



RECYCLING SOLUTIONS FOR A WASTELESS SOCIETY

MAKING WASTE

MATTER.

At Re.Group, we believe that recovering and recycling resources from waste is part of the critical infrastructure required in modern society.

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WHO IS RE.GROUP?

We are an Australian owned company, focused on providing high quality services for recycling and recovery of resources from waste.

OUR VALUES



OUR VISION

“A wasteless society, where all resources that become waste are reused and are not disposed.”



“To design, build, operate and optimise infrastructure that enables the maximum amount of waste to be diverted from disposal and positively re-used as a renewable resource.”

OUR MISSION



Re.Think

We like solving problems, being challenged, continual learning, embracing innovation and we're always curious. Decisions are based on the long term and a balance between people, planet and profit.



Re.Balance

We acknowledge the complexity of sustainable business and the need for equilibrium between people, the planet and profit. This means creating meaningful employment opportunities and continuously seeking to reduce environmental impacts whilst providing a return to investors.



Re.Act

We have energy and enthusiasm. When we have made our decisions, we deliver on our promises quickly and effectively. Managers are empowered to make decisions to ensure our promises to clients are always met.



Re.Ward

We get enjoyment from our work and achievements by delivering high quality service and outcomes for our clients and the community.



Re.Spect

We adopt a partnership approach with our stakeholders. As individuals and as a company, we are reliable, transparent and trustworthy. We respect the same in each other and our partners.

Business Platform

Our proven capabilities and global experience enable us to provide leading, bespoke end-to-end solutions for resource recovery.

DEVELOPMENT

- ▶ Proven track record developing processing plants in Australia and internationally
- ▶ Strategy development and understanding critical success factors
- ▶ Ability and willingness to co-invest and fund projects and business growth through the support of existing shareholders

ENGINEERING

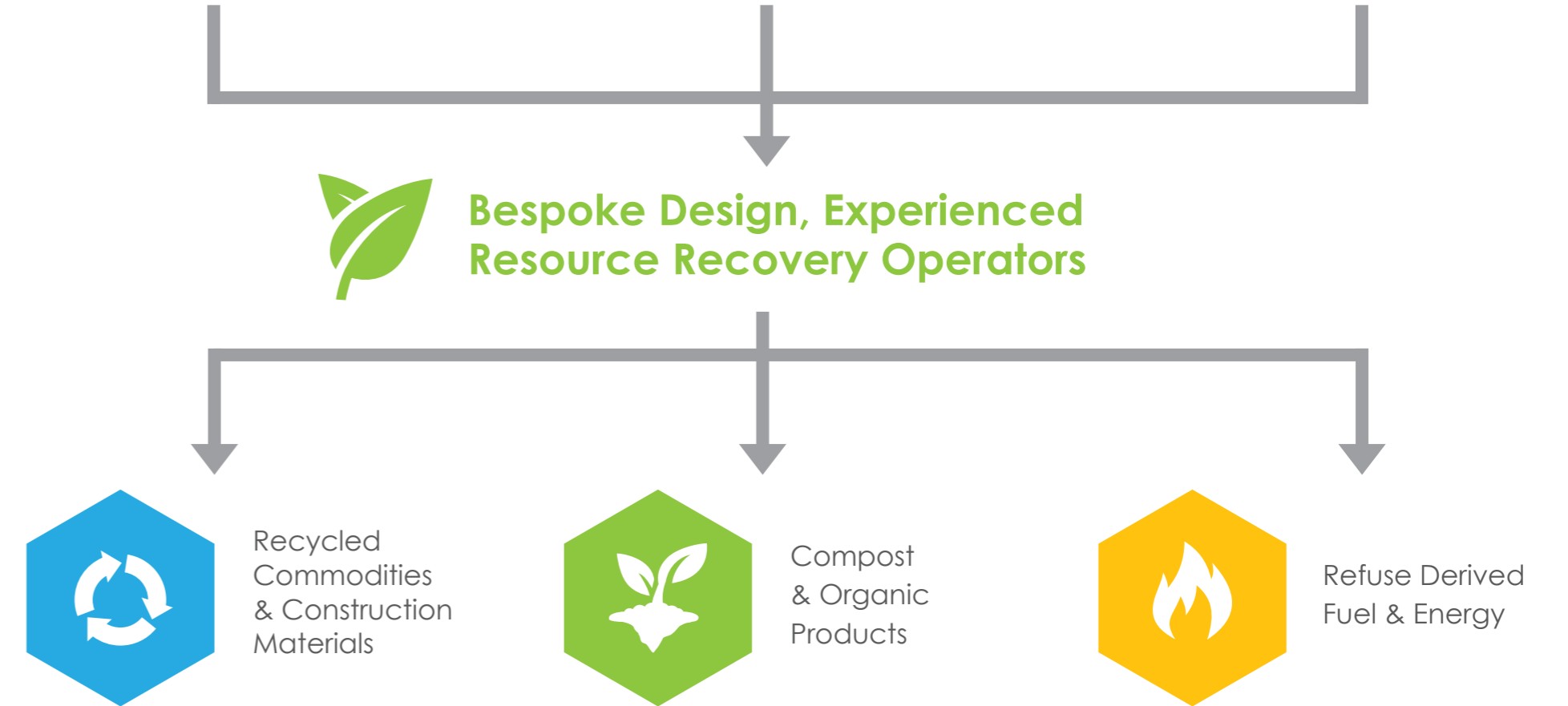
- ▶ In-house design and engineering focusing on the recycling and resource recovery industry
- ▶ Experience, intellectual property and know-how
- ▶ Delivered over 45 turnkey projects
- ▶ Partnerships with internationally leading technology partners

