

*eden*

Innovations that work.™

# Investor Presentation

8 September 2023

# Disclaimer

## FORWARD LOOKING STATEMENTS

This presentation includes certain forward-looking statements of Eden's management. Forward-looking statements are statements that contemplate the happening of possible future events and are not based on historical fact. Forward-looking statements may be identified by the use of forward-looking terminology, such as "may", "shall", "could", "expect", "estimate", "anticipate", "predict", "probable", "possible", "should", "continue", "budgeted", "forecast", "targeted" or similar terms, variations of those terms or the negative of those terms. Forward-looking statements should not be read as a guarantee of future performance or results and may not be accurate indications of when or whether such performance or results will be achieved. Forward-looking statements are based on information known to Eden when those statements are made or management's good faith belief as of that time with respect to future events and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. The forward-looking statements specified in this presentation have been compiled by Eden's management on the basis of assumptions (which may or may not turn out to be accurate) made by management and considered by management to be reasonable. Eden's future operating results, however, are impossible to predict because of risks and uncertainties, and no representation, guarantee, or warranty is to be inferred from those forward-looking statements. You are cautioned not to place undue reliance on these forward-looking statements.

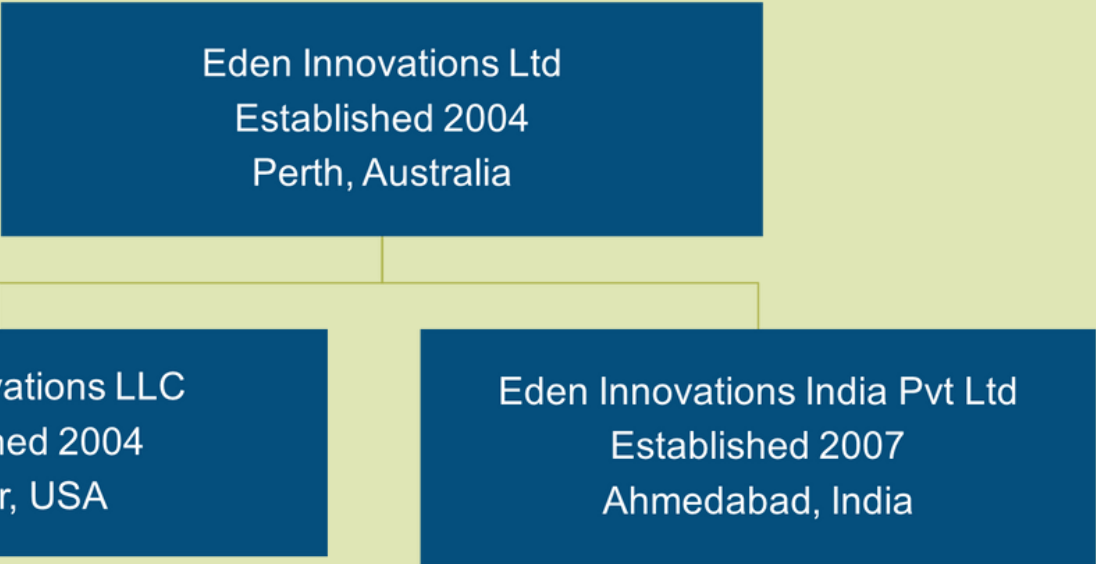
Forward-looking statements include, but are not limited to, the following:

Statements relating to Eden's budgeted, forecast and targeted revenue, future production capacity and sales levels, and business and financial performance; Statements relating to future research and development results and regulatory approvals of Eden's products; Statements relating to Eden's competitive position; and Other statements relating to future developments that you may take into consideration.

