

generalfusion®

TRANSFORMING HOW WE ENERGIZE THE WORLD

Date: June 2022

General Fusion overview

We are pursuing the fastest, lowest risk path to fusion leveraging uniquely practical Magnetized Target Fusion technology

Company

FOUNDED IN
2002



Headquartered in
Vancouver, Canada

National lab co-locations in



Oak Ridge National
Laboratory



Culham Centre for
Fusion Energy

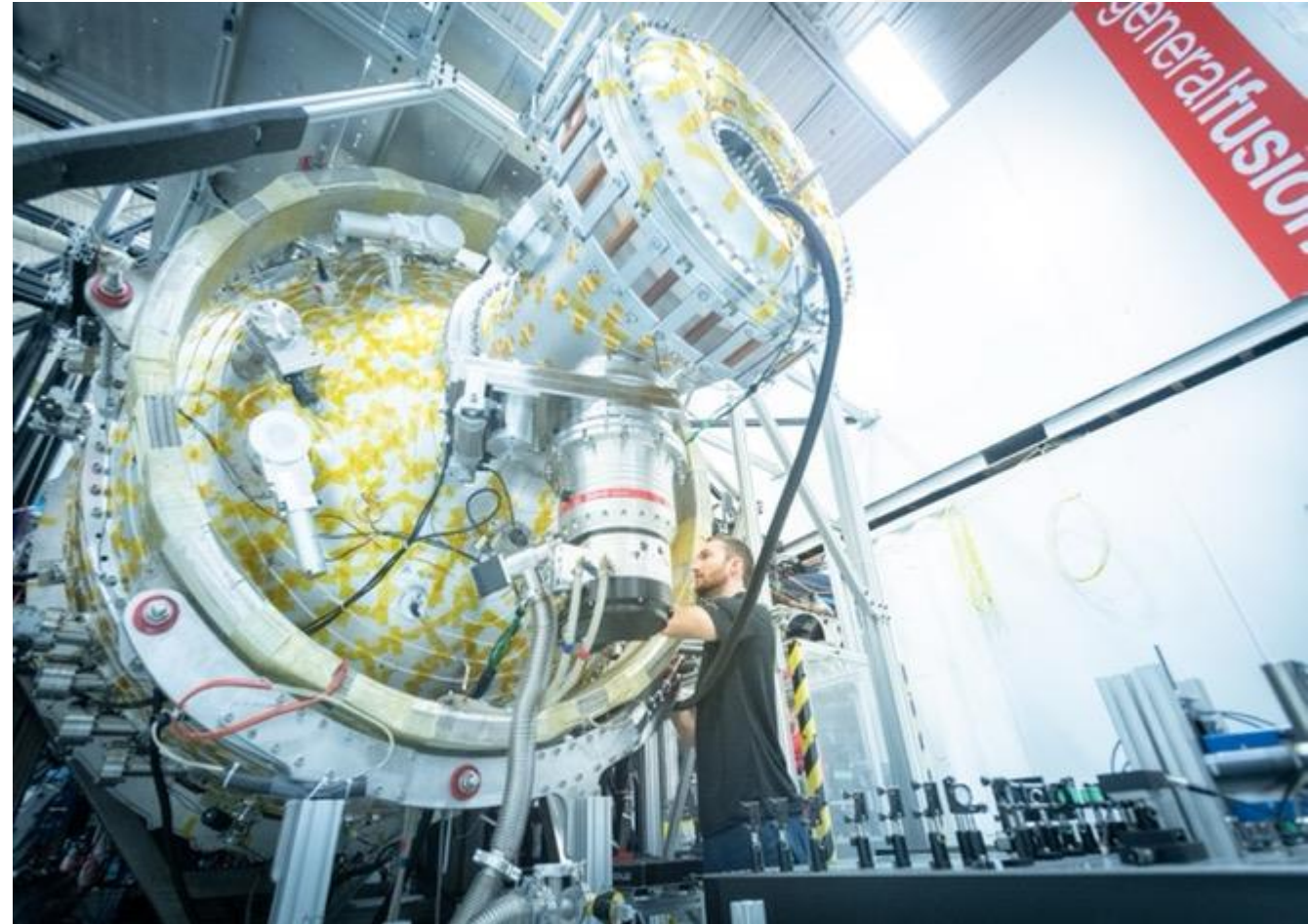
Fusion Demonstration Plant being deployed at the
UKAEA Culham Centre for Fusion Energy in the
United Kingdom