OPERATIONS

- ▶ Leaders in Australian advanced resource recovery for over a decade
- ▶ Experience across waste and recycling, renewable resources, and energy sectors
- ▶ Lean and efficient local operating teams
- ▶ Proven ability to create meaningful employment for disadvantaged people

PRODUCT DEVELOPMENT

- ▶ Market development for new products
- ▶ Product enhancement and continuous improvement
- ▶ Navigation of regulatory and approval processes
- ▶ Drivers of new legislation for the benefit of Australian recycling



*Household mixed waste is collected in a variety of bins – blue, black, red and green

The Existing Portfolio

Re.Group is actively delivering resource recovery services from mixed waste and source-separated recycling streams.



Materials Recovery Facility

Waste Type:

- ▣ Kerbside co-mingled

Re.Group Projects:

- ▣ Hume, ACT ▣ Mackay, QLD
- ▣ Townsville, QLD

Product Outputs:

- ▣ Cardboard ▣ Mixed Paper ▣ Ferrous
- ▣ Non-Ferrous ▣ Mixed Plastic ▣ HDPE
- ▣ PET ▣ Glass

Key Features:

- ▣ Typically 8-10 year contracts
- ▣ Modest capex requirements
- ▣ Product quality and ability to segregate is essential
- ▣ Target diversion of 90%+

Innovation:

- ▣ Product enhancement – such as glass sand, plastics, improved quality
- ▣ Making regional facilities economic



Organics Processing

Waste Type:

- ▣ Kerbside organics

Re.Group Projects:

- ▣ Shellharbour, NSW

Product Outputs:

- ▣ Compost for sale in agricultural, horticultural and retail markets

Key Features:

- ▣ Typically 8-10 year contracts
- ▣ Enclosed facility will allow food too
- ▣ High capex if enclosed, and has strict licensing requirements
- ▣ Target diversion of 95%+

Innovation:

- ▣ History of market development, working with regulators, offtakers, and technology providers
- ▣ Controlled processing environment with odour management



Alternative Waste Treatment

Waste Type:

