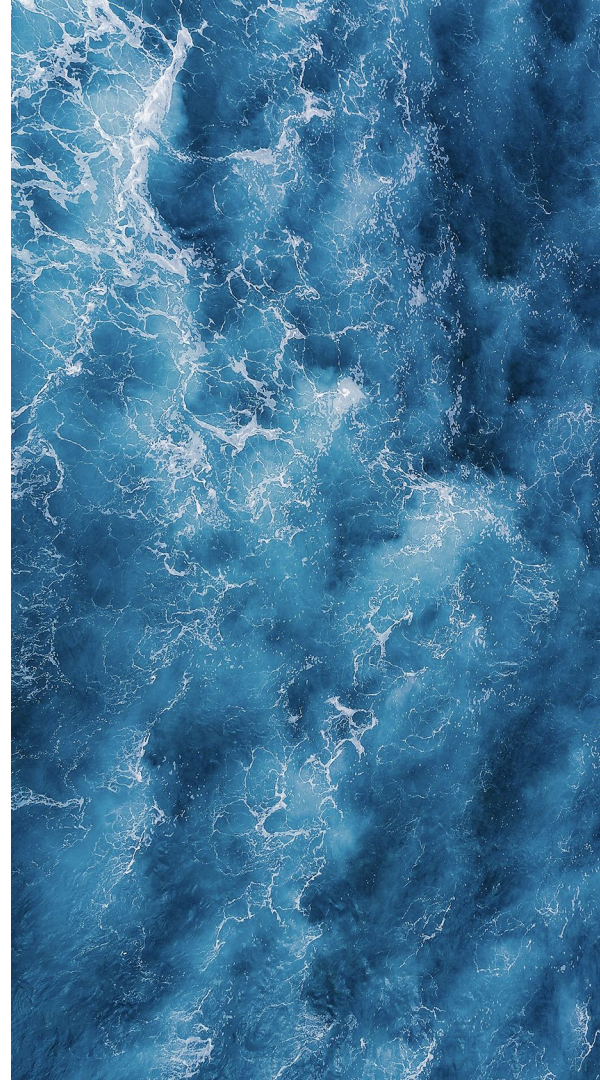




Pacific Fusion in New Mexico

S&T Committee Presentation

Fall 2025



Fusion has been the holy grail of energy for 70+ years.



Affordable,
firm power



Inexpensive,
limitless fuel



No long-lived
radioactive waste



Three breakthroughs in 2022 changed everything:

1

First-ever controlled
fusion ignition via
lasers

2

Far more efficient path
to ignition via electric
pulsers

3

Mass-manufacturable,
modular electric pulsers

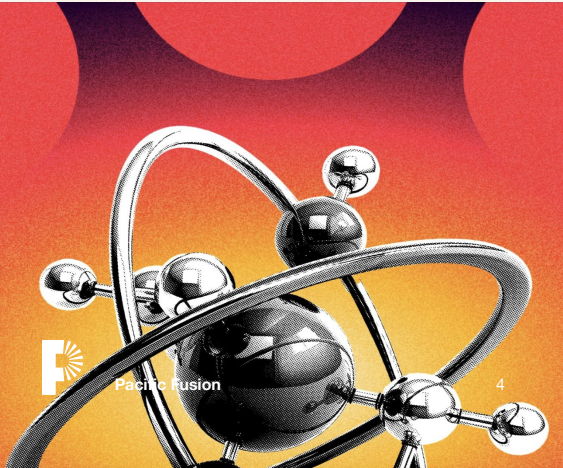


Pacific Fusion raised a \$900M+ Series A to build on these breakthroughs.

- Round led by General Catalyst, with many top investors participating.
- Team is now >140 staff, including many world experts.
- **Mission: Power the world with abundant, affordable clean energy**

OUR INVESTMENT IN PACIFIC FUSION

Expanding What's Possible with a \$900M+ Series A



We are excited to be in New Mexico

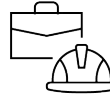
- We admire New Mexico's commitment to clean and renewable energy.
- We would build on New Mexico's historic achievements in advancing groundbreaking energy innovation, including around fusion.
- Our work is based on breakthroughs from the Z Machine at Sandia National Labs; we are proud collaborators with the lab.
- Future workforce needs are well aligned to Albuquerque and the region.



