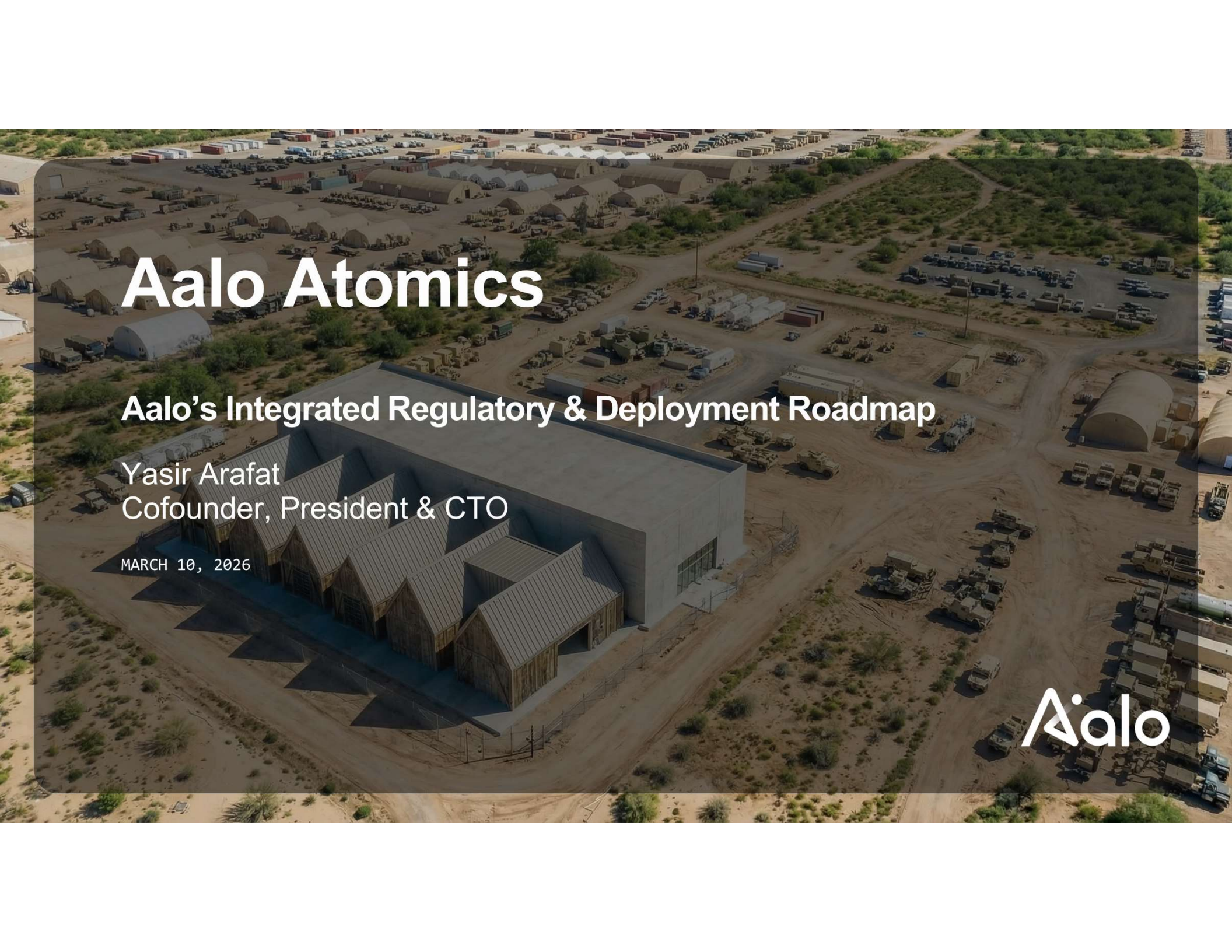




Aalo Atomics

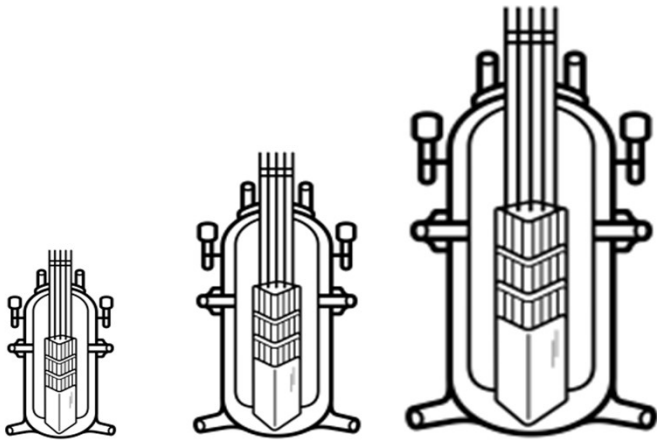
Aalo's Integrated Regulatory & Deployment Roadmap

