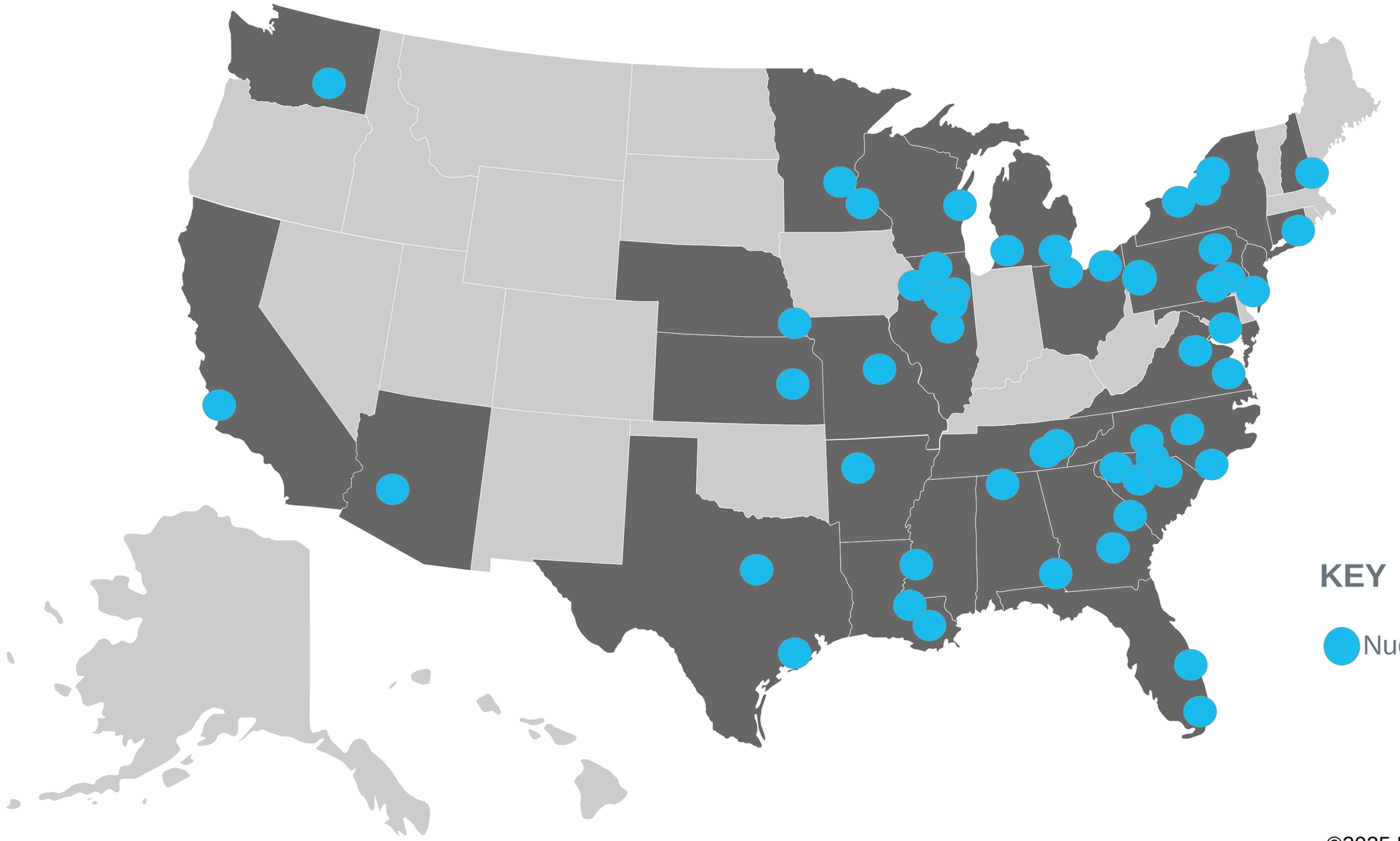
The Advanced Reactor Industry

- Large water-cooled reactors have been the backbone of the nuclear power industry
- Advanced reactors offer innovative products and expand the market for nuclear power
  - Different fuels and coolants
  - Higher temperatures
  - Different sizes

Nuclear Provides Majority of Emissions-Free Electricity



Nuclear generated 19% of electricity in the U.S.