170
employees



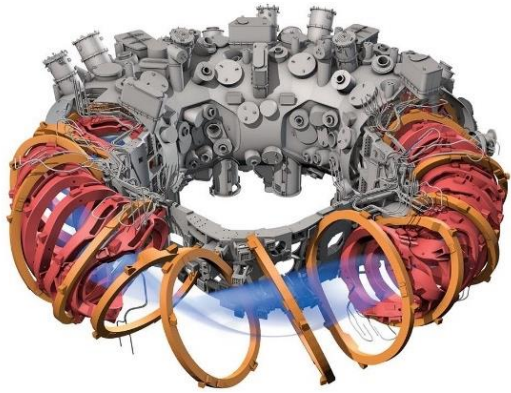
150
patents



www.generalfusion.com

Commercialization is accelerating due to maturing fusion science, new enabling technologies, and investment

Progress of fusion science



- Plasma physics knowledge
- Advanced simulation codes
- Experimental confirmation of fusion theory



Maturing enabling technologies

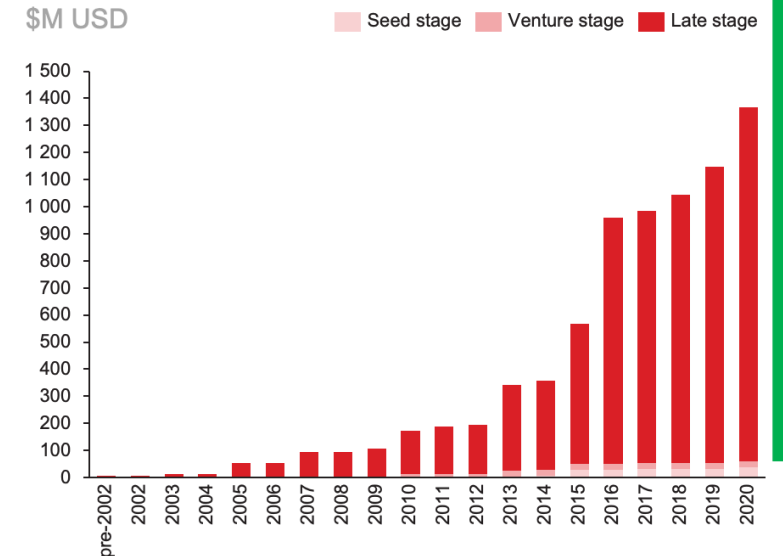


- Advanced manufacturing (3D printing)
- Computational power and big data analytics
- High speed digital control systems



Investment surpassing \$4 billion in 2021

Cumulative investment in private fusion ventures



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Technology | **Tech Billionaires Rally Around Nuclear as Energy Crisis Looms**

General Fusion is on the path to commercialization

For General Fusion, commercializing Magnetized Target Fusion technology is no longer a science project

2020

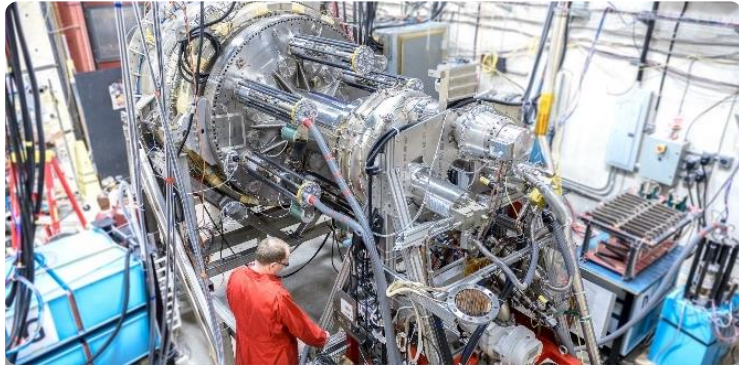
2027

2028 AND BEYOND

Science and Technology Development

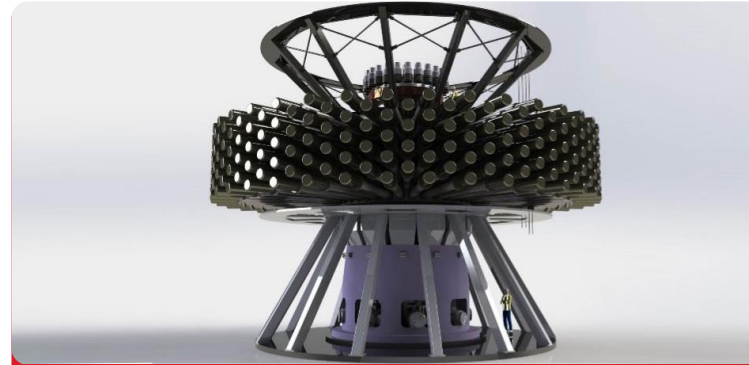
Fusion Demonstration Plant

Commercialization



Core Technologies In Place And Tested, Including Large Scale Prototype Systems

- ✓ Plasma Injector
- ✓ Compression System
- ✓ Fusion Process Stability



Fusion Demonstration Plant: Foundation Of Comprehensive Commercialization Strategy

