

# ALPHA AFTER PARTY SPONSORS

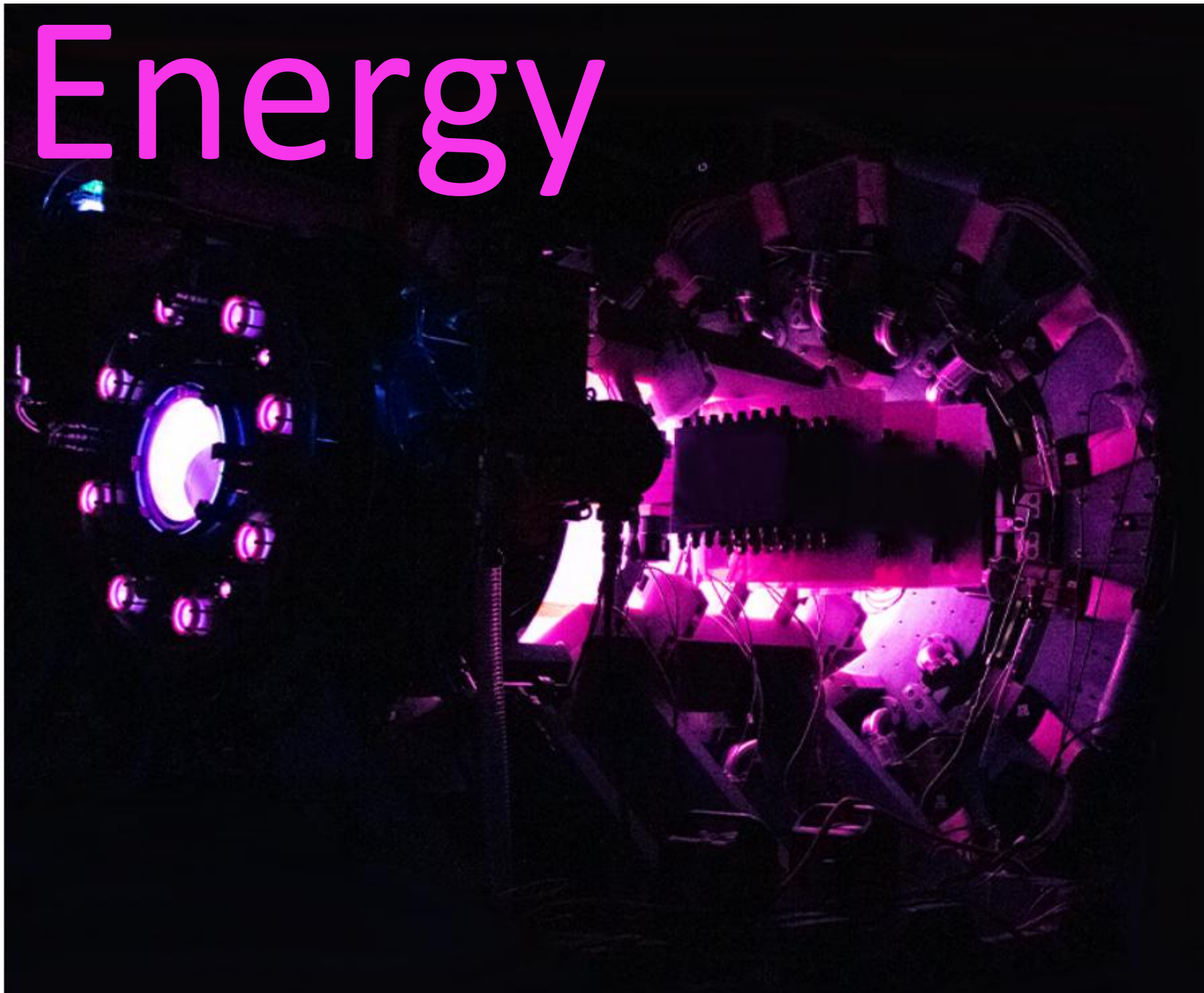


# Helion



Clean,  
Safe,  
Abundant  
Electricity

# Energy





# Helion's approach does three major things differently from other fusion approaches:

- 1) **Uses a pulsed, non-ignition fusion system.** This helps overcome the hardest physics challenges, build highly energy-efficient devices, and allows us to adjust the power output based on need by adjusting the pulse rate.
- 2) **It is a system built to directly recover all unused and new electromagnetic energy efficiently.** Other fusion systems heat water to create steam to turn a turbine which loses a lot of energy in the process.
- 3) **Uses deuterium and helium-3 (D-<sup>3</sup>He) as fuel.** Deuterium-helium-3 fusion results in charged particles that can be directly recaptured as electricity. This helps keep our system small and efficient, allowing us to build faster and at a lower cost. This fuel cycle also reduces neutron emissions, substantially reducing many of the engineering challenges faced by users of deuterium-tritium fusion fuel.



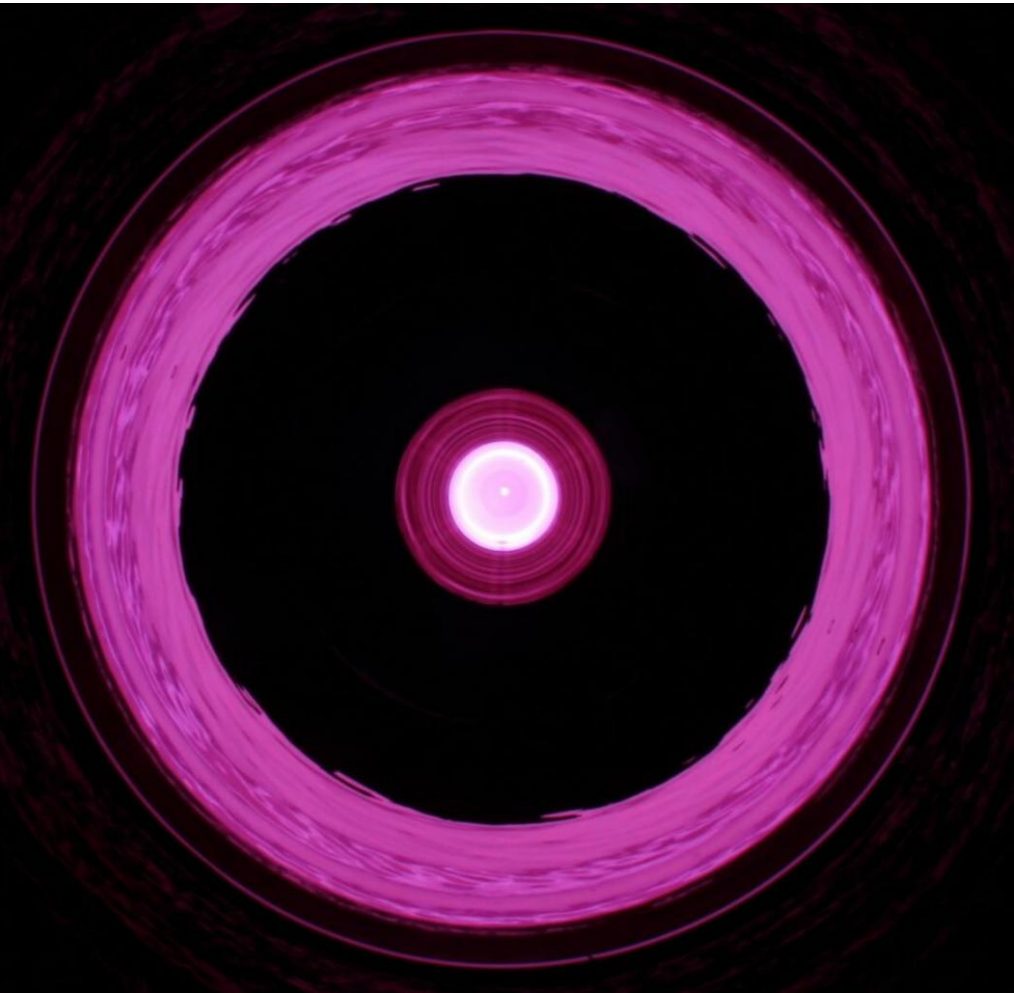
FUSION

Y

Helion has raised \$425 million. Its next generation fusion reactor design aims to tap into the same reactions that power the sun to make carbon-free electricity without long-lasting radioactive waste. The company has an agreement with Microsoft to begin providing power in 2028.