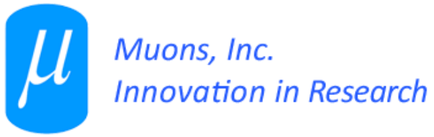
From 94 reactors at 53 plant sites across the country

KEY

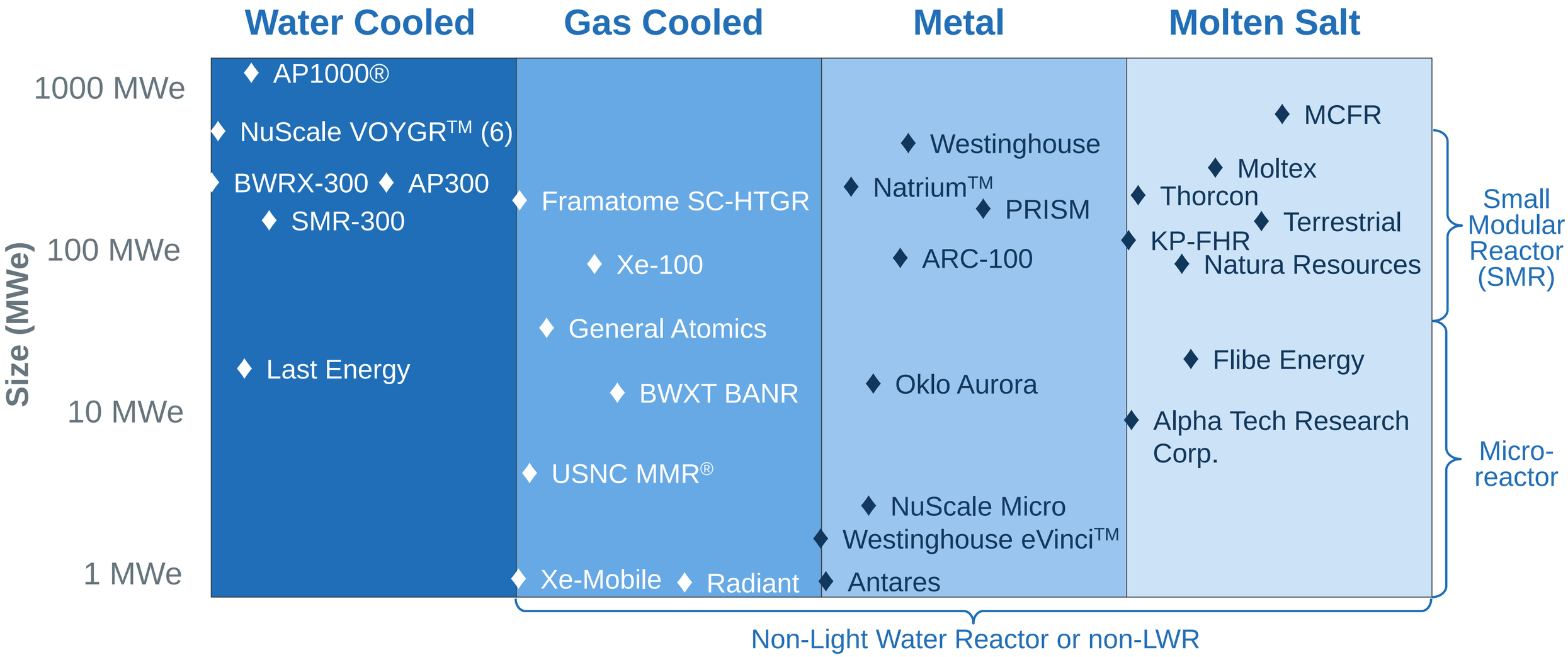
Nuclear power plant site

Updated: May 2023

Advanced Nuclear Designer Members



Advanced Nuclear Technologies*



* - partial list of technologies

Advanced Nuclear Versatility

Spectrum of Sizes and Options

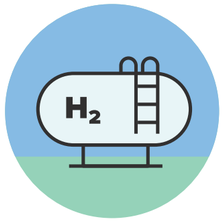
Micro

Small

Large

Variety of Outputs

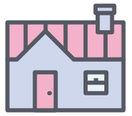
Electricity



Hydrogen

Process Heat

Multitude of End Users



Homes

Vehicles

Businesses

Concrete

Steel

Agriculture

Petrochemical

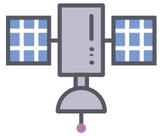
Oil & Gas

Data Centers

Energy Transitions

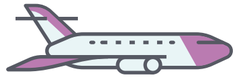
Maritime

District Energy



Space

Mining



Aviation

Rail

New Customers for Advanced Nuclear

Department of Defense Breaks Ground on Project Pele Microreactor

DoD broke ground on the Project Pele transportable microreactor project at Idaho National Laboratory, which could become one of the first advanced reactors to operate in the United States as early as 2026.

Office of Nuclear Energy

September 24, 2024

MILITARY

Nuclear micro-reactor capability could soon power US military bases

The Defense Innovation Unit (DIU) and the US Army are seeking advanced nuclear power solutions to enhance installation resilience.

Updated: Jun 08, 2024 11:30 AM EST

Interesting Engineering article

New Customers for Advanced Nuclear

Dow and X-energy advance efforts to deploy first advanced small modular nuclear reactor at industrial site under DOE's Advanced Reactor Demonstration Program

- Dow and X-energy sign joint development agreement to develop a four-unit Xe-100 facility at one of Dow's U.S. Gulf Coast sites
