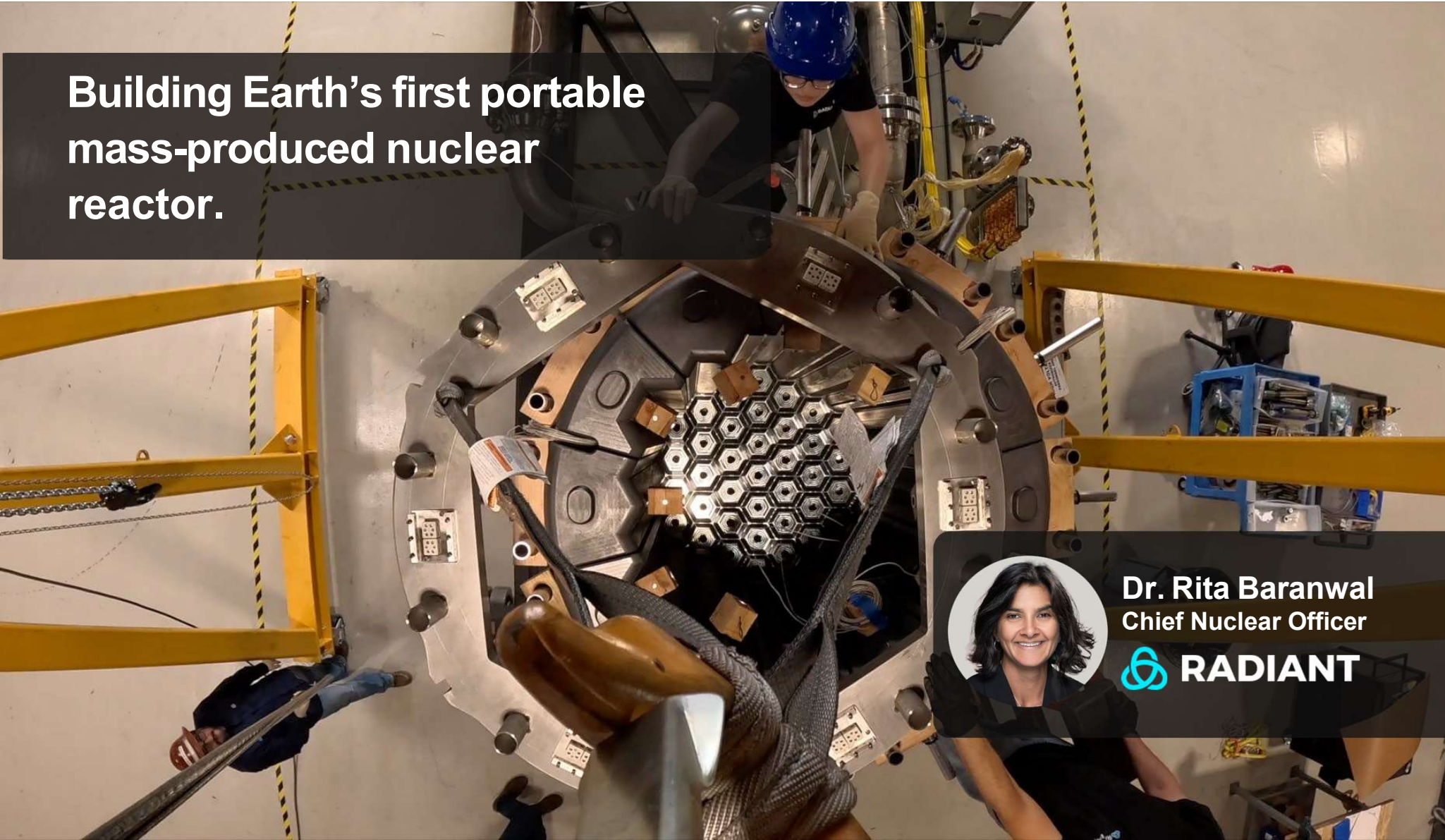


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Building Earth's first portable mass-produced nuclear reactor.