# THE RACE TO INFINITE ENERGY

# Helion Granted Fusion Energy Safety (large broad scope) License from Washington State Department of Health



- Helion is a fusion energy company focused on generating zero-carbon electricity from fusion. Its mission is to build the world's first fusion power plant, enabling a future with unlimited clean electricity.
- Helion to possess and use the necessary quantities of byproduct material to support operation of Polaris, the company's 7th-generation fusion machine that will be used to demonstrate the production of electricity.

# Commonwealth Fusion Systems



The world's largest and leading commercial fusion energy company.



Commonwealth Fusion Systems is collaborating with MIT's Plasma Science and Fusion Center to build SPARC, the world's first fusion device that produces plasmas which generate more energy than they consume, becoming the first net-energy fusion machine. SPARC will pave the way to safe, carbon-free, limitless fusion power. This compact high-field tokamak will be built with HTS magnets, allowing for a smaller device than previous magnet technology. SPARC is an important step to accelerate the development of commercial fusion energy.

## Execution

Get things done. Refuse to stagnate.  
Deliver with speed.

## Self-critique

Combining a data-driven approach with open dialogue to root out the best ideas.

## Integrity

Committed to scientific integrity and treating people well.

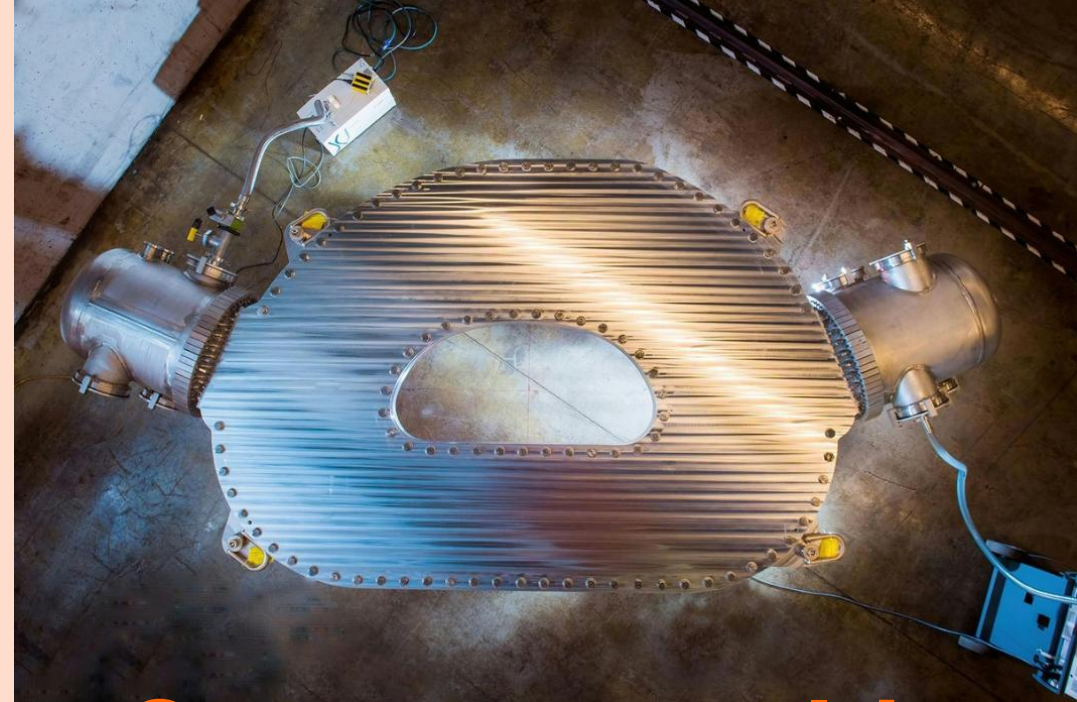
## Impact

Driven to develop an economically viable, clean energy source in time to combat climate change.



It's incredibly humbling working with this talented and mission-driven team focused on combating climate change and improving lives through access to clean, abundant energy.

