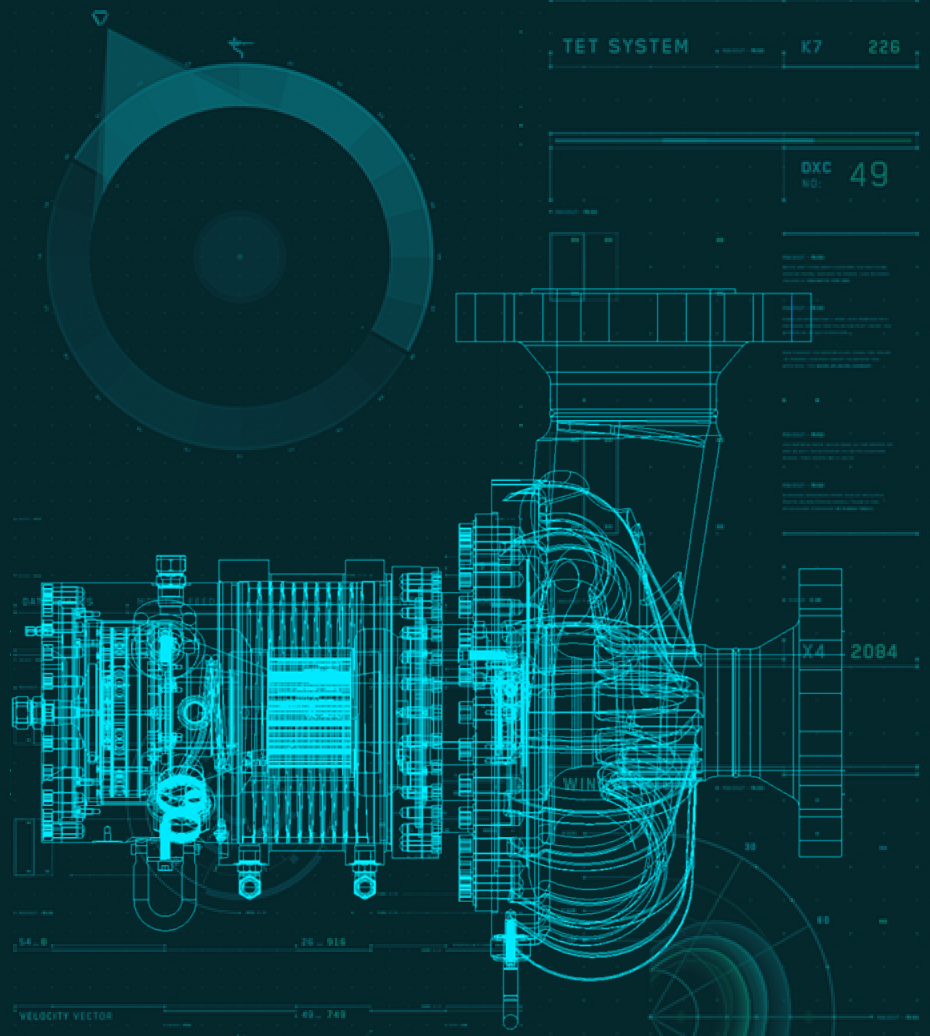


RADIANT

Building Earth's first mass-produced nuclear reactor.

```
# Constants
reactivity = 0.005  # Reactivity (dimensionless)
beta = 0.0065  # Delayed neutron fraction (dimensionless)
lambda_d = 0.08  # Decay constant of delayed neutrons (1/s)
rho_temp_coeff = -0.0001  # Temperature coefficient of reactivity (1/K)
initial_temp = 300  # Initial temperature of the reactor (K)
heat_capacity = 10000  # Heat capacity of the reactor core (J/K)
power_initial = 1e6  # Initial power output (W)
time_step = 0.1  # Time step (s)
time_end = 500  # End time of the simulation (s)
```

Environmental Review and Site Selection

September 3rd, 2025, 9:00 – 9:40AM

Agenda

Topic
Factory Siting Update
Categorical Exclusions
Q&A

Radiant Industries, Inc.

