

ASX Announcement

Solar Systems Commences On-site Construction Work in Mildura For the Largest Solar Power Station in Australia

22 December, 2011

Solar Systems Pty Ltd, a wholly owned subsidiary of Silex Systems Ltd (ASX:SLX), has announced the commencement of on-site construction work for the first stage of Australia's largest solar power station in Mildura, north west Victoria. This marks the first full-scale commercial deployment of a grid connected solar power station using Solar Systems' unique 'Dense Array' concentrating photovoltaic (CPV) technology. The first stage of the project involving the construction of a demonstration facility of up to 2MW capacity is scheduled to be completed in late 2012. Subject to satisfactory performance of the demonstration facility, grid interconnect and planning activities, a much larger 100MW solar power station (enough to power up to 40,000 average homes) will be constructed on the same site, commencing 2013 and expected to be completed in 2016.

"The Mildura demonstration facility represents a key milestone in the commercialisation of Solar Systems' unique 'Dense Array' CPV technology. We are pleased to have started construction works and look forward to collaborating with the local community in Mildura to make this world-class solar power facility become a reality" Dr Michael Goldsworthy, Silex CEO said today. "We are very excited about the commercial potential of this technology, which is expected to provide very low cost electricity from large utility-scale solar power station projects around the world" he added.

The Mildura solar power station project has received strong financial support of up to \$120 million (subject to milestones being met) from the Victorian State Government (up to \$45 million confirmed) and Australian Federal Government (up to \$75 million confirmed). The company expects several more large scale power station projects to proceed over the next few years in key off-shore markets, including the USA and the Middle East. The company has received strong interest in the technology from these and other markets.

Solar Systems' technology is suited to large utility-scale electrical power generation using the proprietary Dense Array CPV solar conversion system. The technology is being prepared for commercial deployment in the burgeoning global utility-scale solar power station market which is forecast to grow rapidly over the next decade. The key and unique advantages of this technology include the use of advanced 'triple junction' solar cells currently capable of approximately 40% conversion efficiency – approximately double the efficiency of today's best silicon-based cells – and the use of active cooling to maximize power output and lifetime performance from the solar cells.

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

Contacts: Michael Goldsworthy or Julie Ducie on (02) 9532 1331.



Construction works underway at the Mildura Solar Power Station Site

Forward Looking Statements and Business Risks:

Silex Systems is a research and development Company whose assets are its proprietary rights in various technologies, including, but not limited to, the SILEX technology, the SilexSolar technology and business, Solar Systems technology and business, Translucent technology and ChronoLogic technology. Several of the Company's technologies are in the development stage and have not been commercially deployed, and therefore are high-risk. Accordingly, the statements in this announcement regarding the future of the Company's technologies and commercial prospects are forward looking and actual results could be materially different from those expressed or implied by such forward looking statements as a result of various risk factors.

Some risk factors that could affect future results and commercial prospects include, but are not limited to: results from the SILEX uranium enrichment development program and the demand for enriched uranium; the business risks associated with SilexSolar's manufacturing and marketing activities; the risks associated with the development of Solar Systems technology and related marketing activities; the outcomes of the Company's interests in the development of various semiconductor, photonics and alternative energy technologies; the time taken to develop various technologies; the development of competing technologies; the potential for third party claims against the Company's ownership of Intellectual Property associated with its numerous technologies; the potential impact of government regulations or policies; and the outcomes of various commercialisation strategies undertaken by the Company

For personal use only