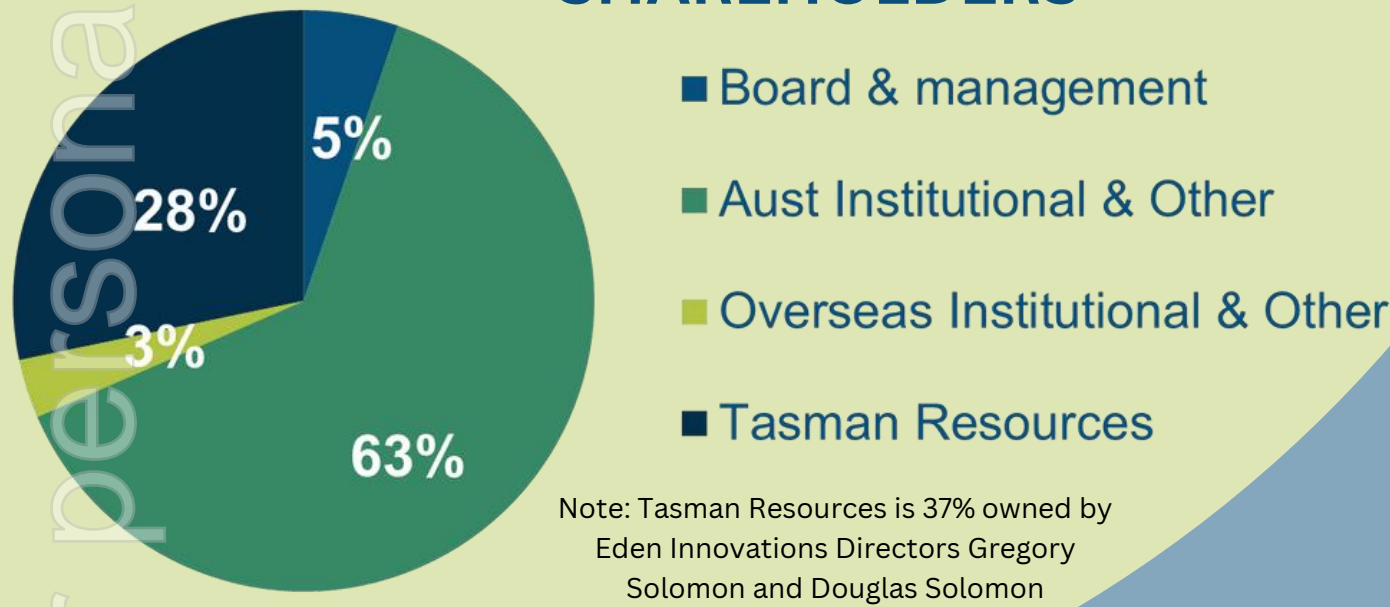
Actual results of Eden's operations may differ materially from information contained in the forward-looking statements as a result of risk factors some of which include, among other things: global economic stability, continued compliance with government regulations regarding production and use of carbon nanotubes in the U.S. or any other jurisdiction in which Eden conducts its operations; changing legislation or regulatory environments in the U.S. and any other jurisdiction in which Eden conducts its operations; credit risks and product sales affecting Eden's revenue and profitability; exposure to product liability claims; changes and new competitive products in the specialty concrete admixture industry; the level of market acceptance and demand for EdenCrete™; Eden's ability to effectively market all the product it can produce; Eden's ability to manage its growth, including implementing effective controls and procedures and attracting and retaining key management and personnel; changing interpretations of generally accepted accounting principles; the availability of capital resources, including in the form of capital markets financing opportunities; and general economic conditions.

This presentation has been prepared as a summary only and does not contain all information relating to Eden's assets and liabilities, financial position and performance, profits and losses and prospects: it should be read in conjunction with all of the publicly available information in relation to Eden which has been released to the Australian Securities Exchange (ASX Code: EDE).

