

Sustainable Recycling Program Proposal - Greater Hume Shire Council

1. Program Overview

Green Earth Material Co. presents this proposal to the Greater Hume Shire Council outlining our Sustainable Recycling Program, which focuses on converting waste materials into valuable construction products with strong environmental benefits. Our key innovation is the production of a 99% recycled concrete block made primarily from crushed glass, intended for use in our landscape yard and, in future stages, for recycled road base applications.

2. Recycled Concrete Block Program

2.1 Product Composition

- Manufactured using 99% recycled materials, primarily crushed glass sourced from certified recycling partners.
- Remaining components consist of non-toxic binders and reinforcement materials to achieve desired structural properties.

2.2 Current Use

- These blocks will initially be used to construct and contain material bays within our landscape yard in Jindera.
- We estimate the production and installation of over 100,000 cubic metres of blockwork to support our operational needs.

2.3 Future Application

- Green Earth Material Co. intends to extend this product's application to recycled road base infrastructure.
- The inclusion of crushed glass enhances durability, strength, and sustainability while reducing reliance on virgin aggregates.

3. Environmental and Economic Benefits

- Supports the NSW Circular Economy Strategy by reusing waste materials locally.
- Significantly reduces landfill volumes and greenhouse gas emissions.
- Promotes local procurement and supply chains.
- Creates local job opportunities in material handling, product development, logistics, and quality control.
- All processing activities are conducted in accordance with relevant NSW EPA and Greater Hume Shire guidelines.
- Energy usage on site will be powered through solar and battery systems; all water used will be recycled onsite.

4. Commitment to Council Partnership

Green Earth Material Co. is committed to working collaboratively with the Greater Hume Shire Council to deliver meaningful sustainability outcomes. We welcome opportunities to engage further in the future on how our recycled block program and other innovations can support Council infrastructure, waste reduction targets, and community development goals.