Yasir Arafat
Cofounder, President & CTO

MARCH 10, 2026

Aalo

Economies of Scale



First Atomic Age

135

Commercial Reactors
Built



1 GW Nuclear



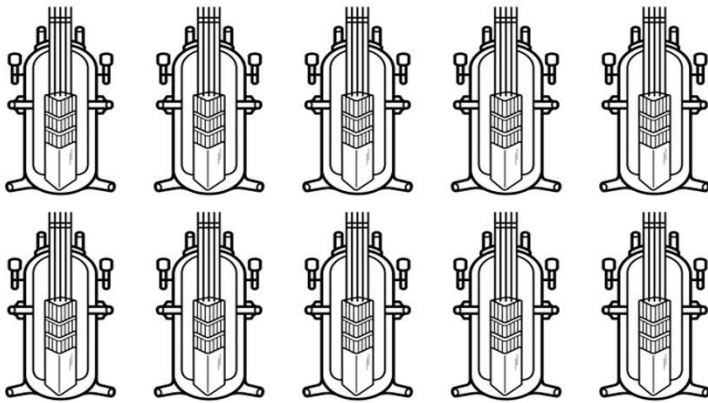
10+ years

1 GW Datacenter



~3 years

Economies of Numbers



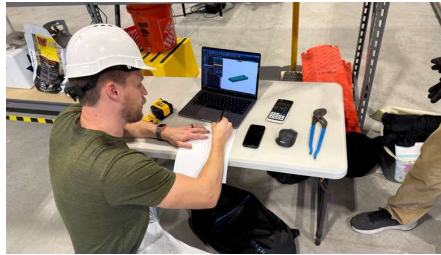
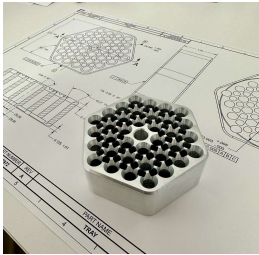
Second Atomic Age

