



General Fusion Achieves Compressional Plasma Heating with LM26 Magnetized Target Fusion Machine

June 22, 2026

The results, submitted for peer review and publicly available, demonstrate significant progress toward key 1 keV electron temperature milestone

VANCOUVER, British Columbia, June 22, 2026 (GLOBE NEWSWIRE) -- [General Fusion Inc.](#) ("General Fusion" or the "Company"), a leader in the global race to commercialize fusion energy, has achieved significant progress toward its next major technical milestone with its innovative large-scale Magnetized Target Fusion ("MTF") machine, Lawson Machine 26 ("LM26"). The results show meaningful plasma heating to electron temperatures of approximately 8.4 million degrees Celsius or 0.72 keV, driven by the compression of a plasma with a lithium liner. This is a key indicator of success for the Company's uniquely practical approach to fusion energy.

These results are detailed in a technical paper being concurrently posted on General Fusion's [website](#) and submitted for peer review.

LM26 is the first MTF demonstration machine to be built at a commercially relevant scale, and it mechanically compresses plasma with a lithium liner. The Company's next major targeted milestone with LM26 is 1 keV electron temperature.

Since it started operating in 2025, LM26 has completed a series of plasma compressions with results that advance the Company's groundbreaking technology. These results, detailed in the technical paper, include:

- Electron temperature of approximately 8.4 million degrees Celsius (0.72 keV +/- 0.08), which represents a more than 3 times increase in electron temperature during mechanical compression, largely due to plasma compressional heating. This is believed to be a unique result for General Fusion's practical MTF approach, which uses a plasma solely heated by mechanical compression after it is formed. These results are supported by multiple diagnostics, including Thomson scattering and Absolute Extreme Ultraviolet (AXUV) systems.
- Significant plasma density and poloidal magnetic field increases during compression, both to 10 times starting values; these increases are similar to or better than results achieved in prior General Fusion test beds and at significantly larger scale.
- Plasma stability until deep into compression.
- No significant plasma contamination by the lithium liner during the stable compression phase.
- Observed increase in neutron yield during compression.

The Company believes these results validate the operating principles of the LM26 machine and lay the foundation for planned increases in starting plasma parameters that are expected to enable the mechanical compression of plasma to increasingly higher densities and temperatures. While these preliminary results undergo peer review for potential scientific journal publication, the Company intends to continue optimizing LM26 performance toward achieving 1 keV electron temperature, its first major targeted milestone.

"We are forging a new path in fusion with our uniquely practical MTF approach. The results announced today are all key indicators of real-world progress toward our targeted technical milestones with LM26," said Greg Twinney, Chief Executive Officer at General Fusion. "I am grateful to our team for their unwavering dedication and expertise, as well as our collaborators at the UK Atomic Energy Authority, Princeton Plasma Physics Laboratory, General Atomics, and others who have supported our diagnostic efforts with LM26."

"The LM26 experiments have delivered an important validation of General Fusion's Magnetized Target Fusion approach," said Tony Donné, Chair of General Fusion's Science and Technology Advisory Committee and former Chief Executive Officer of EUROfusion. "The observed increases in magnetic field, plasma density, and electron temperature during compression demonstrate substantial technical progress and are consistent with the expected behavior from modelling and simulations. The agreement between experiment and theory is particularly encouraging, as it provides confidence that the planned machine upgrades will enable access to even more demanding plasma conditions and bring the technology closer to its next major milestones."

General Fusion [previously announced](#) execution of a business combination agreement with Spring Valley Acquisition Corp. III ("Spring Valley" or "SVAC") (the "Proposed Business Combination"). At the closing of the Proposed Business Combination, Spring Valley will be renamed "General Fusion Group Ltd.," and the combined company's shares and warrants are expected to trade on Nasdaq under the ticker symbols "GFUZ" and "GFUZW," respectively, subject to approval of its listing application. Spring Valley set a meeting date of July 6, 2026, for its extraordinary general meeting of shareholders to approve the Proposed Business

Combination. If the Spring Valley and General Fusion securityholders vote to approve the Proposed Business Combination, the transaction is expected to close shortly thereafter, subject to the satisfaction of customary closing conditions.

Quick Facts:

- General Fusion's Magnetized Target Fusion ("MTF") is designed to solve significant barriers to commercializing fusion energy at a time when electricity demand is surging, and nations around the world are racing to commercialize fusion power.
- As a technology, MTF aims to achieve fusion in a practical way, avoiding superconducting magnets and high-powered lasers, while enabling the use of existing materials for durable machines that would produce cost-effective energy.
- In early 2025, General Fusion announced that it had designed, built, and begun operating its Lawson Machine 26 ("LM26") fusion demonstration machine in under two years. LM26 is the first MTF demonstration machine to be built at a commercially relevant scale. It mechanically compresses plasma with a lithium liner at 50% commercial-scale diameter, based on current design parameters.
- LM26 aims to achieve key fusion technical milestones: plasma heating to 1 keV (10 million degrees Celsius), then 10 keV (100 million degrees Celsius), and ultimately the Lawson criterion, the combination of fusion parameters that can produce net fusion energy in the plasma.