Brandon Sorbom  
Chief Science Officer



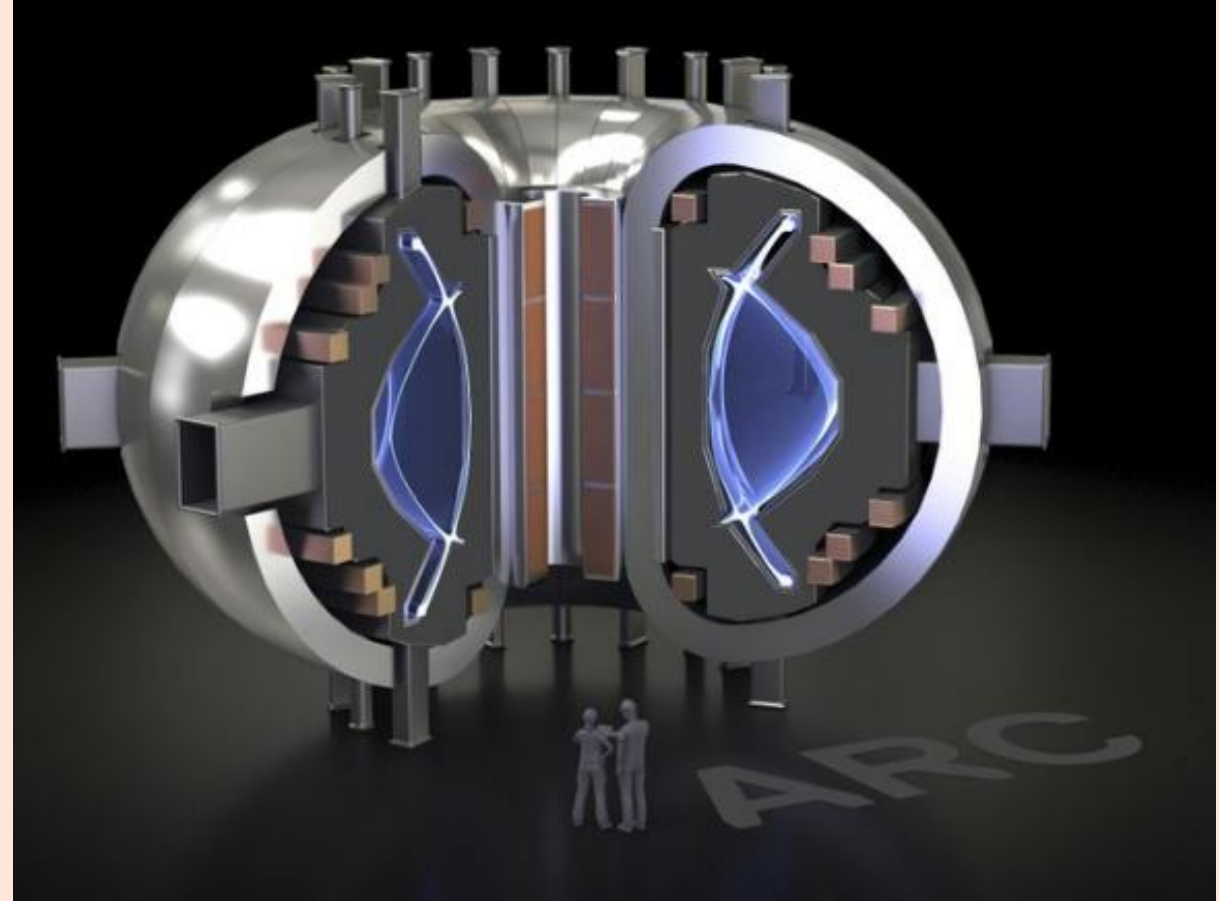
# Commonwealth Fusion Systems



Following the SPARC demonstration, CFS will construct ARC, the world's first fusion power plant capable of producing net electricity. ARC will provide hundreds of megawatts of grid connected electricity, demonstrating for the first time our ability to turn the promise of fusion into clean power for our homes, businesses, and communities. It will be **the first example on the path to economically competitive, mass-produced fusion power plants that will provide carbon-free, secure, limitless power for the world.**



# ARC: Commercialization



## Commonwealth Fusion Systems

# **NUCLIDE NETWORKING SPONSORS**



The logo features two curved lines, one blue and one green, arching over the text. The word "ENERGY" is in a blue, blocky, sans-serif font, while "SOLUTIONS" is in a black, italicized, serif font.

# ENERGY *SOLUTIONS*

- Protecting and preserving the environment for generations to come, by providing reliable, safe, and innovative radioactive material services and project solutions to the global nuclear industry.
- *EnergySolutions* is an international nuclear services company headquartered in Salt Lake City, Utah and Charlotte, North Carolina, with operations throughout the United States, Canada, Asia, and Europe. We are an industry leader in the safe transportation, processing, recycling, and disposal of radiologic material.



# Clive Disposal Facility



**ENERGYSOLUTIONS**



# Barnwell Disposal Facility



## Your Partner for Successful Logistics

■ PACKAGING ■ TRUCKING ■ CASK & RAIL FLEET ■ TRANSLOAD

  
**ENERGYSOLUTIONS**

## Your Partner for Successful D&D

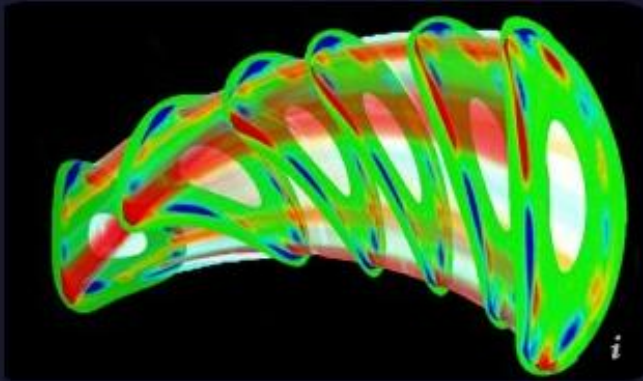
PROVEN PROGRAMS • EFFECTIVE TRANSITION • WORLD-CLASS PERFORMANCE

  
**ENERGYSOLUTIONS**



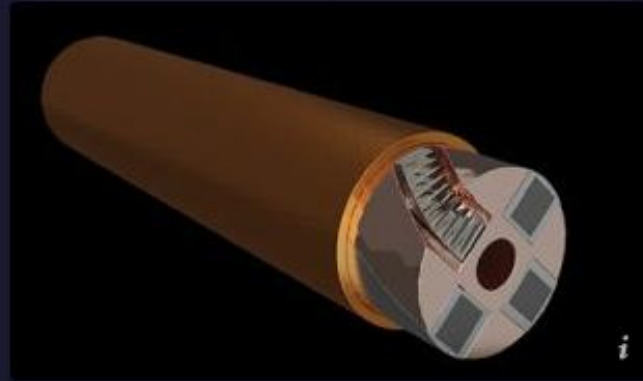


- **Type One Energy is mission-driven to provide sustainable, affordable fusion power to the world.**
- Established in 2019 and venture-backed in 2023, we are led by a team of globally recognized fusion scientists with a strong track record of building state-of-the-art stellarator fusion machines, together with veteran business leaders experienced in scaling companies and commercializing energy technologies.
- We apply proven advanced manufacturing methods, modern computational physics, and high-field superconducting magnets to develop its optimized stellarator fusion energy system.
- Just a single gram of fusion fuel releases as much energy as burning 10,000 kg of coal. This enormous energy density generates the power for a 250,000 person-city for a full year with only a few hundred kilograms of deuterium and lithium.



### Tech Enablers

Type One Energy ensures its fusion systems are cost-competitive to build and operate using existing technology enablers. In collaboration with academic, national lab and corporate partners, we use capabilities such as optimization techniques, high-temperature superconducting magnets and advanced manufacturing to accelerate commercialization.



### Proven Results

Members of the Type One Energy team united after they demonstrated the benefits of other optimized stellarators. Responsible for important aspects of the HSX and W7-X stellarators, their experiences revealed excellent agreement between theory and real-world design. Today, we are applying these lessons to design a grid-ready machine.