- ▣ Kerbside MSW

Re.Group Projects:

- ▣ Fully costed proposals currently in the market
- ▣ Development services provided to Eastern Creek
- ▣ Upgrades and enhancements delivered to other Australian and international AWT facilities

Product Outputs:

- ▣ Compost for agricultural and mine site rehabilitation
- ▣ Recyclates such as ferrous, non-ferrous, mixed plastics and RDF

Key Features:

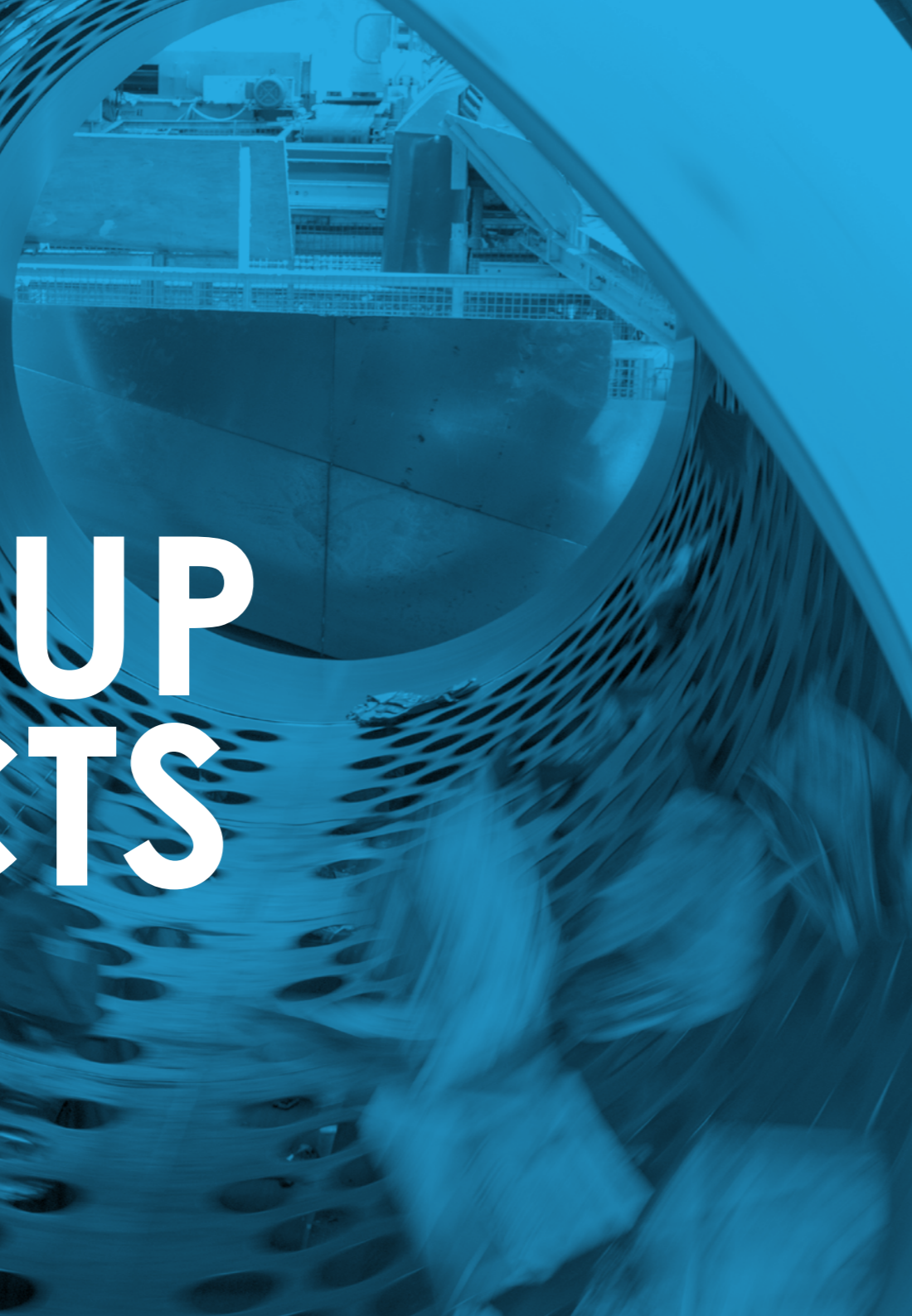
- ▣ Typically 20+ year contracts
- ▣ Strict environmental licensing requirements
- ▣ Target diversion of 65%+, up to 90% with RDF

