Developing Low-Cost, Low-Carbon Cement

April 2025

Green360 TECHNOLOGIES

ASX:GT3

g360tech.au

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Highlights

An Australian-based building materials company, leading the development of low-cost, low-carbon cement to address immediate demand in the market.

Urgent Market Demand

Australian government has set annual emissions caps on industries, requiring reductions in emissions year-on-year to meet regulatory demands.

Low-Carbon Cement

Developing a low-cost, low-carbon cement alternative, delivering superior performance and a reduced environmental footprint.

Pathway to Market

Executing a commercialisation plan alongside a reputable market leader, focused on near-term widespread industry adoption of low-carbon cement – with product already in the market.

Revenue Generation

Kaolin assets provide an immediate revenue stream and strong financial foundation, supporting innovation and growth.

Rapid Growth for Low-Carbon Building Materials

Cement and Concrete

Cement and concrete are essential building materials for modern construction

Cement

Traditional primary binder in **concrete**, produced through an energy-intensive, high-emissions process

Concrete

Durable **construction material** that hardens over time, made from **cement,** coarse aggregate, sand and water

Global Market for Cement and Concrete

Cement and concrete are markets of massive scale, with rapid growth forecasted

Market Size

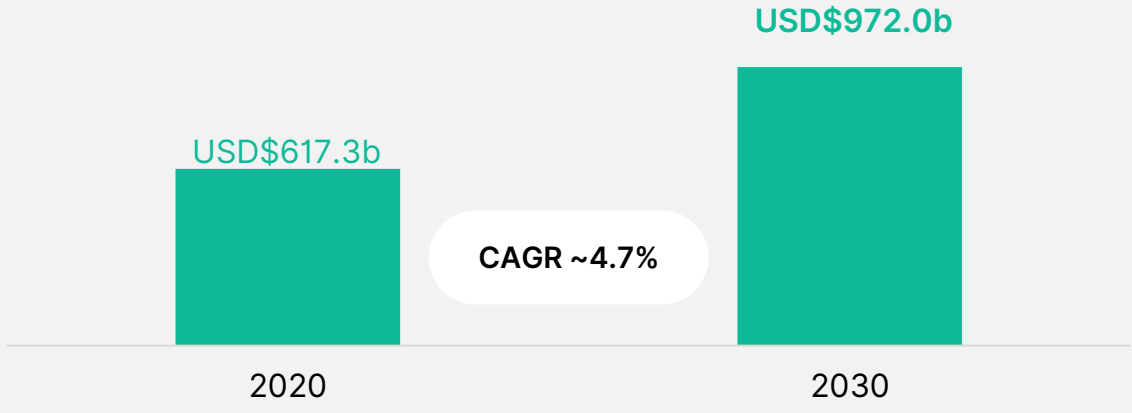
Global cement and concrete markets are larger than the global lithium, copper and iron ore markets[3]

4.0 Billion Tonnes

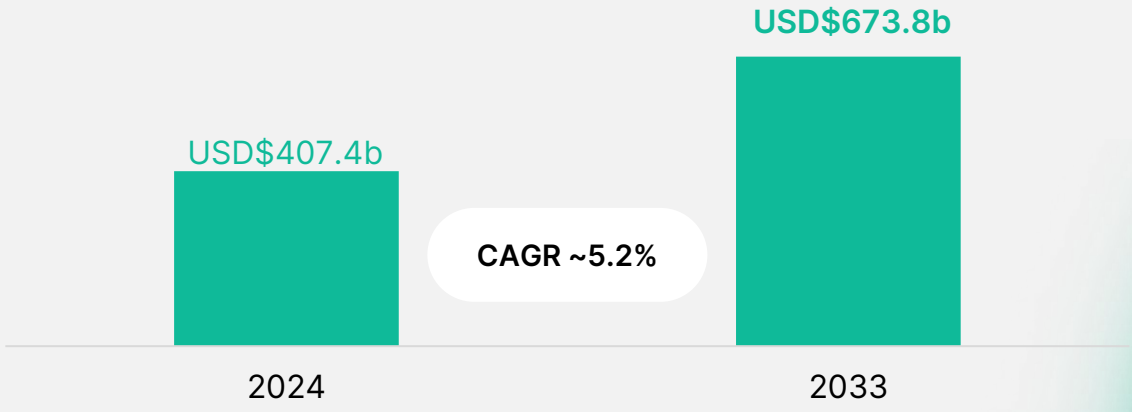
Cement production equates to 4 billion tonnes annually, with demand expected to grow to 5 billion tonnes in the next decade[4]

2nd Most Consumed Resource

Concrete is the most widely used man-made product in the world and is second only to water as the worlds most consumed resource[5]



Global Concrete Market Forecast[1]