- **Team:**
  - ~100 employees
  - former SpaceX, Naval Reactors, and National Labs
- **Investors:**
  - Andreessen Horowitz (a16z)
  - DCVC
  - Founders Fund
  - Chevron
  - IQT, and other leading capital providers
- **Headquarters:**
  - 38,000 ft^2 facility in El Segundo, California.
- **Factory:**
  - 350,000 ft^2 facility capable of 50 new reactor units/yr
  - Location announced Fall 2025
- **Commercial Readiness:**
  - Competitively selected by DOE as 1st nuclear reactor design to be tested in DOME in Spring 2026
  - Executed first-ever agreement to deploy mass-manufactured reactor at an AF base
  - Executed agreements with commercial customers for > 20 reactors

Passive Cooldown Demonstration: September 17, 2024

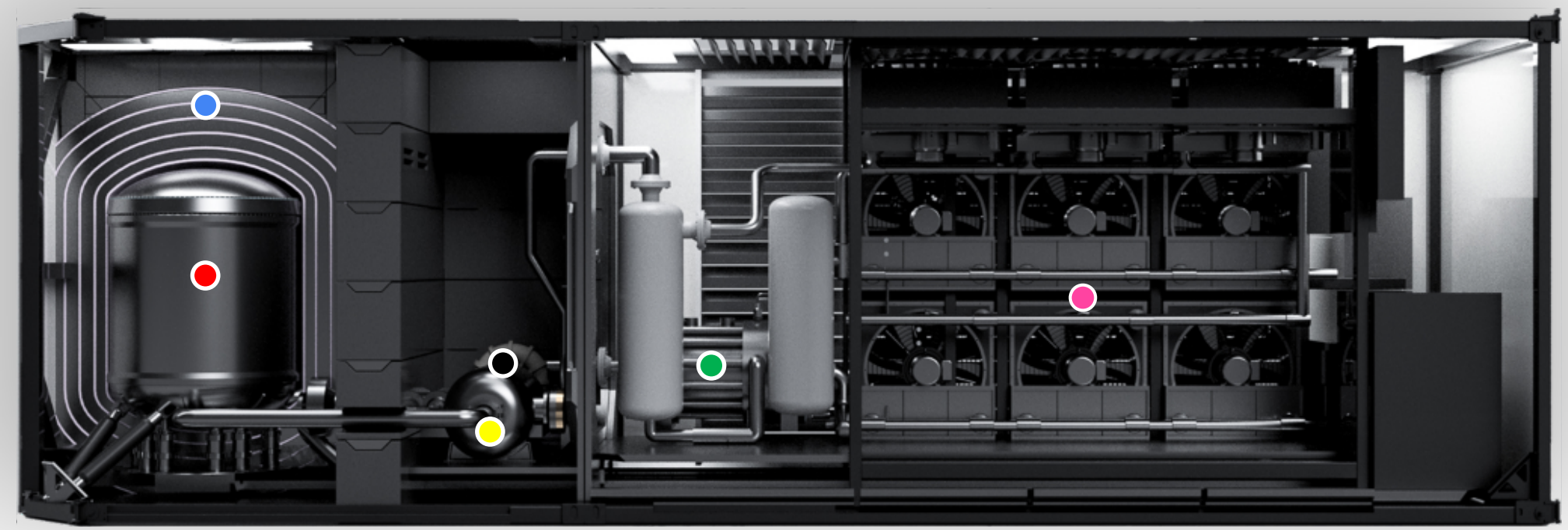
Radiant development is 95% funded by private capital

a16z · USV Union Ventures Square · DC Data Collective · FOUNDERS FUND · Chevron · iqt

- An experienced team backed by the world's best investors -

Testing at DOME in 2026.
On track for delivery in 2028.

Nuclear / Heat Generation | Electricity Generation



Nuclear reactor splits uranium atoms which generates heat

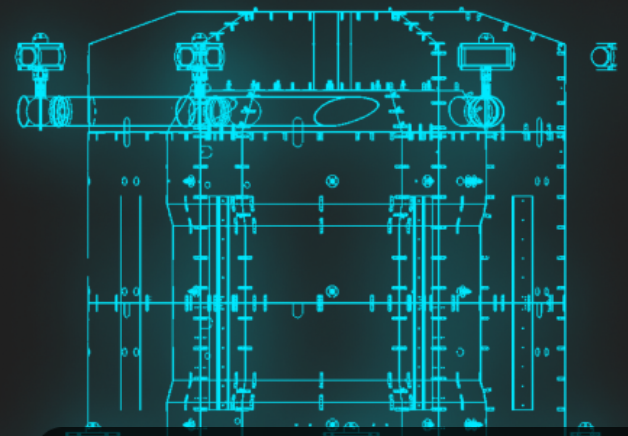
Pumped helium transfers heat to spin turbine

Turbine generates electricity

Core shielding allows for shipment back to factory

Safety by Design

Inherent safety features ensure that disaster is never an option.



