



Energy Ink™ Moisture Dock Advances to Final Testing and Demonstration

Strategic Elements Ltd (ASX: SOR) is pleased to report that final testing has commenced on its breath-activated Moisture Dock demonstrator. In the planned demonstration, electricity generated by a custom Energy Ink™ cell pack within the Dock will charge a removable lithium-ion battery without mains electricity, an external power supply or solar power. The lithium-ion battery will then be used to power on a commercially available Nokia feature phone and make a one-minute call, providing a simple, recognisable proof point that energy has been transferred.

Subject to successful final testing, the full system demonstration **will be conducted during Q4 2026**.

Energy Ink™ is a moisture-energy technology being developed by 100%-owned Australian Advanced Materials Pty Ltd, in collaboration with a world-class materials science team at the University of New South Wales and other research and development partners.

Complete System Demonstration Targeted for Q4 2026

The demonstration will follow these steps:

1. A discharged removable lithium-ion battery is inserted into the Moisture Dock.
2. Breath is introduced into the Dock's sealed chamber to establish the moisture conditions that activate the Energy Ink™ cell pack.
3. Electricity generated by the cell pack passes through commercial e-peas power-management electronics to charge the battery.
4. The battery is removed from the Dock and fitted to a Nokia feature phone, which is then switched on and used to make a one-minute voice call.

Engineered Moisture

The Moisture Dock is an engineering demonstration platform, not a consumer charging product. It aims to demonstrate the principle of engineered moisture: because Energy Ink™ output depends on how wet the cells are, moisture conditions are controlled with the aim of making electrical output more predictable. In the Dock, breath is introduced into a sealed chamber to establish these conditions.

The same principle may be investigated in other settings where moisture is available in a defined or repeatable way, such as skin contact or sweat in wearable patches, liquid droplets applied to packaging or diagnostic tests, and buildings with controlled internal humidity. These are illustrative examples for potential future investigation only.

Final Dock Design and Development

Development work has completed the Dock's breath-capture and moisture-management hardware, integrated it with the Energy Ink™ cell pack, and simplified the energy-transfer architecture. The design addressed the engineering challenges of capturing and accumulating ultra-low-power output, managing losses through the circuitry, and enabling energy transfer into the removable battery for the intended phone demonstration.

The Dock uses a prototype Energy Ink™ cell pack incorporating graphene oxide-based and metallic powder inks. Once the cells are fully wet and activated, the moisture-driven mechanism establishes most of the cell voltage, while the metallic material supplies most of the current and is consumed during operation.

The final design eliminated the need for an intermediate supercapacitor, allowing electricity from the Energy Ink™ cell pack to pass directly through the power-management circuit into the removable battery and reducing component count. The Dock is also modular: its cell pack and battery module are interchangeable, allowing different configurations to be evaluated without redesigning the complete unit.

Further work is required to assess manufacturing processes and scale-up of the prototype inks. Potential partners may be sought to support material selection and co-development, or the adaptation of existing materials and manufacturing technologies.

Separate Battery-Free Energy Ink™ Program

In parallel with the Moisture Dock demonstrator, the Company is progressing a separate battery-free materials program targeting thin, flexible electronic formats. The program is evaluating alternative Energy Ink™ cell architectures, commercial and emerging materials, and potential collaboration opportunities, with a focus on stable, non-consumable battery-free systems.

Conventional batteries can add thickness, complicate assembly and introduce maintenance and disposal requirements that limit the integration of electronics into many products. Battery-free technology could expand the range of everyday products and surfaces able to incorporate low-power electronic functions, potentially including sound, lighting, displays, sensing, authentication and communication. The applications achievable will depend on the electrical output, operating duration and power requirements of the selected electronic components. Evolving regulations for battery removal, replacement and recycling are expected to encourage manufacturers to investigate alternatives to conventional coin-cell batteries.

Further information on the Battery-Free Energy Ink™ Program will be released as appropriate.

About Strategic Elements

Strategic Elements Ltd (ASX: SOR) is a registered Pooled Development Fund that provides patient capital to Australian innovation through wholly owned operating ventures, with the objective of building value before seeking an appropriate strategic partner, investor or commercial pathway.

The Pooled Development Fund structure supports longer-term technology development and provides eligible shareholders with tax concessions including tax-free capital gains and dividends.*

The Company's current operating ventures also include Stealth Technologies Pty Ltd, developer of the EdgeIQ operational intelligence and physical AI technology. The Company also maintains an active program to identify, acquire and develop new opportunities.

More Information

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

*Further information regarding the Pooled Development Fund program is available at the business.gov.au website. Investors should consider obtaining independent taxation advice. Nokia is a registered trademark of Nokia Corporation. Strategic Elements has no affiliation with Nokia Corporation or HMD Global.

Forward-Looking Statements

This announcement contains forward-looking statements regarding the development, application and potential commercialisation of Energy Ink™ technology. These statements are subject to risks and uncertainties, including technical performance, reproducibility, material development, printing and device fabrication, packaging, integration, durability, access to collaborators, manufacturing scale-up and market adoption. No assurance can be given that Energy Ink™ will achieve commercial deployment or that any future collaboration will result in a commercial outcome.