1+ GW

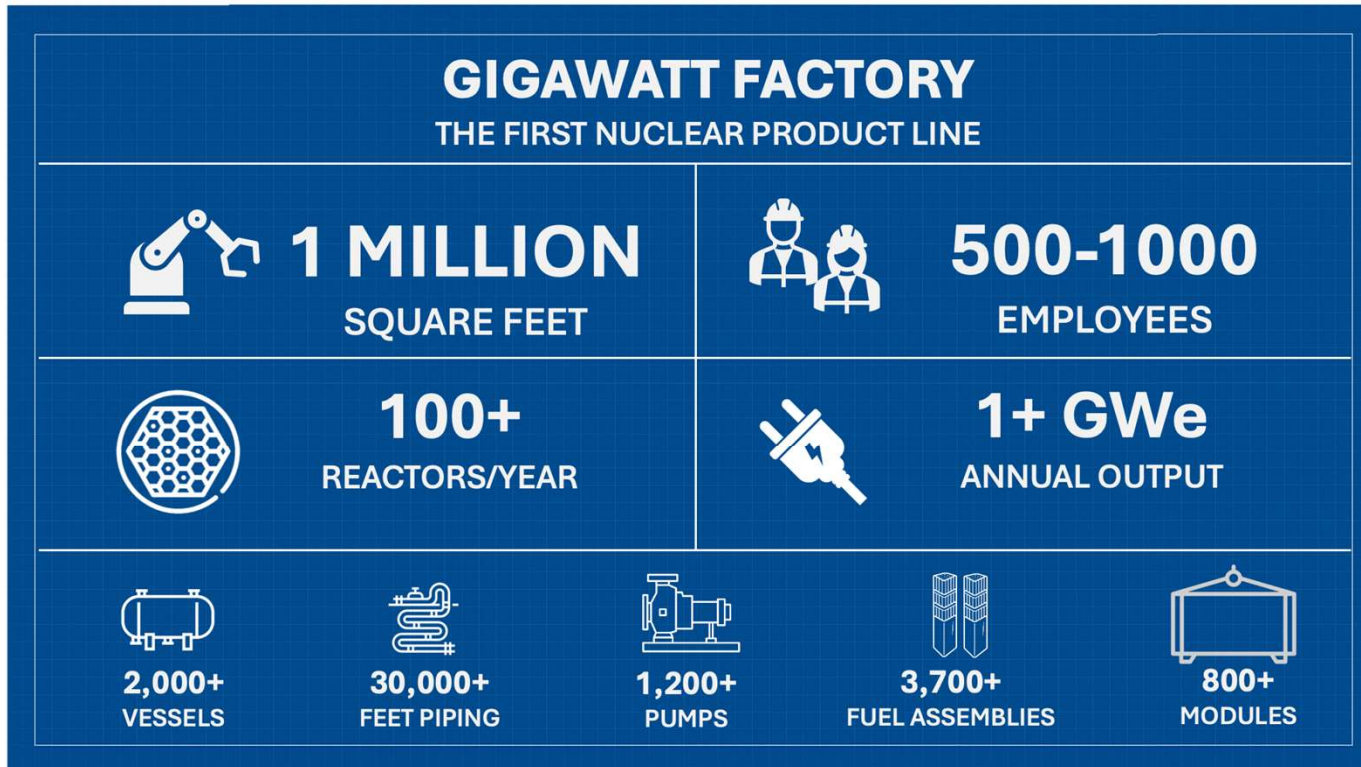
Every Year



Aalo is Making Mass-Manufactured Nuclear Reactors a Reality



Launch GigaWatt Factory in 2028



U.S. Manufacturing

Onshore Supply Chain

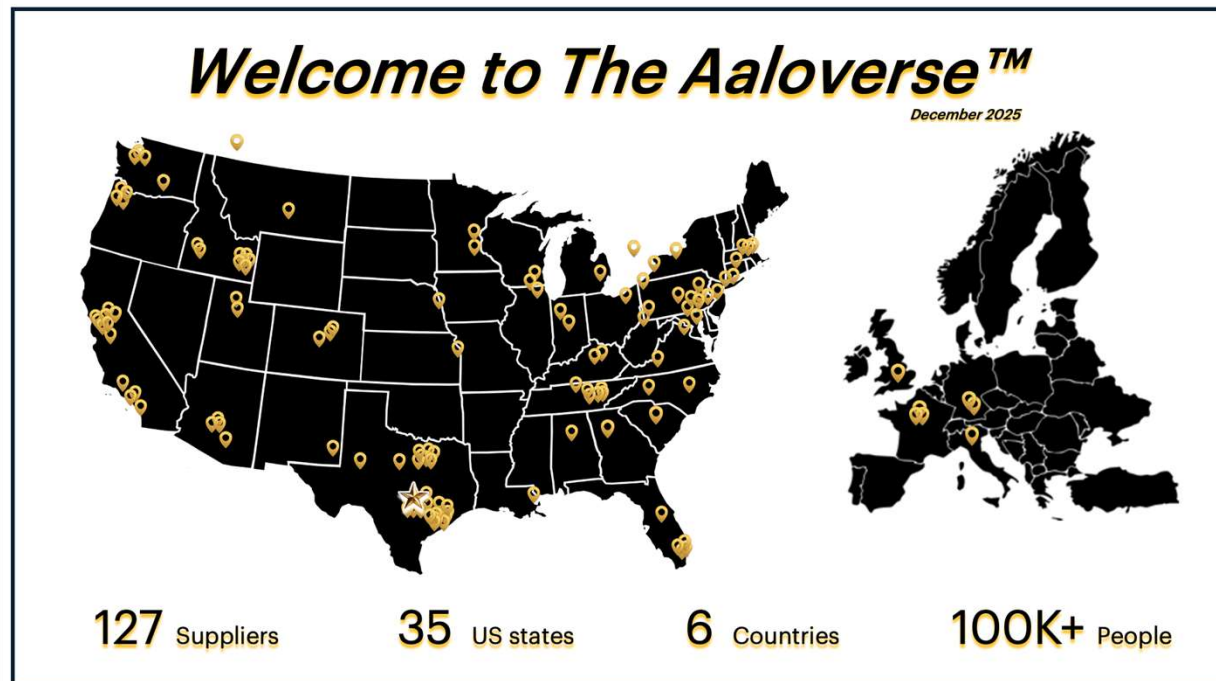
Resilient Power

U.S. Leadership

NOAK DEPLOYMENT PROVIDES AN OPPORTUNITY TO ONSHORE THE CRITICAL SUPPLY CHAIN IN THE U.S.



Supply Chain Readiness



Critical Materials

Aalo's MPP utilizes SS316 for the majority of the sodium-wetted equipment, carbon steel, and concrete for structural, sodium for coolant, graphite for moderator, boron carbide for neutron absorbers, and UO2 fuel.

90% U.S. Sourced

90% of our critical parts are sourced from the US. For additional items that cannot be sourced in the US, Aalo plans to purchase from only DFARS approved countries

THERE IS NO "UNOBTAINIUM" IN AALO'S DESIGN. ALL HARDWARE CAN EITHER BE PROCURED COMMERCIALY OR MADE IN-HOUSE



**Aalo aims to build
1GW+ nuclear by end
of 2030**



Company Overview

Founded, 2023

- Mass-manufactured nuclear power plants.
- Purpose-built for large onsite loads such as data centers and military installations.

140 Employees

- Grew from 2 employees 2.5 years ago.
- Driven and mission-aligned team.
- Diverse backgrounds spanning nuclear, manufacturing, and finance.

\$136M+ Raised

- Seed: \$6M
- Series A: \$30M
- Series B: \$100M
- Post-Series B SAFE: unannounced

Built Pilot Factory

- Austin, TX facility opened 2025
- Welding, Machining, Metrology
- 40,000 sqft
- Current work on siting a larger 1,000,000 sqft factory, move in 2027.