About General Fusion

General Fusion is pursuing a fast and practical approach to commercial fusion energy and is headquartered in Vancouver, Canada. The Company was established in 2002 and has been funded by a global syndicate of leading energy venture capital firms, industry leaders, and technology pioneers. Learn more at www.generalfusion.com.

About Spring Valley Acquisition Corp. III

Spring Valley is a part of a family of investment vehicles formed for the purpose of acquiring or merging with a business focused on the Power Infrastructure and Decarbonization sectors. Over the past five years, Spring Valley vehicles have raised \$920 million in four IPOs. Spring Valley completed a business combination with NuScale Power Corporation, a leading U.S. small modular reactor technology company, and Spring Valley II completed a business combination with Eagle Nuclear Energy Corp., a next-generation nuclear energy company with rights to the largest open pit-constrained measured and indicated uranium deposit in the United States. SVAC maintains a corporate website at <https://sv-ac.com>.

Cautionary Note Regarding Forward-Looking Statements

Certain statements included in this document are not historical facts but are forward-looking statements for purposes of the safe harbor provisions under the United States Private Securities Litigation Reform Act of 1995. All statements other than statements of historical facts contained in this document are forward-looking statements.

Any statements that refer to projections, forecasts or other characterizations of future events or circumstances, including any underlying assumptions, are also forward-looking statements. In some cases, you can identify forward-looking statements by words such as "estimate," "plan," "project," "forecast," "intend," "expect," "anticipate," "believe," "seek," "strategy," "future," "opportunity," "may," "target," "should," "will," "would," "will be," "will continue," "will likely result," "preliminary," or similar expressions that predict or indicate future events or trends or that are not statements of historical matters, but the absence of these words does not mean that a statement is not forward-looking. Forward-looking statements include, without limitation, statements regarding (i) the significance of the scientific results announced herein; (ii) the possibility that the Company will achieve its targeted milestones, including 1 keV plasma heating; (iii) the closing of the Proposed Business Combination; (iv) SVAC's, General Fusion's, or their respective management teams' expectations concerning General Fusion's plan to go public through the Proposed Business Combination and expected benefits or timing thereof; (v) the outlook for General Fusion's business, including its ability to commercialize MTF or any other fusion technology on its expected timeline or at all; and (vi) statements regarding the current and expected results of General Fusion's LM26 program; as well as any information concerning possible or assumed future results of operations of General Fusion.

The forward-looking statements are based on the current expectations of the management team of each of SVAC and General Fusion, as applicable, and are inherently subject to uncertainties and changes in circumstance and their potential effects. There can be no assurance that future developments will be those that have been anticipated. These forward-looking statements involve a number of risks, uncertainties, or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to: the risk that the results disclosed herein are not accepted or validated by the scientific community; the risk that the peer review process does not substantiate the results described in this document; the risk that these results are not successfully repeated on a larger scale; the risk that the scientific and technical assumptions underlying the results described herein prove to be incorrect; the risk that the results disclosed herein do not prove to be as significant to the operation of LM26 as expected; the risk that the Proposed Business Combination may not be completed in a timely manner or at all, which may adversely affect the price of SVAC's securities; the risk that the conditions to the consummation of the Proposed Business Combination, including the adoption of the business combination agreement, dated January 21, 2026, among General Fusion, SVAC, and the other party thereto (as amended the "Business Combination Agreement") by the shareholders of SVAC and General Fusion and the receipt of regulatory

approvals are not satisfied or waived; the risk that there occurs any event, change or other circumstance that could give rise to the termination of the Business Combination Agreement; the risk that the announcement or pendency of the Proposed Business Combination has a negative effect on General Fusion's business relationships, performance, and business generally; the risk that the Proposed Business Combination disrupts current plans of General Fusion and potential difficulties in its employee retention as a result of the Proposed Business Combination; the risk of legal proceedings against General Fusion or SVAC related to the Proposed Business Combination; the risk that the anticipated benefits of the Proposed Business Combination are not realized; the risk that the combined entity is unable to maintain the listing of SVAC's securities or to meet listing requirements and maintain the listing of the combined company's securities on Nasdaq; the risk that the Proposed Business Combination may not be completed by SVAC's business combination deadline and the potential failure to obtain an extension of the business combination deadline if sought by SVAC; the risk that the price of the combined entity's securities may be volatile due to a variety of factors, including changes in laws, regulations, technologies, natural disasters, national security tensions, and macro-economic and social environments affecting its business; the risk of changes in the laws and regulations governing General Fusion's research and development activities; the risk that General Fusion fails to commercialize MTF on the expected timeline or at all, including any failure to achieve the objectives of the LM26 program; the risk of the effects of climate change, extreme weather events, water scarcity, and seismic events, and that strategies to deal with these issues are not effective; the risk of fluctuations in currency markets; the risk that General Fusion is unable to complete and successfully integrate any future acquisitions; the risk of increased competition in the fusion industry; the risk of supply chain disruptions and that materials are in limited supply; and the risk that the proposed private placement of convertible preferred shares and warrants by General Fusion (the "PIPE Financing") may not be completed, or that other capital needed by the combined company may not be raised on favorable terms, or at all, including as a result of the restrictions agreed to in connection with the PIPE Financing. (The foregoing list is not exhaustive, and there may be additional risks that neither General Fusion nor SVAC presently know or that SVAC and General Fusion currently believes are immaterial. You should carefully consider the foregoing factors, any other factors discussed in this document and in the other filings and potential filings by General Fusion, SVAC, or the combined company resulting from the proposed transaction with the U.S. Securities and Exchange Commission (the "SEC"), including those described under the heading the "Risk Factors."