# CORPORATE STRUCTURE



# SHAREHOLDERS



# Corporate Snapshot

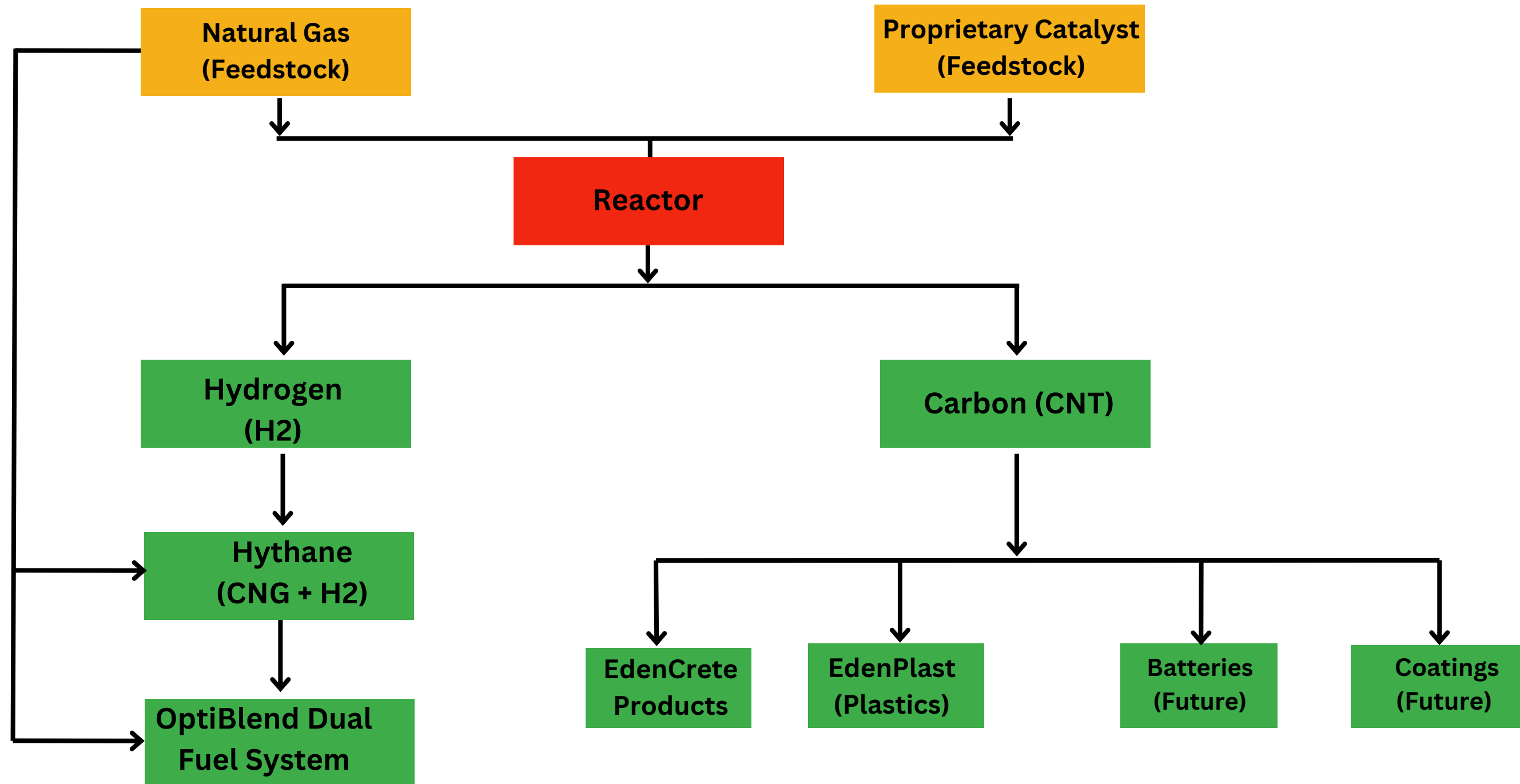
ASX:EDE

Shares On Issue (post-placement)	3,363,636,845
Stock Price <sup>1</sup>	A\$0.004
Market Cap. <sup>1</sup>	~A\$13.45 Million
Cash <sup>2</sup>	~A\$3.63 Million
Debt <sup>3</sup>	~A\$11.3 Million

- 1. As at 7 September 2023
- 2. As at 30 June 2023 + Proceeds from Private Placement
- 3. Debt- US\$5.8 million (~ A\$8.642 million) of total debt is secured against US real estate owned by Eden that was extended in August 2023, and that has an appraised value in May 2022 of over US\$12 million (A\$18.73 million)). The balance of the debt (A\$2.63m) is an unsecured loan from the Company’s largest shareholder Noble Energy (wholly owned subsidiary of Tasman Resources).

# Eden Innovations Ltd

## Product Flowchart





# Eden's Core Technologies



## Producing Carbon Nanotubes

(75% by mass) + Hydrogen (25% by mass) from Natural Gas

- $\text{CH}_4 + \text{heat} \rightarrow \text{C} + 2\text{H}_2$  (without Producing any  $\text{CO}_2$ )
- Carbon Nanotubes (CNT) – Ultra-strong, highly conductive (thermal and electrical) carbon nano-particles
- Hydrogen – if renewable or nuclear power used for production, turquoise hydrogen and CNT produced, without producing  $\text{CO}_2$ .



## Producing EdenCrete® Products

- ASTM and NTPEP Qualified, CNT-enriched, high performance liquid concrete additives.
  - EdenCrete® – delivers higher performance, longer lasting, more durable and sustainable concrete
  - EdenCrete®Pz & EdenCrete®Pz7 – deliver high performance, low cost, low  $\text{CO}_2$ , high % of fly ash and/or high % of blast furnace slag concrete with a low % Portland cement.