Factory HQ, Austin, TX



Engineering, Idaho Falls, ID

MASS-MANUFACTURED NUCLEAR PLANTS FOR DATA CENTERS & U.S. MILITARY BASES

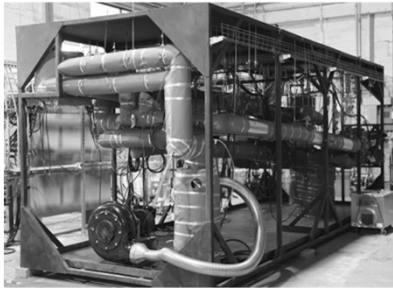


Technology Maturation Roadmap

TRL 6

Q1,26

100% Complete



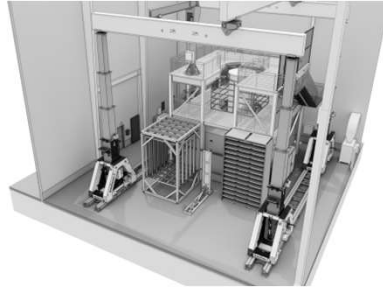
Sodium Test Loop

Component
Qualification Testing

TRL 7

Q2,26

75% Complete



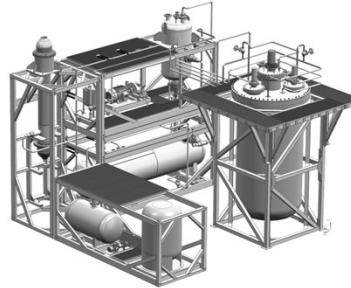
Critical Test Reactor

1st Nuclear
Prototype

TRL 7+

Q3,26

65% Complete



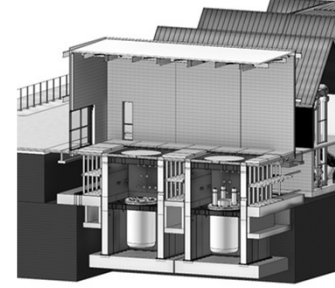
Aalo-0

Full-scale Non-
nuclear Prototype

TRL 8

Q1,27

20% Complete



Aalo-X

Functional Pilot

TRL 9

Q3, 28

0% Complete



Aalo Pod

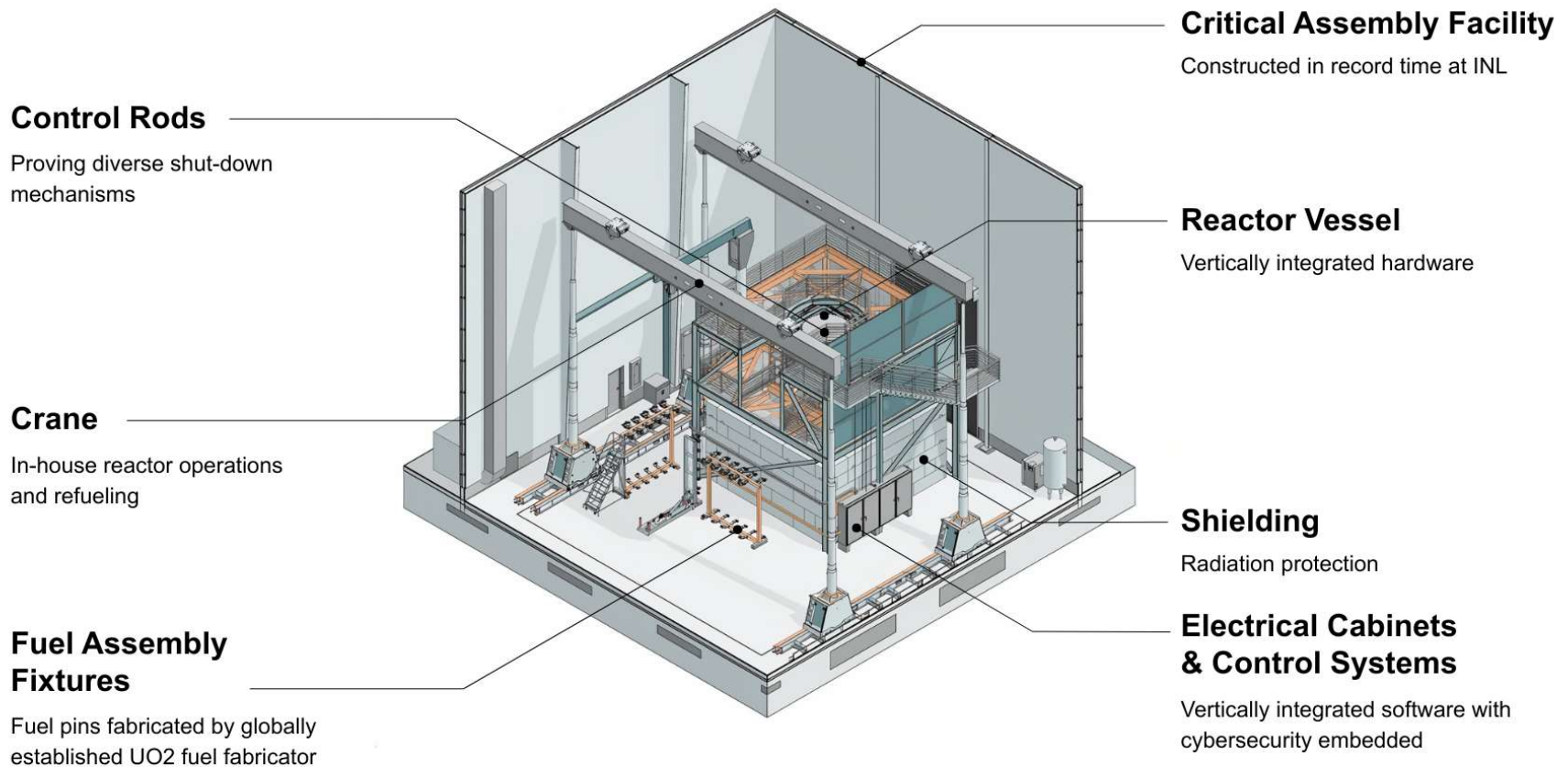
1st Commercial

By end of 2026, Aalo plans to become the U.S. experts in sodium powerplant technology