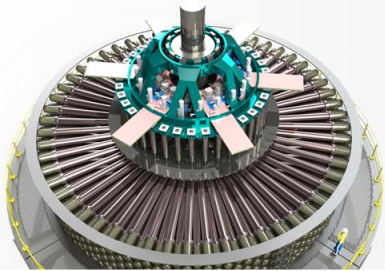
- 1 **Demonstration of Technology:** Expected to confirm integrated technology performance at power plant relevant scale and refine economics of subsequent commercial power plants.
- 2 **Capacity to Deliver:** Fusion Demonstration Plant project execution is expected to confirm readiness to deliver commercial power plants.
- 3 **Development of Market:** Pipeline of prospective early adopters is expected to capture market leadership for fusion energy.

General Fusion's Magnetized Target Fusion technology

The fusion equivalent of a diesel engine: practical, durable and cost-effective



General Fusion uniquely addresses the four major long-standing barriers to commercial fusion



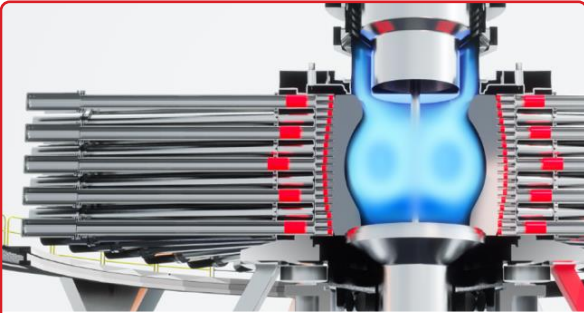
Durable Fusion Machine

Proprietary liquid metal wall compression technology compresses plasma and protects machine from fusion damage

Shielding not consumed during power plant lifetime



Power Plant Relevant



Sufficient Fuel Production

Proprietary liquid metal (lead-lithium) wall compression technology directly contacts fusion plasma and produces tritium fuel

Clear capability to produce necessary tritium to fuel fusion machine



Affordable Fuel Supply



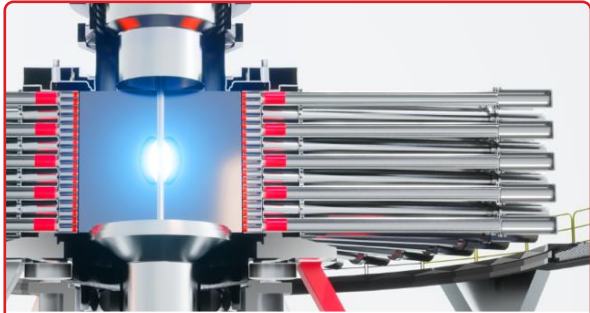
Efficient Energy Conversion

Proprietary liquid metal wall compression technology directly contacts fusion and absorbs heat, maximizing energy capture

Utilizes proven liquid metal to steam heat exchanger technology



Industrialized Process



Economical Fusion Conditions

Proprietary liquid metal wall compression technology avoids expensive high-power lasers or large superconducting magnets using exotic materials

