



ANTARES



Antares is redefining nuclear energy.

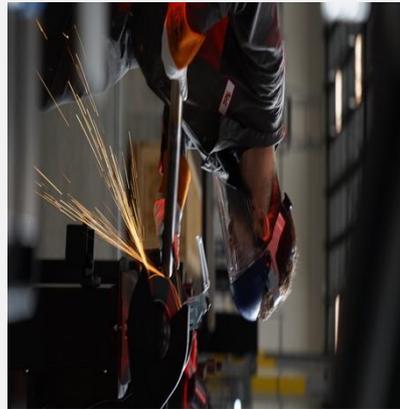
01.

*We design and build factory mass-producible, heat pipe-cooled **micro nuclear reactors** to power critical infrastructure — safely, efficiently, and reliably.*



02.

*Our **multidisciplinary team** of 60+ experts from nuclear, aerospace, and defense industries is designing, manufacturing, and testing under an NQA-1 program.*



03.

*Our **defense-first focus** de-risks supply chains and provides access to a first-move energy market. Antares is partnering with DOD customers and winning contracts to prove our technology.*



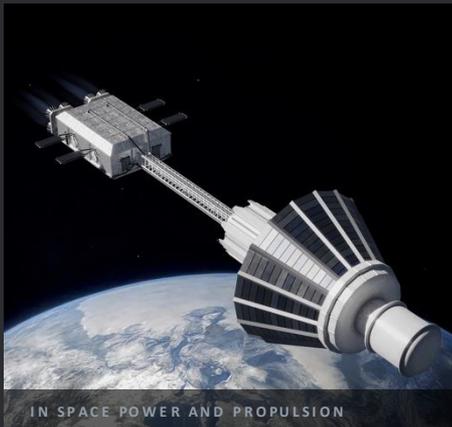
04.

322,000 sq. ft. facility, in Torrance, CA, capable of producing our first 50 reactors.





"Strategic Energy" is our mission



STRATEGIC ENERGY

- Enable **critical mission capabilities** that are impossible without nuclear power.
- Target 100 kWe - 2 MWe to power critical assets like **missile defense sites and counter-space systems**
- Unlock clean, resilient, supply chain free power on **earth and in space**.
- Deliver **complete integrated solution to unlock mission effect**, not just a "box of power"



R1 Reactor

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Reactor

1-3.3 Megawatt thermal. Capable of co-generation of heat and electricity. Scalable to higher power levels.

200-1000 Kilowatts electric for critical infrastructure resilience and remote power.

Six effective full-power years of clean energy without refueling.

TRISO Fuel (19.75% U-235).

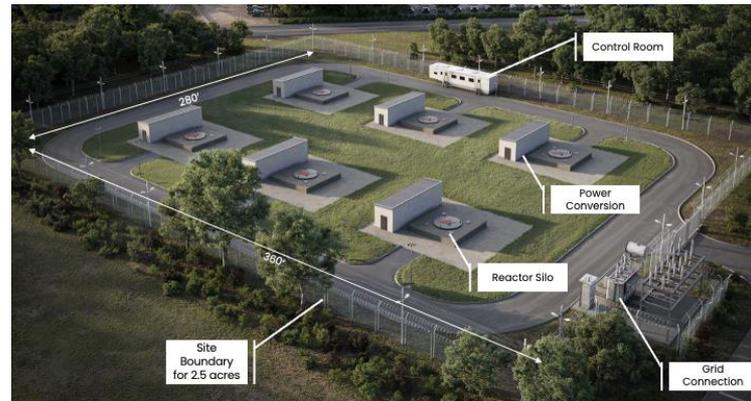
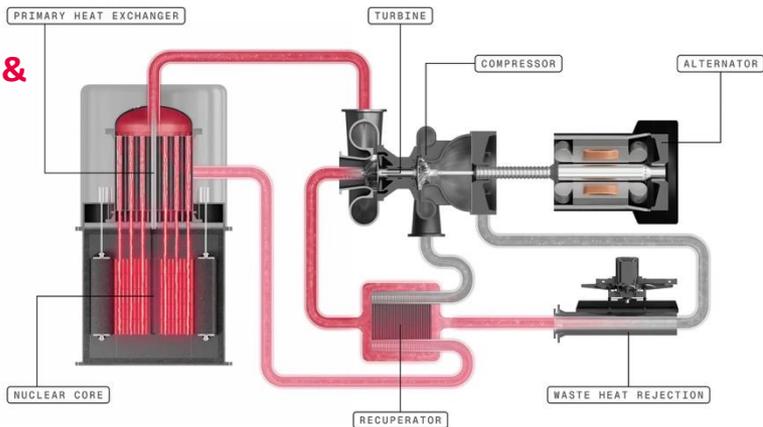
Inherent safety with Generation IV technology

Power Conversion & Process Heat

Closed-loop nitrogen Brayton cycle provides reliable power in a wide range of environments.