Project FirstLight: Critical Test Reactor

Proving Nuclear Core | Accelerating Commercial Deployment

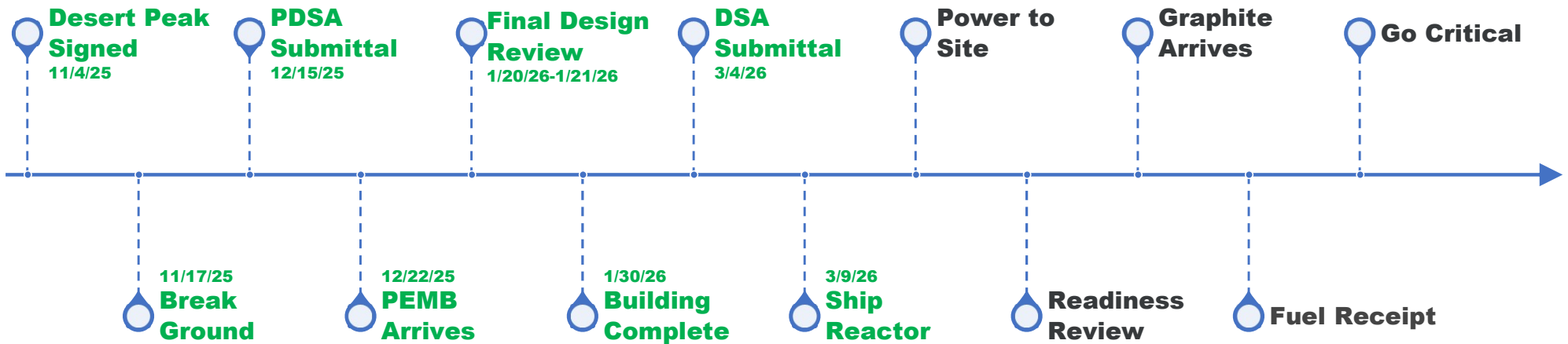


Reactor Pilot Program



U.S. DEPARTMENT OF
ENERGY

Office of
NUCLEAR ENERGY



Aalo

Aalto-X CAF

Accelerating Aalto's Commercial Deployment

Control Room

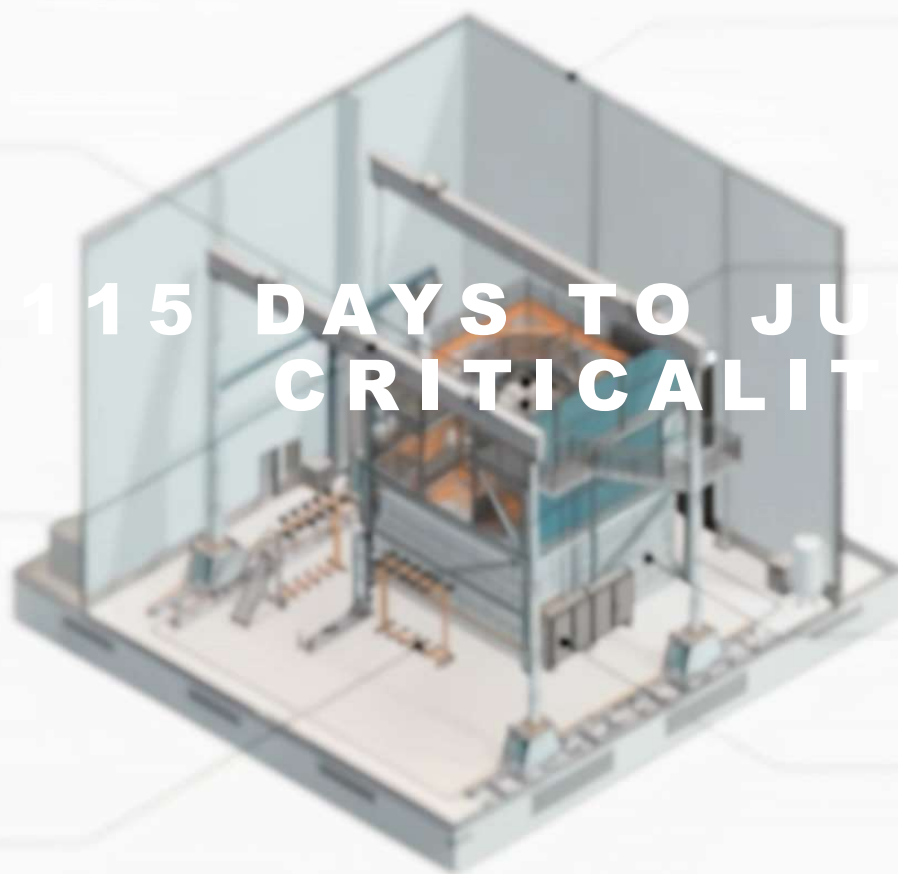
Providing Advanced Data and
Mechanisms

Crane

Enabling the Reactor Vessel
Operations and Assembly

Fuel Assembly Fixtures

Design engineering solution
with 100 tonnes



Critical Assembly Facility

Construction of approximately 200

Reactor Vessel

Advanced engineering solution

Shielding

Neutron protection

Electrical Cabinets & Control Systems

Highly integrated solution with
advanced engineering

115 DAYS TO JULY 4TH
CRITICALITY

Aalo-X Campus Enabled By DOE Reactor Pilot Program

Aalo-X Full-Power Reactor & Turbine Buildings

FOAK Full Power Plant (Construction began Nov. 2025)

Critical Assembly Facility (CAF)