OptiBlend® - Dual fuel system to run diesel engines on mixture of 70-80 % Natural Gas ( $\pm \text{H}_2$ )  
EdenPlast® - CNT enriched, high performance plastics and polymers



# Summary of FY23 and FY24 Estimates

	Sales FY 2024 A\$000's	Sales FY 2023 A\$000's	Sales % Change
EdenCrete®	1,821	1,279	+42%
OptiBlend®	3,500	3,422	+2%
Total	5,321	4,701	+13%

## FY2024 Projected Cashflow

FY2024 Sales Forecast - A\$5.321m is considered to be a conservative target. Continued sales growth is projected in both US and India, with new markets also opening. If: Sales in FY2024 exceeded the FY2023 annual revenue of A\$4.7m by 20% (which is considered quite feasible), and Eden US sells the Augusta land, which is on the market, at or near the appraised value of US\$6.2million, **it will enable a substantial reduction of the debt and reduced interest costs. The Eden Group may reach, or be close to reaching, a positive cashflow during FY 2024.**

### Future EdenCrete® Sales

Multiple trials underway in 7 countries – US, India, Australia, France, Ecuador Indonesia. Major growth areas – Infrastructure, Low CO2 concrete with high fly ash content.

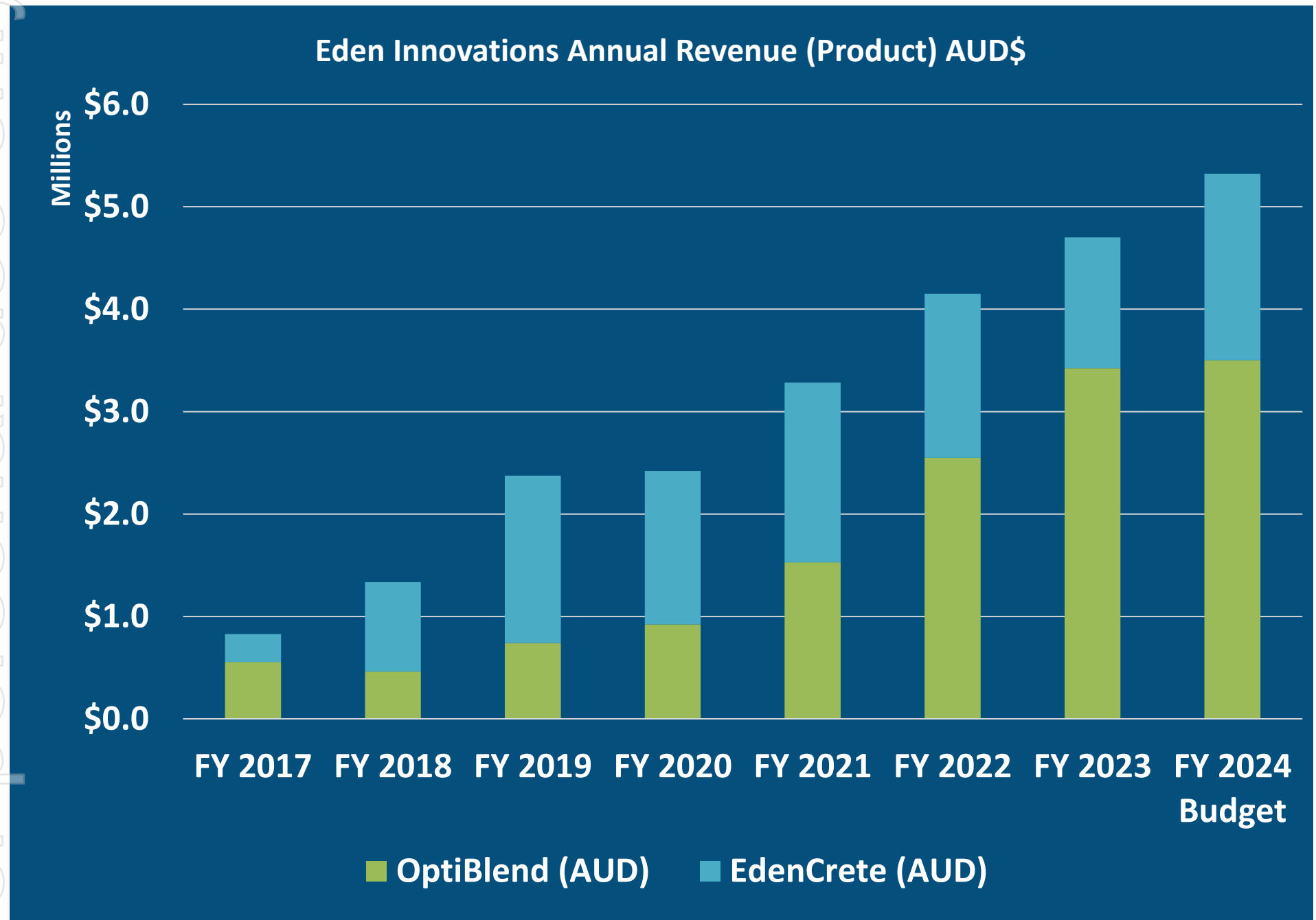
### OptiBlend® Sales

Sales increasing overall – significant further growth expected in US, with conservative estimates from India after **148% growth in YoY. FY 2023**. Expected growth - Indian FY 2024 sales. Delhi government ban on use of gensets during winter using solely diesel fuel





# Total Forecast Revenue FY2024



Based on total budgeted revenue from EdenCrete® and OptiBlend® in FY2024

## Risk factors and Qualifications

The targeted revenue and budgeted revenue numbers are subject to change that could arise from any external risks and other factors outside of Eden's control.