### FusionDirect

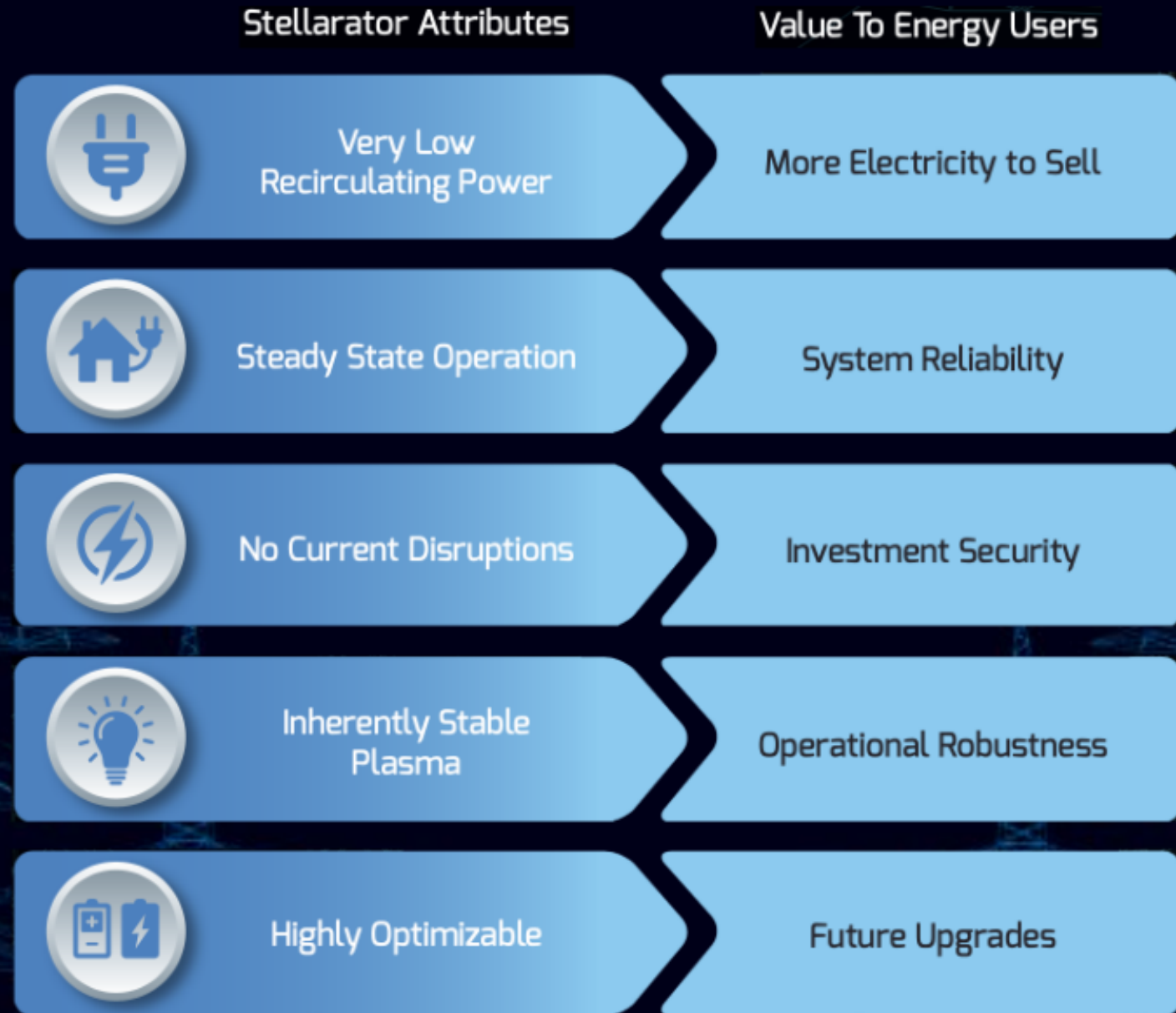
Type One Energy's *FusionDirect* program pursues a low-risk approach to viable Fusion Pilot Plant (FPP). The team's exceptional network of partners allows Type One to proceed directly to design and construct a fusion pilot plant that is intended to achieve stellarator fuel ignition conditions ( $Q = \infty$ ) and put fusion-generated electricity on the grid.

- On May 27, 2025, Type One Energy announced the successfully completed design review of Infinity Two, which is based on the world's only implementable, peer-reviewed physics basis for a fusion power plant recently published by the prestigious Journal of Plasma Physics.

- Type One Energy is working on a potential fusion power plant project with the Tennessee Valley Authority (TVA), using a commercially viable First of a Kind (FOAK) fusion power plant (a nominal 350MWe on the electricity grid).

## FUSION POWER MADE FOR MASS ADOPTION

The attributes of modern fusion stellarators deliver the benefits of a clean energy sector.



# **PROTON PARTNER SPONSORS**



# Cancer Care



As the global population ages and the incidence of cancer continues to rise, advancing new treatments and ensuring safety is more important than ever. With our deep expertise in radiation measurement and safety, we partner with hospitals and cancer centers to advance safety and enhance the delivery of cancer care.

## Radiopharmaceutical Production

As radiopharmaceuticals transform healthcare by improving early diagnosis and patient outcomes, Mirion remains committed to partnering with our Radiopharmaceutical production customers to enable continued innovation while maintaining radiation safety standards.

## Nuclear Medicine

We empower better, safer diagnosis and treatment by enhancing safety and efficiency for technologists and physicists through trusted nuclear medicine solutions.

## Occupational Dosimetry

By offering both passive and active dose of record solutions, Mirion enables accurate tracking of personnel radiation exposure, ensuring worker safety and compliance with regulatory requirements.



NEWS  
Mirion Technologies and Westinghouse Partner to Drive Digital Innovation in Nuclear Instrumentation Systems



NEWS  
Mirion Medical to Debut New Solutions, Highlight Broad Radiopharma-Focused Portfolio at SNMMI Annual Meeting



STORY  
Mirion Technologies Joins Texas Nuclear Alliance as Founding Member



## Radiation Therapy

We support advanced patient and machine QA, as well as dosimetry. Our global training, service and support programs help ease new technology adoption, enhance workflows and improve patient safety.

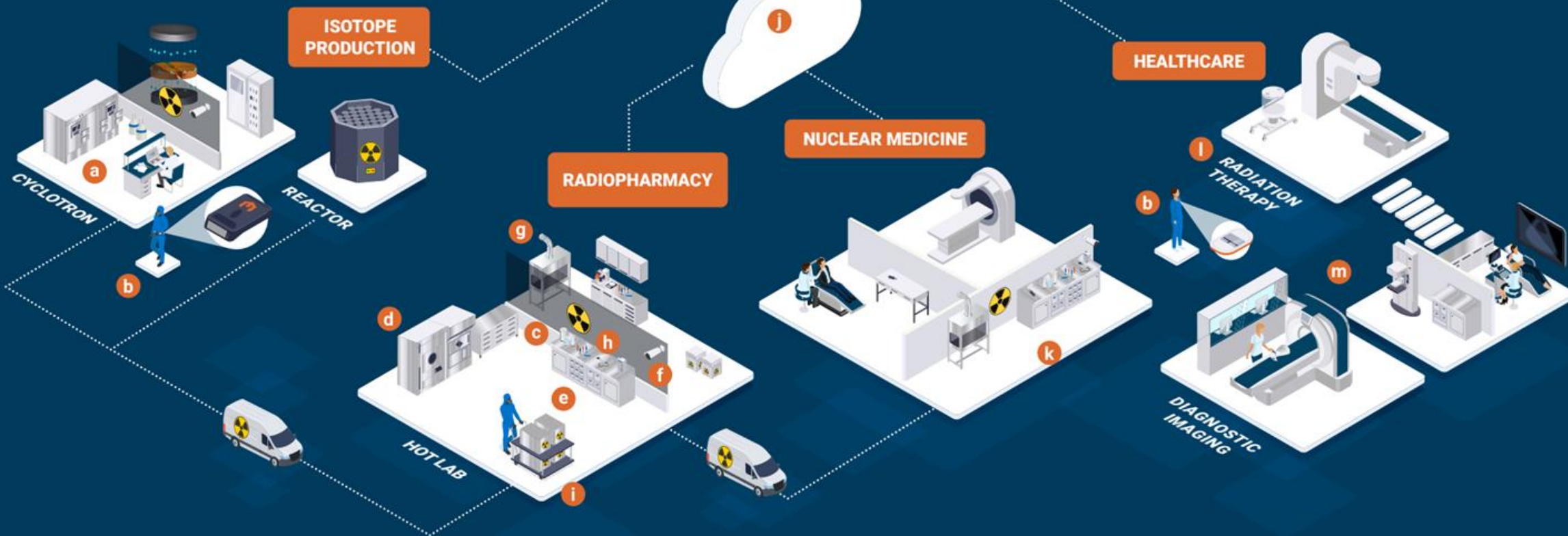


## Diagnostic Imaging

In support of clear detection and diagnosis of cancer, our diagnostic imaging solutions enable accurate, comprehensive QA of applications including CT, MRI, ultrasound and mammography.