Process heat available at

- 825 °C
- 575 °C
- 200 °C



Site

Deployable to remote and austere locations

Minimal site footprint for co-location with user facilities

Power and heat applications can be custom configured

Safety and security with integrated protective features for radiation and external threats

Scalable to power larger sites with co-location of multiple reactors

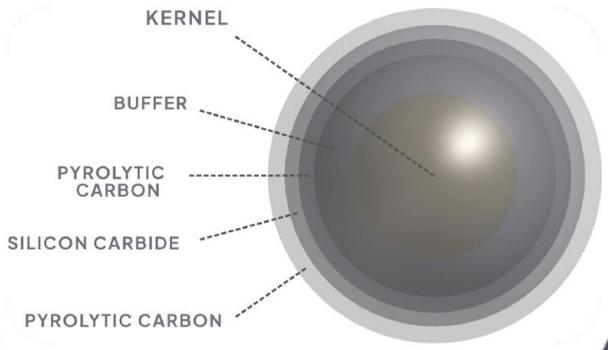


Logistics

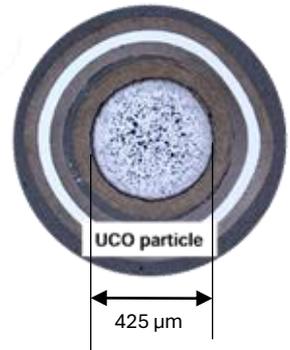
Transportable by tractor-trailer, barge, and rail.



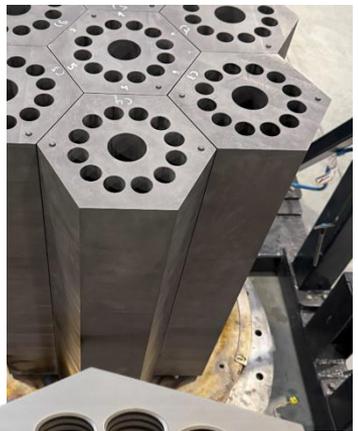
TRISO Fuel Compact



TRISO Fuel Particles



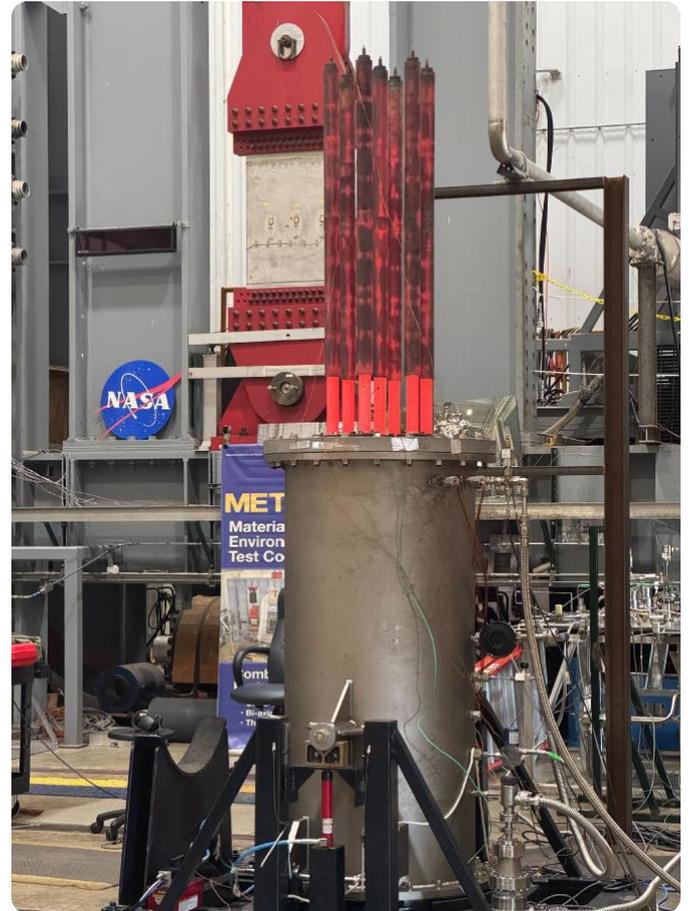
Modular Graphite Block Core Structure



DOE allocated our HALEU and BWXT is fabricating our fuel

We are building and testing our hardware

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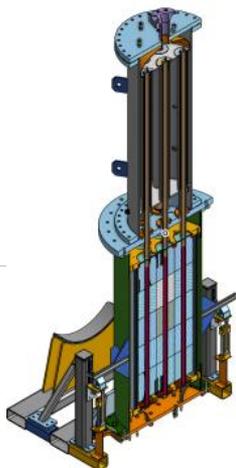


We differentiate through demonstration

Between **electrically heated** systems and **full nuclear demonstration** units, Antares intends on building multiple multiple prototypes prior to fielding the first production unit.

A subscale **electrically-heated reactor core + heat exchanger** prototype has been demonstrated up to 800 °C. Additional tests will continue through 2029.

Design



Build



Test



Deploying nuclear pilot reactor by July 4, 2026

- Funded by Antares under \$40M contract to INL
- HALEU allocated by DOE; TRISO fuel fabrication underway at BWXT
- Preliminary Documented Safety Analysis (PDSA) **approved** by DOE

Operating power reactor producing electricity and heat from nuclear energy in 2027

- Conceptual design accepted by INL
- Power conversion system in development

We are exercising the **Department of Energy licensing** pathway, which will accelerate regulatory review for Department of War and Nuclear Regulatory Commission.

Low-rate **production units** will be available by **2028**.

We have raised over \$130M in private capital and have multiple government awards



AFNWC

Evaluate Antares R1 microreactor for resilient infrastructure power; deliver a comprehensive demonstration data package by June 2026.



AFWERX

Assess Antares R1 microreactor for Air Force missions; deliver comprehensive design review by July 2026.



SPACEWERX

Adapt Antares R1 architecture into a space reactor for power/propulsion; deliver design review in July 2026.



DIU

Advanced Nuclear Power for Installations (ANPI)
Mature and demo Antares R1 for DoW installations to enable follow-on on-base reactor deployments.



How we will accomplish our first demonstration

https://youtu.be/FNvWz1SETq0?si=enSVXtdbR1T_tGyK

<https://youtu.be/iCkwFUJcvUE?si=6tPPUzt3EWaBIMFM>