- United States Department of Energy makes Dow a subawardee under X-energy's Advanced Reactor Demonstration Program Cooperative Agreement
- Dow and X-energy to develop and license technology applicable to other industrial customers

Dow Press Release March 1, 2023

October 16, 2024

Amazon Invests in X-energy to Support Advanced Small Modular Nuclear Reactors and Expand Carbon-Free Power

X-energy Press Release October 16, 2024

Kairos Press Release October 14, 2024

New Customers for Advanced Nuclear

DIVE BRIEF

Utility drive article

Oklo inks 12-GW advanced reactor supply agreement with data center developer Switch

Initial deployments of the 50-MWe Aurora powerhouse reactor could begin as early as 2029, Oklo said today.

Published Dec. 18, 2024

HOME › NEWS › THE CRITICAL POWER CHANNEL

Equinix signs deal to procure up to 500MW of nuclear power from Oklo reactors – makes $25m pre-payment

Equinix makes first SMR deal for a colocation company

April 05, 2024 By: Dan Swinhoe Have your say

Data Center Dynamics article

Oklo Signs LOI to Supply 50 Megawatts of Power to Diamondback Energy

April 8, 2024

- **Oklo and Diamondback Energy signed a non-binding letter of intent (the "LOI") to collaborate on a 20-year Power Purchase Agreement.**
- **Diamondback aims to use Oklo's Aurora powerhouses to power its operations in the Permian Basin.**

Oklo Partners with Wyoming Hyperscale to Deliver 100 Megawatts to its Data Centers

05/23/2024

- Oklo and Wyoming Hyperscale signed a non-binding letter of intent to collaborate on a 20-year Power Purchase Agreement.
- Wyoming Hyperscale will aim to use Oklo's Aurora powerhouses to power a state-of-the-art data center campus.

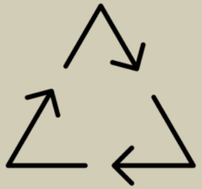
Oklo press releases

The OKLO Model

Oklo owns and operates the Aurora

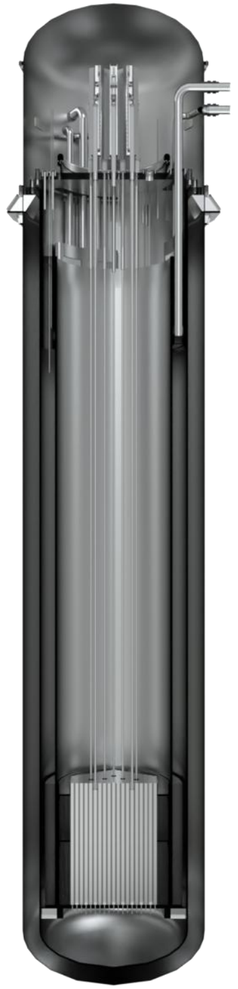
Oklo offers long-term Power Purchase Agreements