Meltdown-proof

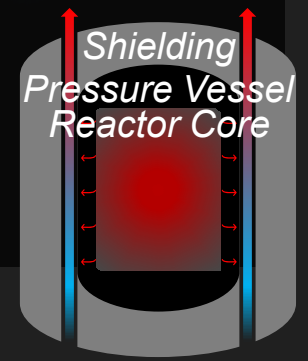
The protective coating of TRISO fuel tolerates 1,600C, preventing the release of radioactive material.

Leak-safe

Helium gas coolant does not become radioactive and safely dissipates into the atmosphere in the event of a leak.

Power failsafe

In the event of loss of power, reactor simply shuts down and cools-off.



A Product Designed for Customers

Kaleidos is designed as a product for commercial and military customers who want something easy and resilient.

1 MW Electric, 1.9MW Heat

Rapid Deployment

Mass-Produced

Shipped By Land, Air, Sea

5 Years Per Core, 20 Year Lifespan

Proposed 4x1MW (4MW) Kaleidos Installation

Kaleidos – 1MW nuclear in a box.

Weeks to Install

Up to 4 units for 4MW on 4,000 square feet of space. Fence and shielding box allow public-adjacent operation.

Flexible Generator

Can operate at down to 30% electric output to conserve fuel. Co-generates 1.9MW heat at 80C.

Zero On-Site Waste

Reactors return to factory for refueling every 5 years. Ships from factory by land, sea, or air.

Resilient and Clean

72,000 tons of CO2 avoided over the 20-year reactor life. Site returns to greenfield within 24 months.

Portable, mass-produced microreactors

Environmental Considerations

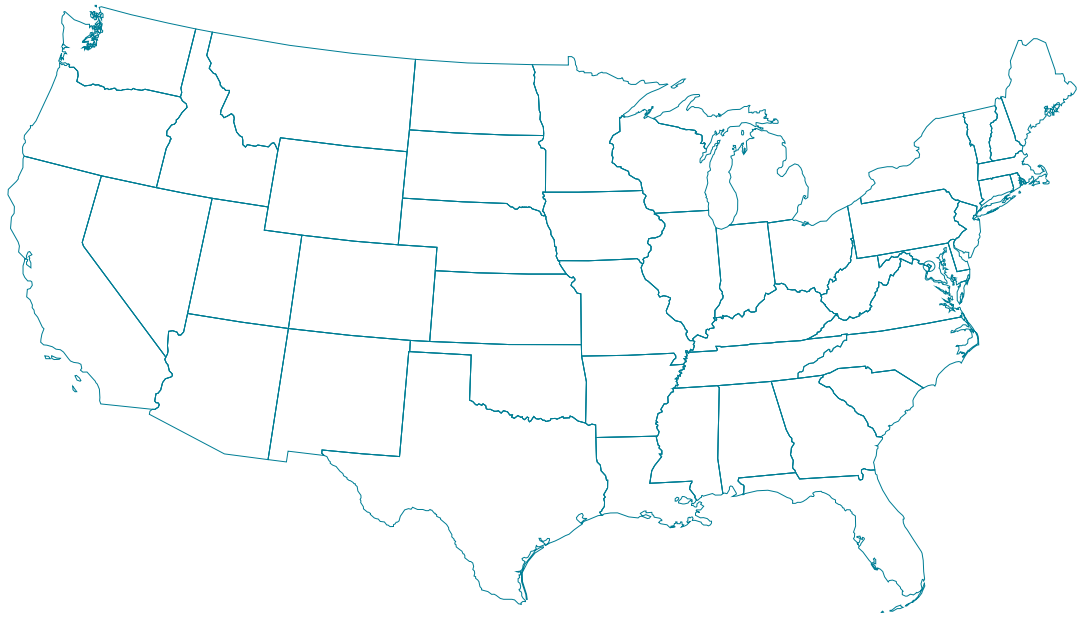
A factory-fabricated, transportable nuclear reactor with passive safety features

- Factory Operations
- Unit Operations
- Transportation

Leveraging categorical exclusions where possible – forthcoming white paper on categorical exclusions.