What this project will bring to New Mexico:



~ \$1 billion investment



200 permanent jobs + hundreds more jobs to the region



Ideal fit with the momentum at Mesa del Sol



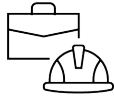
Builds on New Mexico's proud history of fusion innovation



Education/STEM partnerships



Focus on hiring and workforce development



We are making immediate hires

- 200 full-time roles on site once operational
- Hundreds of construction jobs
- First roles advertised:

<https://www.pacificfusion.com/careers>



We will invest in workforce training and development

Meeting with UNM, CNM, local school districts, and Department of Workforce Solutions

TOP STORY

Pacific Fusion to invest in build center in Los Lunas

By Clara Garcia | News-Bulletin Editor Oct 16, 2025 Updated 5 hrs ago



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LOS LUNAS—Weeks after announcing it had selected New Mexico — Albuquerque's Mesa del Sol — to build its \$1 billion facility, Pacific Fusion announced Monday it has selected Valencia County to begin its endeavor.

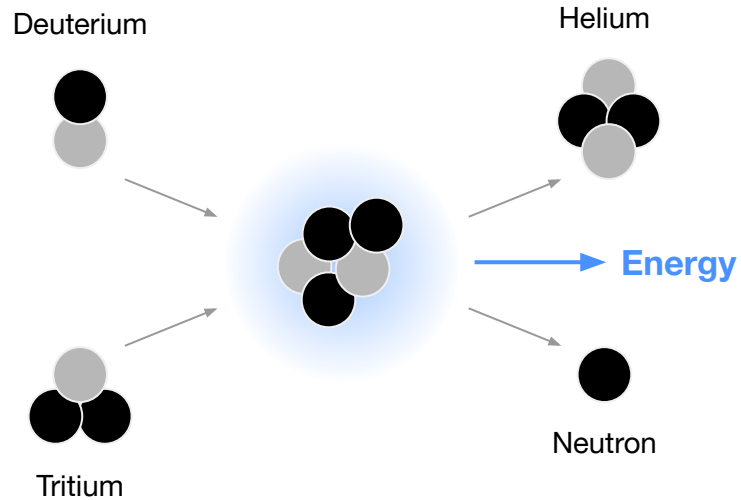


How does fusion work?

- Light atoms - in our case, Deuterium and Tritium - are confined under high temperature and pressure.
- They fuse and release energy.

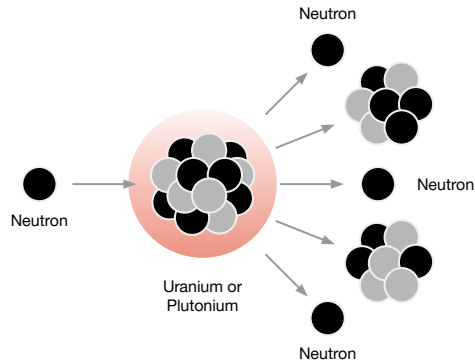
Why has it taken us 50 years to figure out how to burn fusion fuel?

- The conditions required for fusion are challenging to achieve - like the inside of stars.
- Any disruption halts the reaction.

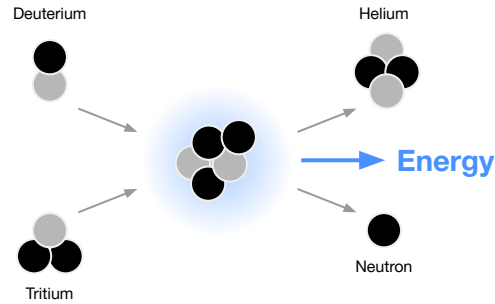


Fusion ≠ Nuclear Fission

Fission



Fusion



No risk of meltdown.
No long-lived waste.
No fissile material.

