



## SOR Moisture Energy Pathway to Solar Power Density

Strategic Elements Ltd (ASX: SOR) is pleased to provide further information on the research and development pathway for the Energy Ink™, a world-leading technology generating renewable energy from moisture. The technology is being developed by Australian Advanced Materials Pty Ltd (AAM), a 100% owned company of Strategic Elements Ltd.

Research and development indicates the Energy Ink™ technology is on track to exceed the power density of solar technology due to breakthroughs in converting moisture into energy. The Energy Ink™:

- currently has a peak power density of 14mW/cm<sup>2</sup> which is equivalent to 70% of the power density of solar technology;
- currently has over 200x the power density of other relevant moisture electricity generation technologies published in global literature;
- leverages breakthroughs in the fundamental mechanisms that convert moisture to energy; and
- integrates these breakthroughs into nanoionic inks that enable high power density.

Specific timeframes to achieve development goals are:

- nano-engineering of discoveries in the fundamental mechanisms that convert moisture to energy into an ink formula - 6 weeks;
- optimisation of the ink to produce ultra-thin cells of approx. 200 micrometres (2 pieces of paper) – a further 6 weeks; and
- fabrication and testing of Energy Ink™ cells with **power density exceeding solar** (>20mW per cm<sup>2</sup>) – up to a further 12 weeks.

Power density is a measure of how much power can be generated from a given space. To date, no other relevant renewable energy technology has come close to exceeding the power density of solar technology. Successful development would provide a strong, early indication of the technology's potential; however, it should also be recognised that the technology is under development and still has risks.

### Strategic Elements (ASX:SOR) – Pooled Development Fund

The Australian Federal Government has registered Strategic Elements (SOR) as a Pooled Development Fund with a mandate to back Australian innovation. The Company supports leading Australian scientists and innovators in high-risk-high reward ventures. SOR majority funds initial development whilst seeking a major strategic investor/partner to assist commercialisation. Investors in SOR have potential tax benefits as the Company operates under the Pooled Development Program. More information should be read on the Company's website.

More Information: Mr Charles Murphy, Managing Director, Strategic Elements Ltd  
Phone: +61 8 9278 2788 [admin@strategicelements.com.au](mailto:admin@strategicelements.com.au) [www.strategicelements.com.au](http://www.strategicelements.com.au)

This announcement was authorised for release by the Strategic Elements' Board of Directors.

For personal use only