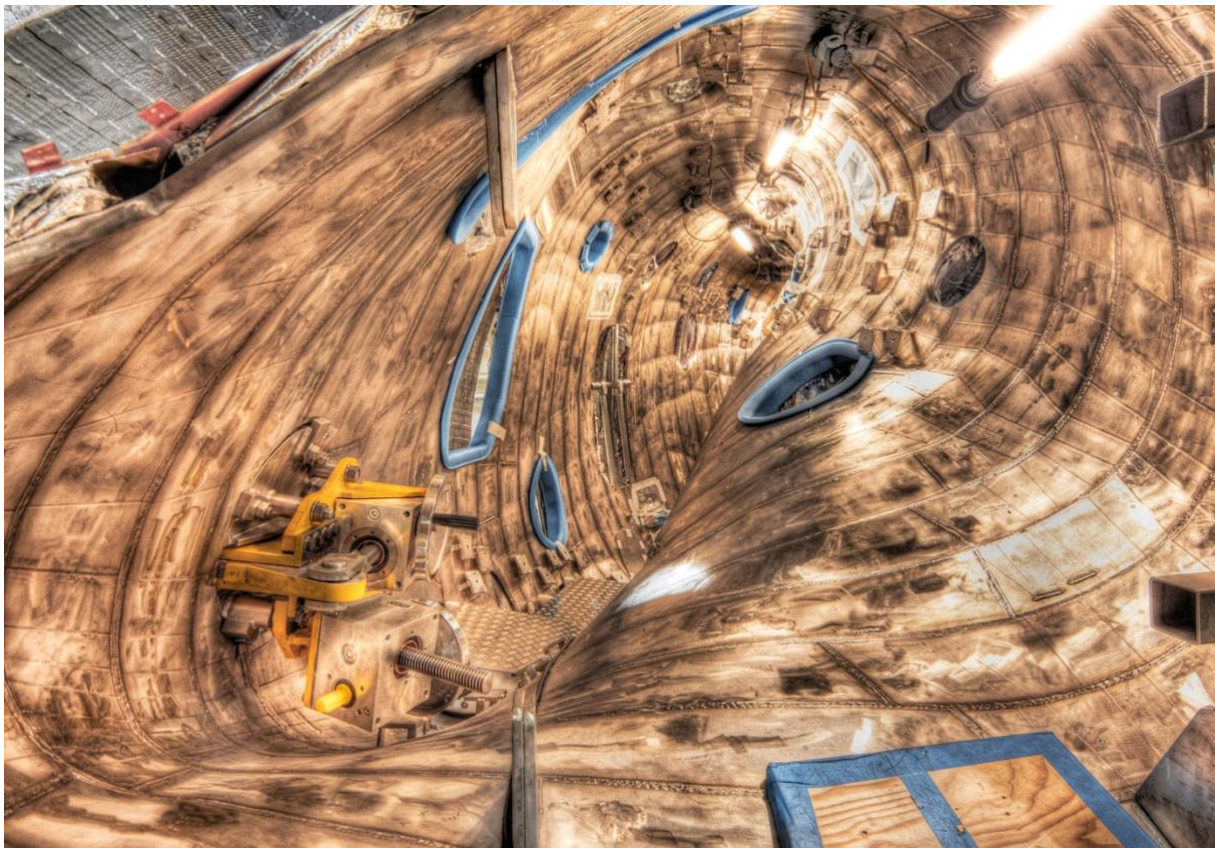


PRESS RELEASE

Gauss Fusion Unveils Vision for Future Fusion Power Plant: Stellarator Takes Center Stage

Hanau / Munich, January 11, 2024 – Gauss Fusion, a Greentech company established by several private European industrial companies with extensive expertise in fusion technology worldwide, is laying the groundwork for the commercialization of fusion energy. After months of meticulous consideration and in-depth analysis, the scientific teams at Gauss Fusion have finalized their concept comparison study and recommended to advance with the stellarator concept as the cornerstone for their future power plant.



Wendelstein 7-X Stellarator (Picture: © Christian Lünig / arbeitsblende.de)

The decision of the Gauss Fusion leadership to embrace the stellarator concept is grounded in several compelling reasons: Chief is the lower cost of electricity, resulting from the stellarator's higher reliability and its intrinsic steady state capability. "This decision marks a significant milestone for us in accelerating the commercialization of fusion energy. It represents a substantial step forward in the journey to produce renewable fusion energy in Europe," remarked Milena Roveda, CEO of Gauss Fusion.

The company's vision revolves around an innovative staged approach to fusion, designed to minimize risk, lower capital costs and enhance flexibility throughout the design process. This is supported by the development of technologies that facilitate phased construction, including an innovative magnet system, an advanced fuel cycle and remote maintenance equipment.

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Gauss Fusion has initiated unique projects and partnerships related to magnet systems, blanket technology and fuel cycle and expects to gain intellectual property for these technologies within the span of five years. CTO Frederick Bordry remarks that many of the technologies that will be developed for the stellarator could also be used for tokamaks. He highlights the need to pursue with high urgency the development of the blanket and fuel cycle systems which have the lowest technical readiness in fusion power plants. The Gauss Fusion engineering team counts on the expertise of shareholders that have a long track record in dealing with the materials required for the fusion fuel cycle.

Gauss Fusion has involved industry partners with experience in building components for fusion devices from the very beginning. In addition to this, the company emphasizes the need for private public partnerships and the necessity to integrate results of physics and technology research from prominent present and future European facilities such as Wendelstein-7X, IFMIF-DONES, and ITER.

The close cooperation between industry and science also has won over Prof. Sibylle Günter, scientific director of the German Max-Planck-Institute for Plasma Physics (IPP): "We are looking forward to working with Gauss Fusion. We want to help build a fusion power plant as soon as possible based on our scientific work with Wendelstein-7X. It is a significant step that this company, with its unique industrial and engineering experience, is driving the development and promotion of fusion energy. This can significantly shorten the journey to a magnetic confinement fusion power plant."

Through a combination of industrial experience, engineering leadership, scientific know-how and vision for the future, Gauss Fusion is determined to lead the way in fusion energy production. By choosing the stellarator concept for their power plant and emphasizing flexibility in construction, Gauss Fusion is poised to redefine the fusion industry and bring us one step closer to clean, abundant, and sustainable energy.

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About Gauss Fusion

Gauss Fusion is a Greentech venture founded in 2022 by private industrial companies. The company brings together a combination of cutting-edge scientific research and industrial expertise on fusion energy that is unique in Europe.

The founding companies from Germany, France, Italy and Spain have extensive expertise in fusion technology. In addition, Gauss Fusion cooperates with leading European research institutes. These include, among others: CERN, the Max Planck Institute for Plasma Physics (IPP), the Karlsruhe Institute of Technology (KIT), and ENEA in Italy.

With this impressive knowledge base from industry and academia, and through strategic public-private partnerships, Gauss Fusion is pursuing the goal of bringing renewable fusion energy to market at high-speed using efficient structures, and represents an entrepreneurial approach that aims to significantly accelerate development through public-private partnerships (PPP).

<https://gauss-fusion.com>

Press Contact

Eric Weisner / Michael Zell

Fink & Fuchs AG
Berliner Straße 164
65205 Wiesbaden
Germany

T: +49 611 74 13 1-(0) 57
E: gauss-fusion@finkfuchs.de