Proving Nuclear Core
Criticality by July 4, 2026

Aalo-0

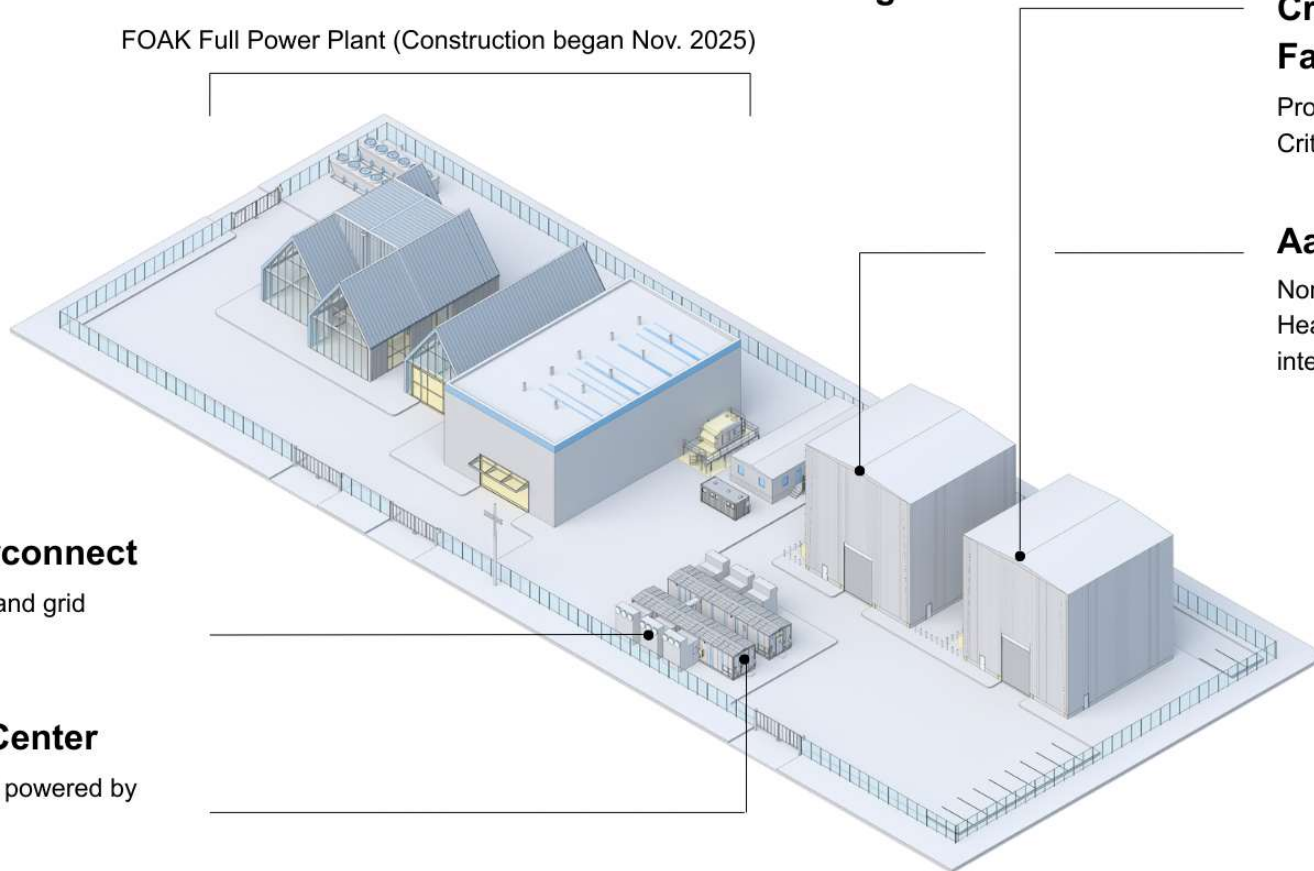
Non-nuclear Sodium-to-Steam
Heat Exchange and data center
integration prototyping