# THE SCIENCE OF BETTER

From Disease Diagnosis to Patient Treatment



## ISOTOPE PRODUCTION & RADIOPHARMACEUTICALS

- a. Gamma, Alpha & Beta Spectroscopy ●
- b. Passive & On-Demand Dosimetry ●●
- c. Dose Calibrators & Well Counters ●
- d. Hot Cells ●
- e. Lead Cabinets, Carts & Waste Management ●
- f. Radiation Tolerant Cameras ●
- g. Effluent Monitoring ●
- h. Area Monitors & Alarm Box (Gamma/Neutron) ●
- i. Waste Management ●
- j. ec<sup>2</sup> Software ●

## NUCLEAR MEDICINE & HEALTHCARE

- k. Nuclear Medicine
  - Dose Calibrators ●
  - Thyroid Uptake Systems ●
  - Lung Ventilation Systems ●
  - Lab Supplies ●
  - Quality Assurance ●
  - ec<sup>2</sup> Software ●
- l. Radiation Therapy QA
  - Sun Nuclear Software ●
  - SRS/SBRT QA ●
  - Commissioning & Machine QA ●
  - Lasers ●
  - Motion QA ●
  - MRgRT QA ●
- m. Diagnostic Imaging Tools
  - CT QA ●
  - Mammography QA ●
  - X-Ray ●
  - Ultrasound QA ●
  - Training ●
  - Imaging Tables ●
- UNIVERSAL SOLUTIONS
  - Passive & On-Demand Dosimetry ●●
  - Survey Meter ●
  - Radiation Tolerant Cameras ●

● = Mirion Technologies

● = Mirion Medical (Capintec, ec2, Sun Nuclear, Biodex)

# Office of Radiological Security (ORS)

ORS's mission is to enhance global security by preventing high-activity radioactive materials from being used in acts of terrorism.



Protect radioactive sources used for vital medical, research and commercial purposes



Remove and dispose of disused radioactive sources



Reduce the global reliance on high-activity radioactive sources

- Dedicated to Securing the World's Radioactive Sources
- Protecting Radioactive Sources
- Security Enhancements for Mobile Radioactive Sources
- Removing Disused Radioactive Sources
- Reducing Radiological Materials

### How can ORS help recover disused radioactive sources?

The ORS Off-Site Source Recovery Program (OSRP) can help recover your disused radioactive sources. ORS will help identify disposition options for unwanted sealed radioactive sources. If your organization has disused radioactive sealed sources, you can register them online.

Visit [osrp.lanl.gov](https://osrp.lanl.gov) or call OSRP at [877-676-1749](tel:877-676-1749). You can also register sources currently in use for eventual future disposition.



# Reasons to join the ORS community



## Resources & Technical Training

Learn about ORS training courses, workshops, seminars, and eLearning opportunities to help secure your local radioactive sources



## Reading Materials

Browse and read our latest sustainability guidelines, case studies and alternative technologies to learn from the community



## Initiatives

Help protect, remove, and reduce your current radioactive sources



## Industry Events

Gather and participate in the latest industry events including conferences, seminars, workshops, and more

## By the Numbers

- **Secured** partnerships with more than 930 U.S. buildings in all 50 U.S. states and more than 1,685 facilities in 80+ countries.
- **Enhanced** security in more than 2,025 buildings worldwide.
- **Recovered** more than 21 million curies of radiological materials worldwide.
- **Provided** training and equipment to 75 countries for the recovery of orphaned radioactive sources.
- **Trained** more than 3,700 U.S. law enforcement and responders.
- **Removed** 486 radioisotope thermoelectric generators and substituted these devices with over 220 alternative power supplies worldwide.
- **Installed** In-Device Delay kits on 500+ radioactive source devices in the U.S.
- **Launched** initiatives to incentivize and support non-radioisotopic alternatives.
- **Conducted** 50+ site-specific radiological counter-terrorism Tabletop Exercises with the FBI.

## Contact Information

ORS collaborates with partners worldwide to protect radioactive sources used for vital medical, research, and commercial purposes; remove and dispose of disused radioactive sources; and reduce the global reliance on radioactive sources through the development and adoption of viable non-radioisotopic alternative technologies.

For more information, contact: [ORSinfo@nnsa.doe.gov](mailto:ORSinfo@nnsa.doe.gov).

## Are radioactive materials used in radiological devices of interest to terrorists?

Terrorists are more likely to attempt radiological terrorism, rather than nuclear terrorism, due to the fact that radioactive materials are so prevalent and are much easier to make into an improvised weapon.

Radical terrorist organizations have demonstrated interest in obtaining radioactive materials and have the expertise to weaponize them. The Islamic State of Iraq and Syria (ISIS) has proven its willingness to use weapons of mass destruction.

# At Exubrion Therapeutics®, our vision is to forever improve the compassionate care of companion animals

- Exubrion → “exuberance,” which is the quality of being full of energy and excitement.
- Exubrion → determined to help animals live healthy, active, and pain-free lives.
- Exubrion → supports those veterinarians who care for pets by providing new, innovative therapies, specifically for relieving the pain and suffering of canine osteoarthritis (OA).
- Exubrion → helps families to continue sharing joyful interaction with their ‘best friends’ through the application of groundbreaking, science-based solutions which:
  - Reduce pain and inflammation
  - Break the vicious inflammatory cycle of degenerative joint disease
  - Help restore the active lives of companion animals
- **Exubrion Therapeutics®** → using Tin-117m as a platform therapy with the potential to treat not only arthritis but also other medical conditions in a variety of species.



Provides a solution specifically developed and extensively studied for use in dogs



## Exubrion's proprietary conversion electron therapy—Tin-117m:

- The potential to give animals with OA an improved quality of life
- An opportunity to improve the current treatment options for the progressive and debilitating disease of OA