Innovation:

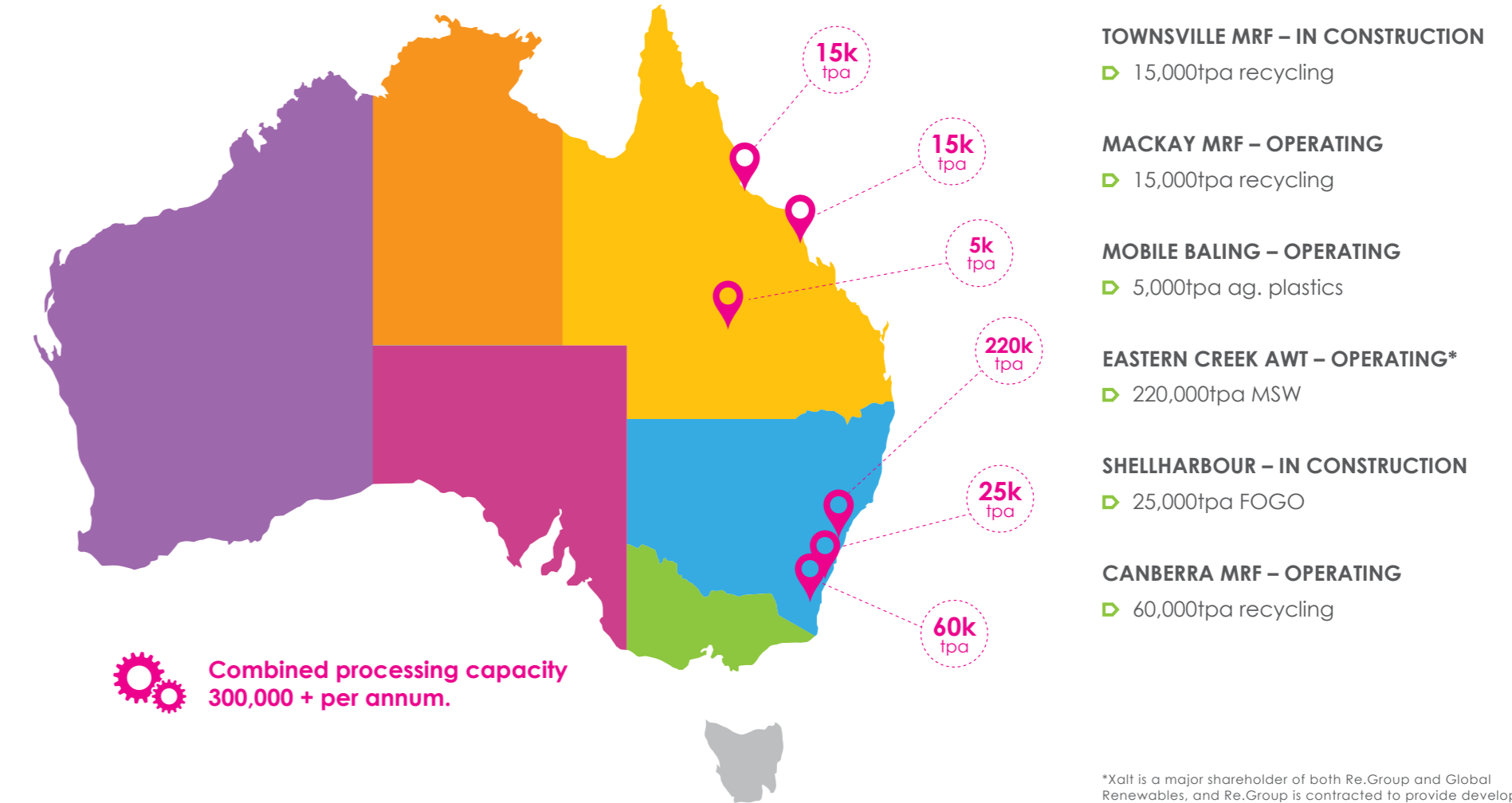
- ▣ RDF and Energy
- ▣ Making sub-50,000tpa facilities economic