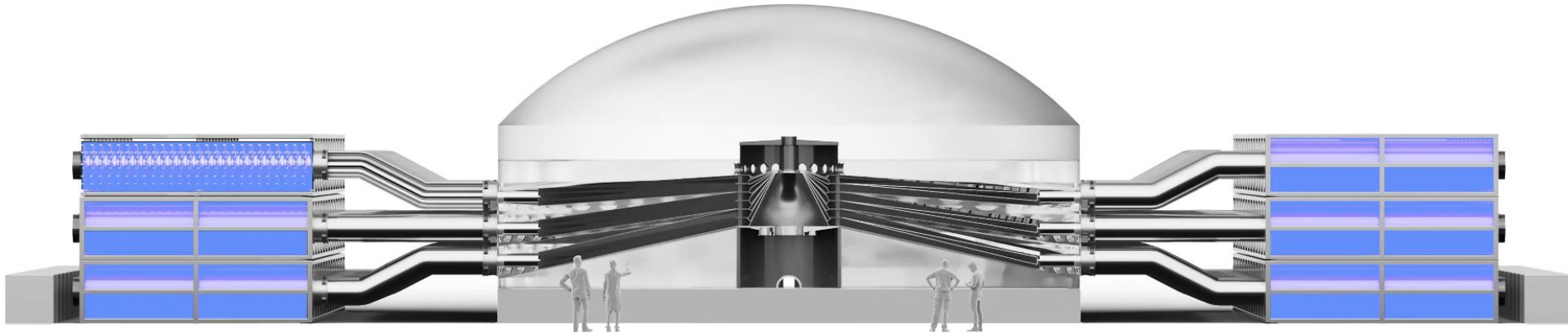
ADVANCE Act (Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy Act of 2024)



As a result: Much simpler regulatory environment due to passing of the Advance Act in 2024.



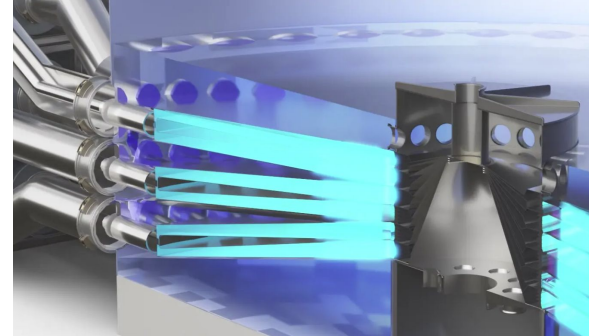
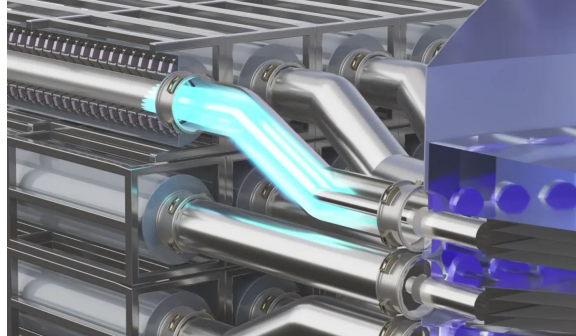
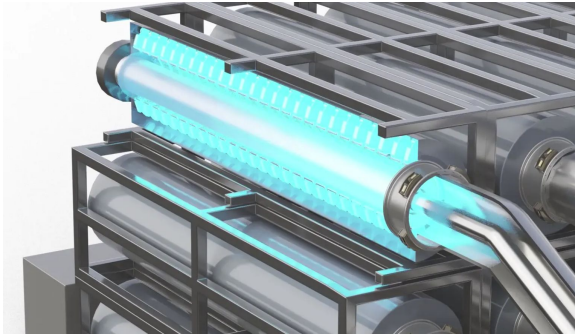
Step 1: Charge and prepare chamber



Pulser is charged while the chamber is prepared and target/electrodes are inserted.



