



Energy Ink Advances to Portable Moisture Energy Dock

Strategic Elements Ltd (ASX: SOR) advises that development has commenced on a portable, modular **Moisture Energy Dock** designed to capture, accumulate and transfer **moisture-driven Energy Ink™** electrical energy into a standard **removable lithium-ion battery**.

The objective is to demonstrate a standard lithium-ion feature phone battery being charged inside a Moisture Energy Dock by an Energy Ink™ system operating on moisture — with no connection to mains electricity and no external power supply of any kind, in a pocket-sized unit.

The initial proof point is deliberately simple and easily understood. Subject to successful testing, a removable feature-phone battery charged within the Moisture Energy Dock will be fitted to a commercially available Nokia feature phone to test whether the transferred energy can support a one-minute voice call.

The Moisture Energy Dock program has commenced following successful completion of the engineering concept design stage and reflects the Company's mandate as a Federal Government-registered Pooled Development Fund: backing breakthrough Australian innovation with patient capital.

Modular Development

The Moisture Energy Dock design is deliberately modular: both the Energy Ink™ Cell Pack and the removable battery module are interchangeable, allowing different cell configurations, pack formats, and battery types to be evaluated in future programs without redesigning the complete unit.

The Company will also investigate a “hot-swappable” configuration in future versions — allowing an Energy Ink™ Cell Pack or battery module to be replaced while preserving stored energy and maintaining the dock's electrical state.

Strategic Elements Managing Director, Charles Murphy, said:

"The phone call is a clear and familiar proof point, but what sits behind it is the remarkable part: a standard lithium battery being charged with moisture as the input - no mains power, no external power supply. This is exactly the kind of ambitious, breakthrough Australian technology our Pooled Development Fund structure exists to back - patient capital for opportunities that take time to mature but can deliver significant upside. The broader objective is a modular system for determining whether Energy Ink™ output can be accumulated, buffered and transferred into removable battery formats for future device applications."

Demonstrator Architecture

The 3D-printed pocket-sized device separates a sealed moisture-management section from a protected electronics and battery section. A central element is an ultra-thin supercapacitor acting as an intermediate energy buffer between the Energy Ink™ cell pack and the removable battery: it receives gradual Energy Ink™ output, stabilises it, and supports controlled transfer through the dock's power-management circuitry into the battery.

Why Breath Is a Useful Test Moisture Input

Exhaled air is warm and effectively saturated with water vapour, carrying far more water than the dock's small internal volume can hold as vapour. The program will use breath as a test moisture input — loading an internal reservoir to establish favourable humidity conditions around the Energy Ink™ cells, rather than "storing a breath" inside the dock.

Engineered Moisture and Future Formats

The central principle of engineered moisture is managing the conditions around Energy Ink™ so that its output is designed to be more predictable and usable than relying on ambient humidity alone. The Moisture Energy Dock applies this principle in a sealed, breath-loaded format. The same principle will be assessed in future to other settings where moisture is available in a defined or repeatable way.

The following are illustrative example areas for potential future investigation only:

- skin contact or sweat in a wearable patch;
- a saliva, urine or other liquid droplet deliberately applied to a package or test;
- a plant or horticultural setting with a repeatable moisture cycle;
- a factory exhaust, humid process stream or condensation point.

About Energy Ink™

Energy Ink™ is an early-stage printable energy technology that generates electrical energy from moisture. Developed by Australian Advanced Materials Pty Ltd, a wholly owned venture of Strategic Elements, in collaboration with a world-class materials science team at the University of New South Wales and other collaborators, the technology is being advanced across materials design, scalable fabrication, moisture management, power management and prospective application pathways.

About Strategic Elements

Strategic Elements Ltd (ASX: SOR) is a registered Pooled Development Fund (PDF) — an Australian Federal Government program stimulating investment into Australian innovation. The PDF structure provides eligible shareholders with potential benefits including tax-free capital gains and dividends, while enabling Strategic Elements to pursue breakthrough innovation with longer development horizons. The Company operates as a venture builder, generating high-risk, high-reward ventures by sourcing and combining teams of leading scientists and innovators, majority funding initial development while seeking key partners to assist commercialisation. More information on the PDF program can be found on the Company's website.

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

Risks and Forward-Looking Statement

Shareholders and prospective shareholders should obtain their own taxation advice rather than relying on this summary. Energy Ink™ remains an early-stage research and development technology. The Moisture Energy Dock described in this announcement is a design and testing program, and there can be no assurance that it will achieve its intended technical outcomes. The technology remains subject to risks associated with materials science, supercapacitor and battery-transfer efficiency, durability, shelf life, scalability, intellectual property, regulatory requirements and commercial partnering. Forward-looking statements in this announcement are based on current expectations and assumptions, and actual results may differ materially due to known and unknown risks, many of which are outside the control of Strategic Elements Ltd.