

KBR Selected As Key Commercialization Partner For Samsara Eco's First-Of-A-Kind Enzymatic Recycling Plant

May 1, 2025

CANBERRA, Australia— April 30, 2025 — KBR announced today it will support biotech innovator, Samsara Eco, to design its first-of-a-kind plastics and textile enzymatic recycling plant, due for completion in early 2028.



Samsara Eco's enzymatic recycling technology aims to create a continuous recycling loop for some of the most common types of plastic and synthetic fibre – materials that have traditionally been difficult or impossible to recycle. Powered by Samsara Eco's proprietary AI platform, the company's patented enzymes break down plastic to its original building blocks (monomers) which aim to allow plastics to be continuously remanufactured into new products without degradation in quality and with a low carbon footprint.

Unlike other recycling methods, Samsara Eco's technology has demonstrated the recycling of notoriously difficult plastics, including nylon 6,6 and mixed fibres, as well as colored and dyed fabric blends. This breakthrough technology is expected to be critical towards achieving the goal of creating a circular loop for all plastics recycling, helping companies utilise resources and divert waste otherwise destined for landfills.

Under the terms of the agreement, KBR will perform a pre-FEED (front-end engineering design) of the project by the end of Q2 2025. KBR's technical and commercial experts will then deliver a FEED engineering package for the process design to build a 20,000 metric tons per year commercial facility for nylon 6,6.

"KBR is uniquely equipped to deliver world-class solutions that help our customers bring sustainable technology to market, and we are thrilled to support Samsara Eco on this unique opportunity," said Jay Ibrahim, President, KBR Sustainable Technology Solutions. "With this award, KBR continues to solidify our commitment to sustainability and technological innovation."

Paul Riley, Founder and CEO of Samsara Eco commented, "We are charging full speed ahead to deliver our first-of-a-kind plant to fuel a circular economy and support our brand partners' ambition to create more circular products from low-carbon recycled

materials. KBR brings unmatched engineering expertise. This will ensure we can design and build our facility with speed and precision. We're proud to have KBR in our corner, helping bring our technology to industrial scale."

Samsara Eco is already working with leading brands including lululemon to swap virgin materials for recycled materials. Last year, it debuted the world's first enzymatically recycled nylon 6,6 product. It also launched the first product made from enzymatically recycled polyester, creating lululemon's limited edition Packable Anorak jacket.

At KBR, a sustainable future begins now.

Posted: May 1, 2025

Source: KBR