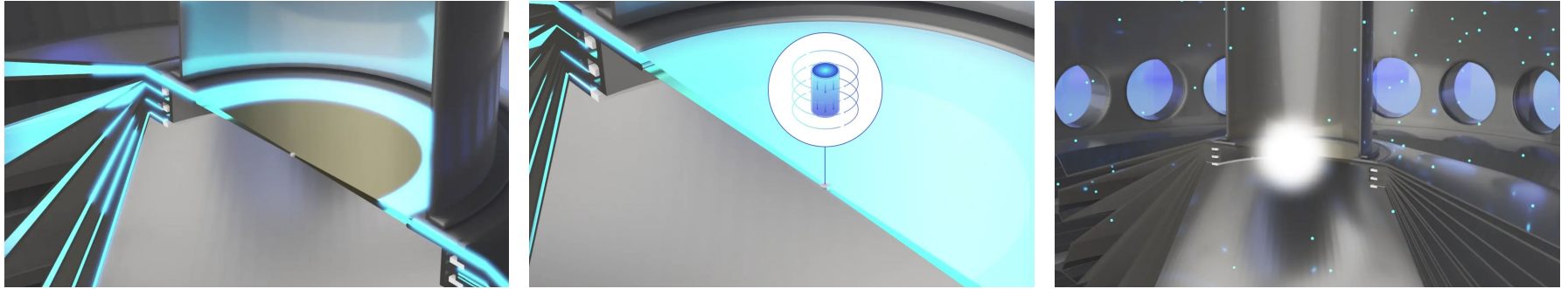
Step 2: Discharge



Electrical current flows inward on transmission lines.

