

Silex World Positions Integrated Platform to Connect the Future Critical Materials Economy

Silex World integrates recovery, refining, traceability and manufacturing into a scalable platform for resilient critical materials supply chains.

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/EINPresswire.com/ -- [Silex](#) World Ltd, a University of Leeds spinout focused on critical materials processing, today announced the continued evolution of its integrated technology platform, designed to connect every stage of the emerging critical materials value chain—from recovery and refining through to verified industrial supply.



The company believes the future of critical materials will not depend on individual technologies operating in isolation, but on integrated systems capable of linking material recovery, processing, traceability, and manufacturing into a unified industrial ecosystem.

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The challenge is no longer simply producing critical materials. It is connecting every stage of the supply chain so materials move efficiently from recovery to manufacturing.”

Michael Hodges

Silex World's platform brings together rare earth recovery, continuous low-energy processing, modular deployment, digital traceability, and multi-feedstock capability into a scalable framework intended to support resilient supply chains across allied economies.

As governments and industry seek to strengthen domestic manufacturing capability, the need for connected

processing infrastructure is becoming increasingly important. Critical materials must not only be recovered and refined efficiently—they must also be verified, transported, and delivered into manufacturing supply chains with confidence.

Silex World believes future industrial competitiveness will be defined by organisations capable of connecting these individual elements into a coherent operational platform.

The company's integrated approach is designed to support:

- * Recovery from multiple primary and secondary feedstocks
- * Continuous, energy-efficient processing technologies
- * Modular deployment close to industrial demand
- * Digital verification and chain-of-custody across the production pathway
- * Integration with regional manufacturing ecosystems
- * Scalable deployment across allied markets

The company is continuing commercial deployment activities internationally while engaging with industrial partners, manufacturers, government organisations, and strategic investors to explore opportunities for future regional expansion.

Michael Hodges, Founder of Silex World Ltd, said:

"The challenge is no longer simply producing critical materials. It is connecting every stage of the supply chain so that materials move efficiently from recovery to manufacturing."

He added:

"Our vision is to build an integrated platform that links processing, verification, and manufacturing into a resilient industrial ecosystem capable of supporting the next generation of strategic industries."

Silex World believes the next phase of critical materials development will be characterised by integrated industrial platforms rather than isolated processing facilities. By combining scalable technologies with regional deployment models and trusted digital infrastructure, the company aims to help create resilient supply chains capable of supporting defence, electrification, renewable energy, semiconductors, robotics, and advanced manufacturing.

About Silex World Ltd

Silex World Ltd is a University of Leeds spin-out company developing technologies for critical materials recovery, rare earth recycling, advanced materials processing, industrial minerals upgrading, and sustainable manufacturing systems. The company is focused on creating scalable solutions that support resilient and circular supply chains for strategic materials.

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