

GLE selected for DOE Innovative Technology Award but not LEU Award

6 January 2026

Silex Systems Limited (**Silex** or the **Company**) (**ASX: SLX; OTCQX: SILXY**) today announced that Global Laser Enrichment (**GLE**), the exclusive licensee of the SILEX uranium enrichment technology, was notified by the U.S. Department of Energy (**DOE**) that it has been selected for an award, subject to final contract negotiations, of up to US\$28 million to advance next generation laser-based uranium enrichment technology. GLE was not selected by the DOE for a US\$900 million award under the Low Enriched Uranium (**LEU**) Request for Proposals.

GLE remains committed to its mission of supporting a secure, domestic nuclear fuel cycle and is actively pursuing next steps to advance the planned Paducah Laser Enrichment Facility (**PLEF**) and commercial deployment of its laser enrichment technology. The significantly higher enrichment efficiency and throughput of the SILEX technology places GLE in a very strong position relative to competitors using second generation centrifuge technology.

Reaffirming GLE's plan forward:

- **Depleted Tails Re-enrichment:** GLE intends to re-enrich DOE high-assay depleted uranium tails at the PLEF facility. This would generate up to 5 million pounds of uranium and 2,000 metric tonnes of conversion capacity annually for up to three decades – enough domestic supply to fuel around 10% of current US nuclear reactor demand. This represents a nearly ten-fold increase in domestic natural uranium output, significantly enhancing US national energy security and fuel independence.
- **Commercialising Innovative Technology:** Silex and GLE are commercialising the world's most advanced enrichment technology. Having achieved large-scale demonstration and the key de-risking TRL-6 milestone in October 2025, as verified by an independent engineering consultant, the SILEX laser uranium enrichment process offers significant efficiencies over current centrifuge enrichment.
- **Advancing Licensing Efforts:** GLE is the only new market entrant with an enrichment licence application under Nuclear Regulatory Commission (**NRC**) review. GLE will continue working with the NRC to secure its license for the planned PLEF.
- **Engaging Industry Partners:** GLE will continue to collaborate with utilities, reactor developers, nuclear fuel suppliers, and other entities to align its technology with evolving market needs.

Subject to various factors, including industry and government support, a feasibility study for the PLEF, and supportive market conditions, the SILEX uranium enrichment technology could become a major contributor to nuclear fuel production for the world's current and future nuclear reactor fleet, through the production of uranium in several different forms, including natural grade uranium as UF₆, LEU and LEU+, and high-assay LEU (**HALEU**) for next-generation advanced reactors, including small modular reactors.

Authorised for release by the Silex Board of Directors.

Further information on the Company's activities can be found on the Silex website: www.silex.com.au or by contacting:

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Important Information:

About Silex Systems Limited (ASX: SLX) (OTCQX: SILXY)

Silex Systems Limited ABN 69 003 372 067 (**Silex or Company**) is a technology commercialisation company, the primary asset of which is the SILEX laser enrichment technology (**SILEX technology**), originally developed at the Company's technology facility in Sydney, Australia. The SILEX technology has been under development for uranium enrichment jointly with US-based exclusive licensee, Global Laser Enrichment LLC (**GLE**), for a number of years. Success of the SILEX uranium enrichment technology development program and the proposed Paducah commercial project remain subject to a number of factors, including the satisfactory completion of the SILEX technology maturation program, nuclear fuel market conditions, industry and government support, project feasibility, and commercial plant licensing, and, therefore, remains subject to associated risks.

Silex also is at various stages of development of additional commercial applications of the SILEX technology, including the production of 'Quantum Silicon' (**Q-Si**) for the emerging technology of silicon-based quantum computing. The Q-Si Project remains dependent on the outcomes of the Project, as well as the successful development of silicon-based quantum computing technology by third parties, and is, therefore, subject to various risks. Silex also is conducting early-stage research activities in its Medical Isotope Separation Technology (**MIST**) Project, which also is subject to various risks and outcomes. The commercial future of the SILEX technology in application to uranium, silicon, medical, and other isotopes therefore is uncertain, and any plans for commercial deployment are speculative.

Forward Looking Statements

The commercial potential of the abovementioned technologies and activities is currently unknown. Accordingly, no guarantees as to the future performance of these technologies can be made. The nature of the statements in this Announcement regarding the future of the SILEX technology as applied to uranium enrichment, Q-Si production, medical and other isotope separation projects, and any associated commercial prospects, including technology maturation activities and other commercialisation milestones at GLE, are forward-looking and are subject to a number of variables, including, but not limited to, known and unknown risks, contingencies, and assumptions that may be beyond the control of Silex, its directors, and management. You should not place reliance on any forward-looking statements as actual results could be materially different from those expressed or implied by such forward-looking statements, as a result of various risk factors. Further, the forward-looking statements contained in this disclosure involve subjective judgement and analysis and, accordingly, are subject to: change at any time due to variations in the outlook for, and management of, Silex's business activities (including project outcomes); changes in industry trends and government policies; and new or unforeseen circumstances. The Company's management believes that there are reasonable grounds to make such statements as at the date of this disclosure. Silex does not intend, and is not obligated, to update the forward-looking statements except to the extent required by law or the ASX Listing Rules. None of Silex, its related companies, or any of their respective officers, directors, employees, affiliates, partners, representatives, consultants, agents, or advisers makes any representation or warranty as to the accuracy of any forward-looking statements contained in this Announcement.

Not Advice

Information in this Announcement, including forecast financial information, should not be considered as investment, legal, tax, or other advice. You should make your own assessment and seek independent professional advice in connection with any investment decision.

Risk Factors

Risk factors that could affect the future results and commercial prospects of Silex include, but are not limited to: ongoing economic and social uncertainty, including in relation to global economic stresses, such as interest rates; inflation; tariffs (including tariffs imposed by the United States); geopolitical risks, in particular, those relating to Russia's invasion of Ukraine and tensions between China and Taiwan, which may affect global supply chains and capital markets; uncertainties related to the effects of climate change and mitigation efforts; the results of the GLE/SILEX uranium enrichment technology maturation program; the market demand for natural uranium and enriched uranium; the outcome of the Q-Si Project for the production of enriched silicon for the emerging silicon-based quantum computing industry; the outcome of the MIST Project; the potential development of, or competition from, alternative technologies; the regulatory changes and evolving eligibility criteria under the US *Inflation Reduction Act* (2022) and the *Nuclear Fuel Security Act* (2023); the potential for third party claims against the Company's ownership of Intellectual Property; the potential impact of prevailing laws or government regulations or policies in the US, Australia, or elsewhere; actions taken by the Company's commercialisation partners and other stakeholders that could adversely affect the technology development programs and commercialisation strategies of Silex; and the outcomes of various strategies and projects undertaken by the Company.