Microreactors typically produce up to 20 MW_e

Site Selection

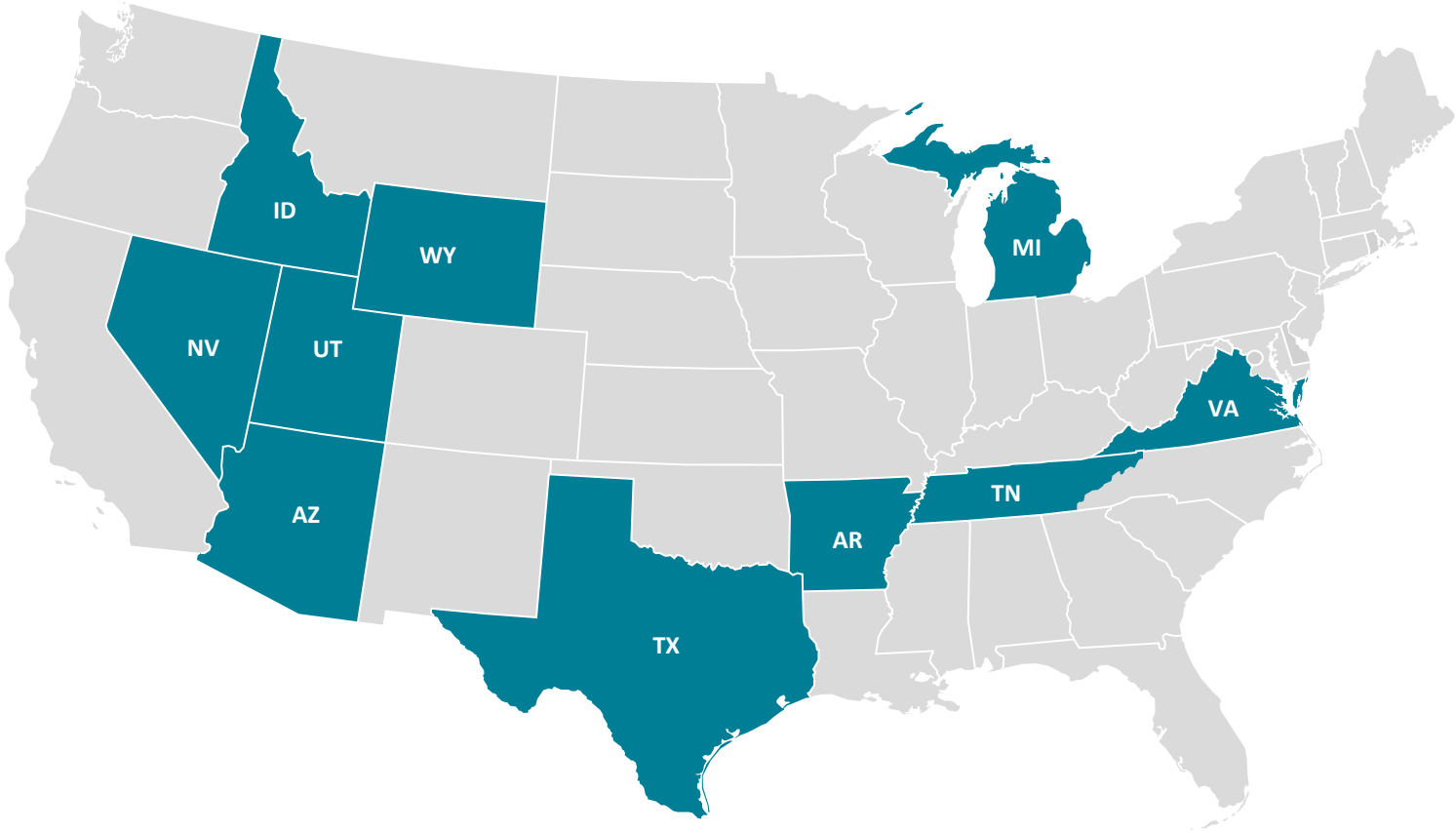


Site Selection

We've evaluated 10 states for our factory siting.