The ongoing market difficulties, not only in the USA but also in all the other countries where Eden's products are being marketed, where extreme weather events and the shortage of labour and materials in recovery from the pandemic continues to impact some of our clients;

Breakdown in supply lines from any cause beyond Eden's control; and

Any major upheaval, including any civil, military, or economic disruption, in or to any of Eden's markets or product supply lines occurring.

# Major Recent Developments



## Finance

Eden USA - Annual operating costs reduced by approximately A\$3.3 million during FY2023  
Eden India - Paid to Eden Australia a maiden dividend of A\$541,000 in 2023



## Carbon (USA)

A series of preliminary meetings with one very large US listed company have been held, and trials are underway  
Growing Interest in Eden's pyrolysis process to produce carbon (CNT) and hydrogen from natural gas



## OptiBlend

India - Sales of OptiBlend kits in India in FY 2023 rose to A\$2.7 million a rise of 148% year-on-year  
- Eden India been profitable from OptiBlend sales for 3 years  
USA - Sales of OptiBlend kits in USA in FY 2022-23 reached A\$0.73 million  
- Budget for FY 2023-24 for OptiBlend sales is A\$1.4 million



## Eden Crete Products

USA - Increasing interest in the whole range of EdenCrete® Products, including for low CO2 concrete  
Europe - Increasing interest in EdenCrete® Pz Products for low CO2 concrete for possible use in a number of countries  
India - EdenCrete® Pz Product trials and discussions underway with two large Indian ready-mix company for low CO2 concrete  
Indonesia - EdenCrete® Pz Product trials completed with a large Indonesian ready-mix company for low CO2 concrete



# Carbon Nanotubes

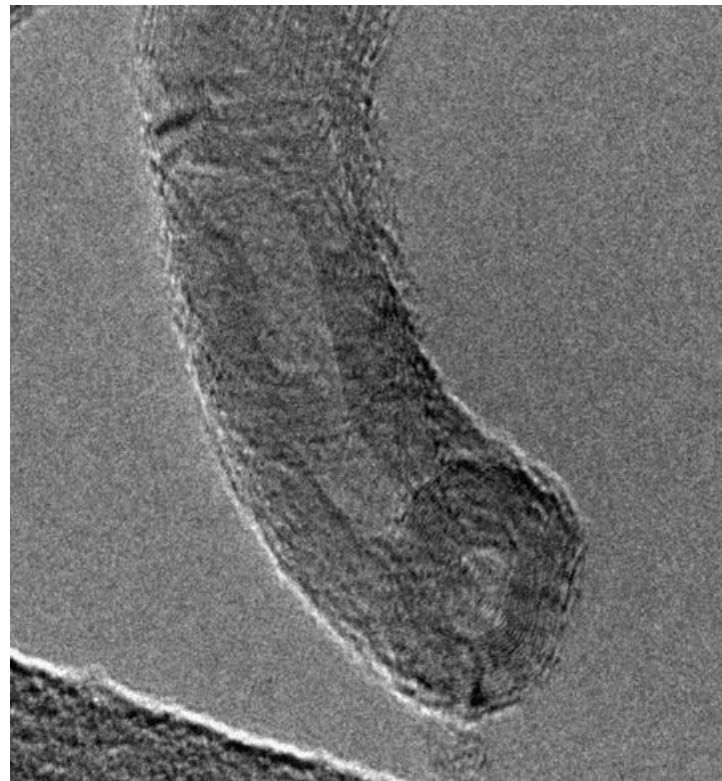
Fully Commercialised Patented Pyrolysis Process produces Carbon Nanotubes and Hydrogen