Competitive pricing and terms



Lifecycle management of plant and fuel

Oklo's Aurora Powerhouse



Reactor Design Features

- **Reaction Type:** Fast Fission
- **Reactor Sizes:** 15 MW, 50 MW
- **Fuel:** Metal Fuel Alloy, High Assay Low Enriched Uranium or recycled spent nuclear fuel
- **Coolant:** Liquid Metal Sodium
- **Safety Systems:** Inherent and Passive
- **Operating Temperature:** 450+ C
- **Operating Pressure:** Atmospheric
- **Power output license:** 40+ years

Product Benefits

Small and Simple Design

Low Cost

Proven Technology

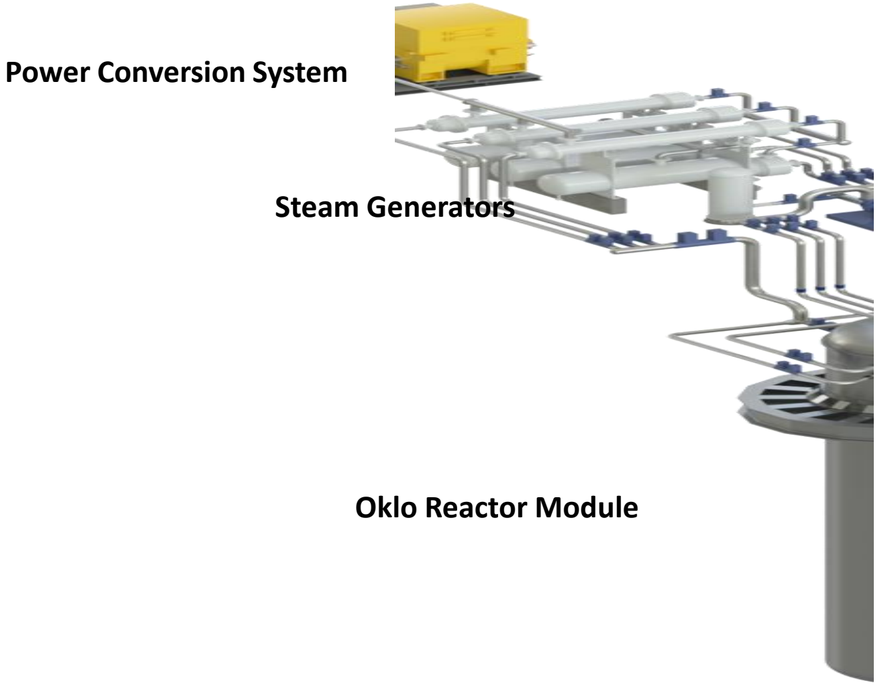
Inherently Safe

24/7 Clean Power

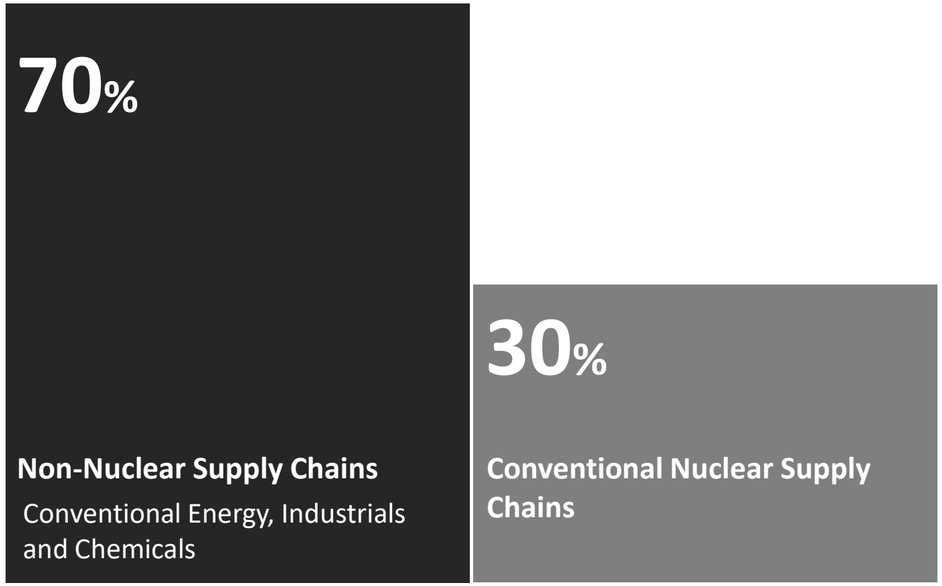
<18 months Installation

Aurora powerhouses are designed to maximize the use of materials, parts, and labor from non-nuclear supply chains

Major Powerhouse Components



Powerhouse Supply Chain Breakdown (% Components)[1]



Existing non-nuclear supply chains are deep, reliable, highly scalable, and cost effective and can be utilized without compromising product quality or safety

(1) Percentages represent the number of components sourced, not dollar values. Based on internal estimates.

Fast Neutrons

Fast spectrum neutrons enable us to unlock more energy from nuclear fuel

Fast neutrons also allow fast reactors to recycle their own used fuel and the used fuel of other reactors

Oklo is pursuing a commercial-scale recycling facility

Recycling is expected to produce fuel more cheaply than fresh high assay low enriched uranium (HALEU)