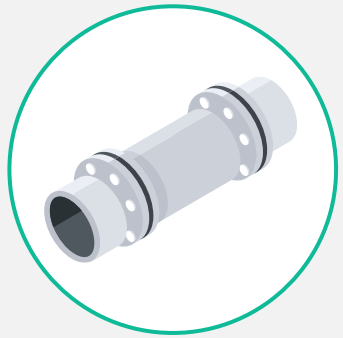
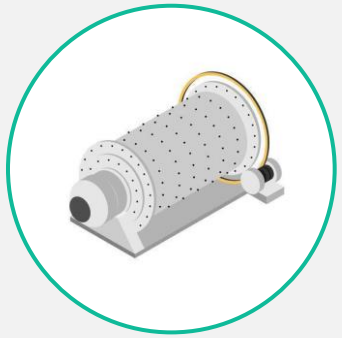


Global Cement Market Forecast[2]

1. https://www.alliedmarketresearch.com/concrete-market-A12420
2. IMARC Cement Market Size, Share, Trends and Forecast by Type, End Use, and Region, 2025-2033
3. Grand View Research, Mordor Intelligence Reports
4. https://www.chathamhouse.org/2018/06/making-concrete-change-innovation-low-carbon-cement-and-concrete
5. World Cement Association

The Problem – Traditional Cement is a Polluter

Worldwide production of cement results in 3.2 billion tonnes of CO_2 per year, representing 8% of global emissions[1]

Production Process	 Mining and grinding of raw material to a powder	 Powder is heated in a kiln to make **clinker**	 **Clinker** is ground with gypsum to create **cement**	 Cement is mixed with other inputs to create concrete
CO_2 Generation	**~5%** Mining and grinding	**~90%** Burning fossil fuels	**~0%** Mixing with gypsum	**~5%** Transportation/logistics

1. https://www.chathamhouse.org/2018/06/making-concrete-change-innovation-low-carbon-cement-and-concrete

Significant Market Opportunity

Safeguard Mechanism

The Australian government has set annual emissions limits on industrial facilities, including those in concrete and cement, requiring a reduction in emissions year-on-year to 2030[1]

Strained Domestic Supply

Australia has experienced impactful closures of cement plants in recent years, causing local production shortages and necessitating imports of cement clinker from countries including Indonesia, Japan, Thailand, Vietnam and Singapore to fill the gap in the market[2]

1. DCCEEW, Safeguard Mechanism
2. https://oec.world/en/profile/bilateral-product/cement/reporter/aus

Developing Low-Carbon Cement

Developing Low-Carbon Cement

Low-Carbon, Green Alternative

Significantly lower CO_2 emissions than traditional cement

Delivering Cost Efficiency

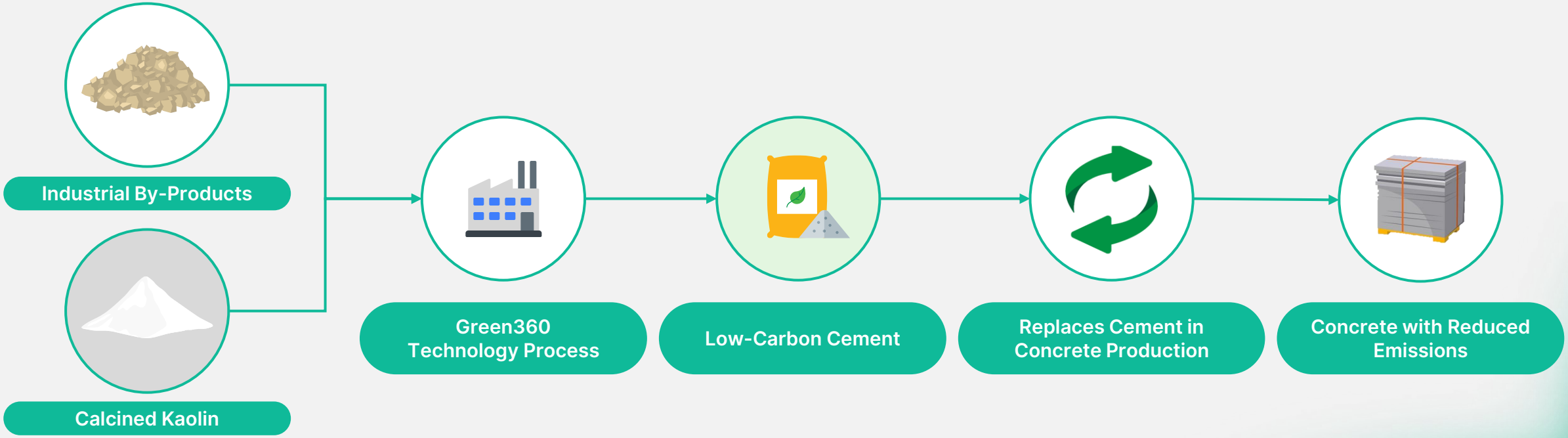
Utilising **cost-effective key input materials** to deliver a product at a **competitive price**