Harnessing the benefits of carbon nanotube technology in commercial applications in:

- Concrete
- Plastics
- Future uses- Batteries and Coatings

Key properties of CNT:

- Tensile Strength: 100-300x steel
- Weight: ~17% of steel
- Highly conductive: thermally and electrically



TEM image of Eden's MWCNT

## Carbon Nanotubes and H<sub>2</sub>

- CNT - act as nucleation points for dense cement hydration - builds on all surfaces of CNT in concrete.
- CNT - Create quintillions ( $10^{18}$ ) of flexible, super-strong carbon nano-structures throughout the concrete.
- CNT - Produce stronger, tougher and more durable concrete.
- CNT - Produce stronger, tougher, more durable plastics.
- H<sub>2</sub> produced is equal to 33% (by weight) of CNT produced.  
As more CNT required, supply of H<sub>2</sub> grows.



## CNT-enriched Liquid Concrete Admixtures

### Deliver more durable, higher performance concrete with significant CO2 reductions

#### EdenCrete®

A cost effective, carbon nanotube enriched liquid admixture that is mixed into wet Portland concrete:

Increases durability, flexural, tensile & compressive strength, and abrasion resistance; and

Reduces shrinkage, permeability and damage from salt and chemicals and increases freeze / thaw resistance.

#### EdenCrete® Pz / Pz7

Are cost effective, carbon nanotube enriched liquid admixture that is mixed into any wet concrete (including high pozzolan mixes (fly ash and slag) that :

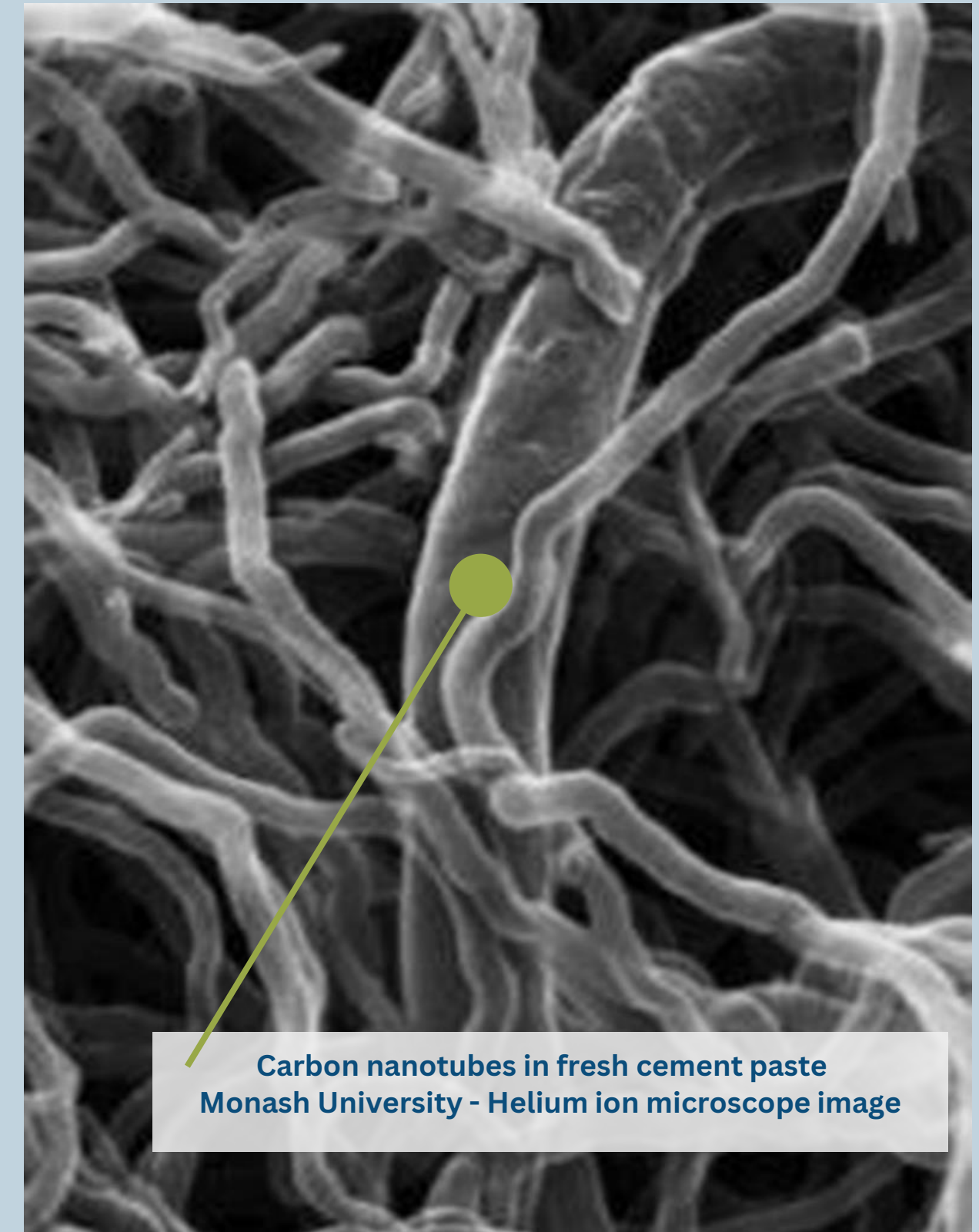
allows replacement of <60% of cement with low-cost fly ash (coal fired power station waste) producing low cost, high strength, low CO2 concrete