Dr. Rita Baranwal
Chief Nuclear Officer



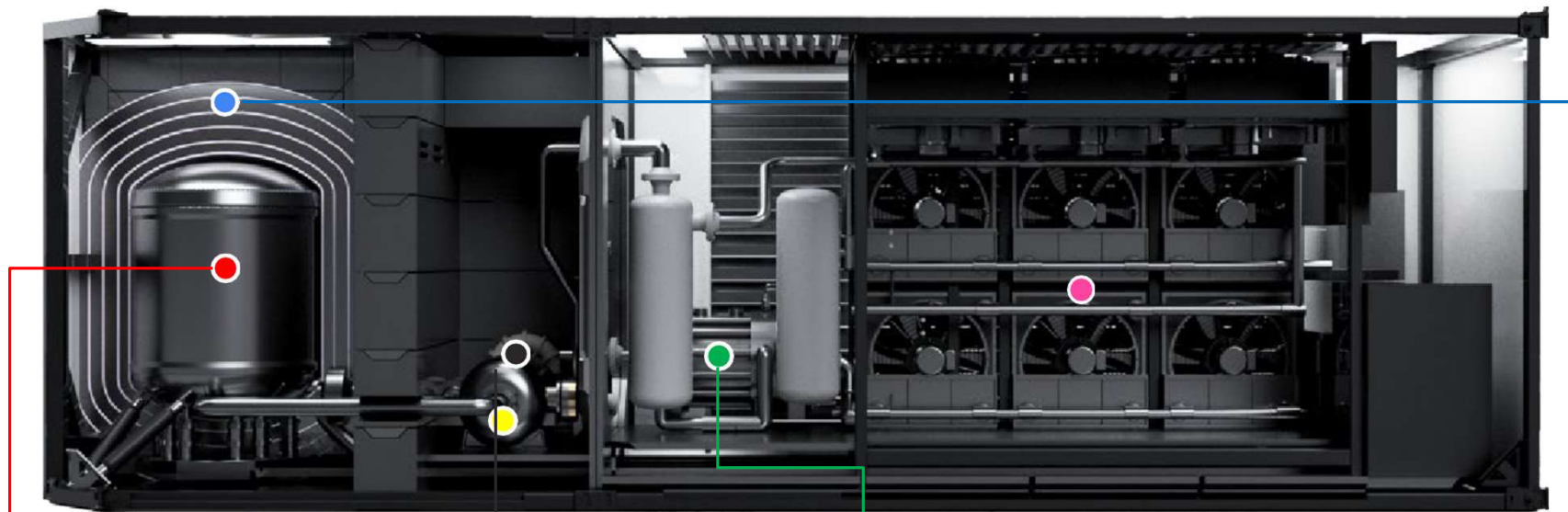
RADIANT

March 2026

The Kaleidos Nuclear Generator: Megawatt in a Box

Nuclear / Heat Generation

Electricity Generation



● Shielding

● Reactor Core

● Helium Circulator

● Primary Heat Exchanger

● Turbine Alternator Compressor

● Heat Sinks

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



Kaleidos: Megawatt in a box

< 48 hrs to Install

- Fence and shielding allow public-adjacent operation
- Built somewhere else
- Arrives overnight; set up in < 48 hrs
- He coolant ensures no risk to customer site
- Spent fuel is returned to factory

Flexible Generator

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

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 20-year reactor life
- Site returns to greenfield within 24 months



NRC Application Process

R-50 Licensing

- Completed environmental assessments
- Engaging with local agencies for emergency planning
- Completing necessary site planning & design to support application
- Submitted Part 70 license in Feb. 2026