General Fusion and SVAC caution you against placing undue reliance on forward-looking statements, which reflect current beliefs and are based on information currently available as of the date a forward-looking statement is made. Forward-looking statements set forth in this document speak only as of the date of this document. Neither General Fusion nor SVAC undertakes any obligation to revise forward-looking statements to reflect future events, changes in circumstances, or changes in beliefs, except as required by applicable securities laws. In the event that any forward-looking statement is updated, no inference should be made that General Fusion or SVAC will make additional updates with respect to that statement, related matters, or any other forward-looking statements.

Important Information for Investors and Shareholders

In connection with the Proposed Business Combination, General Fusion and SVAC jointly filed with the SEC a registration statement on Form F-4 (the "Registration Statement") which includes a preliminary prospectus with respect to SVAC's securities to be issued in connection with the Proposed Business Combination and a preliminary proxy statement in connection with SVAC's solicitation of proxies for the vote by SVAC's shareholders with respect to the Proposed Business Combination and other matters described in the Registration Statement. On June 12, 2026, the SEC declared the Registration Statement effective and SVAC filed the definitive proxy statement (the "Proxy Statement") with the SEC. SVAC mailed copies of the Proxy Statement to SVAC's shareholders as of the record date of June 12, 2026. Before making any investment or voting decision, investors and security holders of SVAC and General Fusion are urged to read the Registration Statement and the Proxy Statement, and any amendments or supplements thereto, as well as all other relevant materials filed or that will be filed with the SEC in connection with the Proposed Business Combination as they become available because they will contain important information about General Fusion, SVAC and the Proposed Business Combination. Investors and security holders are able to obtain free copies of the Registration Statement, the Proxy Statement and all other relevant documents filed or that will be filed with the SEC by SVAC through the website maintained by the SEC at www.sec.gov. In addition, the documents filed by SVAC may be obtained free of charge from SVAC's website at <https://sv-ac.com> or by directing a request to Spring Valley Acquisition Corp. III, Attn: Corporate Secretary, 2100 McKinney Avenue, Suite 1675, Dallas, Texas 75201. The information contained on, or that may be accessed through, the websites referenced in this document is not incorporated by reference into, and is not a part of, this document.

Participants in the Solicitation

General Fusion, SVAC and their respective directors, executive officers and other members of management and employees may, under the rules of the SEC, be deemed to be participants in the solicitations of proxies from SVAC's shareholders in connection with the Proposed Business Combination. For more information about the names, affiliations and interests of SVAC's directors and executive officers, please refer to the Final Prospectus and the Registration Statement, Proxy Statement and other relevant materials filed or to be filed with the SEC in connection with the Proposed Business Combination when they become available. Shareholders, potential investors and other interested persons should read the Registration Statement and the Proxy Statement carefully before making any voting or investment decisions. You may obtain free copies of these documents from the sources indicated above.

No Offer or Solicitation

This document shall not constitute a "solicitation" as defined in Section 14 of the Securities Exchange Act of 1934, as amended. This document shall not constitute an offer to sell or exchange, the solicitation of an offer to buy or a recommendation to

purchase, any securities, or a solicitation of any vote, consent or approval, nor shall there be any sale, issuance or transfer of securities in any jurisdiction in which such offer, solicitation or sale may be unlawful under the laws of such jurisdiction. No offering of securities in the Proposed Business Combination shall be made except by means of a prospectus meeting the requirements of the Securities Act of 1933, as amended, or an exemption therefrom.

Investor Relations Contact:

You can contact General Fusion's Investor Relations team by email at: investors@generalfusion.com.

If you are based in North America, you may also leave a toll-free voicemail at +1 (833) 717-1519. Callers outside North America can reach us at +1 (236) 253-6968.

Media Relations Contact:

media@generalfusion.com

1-866-904-0995