



## 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.

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