Reactor Licensing

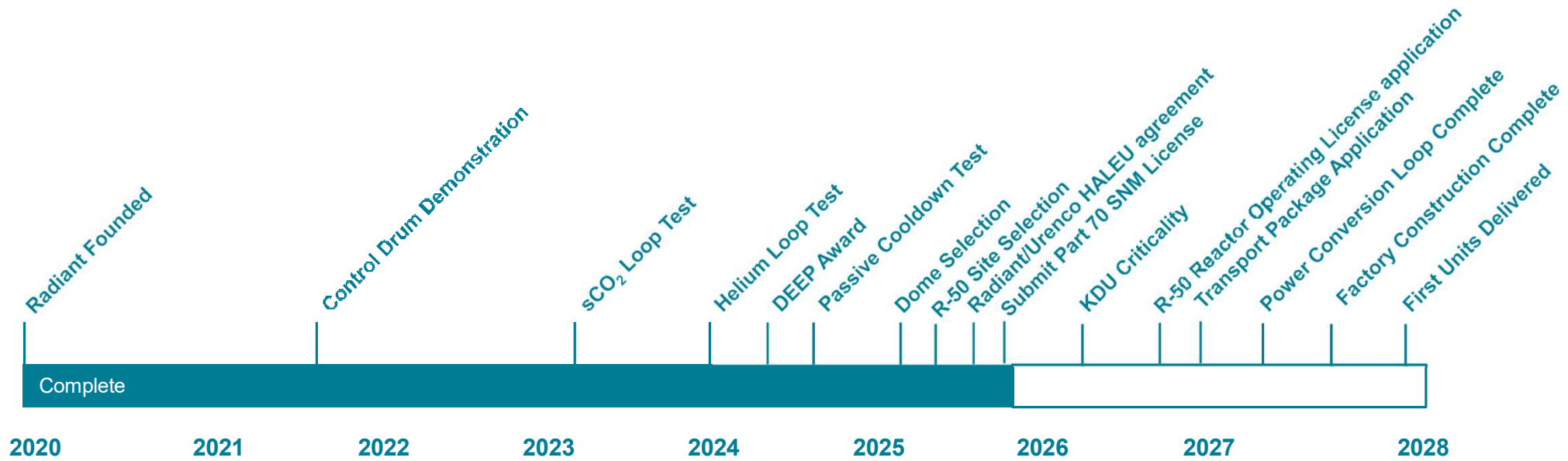
- Manufacturing License
- Part 50/52 license for operational testing at R-50 site
- Part 50/52 license for operation of units at remote sites

Other Licensing Efforts

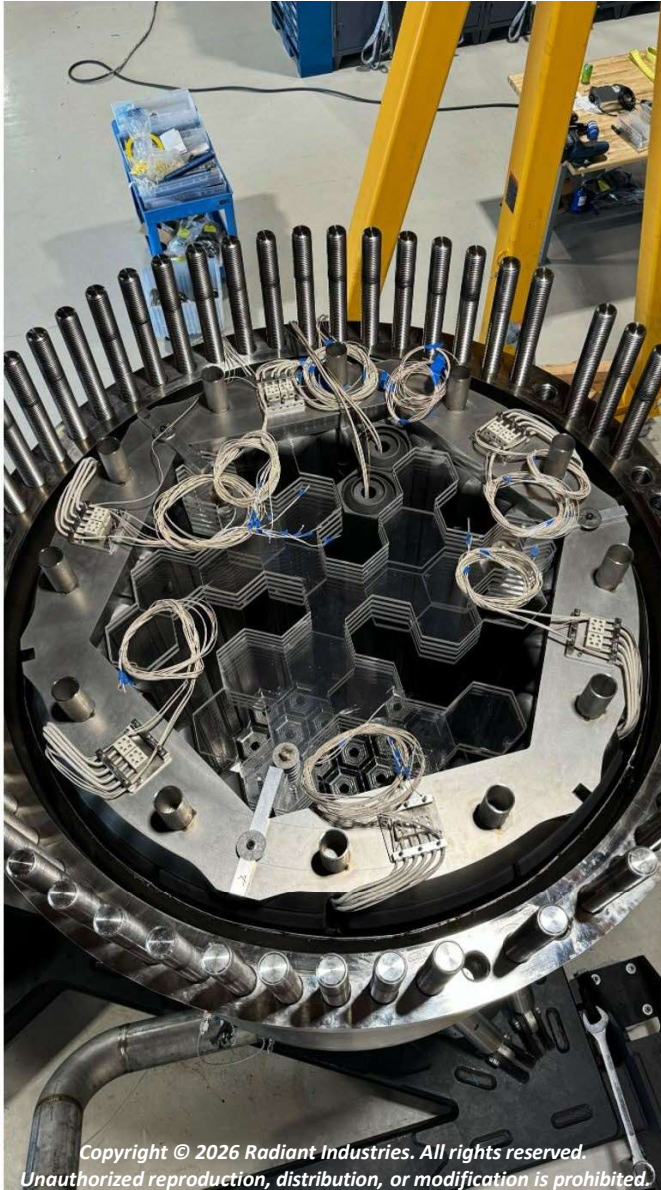
- Reactor Operating license
- Transportation Certification (Part 71)
- ISFSI (Spent Fuel Storage) License

Timeline to First Reactor Delivery

In 2026 Radiant submitted its SNM License under 10 CFR Part 70 and will test the Kaleidos Development Unit (KDU) at the Idaho National Laboratory's DOME facility. Commercial production begins in late 2027.



- Radiant will deploy commercial units in two years -



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