Repurposing Waste

Uses **industrial by-products** contributing to the **recycling** of **waste materials**

Utilising Kaolin

Incorporating calcined **kaolin** to **improve** the **performance** of **concrete products**



Repurposing Industrial By-Products

Reducing emissions, developing a commercial product, and solving industrial waste challenges

Innovative process
Characterising zero-carbon industrial by-products to incorporate into low-carbon cement formulations

Broad applications across industries
Opportunity to work with range of industries including producers of nickel, lithium, bauxite and many others to solve their industrial waste challenges

Developing a revenue stream
Working with global mining companies across various commodities in analysing and repurposing their industrial by-products

Success on nickel slag with PT Huadi

Green360 is working with one of the largest nickel producers in Indonesia to test and subsequently produce **low-carbon cement formulations** using **zero-carbon nickel slag**

Future opportunities

Green360 has entered into a Co-operation Agreement with PT Huadi to consider a commercial partnership for the ongoing offtake of nickel slag

>7,000

active tailings dams in Western Australia, 2025[1]

1. Murdoch University Professor Martin Anda, 2025

Replacing Cement to Reduce Emissions

Green360's low-carbon cement is an alternative and partial replacement for the traditional cement binder in concrete, therefore reducing emissions

Green360's formulations use industrial by-products and calcined kaolin as key inputs to create a low-carbon cement, rather than the traditional Portland cement production process

These key inputs have lower emission profiles than traditional cement, displacing the key polluter in the concrete production

Low-Carbon Cement → Replaces Cement in Concrete → Concrete with Reduced Emissions

Product Benefits

Concrete made with calcined kaolin has been found to have:

- An **accelerated initial setting time** for the concrete product[1]
- Increased **resistance to sulphate + chemical attack**[1]
- Increased **development of early-stage strength**, allowing early removal of formwork and **enhanced production rate**[1]

Structural cost advantage

Green360's low-carbon cement formulations utilise cost-efficient key inputs when compared to Portland Cement, including industrial by-products and calcined kaolin

Reduced carbon profile

Creating a product with a reduced emissions profile to help companies reduce the total emissions of a project, in-line with construction standards and regulatory demands

1. https://gharpedia.com/blog/metakaolin-in-concrete-advantages-and-disadvantages-and-properties/

Pathway to Market

Optimising low-carbon cement formulations	Various low-carbon materials are tested and optimised in a laboratory setting creating cement vials
Testing low-carbon cement formulations	Low-carbon cement formulations are rolled out into concrete products via PERMAcast to test for strength, workability, durability, slump, and other relevant factors
Validating low-carbon cement in concrete products	Working with PERMAcast to validate Green360's low-carbon cement formulations in saleable, ready for market, final concrete products
Scale up and delivery of low-carbon cement and or concrete products	Adoption of concrete products in the market allows for distribution of a low-carbon cement binder which has been validated through a final product

Product Validation

Joint Venture with PERMAcast

Partnered with WA's leading supplier of precast concrete products to validate our low-carbon cement formulations

PERMAcast
Engineered for Efficiency

Access to target market to validate product

Working with PERMAcast allows Green360 to validate the Company's low-carbon cement in pre-cast concrete products with local WA customers

Leading, reputable supplier

Supplied concrete to major projects such as Chevron's Gorgon Gas Project, Perth Optus Stadium, Elizabeth Quay, BHP's Jimblebar Iron Ore Project and the Mitchell Fwy Expansion

Precast concrete facility

PERMAcast has employed up to approx. 400 people, with in-house precast concrete manufacturing capabilities

Validating with Customers

Testing low-carbon cement in commoditised concrete products

Produced Low-Carbon Concrete for Government Project

Green360 has worked with PERMAcast to produce and deliver concrete blocks made with Green360's low-carbon cement to a major WA Government project, a significant step towards validating the Company's formulations

Positive results

28-day strength tests conducted on concrete blocks produced with Green360 low-carbon cement achieved up to 35 megapascals, exceeding the strength requirements of their end-use applications,[1] and providing the project with a significantly reduced emissions profile

Next steps

Green360 and PERMAcast JV is currently in the process of quoting jobs to supply other concrete products made with low-carbon cement to market

Concrete blocks made with Green360 low-carbon cement

1. Refer to ASX Announcement 20 August 2024

Kaolin Operations

Pittong Kaolin Operation

Australia's only wet kaolin processing facility, located 40km west of Ballarat in Victoria

Multi-decade mine life

Combined with the Trawalla Deposit, supported by over 18Mt total of Inferred and Indicated JORC Compliant Kaolin Resources[1]