Reduces CO2 footprint by~90% of mass of cement replaced - 100kg cement replaced = ~ 90 kgs CO2 saved.

### All key qualities for infrastructure

EdenCrete®  
Suitable for  
Portland cement

EdenCrete® Pz  
Suitable for both  
Pozzolanic and  
Portland cements





# OptiBlend ~100% Owned, world leading dual fuel system



OptiBlend® Fuel Control Valve (left) and Air-Gas Mixer (right)

1

## Energy Efficiency

OptiBlend® - Eden's designed, built and custom fitted hardware technology:

Allows conventional diesel engines to run on natural gas as its primary fuel without modifying the engine or the diesel fuel system.

2

## Government Mandate

Delhi government ban on use of gensets during winter using solely diesel fuel. Significant market growth in India (due to extreme air pollution)

3

## Global Market Opportunity

Marketed in US and India for 12+ years, over 350 systems sold : USA and India, Middle East and East Asia. Recent enquiries from Nigeria and Iraq

4

## Profitable

Eden India profitable and self-funding for past 3 years from OptiBlend® sales

Total sales for FY2023- A\$2.7 million , a rise of 148% compared to FY 2022

5

## Lower costs & emissions

OptiBlend® :

Lower fuel costs, lower emissions/CO2 footprint, increased runtime  
Highly efficient, cost-effective system -reduced fuel cost and emissions

Installed on most major global brands of diesel engines



# EdenPlast®

## Eden Commercialising EdenPlast®



### CNT enriched plastics/ polymers

- Patented, cost effective processes.
- Uses CNT produced by Eden.

### Highly encouraging results

- < 50% increase in stiffness.
- Increase in electrical conductivity.

### Current target markets

- Automotive, aerospace, packaging.
- Batteries - cathodes.
- Non-corroding reinforcing material.
- Global plastics market ~US\$600 billion p.a.

### Commercialisation

- Japanese trial with CNT enriched masterbatch (containing 37% by mass of CNT).
- Target to try and find first commercial customer



# Eden's Technologies – Market Outlook



## Patents

- 2023- Eden holds a number of patents/patent applications that are all registered/ lodged in a number of countries, related to hydrogen and carbon nanotubes (CNT) applications:
  - o Hythane System
  - o Hythane Blending
  - o Hydrogen Internal Combustion Engine
  - o Pyrolysis Process to produce Hydrogen and CNT
  - o EdenCrete® (1 patent/1 application)
  - o EdenCrete® for EMP shielding
  - o EdenPlast® (1 patents/1 application)



## Near-term Cash Flow Positive

- Eden India cash flow positive for over 3 years from OptiBlend sales alone, generating A\$2.7 million in FY 2023.
- Growing interest in Eden's EdenCrete range, OptiBlend, CNT and Hydrogen. Large cost reductions and sales growth paving the way forward to cash flow positivity.
- India – FY 2024 Continued market strength anticipated due to extreme air pollution.



## Focus

- Current market focus is USA and India – in all products.
- Emerging market interest from Europe for low CO2 concrete.
  - Other emerging markets, particularly for EdenCrete® products
- Trials underway with large European, North American and Indonesian companies

# Strong Pipeline of Major Projects and Sales



## EdenCrete®

### USA

DOTs – EdenCrete® – currently being used in Georgia and Colorado – roads, shotcrete  
– trials underway in Colorado (Vail Pass), Ohio and Iowa

Airports – United Airlines using EdenCrete® for 3 years (Denver airport) in 5 projects – large recent project.