KEY RE.GROUP PROJECTS

Re.Group is actively delivering resource recovery solutions from mixed waste and source-separated recycling streams.



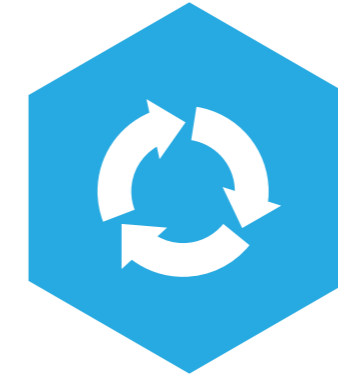
The Group and its related entities currently control projects with a combined processing capacity of more than 300,000 tonnes per annum.



*Xalt is a major shareholder of both Re.Group and Global Renewables, and Re.Group is contracted to provide development services to Global Renewables.

PRODUCT INNOVATION

Development of new markets for recovered products.



RECYCLATES



GLASS



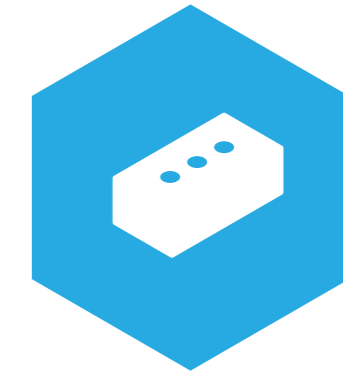
FUEL



COMPOST



CARBON



BRICK

Recyclates

Re.Group adds value through innovation, with a culture of continuous improvement and a strong focus on maximising the quality of products that are recovered at our recycling facilities.

- ▶ Re.Group has a demonstrated ability to identify and implement facility upgrades that can improve the quality of recovered materials, and achieve premium offtakes
- ▶ Introduction of the Alchemy Optical Sorting system is a prime example, whereby we adapted proven technology from the fruit sorting industry for use in Australian recycling facilities
- ▶ Our management focus, and our ability to innovate by deploying new technology, means we can sort material more efficiently

- ▶ We have also led development of a new circuit to clean up metals recovered from mixed waste, in order to improve offtake opportunities
- ▶ Our experience trading commodities from Australian waste streams, and strong relationships with key offtake partners, enables us to add value to recycling operations

We have a track record of maximising product quality and achieving premium market offtakes.



Re.Group is working to develop sustainable markets for recycled glass, addressing a key issue for the Australian recycling industry.

Glass

Re.Group is developing new markets for recovered glass. This will improve local social and environmental benefits.

- ▶ Import of glass bottles, coupled with high recycling rates, means the supply of recovered glass exceeds demand for new glass making in Australia
- ▶ Re.Group is the Australian agent for Krysteline, a UK-based specialist that has developed glass implosion technology
- ▶ Re.Group has installed Glass Sand Plants in a number of Australian MRFs, including the Mackay and Hume MRFs

- ▶ Re.Group has offtake agreements across all product lines including:
 - Use as a pool filtration and sand blasting medium
 - Use in the asphalt layer in road making
 - Use as a sand replacement in civil applications

Low Carbon Brick

Our team is working with Brickworks to minimise the environmental impact of making building products, utilising renewable resources to replace clay.