Revenue generating asset

$12.3m revenue generated in FY24 from the sale of circa 20kt of product,[2] with recent plant upgrades allowing for scale up to 60kt per annum[3] and strategic customer engagement to offtake additional product

Established customer base

Established sales contracts with recognisable brands, supplying into premium, high-margin industries, including Dulux, Sherwin Williams, Nippon Paint, and Estee Lauder

Vertically integrated business

Kaolin is a key input in Green360's low-carbon cement formulations allowing for further facility growth and expansion

1. Refer to Appendix 1 and Annual Report lodged with the ASX on 27 September 2024.
2. Refer to Annual Report lodged with the ASX on 27 September 2024
3. As announced on 6 February 2023

Customers

Diverse Customer Base

Low-Carbon Cement

- Concrete producers
- Retail chains

Concrete Products

- Governments – Federal, State and Local
- Mining companies
- Major corporations with strong ESG credentials
- Price conscious customers

Industrial Byproducts

- Opportunity for supply agreements with major mining companies, in Australia and internationally

Wet Processed Kaolin

- Paint producers
- Rubber manufacturers
- Pharmaceutical companies
- Concrete producers

Corporate

Corporate Overview

CORPORATE SNAPSHOT: 8 APRIL 2025	
Shares on Issue	~1,009.5m
Options & Performance Rights	~149.8m
Share price	$0.032
Market capitalisation	$32.30m
52-week high	$0.066
52-week low	$0.027
Cash & Cash Equivalents (31 Dec 24)	$2.7m

TOP SHAREHOLDERS: 8 APRIL 2025		
Shareholder	**Shares (m)**	**%**
Melbourne Securities Corporation Ltd	87.5	8.7
Mr Aaron Banks	73.7	7.3
Mr Christopher Weed & Mrs Janet Brockman	50.3	5.0
Mr Peter Mark Lewis	25.0	2.5
Mr Robert Kingsley Fitzgerald	17.0	1.7
Ratdog Pty Ltd	16.1	1.6
Dixson Trust Pty Ltd	12.7	1.3
Bearay Pty Limited	12.4	1.2
Total	**294.7**	**29.3**

Aaron Banks - Executive Chairman
Specialist business consultant with over 20 years in business development and construction management. Founded and managed Australian Silica Pty Ltd through the discovery of one of the largest high-grade silica sand resources in the world.

Mark Pensabene - Non-Executive Director
20 years of operation and management experience in engineering and construction, including 18 years at ASX-200 Monadelphous Group.

Peter Trinder - Non-Executive Director
Over 45 years of experience in concrete technology, specialising in durability and performance of concrete structures, most recently independent advisor for major infrastructure projects.

Bojan Bogunovic - Chief Executive Officer
Qualified Chartered Accountant with extensive experience in mining, exploration and construction having held several senior roles at ASX-listed mining and exploration companies.

Hanno Van Der Merwe - Chief Operations Officer
25 years of experience in estimating, project management, and production management, successfully delivering projects across mining, oil and gas, renewables, engineering, and construction in both Australia and Africa.

Key Activities and Milestones

Investment Summary

Urgent Market Demand

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Contact

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FURTHER INFORMATION

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Appendix

Appendix 1

Kaolin Mineral Resources Statement - as at 30 June 2024

Category	White Kaolinised Granite (Mt)	ISO Brightness % (457nm)	Yield <45um %	Kaolin (Mt)
Trawalla Resource				
Indicated	9.9	81.0	27.7	2.8
Inferred	2.8	79.8	28.3	0.8
Total	**12.7**	**80.8**	**27.8**	**3.6**
Pittong Resource				
Indicated	3.6	81.3	35.5	1.3
Inferred	1.9	79.1	33.0	0.7
Total	**5.5**	**80.5**	**34.6**	**2.0**

Information on the Mineral Resources presented is contained in the ASX announcement dated 27 September 2024. Green360 confirms that it is not aware of any information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Appendix 2
Wind with Purpose MOU

The Joint Venture between Green360 and PERMAcast is granted a first right of refusal to supply low carbon concrete for Wind with Purpose (WWP) large-scale projects[1]

Onshore and offshore energy development
WWP is engaged in the potential development of large-scale onshore and offshore wind energy projects in Western Australia

Significant construction requirement
WWP plans to install approx. 3 gigawatts of onshore wind and 2 gigawatts of offshore wind capacity, which would require the construction of between 400-500 wind turbines[1]

Potential revenue stream
Volume of concrete required per foundation for an onshore wind turbine can exceed 1,000 cubic metres,[2] with the current commercial value of concrete being roughly $300 per cubic meter

1. Refer to Announcement 26 February 2025
2. https://www.cte-wind.com/