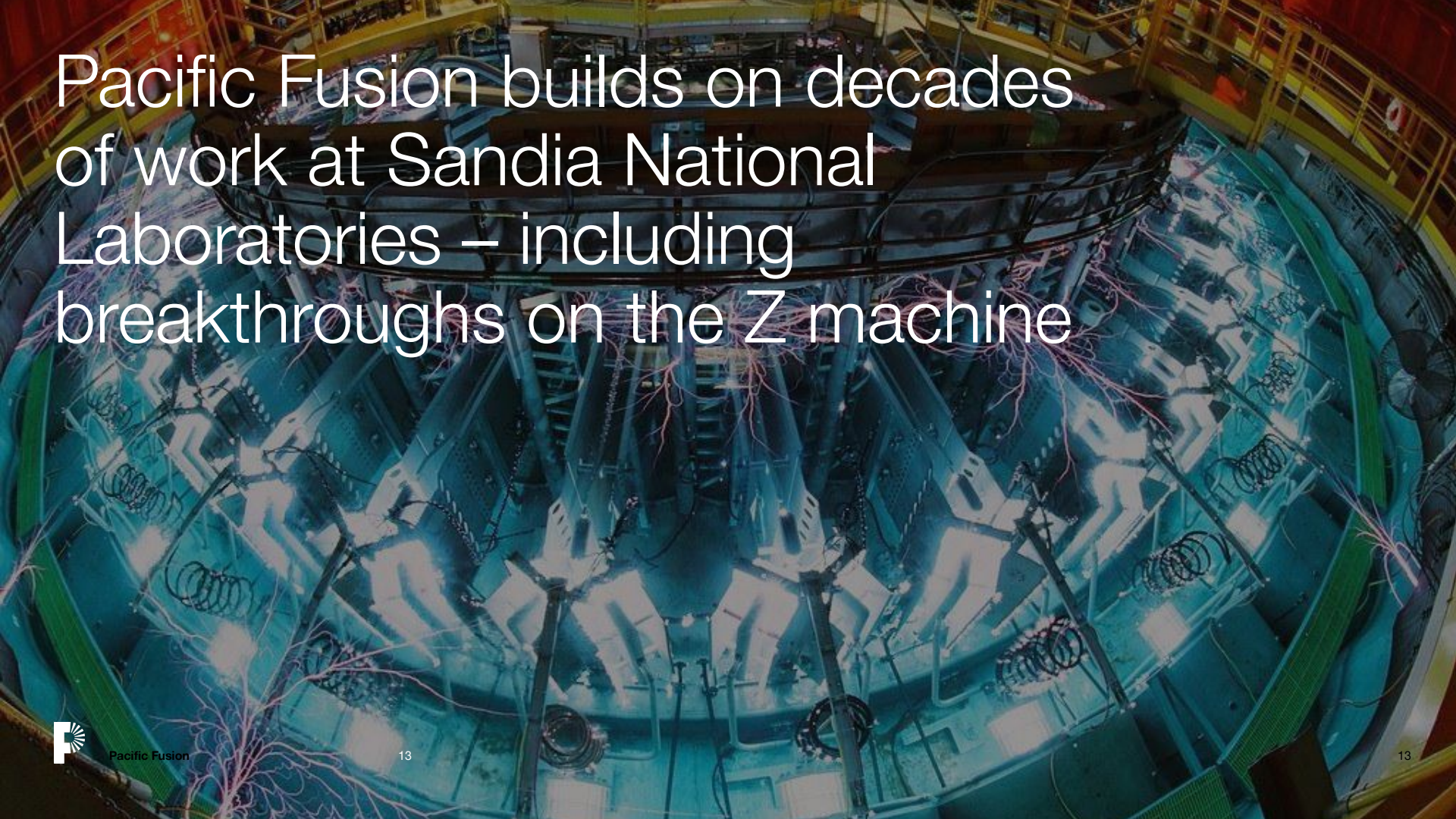


Step 3: Drive fusion and harness the output



Electrical current drives high-gain fusion. Output is captured to generate electricity.





Pacific Fusion builds on decades of work at Sandia National Laboratories – including breakthroughs on the Z machine



We've selected Mesa del Sol as the home of our Demonstration System.



It is not a power plant.
It will not have noise
or vibrational impacts
on the community.



The facility will have minimal impact on the environment.



Not a drain on local water supply

Our facility will not place unusual demand on the community's water supply – less than other commercial buildings of a similar size.



Limited electricity use

Facility requires ~3.3 megawatts from Public Service Company of New Mexico (PNM).



Safety is our top priority.



Our Demonstration System is designed for safety.

We've partnered with third-party experts to define our life safety systems and regulatory framework.



Any use of radioactive materials is regulated by the State of New Mexico.

The State's Department of the Environment Radiation Control Bureau ensures all radioactive materials are regulated, shielded, and monitored for safe operations.



Universities and hospitals safely use radioactive materials for research and treatments.

Major medical centers routinely employ high-activity gamma emitters to destroy cancer cells.

Universities use radioisotopes in devices such as tritium-filled neutron generators for materials testing and bacterial sterilization studies.

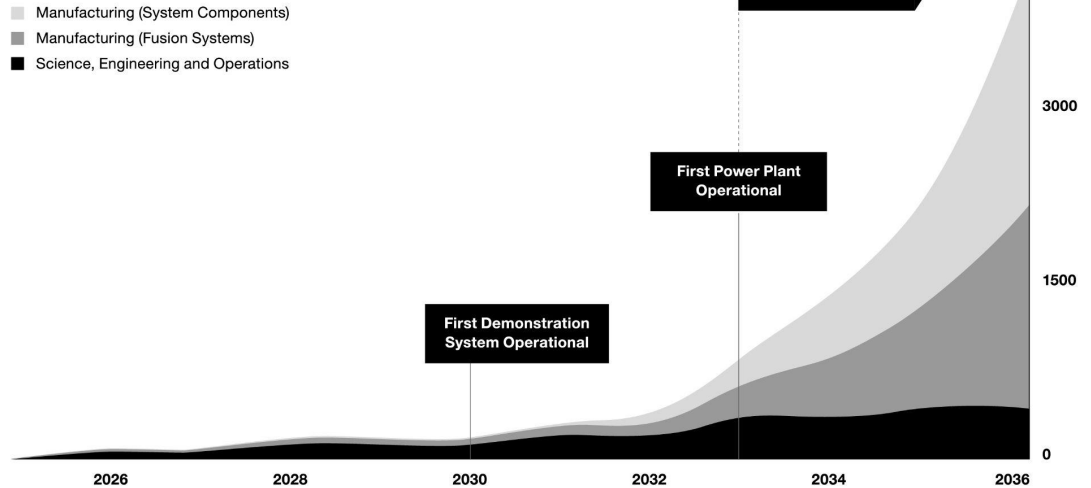


Anchoring a global fusion industry in New Mexico

The location of a first fusion facility will shape where future plants, supply chains and manufacturing clusters take hold.

This is a defining moment for New Mexico to become an epicenter for fusion, anchoring thousands of high-wage jobs, manufacturing growth and lasting leadership.

Illustrative employment curve for a fusion company, first 10 years



Thank you



Pacific Fusion