Our team has developed a new use for recovered organics, used in over 80 million bricks to date.

- ▶ Extensive research and development into using organics from MSW as an Alternative Raw Material (ARM) to replace clay in brick making
- ▶ Compliant with the Building Code of Australia and NSW Environmental Protection Authority regulations
- ▶ Produced over 80M bricks using up to 10% ARM
- ▶ In full scale commercial production

RE.DUCE

- ▶ Use of fossil fuel (natural gas) by drawing embodied energy from ARM
- ▶ Consumption of non-renewable resources (clay)
- ▶ Greenhouse Gas Emissions

RE.SULTS

- ▶ Lighter bricks
- ▶ Improved thermal properties
- ▶ Carbon neutral brick
- ▶ Cost advantages

Increasing organic matter is a key opportunity to improve the productivity of Australian soils.



Compost

Organics in the waste stream can be recovered and used to improve local soil productivity, rather than being disposed to landfill where they create significant greenhouse gas and odour emissions.

- ▶ Re.Group has experience manufacturing organic products from source separated and mixed waste sources, in accordance with regulatory guidelines and market standards
- ▶ Our team has lead the development of NSW markets for MSW-derived compost, with a focus on meeting the highest standards for agricultural uses
- ▶ We are helping return degraded land to productivity, in particular through rehabilitation of mine sites
- ▶ Re.Group is seeking to provide the market fit-for-purpose composted products, including retail of high quality source-separated organics to councils and local communities
- ▶ We work with leading compost distributors to understand customer requirements and achieve localised solutions

Refuse Derived Fuel

Re.Group is developing Australian markets for alternative fuels, such as RDF, which can reduce reliance on fossil fuels and also provide resource recovery opportunities for new materials.

- ▶ Re.Group is completing detailed feasibility on an innovative hybrid fuel project, and expects to secure funding from the Australian Renewable Energy Agency (ARENA)
- ▶ The project involves developing a new RDF boiler to provide steam into the re-heat circuit of an existing coal fired power station, reducing the carbon intensity of electricity provided to the national electricity market
- ▶ Working in partnership with a leading energy retailer with over 2.5 million customer accounts and over 4.5GW of installed or contracted energy capacity

- ▶ Local RDF offtake markets provide an opportunity to recover energy resources from parts of the waste stream that cannot currently be recycled in Australia
- ▶ Our team has experience in production of RDF from Australian household waste, with a strong understanding of the fuel characteristics and best-practice combustion solutions

We are working with leading energy retailers and energy users to provide new sources of fuel.



We have the skills and experience required to maximise our projects' revenue from carbon credits.

Carbon Credits

Re.Group has lead the industry in securing carbon credits for diversion of waste from landfill, allowing the greenhouse benefits of these activities to be rewarded in national carbon credit schemes.

- ▶ Our team includes the lead author for a joint industry methodology for the Carbon Farming Initiative, one of the first methodologies approved which was not sponsored by the Department of Climate Change and Energy Efficiency
- ▶ Re.Group worked extensively on negotiating a transition package for the recycling industry during the change from the Carbon Farming Initiative to the Emissions Reduction Fund. Our work allowed AWTs to continue to benefit under the Emissions Reduction Fund, and preserves the right for new AWT facilities to financially benefit from the greenhouse gas reductions they achieve

- ▶ Re.Group sits on the Technical Working Group (Waste) for the Emissions Reduction Fund, the only industry representative exclusively devoted to waste diversion projects
- ▶ Re.Group is a member of the Carbon Market Institute, and represents waste diversion projects on the CMI's Carbon Project Developers Council committee





OUR VISION

**“A WASTELESS SOCIETY,
WHERE ALL RESOURCES
THAT BECOME WASTE
ARE REUSED AND ARE
NOT DISPOSED.”**

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