Freemelt receives a new order from United Kingdom Atomic Energy Authority (UKAEA)

Freemelt has received a new order from UKAEA for a tungsten materials development project aiming to accelerate the development of fusion energy.

Freemelt and UKAEA (United Kingdom Atomic Energy Authority) have been collaborating since 2023 on the development of material processes for E-PBF (Electron Powder Bed Fusion) printing of tungsten components for use in fusion energy power plants. Following the successful results of the initial project, UKAEA has committed to phase 2, where Freemelt will develop and print tungsten components for the further development of fusion energy power plants.

The energy industry is undergoing significant development, driven by technological advancements, and increasing awareness of the need for sustainable fossil-free energy sources. Among these, fusion energy has gained extra interest as a potential solution. UKAEA is the UK's national organization responsible for the delivery of sustainable fusion energy. Supported and funded by the UK government, UKAEA leads the fusion research and is driving commercial fusion energy development.

Freemelt CEO Daniel Gidlund comments,
"We are excited and motivated to enhance our partnership with UKAEA and be an active part in the rapid advancement of renewable energy initiatives. Fusion energy applications are among the most challenging ones to provide components for, due to the harsh conditions, therefore it is especially rewarding that Freemelt has been given the trust to support UKAEA in this endeavor."

Doctor Miguel Zavala-Arredondo, UKAEA comments:
"Fusion is one of the great scientific and engineering challenges of our time. I am pleased that, following the successful results of our first project, we will continue the partnership with Freemelt, focusing on scalability and increasing technology readiness."

Fusion occurs when light nuclei fuse to form a heavier nucleus, a process that releases enormous amounts of energy when it occurs as a collective process in plasma. Fusion is the opposite of nuclear fission, the reaction that is used in nuclear power stations today, in which energy is released when a nucleus splits apart to form smaller nuclei. Fusion is based on the same processes that power the sun and the stars. Fusion has the potential to be a safe and sustainable part of the world's future energy supply, due to its potential to generate abundant amounts of low-carbon energy without producing high-level or long-lived radioactive waste.

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About Us

Freemelt is a deep-tech, green-tech company whose groundbreaking solution creates new opportunities for rapid growth in 3D printing, also known as additive manufacturing (AM). AM is a technology under substantial growth, revolutionizing the traditional manufacturing industry by offering a sustainable production process with optimized product design, shorter lead times, minimal material waste, and reduced environmental impact. Freemelt's protected technology enables more cost-effective 3D printing with consistent and high quality. A open-source approach will provide conditions for significant growth and expansion into new manufacturing markets. Freemelt was founded in 2017, is listed on Nasdaq First North Growth Market, headquarters in Mölndal, has a manufacturing unit in Linköping, and sales offices in the Netherlands and the USA. Read more at www.freemelt.com

Attachments

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