Targets inflammation to help prevent progressive joint destruction



Provides up to 1 full year of pain relief with just 1 treatment



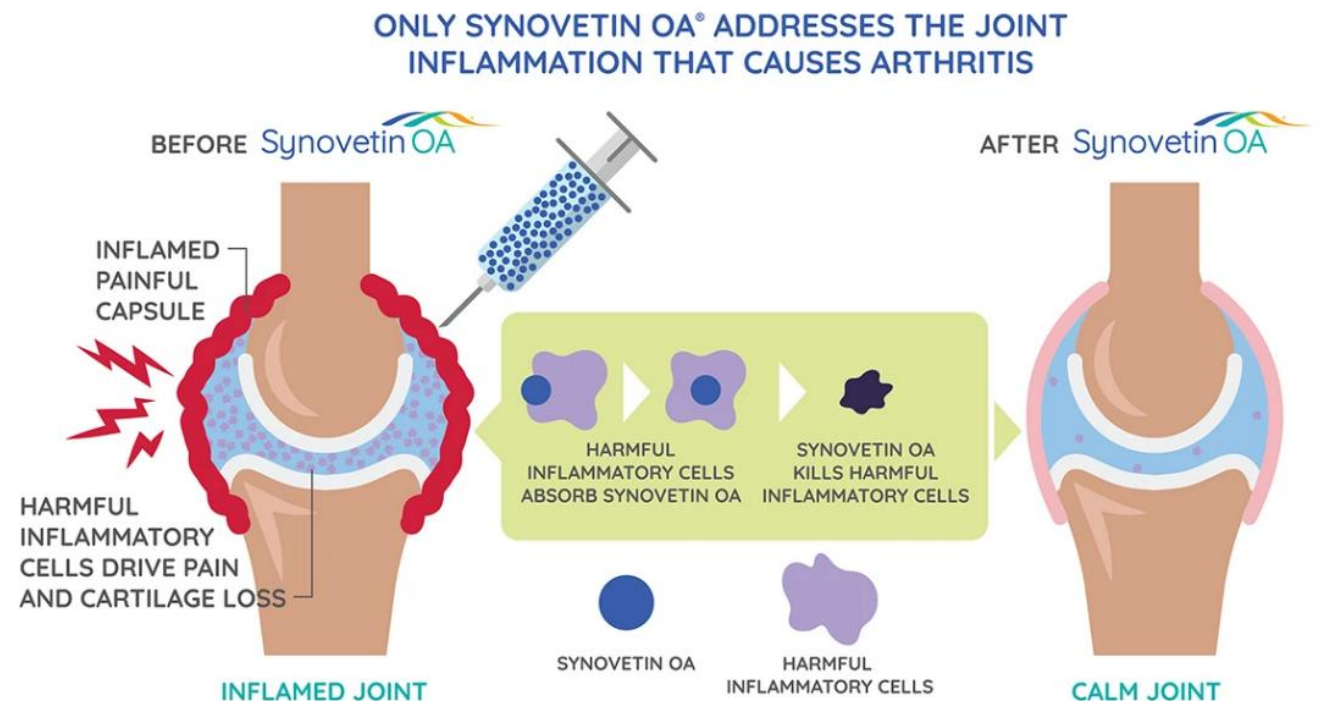
Offers the potential to preserve long-term joint function



Restores a dog's joyful mobility and playful companionship

## Exubrion's initial product, Synovetin OA®—for canine elbow OA:

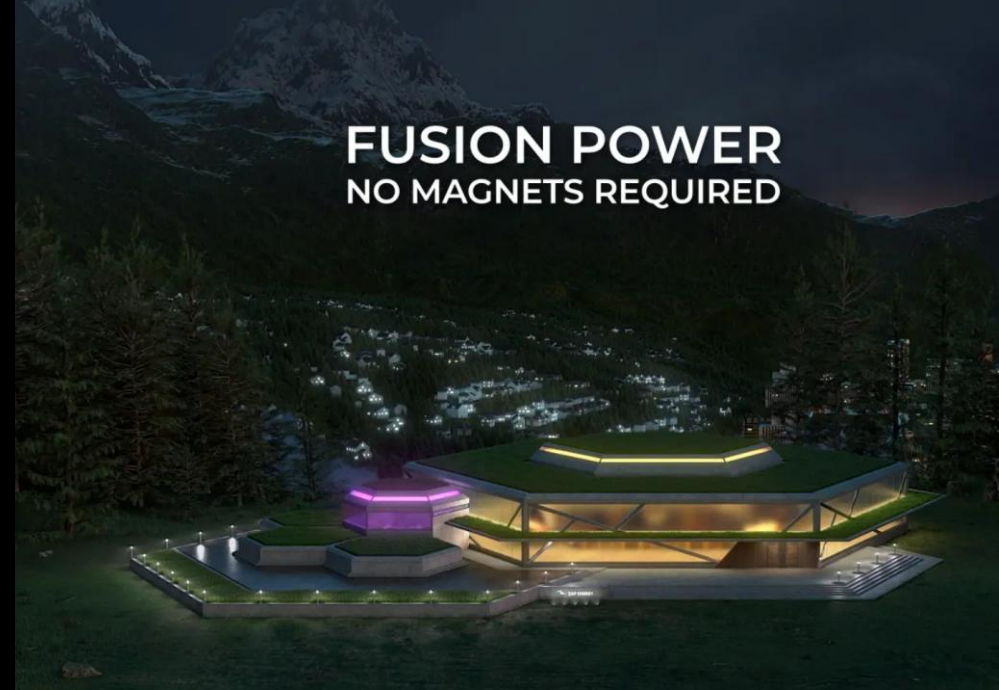
- The ability to intervene in the inflammation/pain cycle, of OA
- The treatment confidence of 1 minimally invasive intra-articular injection that delivers up to 1 full year of response



# **SIEVERT SUPPORTER SPONSORS**



**Zap Energy** is building a seriously cheap, compact, scalable fusion energy technology with potentially the shortest path to commercially viable fusion and orders of magnitude less capital than traditional approaches. This breakthrough technology confines and compresses plasma without costly and complex magnetic coils.



**FUSION POWER**  
NO MAGNETS REQUIRED

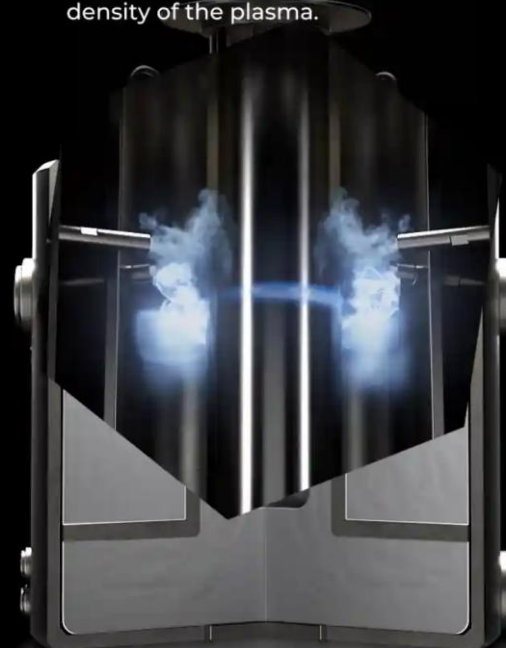
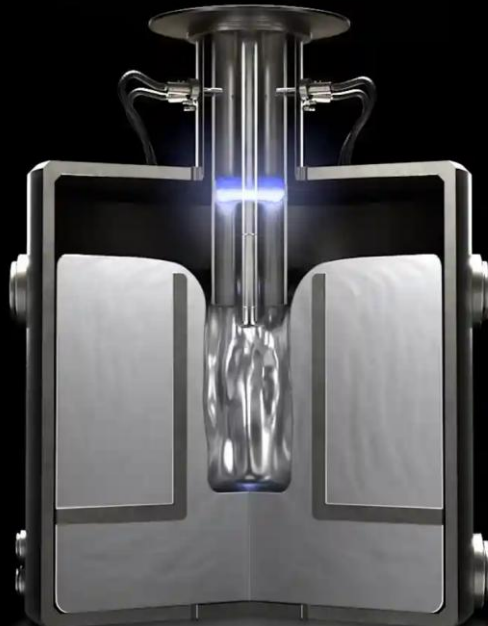
We stabilize plasma using sheared flow rather than magnetic fields.

Driving current through the flow creates the magnetic field, confining and compressing the plasma.

The higher the current, the greater the pressure, temperature and density of the plasma.

A compact, economical D-T reactor tolerant to high energy neutrons.

Zap Energy has rethought the fundamental technology of fusion.



# RTI Group is a world-leading manufacturer of X-ray testing and QA solutions.

Working together to ensure X-ray safety and quality.

