

EDENSHIELD® LAUNCHED TO TARGET DEFENCE & CRITICAL INFRASTRUCTURE MARKETS

HIGH-STRENGTH APPLICATIONS FOR MILITARY AND CIVILIAN INFRASTRUCTURE



HIGHLIGHTS

- **EdenShield®**, a new dedicated Defence, Military and Infrastructure division, has been launched to commercialise Eden's product suite across critical infrastructure and national security applications including drones, data centres, bunkers, military bases, hospitals and defence-related buildings.
- Eden Innovations' EdenCrete range of concrete additives to be used for ultra-high performance concrete, carbon nanotube ("CNT") infused high-strength lightweight plastics, and a dual-fuel diesel system for cheaper, more versatile, backup power generation.

EdenShield® will focus its marketing efforts on the following:

- **EdenCrete® CNT-enhanced concrete admixtures** for use in manufacturing Ultra-High Performance Concrete (UHPC) with enhanced blast resistance, durability and thermal performance, all ideal for military and defence requirements; and
- **A range of existing and planned CNT enriched products** including concrete, paints and coatings that offer superior enhanced electromagnetic pulse (EMP) and radio-frequency shielding capabilities:

- **when embedded within concrete structures, and**
- **for protecting aircraft, drones, ships, equipment and infrastructure;**

from electromagnetic interference (EMI), high-altitude EMP (HEMP) events, and intentional electronic warfare attacks that could disrupt or disable critical systems.

- **OptiBlend®, Eden's long proven proprietary, dual-fuel technology** extends backup power duration by up to 150%, by replacing up to 70% of the required diesel fuel with lower-cost natural gas, enhancing resilience of critical infrastructure such as military outposts, hospitals, and data centres. This dual-fuel technology solution used for 18 years offers significant benefits at a critical time for record-high fuel prices globally and has the potential to help mitigate spiralling fuel costs and add fuel versatility.

- A pipeline of next-generation CNT-based materials, including polymers, coatings and radiation-absorbent materials (RAM) to have extensive potential military and aerospace applications will be developed.
- EdenShield® is well positioned to be a strategic growth catalyst for Eden at a time of elevated global conflict and increased focus by governments on defence and national security.
- The global aerospace and defence industries combined market size is approximately US\$900 billion currently and forecast to grow to over US\$2 trillion by 2034 ¹.



DETAILS

Eden Innovations Ltd (ASX: EDE) is pleased to announce the launch of **EdenShield®**, a new business division focused on the commercialisation of Eden's existing and future technologies into defence, military, and critical infrastructure sectors.

Eden Innovations uses its proprietary, patented process to produce Carbon Nanotubes ("CNT") for its concrete admixtures for enhanced ultra-high performance concrete strength and durability solutions, carbon nanotube infused high-strength lightweight plastics, and a dual-fuel diesel system for cheaper backup power generation. All three products have extensive applications for use in military and civilian infrastructure.

EdenShield® will target applications across a wide range of strategic assets including defence installations, data centres, ports, airports, hospitals, energy systems and transport infrastructure.

The division has been established at a time of increasing global geopolitical tension and heightened focus by governments on infrastructure resilience, energy security, and defence capability.

CORE TECHNOLOGY OFFERINGS

Specifically, EdenShield® will pursue opportunities to market:

- **EdenCrete® carbon nanotube (CNT) enriched concrete additives, offering:**
 - Ultra-High Performance Concrete (UHPC) with significant blast-resistance;
 - Integrated Electromagnetic pulse (EMP) and radio-wave shielding concrete structures.
 - Superior heat dissipation properties and extended durability at extreme heat exposure.

These characteristics make EdenCrete® particularly well suited for hardened infrastructure and mission-critical assets such as bunkers, airports, hangars, runways and military storage facilities.

○ **OptiBlend® - Dual-Fuel system**

- Enable diesel generators to run on mix of diesel fuel and natural gas.
- Extend the back-up power capability by 150%, by replacing up to 70% of diesel fuel with cheaper natural gas. e.g. extends 4 days' back-up power capability to 10 days capability.
- Lowers fuel costs at a time of soaring diesel prices globally

NEXT-GENERATION PRODUCT PIPELINE:

EdenShield® will also drive development and commercialisation of new CNT-based materials, including:

- EdenPlast®: high-strength, lightweight CNT-enhanced polymers and plastics: offering superior strength, cost-reduction, weight-reduction and EMP protection. Highly suitable for the next generation of drones and UAVs.
- Advanced coatings and paints with durability and shielding properties
- Radiation-Absorbent Materials (RAM) for defence and aerospace applications

STRATEGIC RATIONALE

Recent global conflicts and increasing frequency of natural disasters have highlighted the vulnerability of critical infrastructure and the growing need for advanced materials that enhance resilience and survivability.

Eden's technologies are uniquely positioned to:

- **Reduce infrastructure damage** from blast events, extreme weather and thermal stress
- **Mitigate electromagnetic and radiation-related risks**
- **Extend operational capability of essential systems during disruptions**
- **Support national security and civil defence objectives**

While these technologies cannot eliminate such risks, they offer **practical and scalable solutions to materially reduce their impact.**

The Company has engaged with consultants and advisors to assist with business development and marketing of EdenShield®, and in order to incentivise and drive rapid expansion, the Company will be issuing 20m advisor options, as well as a further 20m strategic advisor options for consultants and advisers in relation to its North America marketing strategy. These options are on the same terms as the Placement Options as announced to the ASX today; each exercisable at \$0.20 and expiring 15 October 2028.

COMMENTARY

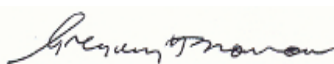
Eden's Executive Chairman Greg Solomon said:

"The establishment of EdenShield® represents a significant strategic step for Eden as we position our technologies to address the rapidly growing global demand for defence capability and infrastructure resilience.

Our long-proven CNT-based solutions offer a significantly superior solution to the traditional products used in the construction and manufacturing of critical defence, military and infrastructure assets. Similarly, our dual fuel technology offers significant improvements to back-up power generation.

The EdenShield launch comes at an opportune time for Eden to grow its market presence and offer increased protection and durability for these important industries critical to national security."

This announcement was authorised for release by the Executive Chairman.



Gregory H. Solomon
Executive Chairman

For further information please contact Greg Solomon on +61 8 9282 5889.

References: 1. <https://www.zionmarketresearch.com/report/aerospace-and-defense-market>

Forward Looking Statements

Statements contained in this release, particularly those regarding possible or assumed future performance, revenue, costs, dividends, production levels or rates, prices or potential growth of the Company are, or may be, forward looking statements. Such statements relate to future events and expectations and as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors. The past performance of the Company is no guarantee of future performance.

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