Initial Approach

- Identified states with an interest in nuclear
- Worked with Economic Development Councils to identify specific sites
- Met with local and state political leaders
- Identified local colleges
- Hired environmental consultant to complete Critical Issues Analysis at a subset of sites.

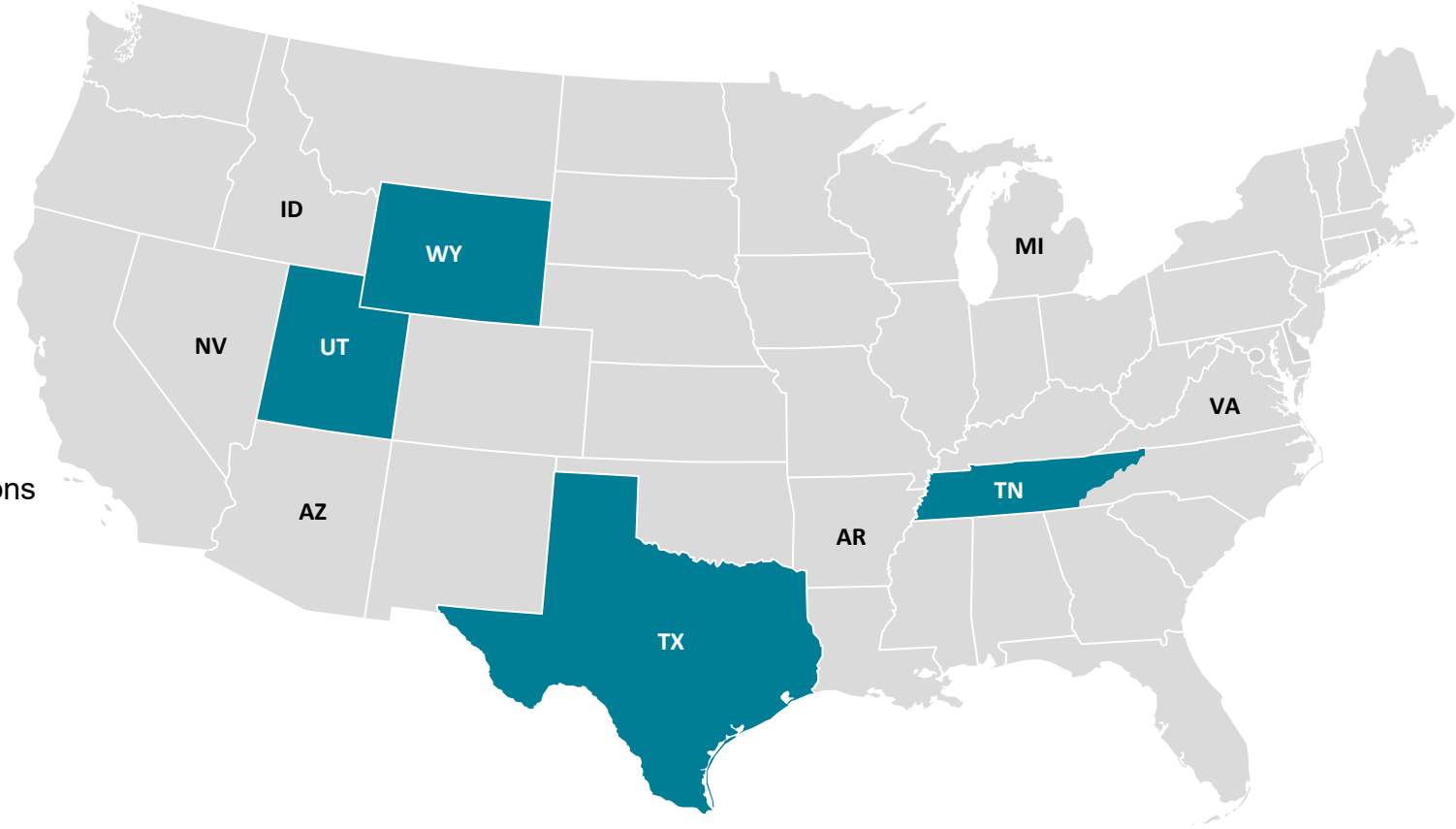


Site Selection

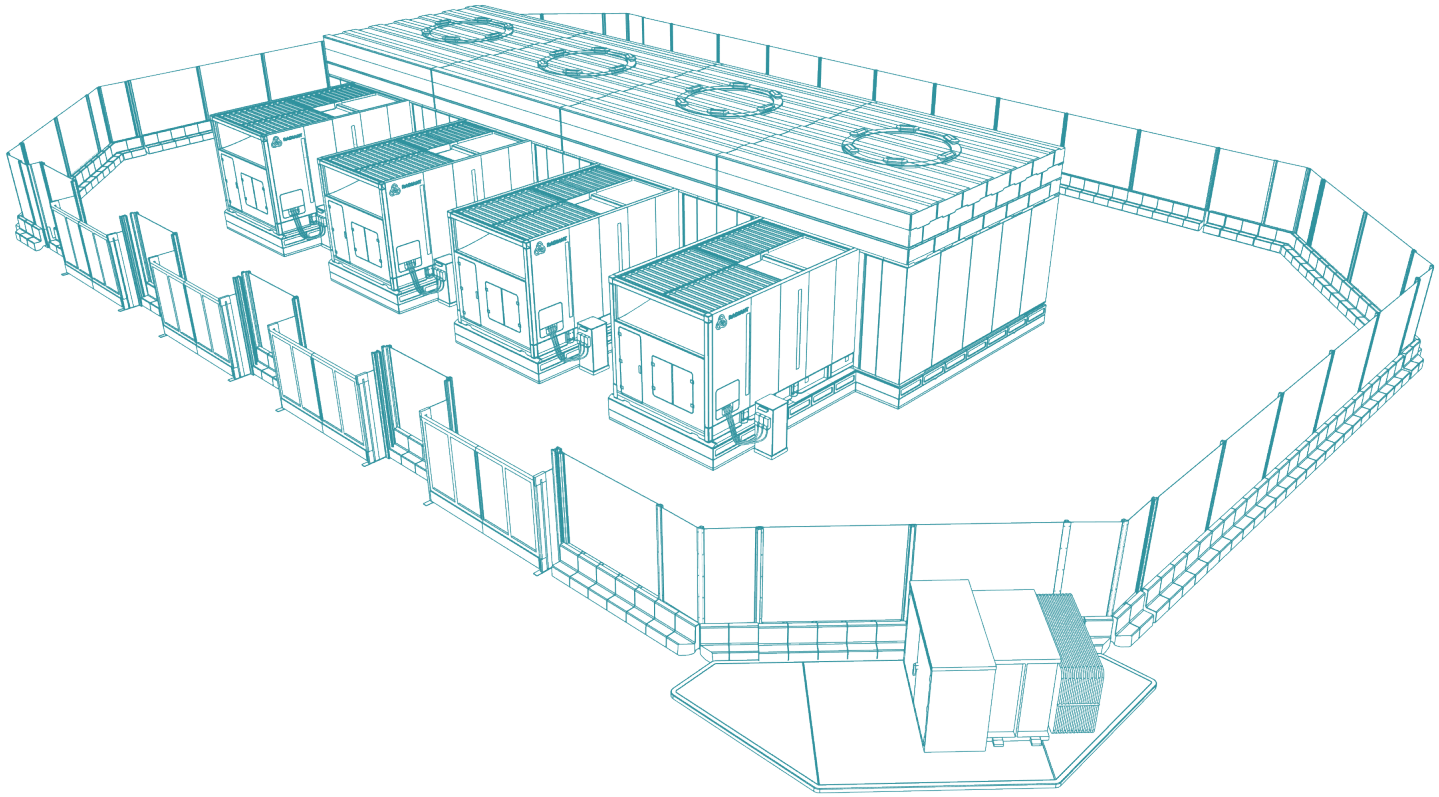
We down selected to 4 states using a variety of criteria.

Down Selection Approach

- Energy driven communities
- Strong community support
- Population densities
- Utility & transportation infrastructure
- Workforce availability
- Avoiding sensitive environmental resources and conditions
- Access to construction resources
- Minimizing conflict with other major projects
- Long term community outlook
- Connectivity to future commercial reactor markets
- Education, Housing Market, Recreation



Thank You




RADIANT