



RETHINKING CONCRETE FOR A **GREENER** TOMORROW

SCG SAND Capability Statement

Feedstock provider proposal

Overview

SCG SAND is leading the charge in sustainable sand innovation. By producing high-spec recycled sand from post-consumer and industrial feedstocks, and processing it **onsite** with our **mobile Vortex Separation System**, we eliminate the cost and carbon of traditional sand supply chains.

We're proposing to process **5,000 tonnes** of feed material per month, converting your waste glass into compliant construction-grade sand while cutting transport, landfill, and material sourcing costs.

Technology – The SCG Advantage

The **Vortex Separation System** is a fully transportable, high-throughput solution that:

- Separates particles down to **40 microns**
- Delivers **multiple clean, specification-controlled sand products**
- Recovers up to **99% of feeder stock** into usable fines
- Operates with low power and maintenance
- **Deploys anywhere** – no fixed infrastructure required

Our system is already delivering measurable value in the field — not in theory.

Validated by Industry Leaders: Holcim, Metro Tunnel Project & More

In a **groundbreaking industry trial**, our sand has been validated by **Holcim Australia, Cement Australia**, and several leading institutions as part of the **Victorian Government's Metro Tunnel Project** — one of Australia's most significant infrastructure builds.

This real-world test involves using our engineered recycled glass sand in **structural concrete slabs** as a direct replacement for river sand. The project is led in partnership with:

- **Holcim Australia**
- **Cement Australia**
- **University of Melbourne**
- **Royal Melbourne Institute of Technology (RMIT)**
- **Cross Yarra Partnership**
- **Rail Projects Victoria**

Test slabs are being poured using **20% to 80% replacement ratios**, with the **25% and 40% mixes already successfully completed**. These slabs were laid without any specialised chemicals — just SCG-Sand produced by our equipment + process — and are achieving **performance results not previously thought possible** with recycled glass in concrete.

"This recycled glass (SCG-SAND) is achieving results not thought possible with glass as a sand replacement," the project team reported.






This isn't a lab trial — it's **an on-site application in a multi-billion-dollar tunnel project**, using **actual construction-grade concrete** from one of the world's biggest suppliers.

End Product Range

Product Type	Size Range	Use Case
Fines	<300 micron (to 40μ)	Paints, renders, fillers, decorative blends
Concrete Sand	300 – 800 micron	Concrete batching, shotcrete, premix bags
Coarse Sand	1000 – 1500 micron	Screeds, backfill, paving, drainage
Custom Specs	Client-matched	Specialised mixes on request

Notably, a test using our 80-micron sand produced **higher-strength results** than conventional extracted quarry sand mixes — setting faster and stronger.

Environmental & Cost Benefits

-  **Onsite Processing** – No trucking to regional quarries or landfills
-  **Lower Embodied Carbon** – Dramatic reduction in transport emissions
-  **Landfill Diversion** – Reclaim waste otherwise sent to tip
-  **Compliance Ready** – Aligned with government sustainability policies
-  **Lower Freight Costs** – Aligning our end product user to our feeder locations

This is a **turnkey solution** that eliminates both waste and inefficiency.

How We Work

- We bring the Vortex unit to **your site**, or we set up a site close to your highest volume locations
- Process in campaigns of **3,000 tonnes+** (30 tonnes per hour)
- Provide **specification-controlled outputs**
- Supply technical data and compliance documents

No capital outlay. No wasted stockpiles. Just clean, compliant sand replacement.

Let's Build Circular Together

Partnering with SCG SAND helps us **together** move faster toward a closed-loop material economy. You provide the feedstock— we deliver the product a new life.

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