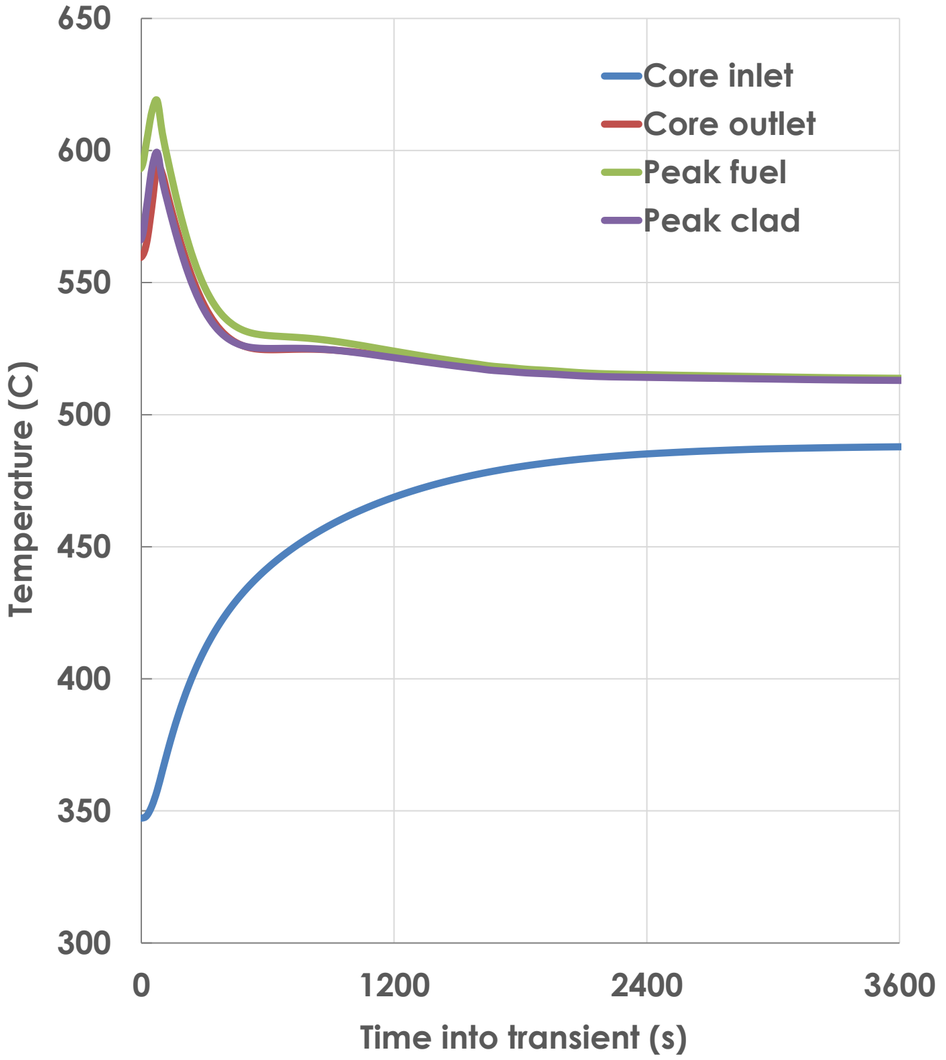
Loss of Heat Removal

Loss of heat removal causes reactor to heat up

Reactor power decreases as system heats up and shuts down in under 30 minutes

Peak fuel temperature increases by about 30 C

Large thermal margins



Aurora Powerhouse Deployment at Idaho National Laboratory (INL)

First Powerhouse to be deployed at INL near Idaho Falls, Idaho, USA

Nuclear Regulatory Commission (NRC) approved reactor