Electrical Interconnect

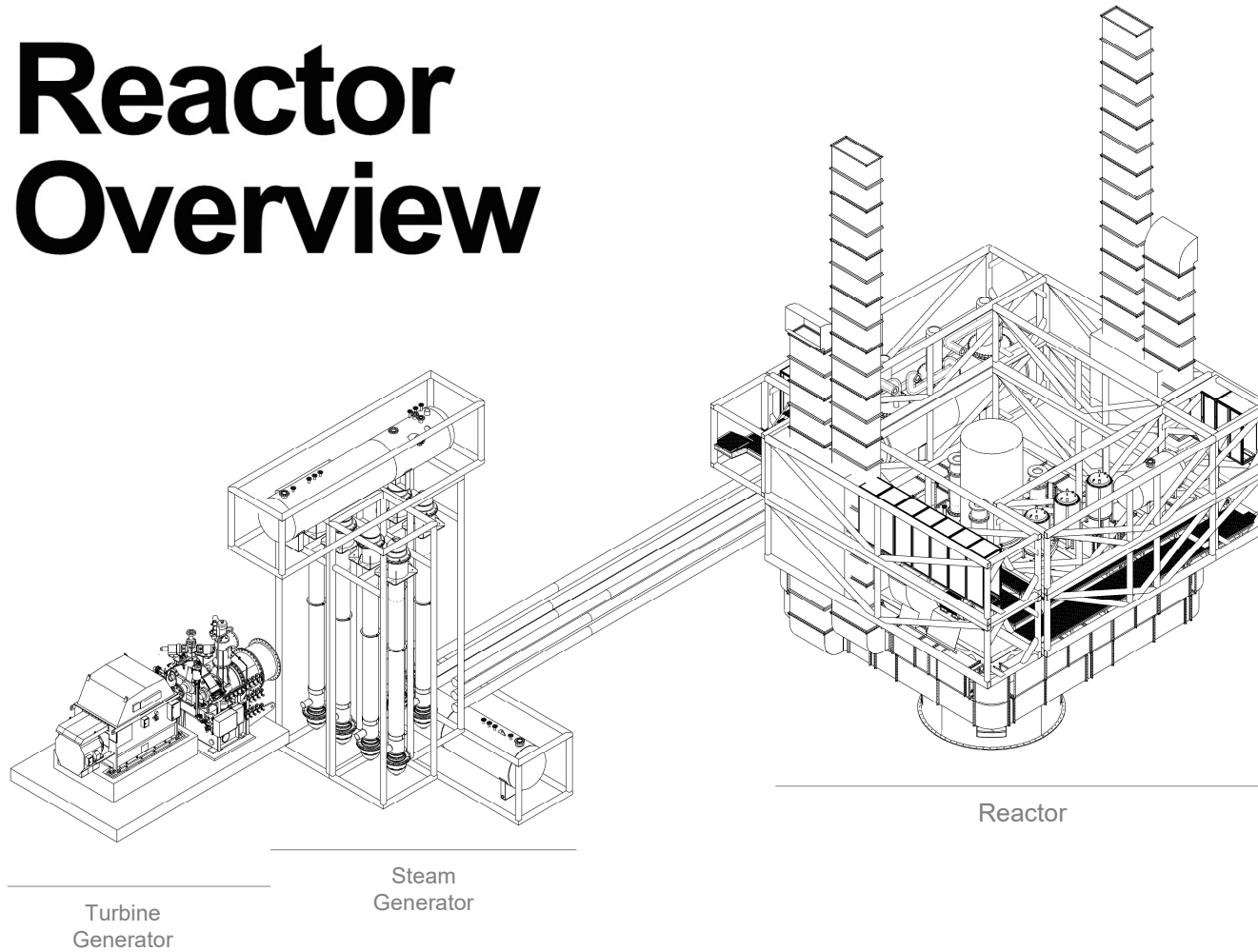
Testing switchgear and grid
connections

Mobile Data Center

Crusoe Spark MDC powered by
Aalo-0 in 2026



Reactor Overview



Sodium-cooled

Graphite Moderated

8% $^{235}\text{UO}_2$ Fueled

Passive Safety

Factory DFMA

AALO REACTOR DESIGN IS TECHNO-ECONOMICALLY OPTIMAL, WITH HIGH TRL AND MRL.

Aalo Pod

Power	50 MWe
Reactor Building Footprint	25,400 sqft
Annex Building Footprint	6,897 sqft
Generator Buildings Footprint	22,466 sqft
Ultimate Heat Rejection	Ambient Air
Site Footprint	2.5 acres
Plant Design Lifetime	40 years
# Operators Per Shift	2
Target Refueling Outage	3-4 weeks / reactor outage