Commercial, Industrial, High Rise, Shotcrete – wide range of applications, many repeat projects in USA  
– Numerous major projects in advanced planning reviewing possible use of EdenCrete®.

Ports / Marine – Savannah and Brisbane; EdenCrete® Pz trial – reduced permeability, extended life by over 600%.

### INDIA

Huge EdenCrete® Pz potential – 150 million tonnes of fly ash produced each year, rising to 500m in next 5 years.

Godrej Construction – operates in 20 cities – first EdenCrete® customer in India, and first Indian partner.

Very strong FY2023 OptiBlend sales – A \$2.7 million – interest from Africa and Middle East

First dividend paid in FY 2023 to Eden Australia of A\$541,640, with a further dividend anticipated to be paid in FY 2024





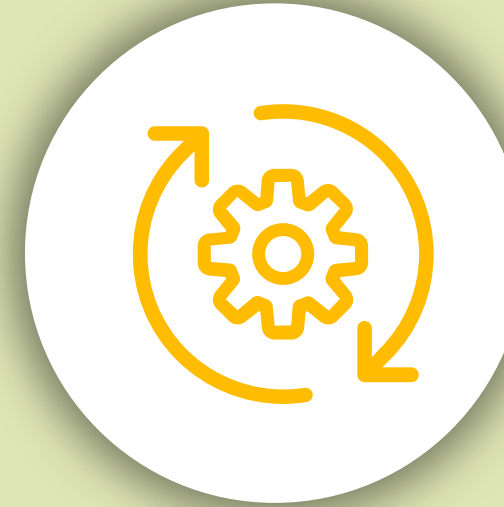
# Major Drivers of EdenCrete Sales Growth



I-70 Shotcrete project in Denver



Denver Airport- concrete replacement -United Airlines



Carbon credits sell in Europe for ~ US\$87/tonne of CO<sub>2</sub> saved, valuing 90kg of CO<sub>2</sub> at ~ US\$7.83.

Price of 1m<sup>3</sup> of average concrete varies from ~ US\$65/m<sup>3</sup> in India up to US\$170/m<sup>3</sup> in USA

The value of 90 kgs of CO<sub>2</sub> saved is ~ 15% of the concrete cost in India, and ~ 4.6% of the concrete cost in USA

India - great potential : 1.4 billion population, major infrastructure expansion; huge coal fired power production  
- 150 million tonnes p.a. of fly-ash (rising to ~500 million tonnes p.a. in 5 years)- works well with EdenCrete® Pz

Indonesia - 270 million population-large fly ash supply -3 major concrete companies in final trials- great results

## The Future

- ✓ Core products- Hydrogen and Carbon Nanotubes-Five current commercial products: EdenCrete®, EdenCrete Pz®, and Pz7, OptiBlend®, EdenPlast®, Hydrogen technologies - strong year on year revenue growth anticipated for FY2024 and beyond.
- ✓ Proprietary and patented technologies and core expertise in manufacturing and production of carbon nanotubes, hydrogen and carbon nanotube enriched products
- ✓ High barriers to market entry, with over 10 years in product development, established direct working relationships with Government departments, plus strong patent protection and proprietary technology across entire product range
- ✓ EdenCrete® operates in a global concrete market expected to reach US \$1 trillion and growing at approx. 8% p.a.- proven across all market sectors. EdenPlast® opens access to huge plastics market. Hydrogen has great potential with global focus on clean energy and lower CO<sub>2</sub> emissions if sufficient use of the CNT can be generated
- ✓ EdenCrete® Significant US Government traction with product approval from 21 Departments of Transportation, repeat GDOT contracts in Georgia, road and trial projects Colorado , Ohio, Iowa. Ports. Extra Federal funding.
- ✓ Strong EdenCrete® sales growth emerging particularly for Low CO<sub>2</sub> concrete : Sales in 12 US states, trials in 15 US states. Sales in India, Australia, New Zealand, Israel; Trials in France, Canada, Ecuador and Indonesia
- ✓ OptiBlend® - Sales growing, particularly in India; many markets applications; major expansion of Indian sales occurring in greater Delhi where due to extreme air pollution, government banned use of diesel-only gensets during winter
- ✓ EdenPlast® - First trial with CNT enriched masterbatch; Global plastics market near US \$600 billion and growing at ≈ 3% p.a.
- ✓ Growing momentum across all current products, many major projects in pipeline that could generate large revenue , and are anticipated to result in strong sales and news flow over FY 2024 and beyond





# Thank You

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