Pilot-scale fuel fabrication in building MFC-798 at INL

Oklo has been granted access to 5 metric tons of HALEU being produced from processed EBR-II spent fuel

Scalable technology provides Oklo with a broad and diverse customer base and growing project pipeline

Data Centers

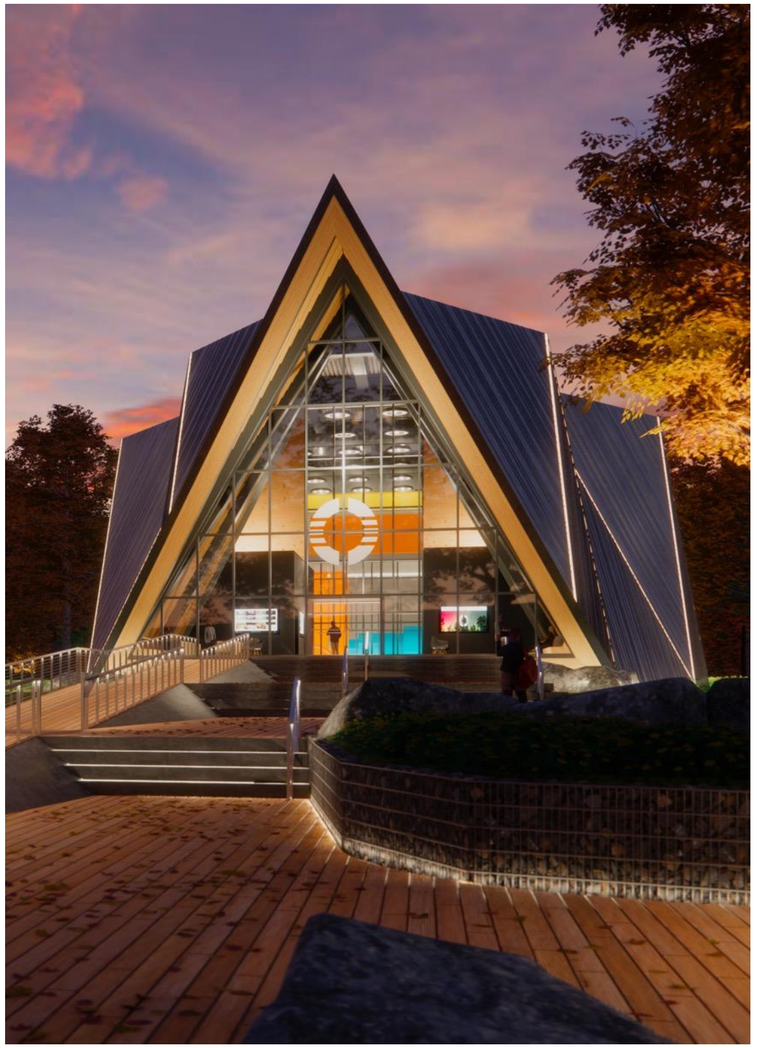
Defense

Oil and Gas

Real Estate

Industrials

Utilities




Questions?
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The Aurora Powerhouse