

Silex World Advances India as Strategic Base for Critical Materials Processing and International Growth

Silex World combines UK-developed technology with Indian industrial capability to build a strategic base for critical materials processing and global growth.

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/EINPresswire.com/ -- [Silex](#) World Ltd, a University of Leeds spinout focused on [critical materials](#) processing, today announced further progress in its India strategy as the company develops a regional base for the deployment, validation, and future commercialisation of its critical materials technologies.



Silex World - UK & India teaming up

The initiative forms an important part of Silex World's international growth strategy and is intended to combine UK-developed technology with India's engineering capability, manufacturing infrastructure, industrial feedstocks, and rapidly expanding demand for strategic materials.

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Michael Hodges

Silex World is progressing activities in India with local industrial and technical partners, establishing the foundations for processing capability that can support both the Indian market and the company's wider international deployment ambitions.

The company believes India is particularly well positioned to become an important part of emerging global critical materials supply chains as manufacturers and governments seek to diversify production and establish alternatives to geographically concentrated processing capacity.

Rather than viewing India solely as an end market, Silex World sees the country as a potential industrial platform from which processing technologies, engineering expertise, operational knowledge, and critical material products can be developed for wider international markets.

Silex World's approach brings together its capabilities in rare earth recovery, multi-feedstock processing, continuous low-energy conversion, modular processing infrastructure, and digital material traceability.

The India strategy is being developed to support:

- * Processing of rare earth-bearing and other strategic material feedstocks
- * Recovery of value from industrial residues, manufacturing waste, and secondary resources
- * Development and validation of modular processing infrastructure
- * Continuous low-energy processing under industrial operating conditions
- * Collaboration with Indian engineering and manufacturing capability
- * Development of secure and traceable critical materials supply chains
- * Creation of a regional platform capable of supporting future international deployment

India's rapidly developing automotive, renewable energy, electronics, defence, advanced manufacturing, and infrastructure sectors are creating increasing demand for strategic materials and the technologies required to process them.

At the same time, the international drive to diversify critical materials supply chains is creating an opportunity for India to play a significantly greater role in processing and manufacturing. Silex World believes this combination creates a strong environment in which to develop and demonstrate a new generation of critical materials processing infrastructure.

Michael Hodges, Founder of Silex World Ltd, said:

"India is much more than a market for Silex World. It has the engineering capability, manufacturing base, industrial resources, and ambition to become an important part of the next generation of global critical materials supply chains."

He added:

"Our objective is to combine technology developed in the UK with industrial capability in India and create a platform that can ultimately support customers and supply chains across multiple international markets."

Silex World's strategy is based on developing processing capability close to both feedstock and manufacturing demand. The company believes this can reduce dependence on long international processing routes while enabling materials recovered from industrial residues, recycled products, manufacturing scrap, and selected primary resources to be returned to productive industrial use.

The India programme is also expected to provide Silex World with valuable operational and engineering experience as the company prepares for further deployment opportunities in the

United Kingdom, Europe, North America, and other allied markets.

Silex World believes the future critical materials economy will increasingly be built around networks of regional processing centres rather than dependence upon a small number of globally concentrated refining locations.

India represents an important component of that strategy.

The company is continuing to work with industrial, technical, government, and investment stakeholders to develop opportunities for critical materials recovery and processing while evaluating additional feedstocks and applications suitable for its technology platform.

Through its growing activities in India, Silex World aims to demonstrate how UK-developed critical materials technology can be combined with international industrial capability to create resilient, commercially scalable, and geographically diversified supply chains.

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.

Michael Hodges

Silex World Ltd

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