What RTI does matter. To patients. To professionals. To RTI.

It is more than algorithms, technology, and design.

It is about setting the standard for quality assurance of X-ray imaging.



INDEPENDENT X-RAY  
QUALITY ASSURANCE



Other RTI products & services that use Ocean Next™ testing software:

- The RTI Piranha meter identifies any probe you connect and selects the optimum settings. Your PC Tablet/laptop will work as an interactive display showing just the information you need. When you are done, everything is stored, and a report is ready to be printed.
- The RTI Cobia meter is our easy-to-use product platform for quick and efficient measurements. Our Cobias are all tailored for different modalities and job situations.
- RTI Scatter Probe is a scatter and leakage detector in one.
- Ensure accurate diagnostics and minimize radiation exposure with RTI Calibration & Service.

New Product - Available Now

## Mako - a meter and a milestone.

World, meet the future of X-ray quality assurance and testing!



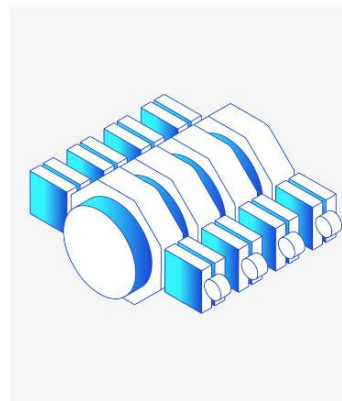
# THE NUCLEAR ENERGY INSTITUTE (NEI)

- NEI's vision is a world powered by clean and reliable energy.
- NEI's mission is to promote the use and growth of nuclear energy through efficient operations and effective policy. NEI accomplishes this by providing a unified industry voice before Congress, the executive branch, state and local legislatures, and federal regulators, as well as international organizations and venues, on key policy issues.
- NEI wants to improve regulations while maintaining high standards by making Safety-Focused decisions in order to streamline regulations and fully embracing risk-informed regulation.

**MAKE REGULATIONS SMARTER**



- Pulsed magnetic means a fuel container is rapidly squeezed by a powerful magnetic field created by driving a large, fast-rising electrical current across it. This compression heats and inertially confines the fuel, fusing hydrogen into helium to release massive energy. The process is repeated over and over, like in a piston engine.



- Pacific Fusion is constructing a high-gain pulsed magnetic fusion system designed to achieve *net facility gain* — more fusion energy output than all stored energy input.

- Pacific Fusion's system is highly modular, enabling affordable manufacturing and rapid iteration. It's made of three parts:

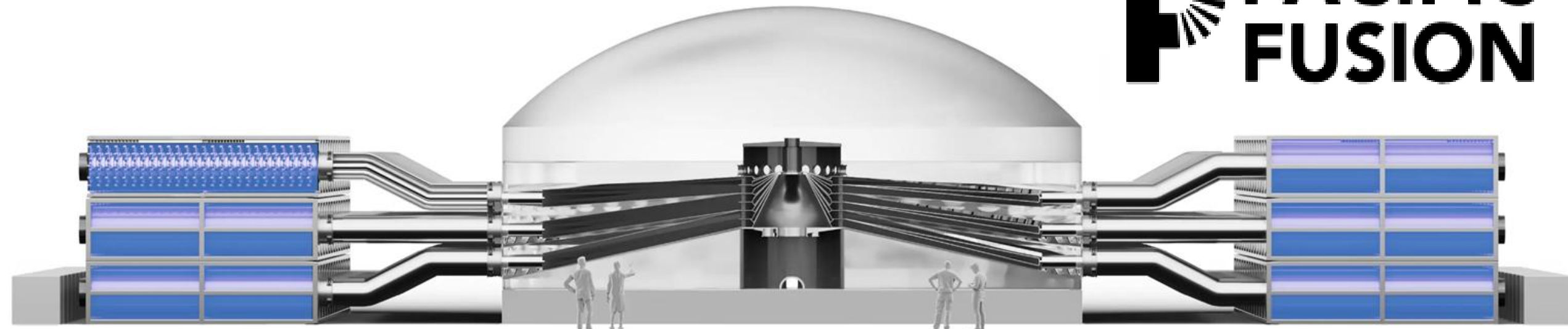
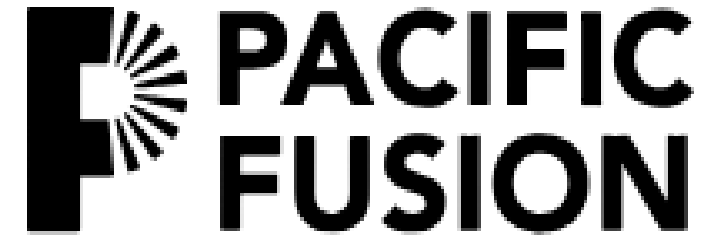
- A fast electric pulser built from thousands of identical parts
- A small fusion chamber (meter-scale)
- Many tiny fuel containers (centimeter-scale)

Inertial Fusion Breakthroughs

Pulsed Power Advances

[Laser-Driven](#) ↗  
[Magnetically-Driven](#) ↗

[Impedance-Matched Marx Generators](#) ↗





- **Quantum Radiation Solutions** partners with federal, state, and local agencies, regulatory programs, and emergency response organizations to enhance their radiological preparedness and response capabilities. **Quantum Radiation Solutions** specializes in:
  - Radiation control program strategy and improvement
  - Radiological emergency preparedness and technical assessment support
  - Regulatory compliance and radiation control program development
  - Training, technical guidance, and mentorship
- **Quantum Radiation Solutions’ mission** is: to help programs thrive through practical, actionable support backed by decades of experience. Whether you're building a new regulatory framework, preparing for a radiological emergency, or simply looking for guidance from someone who's been in your shoes, we're here to help. Because at the end of the day, this work is personal. Angela built this company not just from expertise—but from a passion for service, and a deep commitment to the radiation protection community.



Pioneering the Future of Radiation  
Program Support



**Regulatory Strategy & Policy Support:** NV5 provides guidance and support on policy and regulatory strategy to a variety of public, not-for-profit, and private organizations. Our list of clients includes state and local governments, national regulatory agencies, and environmental advocacy groups. We offer a range of strategic guidance and expert advice, supported by research and technical modeling, on utility regulatory and energy-related policy issues. NV5 offers comprehensive services to help clients advance their policy and regulatory goals:

• **Radiation Safety & Health Physics Consulting:**

- **Licensing and Compliance:** Agreement States are responsible for licensing and regulating certain radioactive materials. NV5 has extensive experience assisting with NRC and Agreement State licensing, audits, and compliance with regulations. They have Certified Health Physicists (CHPs) who are experts in this field.
- **Decontamination & Decommissioning (D&D):** Many Agreement States deal with legacy sites or facilities that need to be decommissioned. NV5 offers services for characterization, remediation, and D&D of sites with radioactive materials.
- **Radiation Protection Programs:** They can help develop, implement, and audit radiation protection programs for various facilities, ensuring the safety of workers and the public.
- **Naturally Occurring Radioactive Material (NORM/TENORM):** This is a specific area of concern for many states. NV5 has expertise in identifying, evaluating, and managing NORM/TENORM.
- **Dose Reconstruction and Litigation Support:** In cases of potential exposure or legal issues, NV5 can provide expert analysis.