Minimizes the energy required to drive fusion process



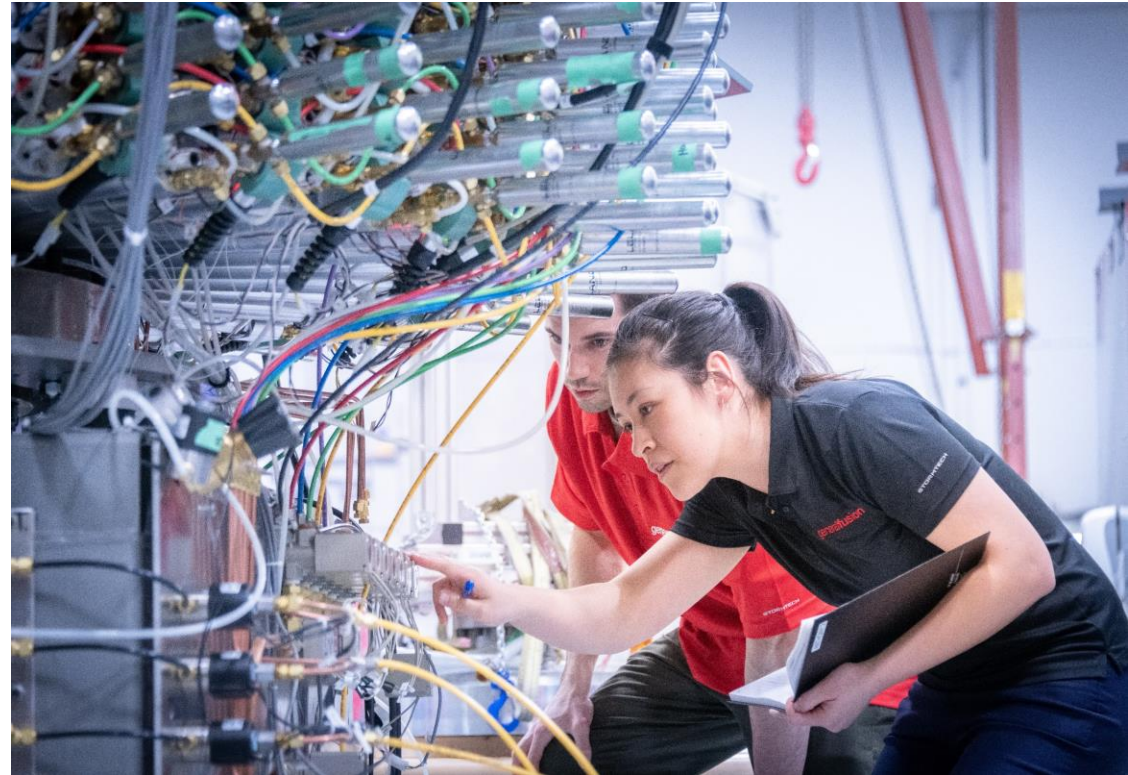
Competitive Plant Capex



General Fusion technology is differentiated by its ability to address the four major long-standing barriers to commercial fusion

Advancing fusion commercialization in Canada

- Our world-leading energy solution will create high-value, high-skill employment, positioning Canada as a world leader in developing, deploying, and exporting clean energy technology.
- We've moved into a major facility near YVR that will enable rapid clean-tech development.
 - This relocation will allow the company to more than quadruple its workforce over the next few years.
 - Facility will provide space for new engineering prototypes designed to validate the performance of key design elements of the Fusion Demonstration Plant and provide operational data supporting our Magnetized Target Fusion development.
 - The facility will host the company's corporate offices, primary fusion technology development organization, and many of our engineering laboratories.



Canadian partnerships & collaborations

Bruce Power

- General Fusion and Bruce Power signed an agreement to explore the deployment of fusion power plants in Ontario.
- General Fusion can help Bruce Power diversify its energy portfolio. Fostering innovation in new energy technologies, including fusion energy, is a pillar of Bruce Power's Net Zero 2050 strategy.
- Together with the Nuclear Innovation Institute, our organizations will develop a go-forward strategy and lead stakeholder and public outreach activities to raise awareness of fusion energy.

Canadian Nuclear Laboratories

- General Fusion is collaborating with CNL to develop tritium extraction techniques for use in commercial fusion power plants.

Hatch

- General Fusion partnered with Hatch, which supplies the company with power plant engineering expertise to design and procure Fusion Demonstration Plant systems and components.

“ FUSION IS A KEY EMERGING TECHNOLOGY THAT IS COMPLEMENTARY TO THE EMISSIONS-FREE ELECTRICITY WE PRODUCE. WE LOOK FORWARD TO APPLYING OUR EXPERIENCE AND EXPERTISE IN INNOVATION, CLEAN ENERGY PRODUCTION, AND POLICY DEVELOPMENT TO COLLABORATE WITH GENERAL FUSION.”

Richard Horrobin | Vice President, Business Development
& Energy Innovation, Bruce Power



ONTARIO, CANADA

Market Development Advisory Committee (MDAC)

GENERAL FUSION MARKET DEVELOPMENT ADVISORY COMMITTEE

Nearly a dozen leading energy and industrial companies will support General Fusion in designing a practical fusion power plant and supportive market framework.



CLEAN ENERGY. EVERYWHERE. FOREVER.™

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