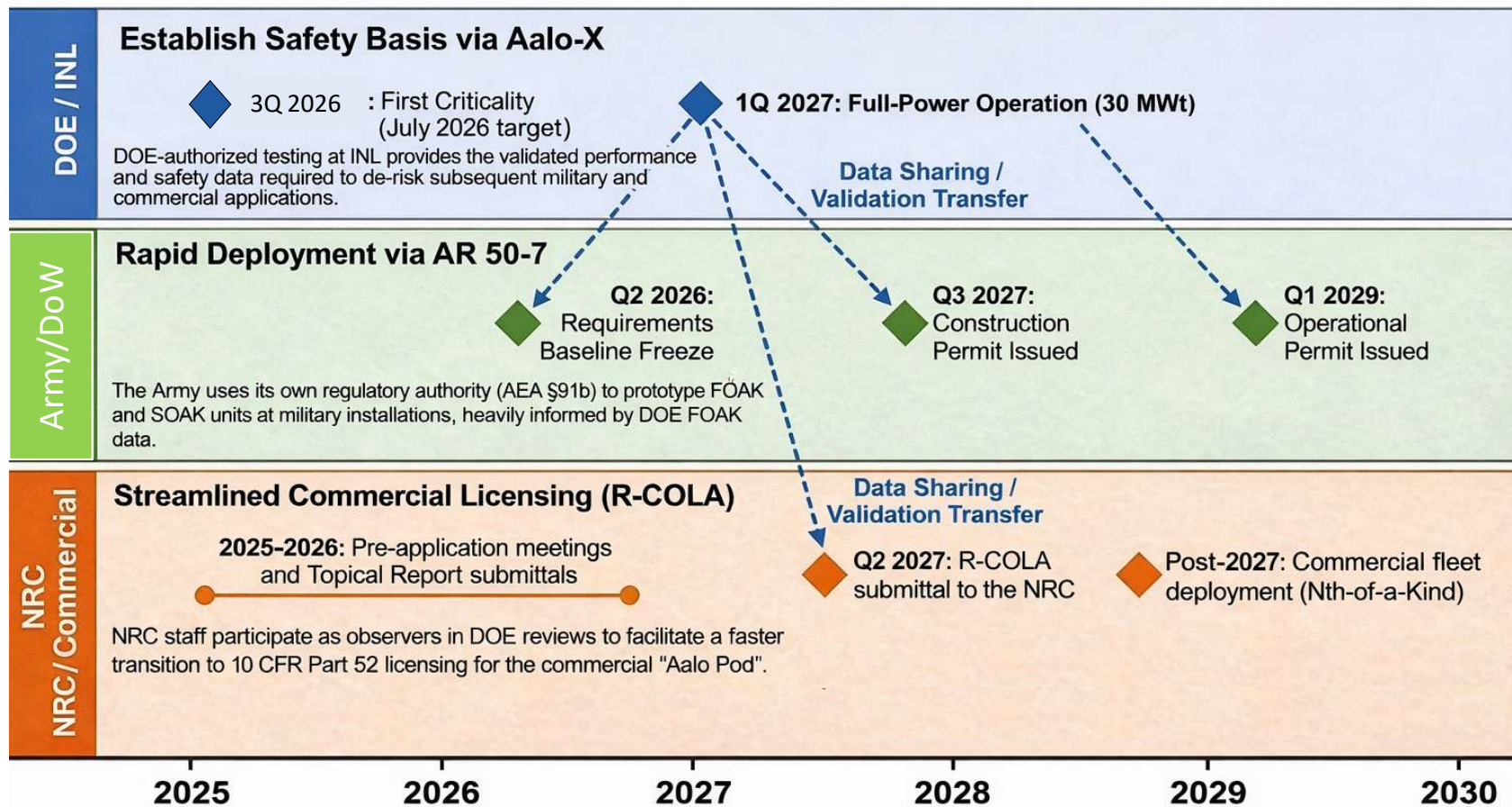


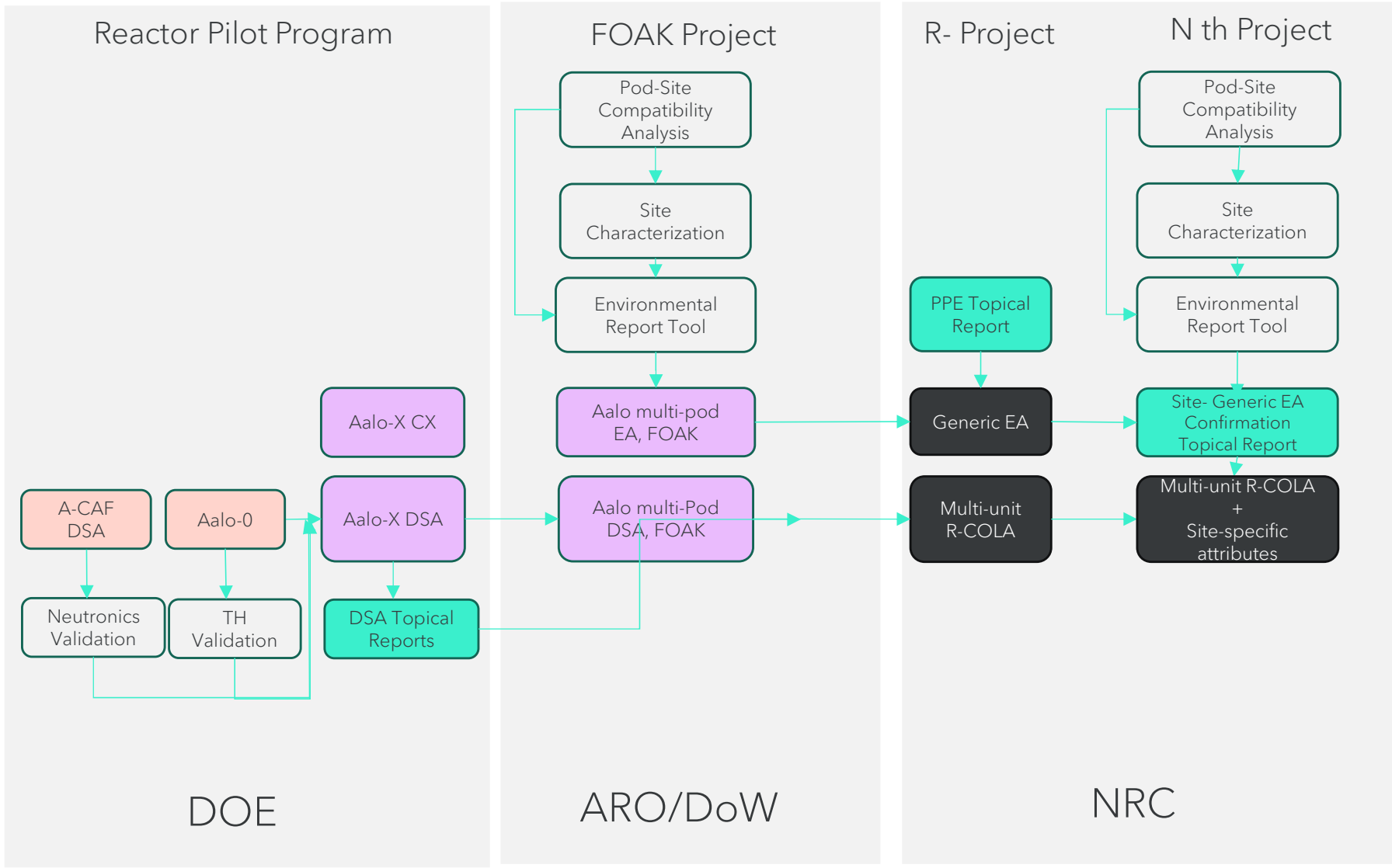
Availability through Redundancy

- 5 reactors
- independant steam generators
- shared control room
- shared refueling machine

PURPOSE-BUILT FOR APPLICATIONS WHERE HIGH AVAILABILITY IS CRUCIAL E.G. DATA CENTERS AND U.S. MILITARY BASES

Integrated Regulatory & Deployment Roadmap





Thank You

Panel Session

YASIR@AALO.COM

Aalo