• **Environmental Consulting for Radioactive Materials:**

- **Environmental Site Assessments:** For properties potentially impacted by radioactive materials.
- **Regulatory Compliance:** Navigating complex federal and state environmental regulations related to radioactive waste and materials.
- **Waste Management:** Assisting with the safe handling, storage, and disposal of radioactive waste, including 11e.(2) byproduct material.



• **Training & Education:** NV5 offers a variety of radiation safety and occupational safety training courses, which can be invaluable for state personnel needing to understand and enforce regulations. This includes Radiation Safety Officer (RSO) training.

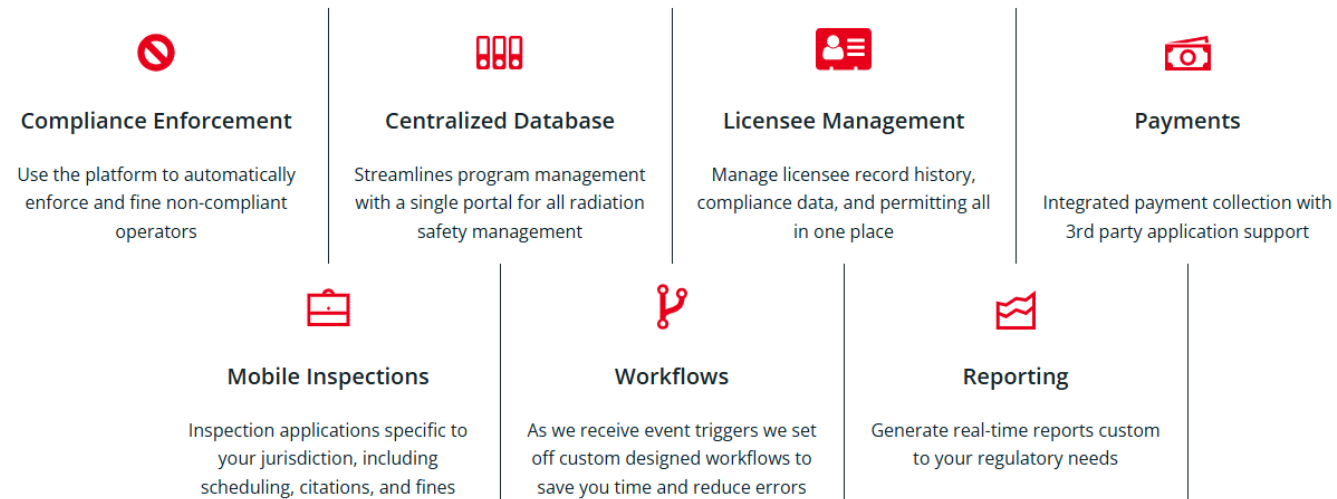
• **Geospatial Solutions (relevant for site management and monitoring):** While not directly "nuclear safety," their geospatial data collection and mapping services could be useful for Agreement States in managing and monitoring sites with radioactive materials, especially for large areas or during remediation efforts.

- **Ensure Your Compliance Processes Succeed**
- GroveWare's leading Environmental Health and Safety software is proven to streamline complex regulatory and compliance processes, saving you time, money and will drive best-in-class stakeholder participation.
- **Reduce Administrative Overhead → Do more with less & focus on core functions**
- With GroveWare's Radiation Watch application:



- Synchronized visibility for Inspector, Licensee and Radiation Control Program Managers.
- Auto generate and send the inspection details, inspection summary, and deficiency reports.
- Supports compliance by providing complete visibility of radiation safety details to all levels of management.
- Improved data integrity by eliminating duplicate data entry, and enforcing business rules at point of data entry

## Features





Tomorrow

**UCOR** is an Amentum-led partnership with Honeywell, working under contract with the Department of Energy (DOE) Oak Ridge Office of Environmental Management. Under this contract, UCOR safely deactivates and demolishes former nuclear facilities. As the lead cleanup contractor for DOE's Oak Ridge Reservation, we have earned a reputation for safe performance, innovative problem solving, and an unwavering focus on excellence. Our workforce of more than 2,200 is committed to the mission of protecting the people, the community, and the environment while eliminating hazards and reducing risks. Our leadership team brings together individuals with vast experience in the engineering and environmental industries, including experience working in the DOE complex.



***Safely Reducing Environmental Risks.*** We are cleaning up contaminated, unused facilities on the Oak Ridge Reservation (ORR). In addition to removing excess facilities, we maintain facilities across ORR that are waiting for disposition. We also provide critical upgrades to extend the life of active, but aging, facilities.

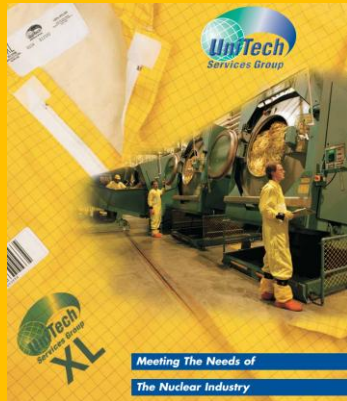


# Your Leader in Personnel Protection & Nuclear Waste Disposal

The strategic partner for reducing spending, improving operations, increasing safety at your nuclear plants.

UniTech Services Group provides:

- Nuclear Personnel Protection
- Laundry
- Materials Processing and Waste Disposal
- Nuclear Decommissioning Support
- Tool & Metal Decontamination
- Just-in-time Inventory &
- Government Nuclear Services.



**1957**

FIRST LICENSED  
U.S. RADIOLOGICAL  
LAUNDRY

**1980s**

LOCATIONS IN  
SANTA FE, NM;  
SPRINGFIELD, MA.

**1993**

OPENED FIRST  
EUROPEAN FACILITY  
IN COEVORDEN

**2000s**

EXPANSION  
OF SERVICES –  
DECON WASTE

**TODAY**

SERVING  
THE U.S.,  
CANADA, THE UK

- **CONSULTING** (HP services: lab surveys, onsite waste management, decontamination, & training)
- **BROKERAGE** (manifest, labelling, surveys)
- **TRANSPORTATION** (our trucks, our technicians, & exclusive to our clients)
- **DISPOSAL** (Onsite support and services, Development of programs, Treatment, Characterization, Analysis, Packaging, Processing, & Supplies)

## BIONOMICS, INC. Oak Ridge, TN

The leader in professional, cost effective services for disposal of radioactive and mixed wastes.

Bionomics is the leader in providing turnkey radioactive and Mixed Waste pickup and disposal services to generators of all sizes.

Bionomics will use only those facilities that meet or exceed our high standards of Quality Assurance. These facilities need to have maintained a history of financial stability and regulatory compliance. In addition to initial and follow-up audits of each facility, each processing facility is required to provide container tracking and timeliness in the processing and disposal of the wastes we send them. The performance and financial and regulatory health of each facility is closely monitored to ensure the reduction and elimination of risk and long-term liabilities associated with client's wastes.



Bionomics will evaluate each client and their waste disposal needs, and then suggest plans that help reduce labor cost, exposure, disposal costs and that offer the greatest reduction in long-term liability. Bionomics maintains the licenses and permits necessary for providing services to package, transport, and dispose of all types of Radioactive and Mixed Wastes.

# Thanks to all of our wonderful SPONSORS!



## 2025 Annual Meeting Sponsors

### Alpha After Party



### Nuclide Networking



### Proton Partners



### Sievert Supporter

