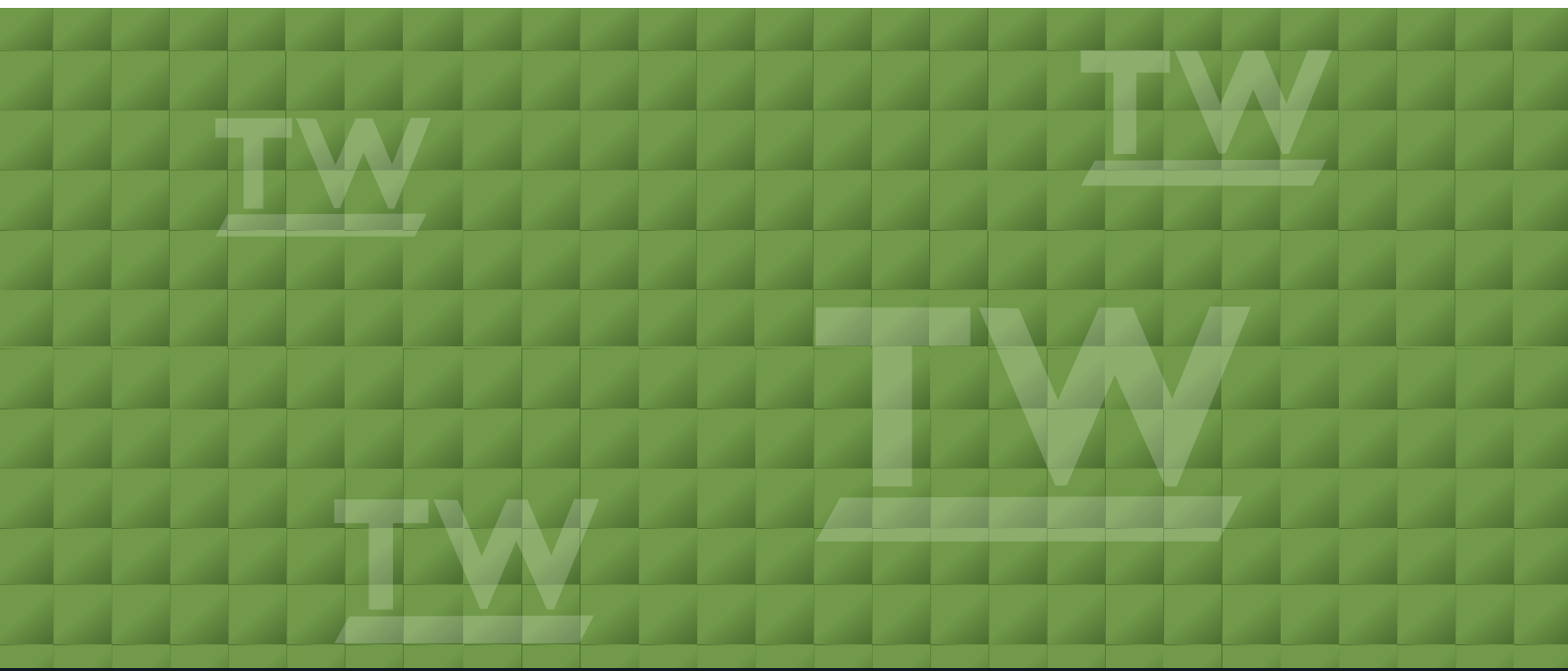




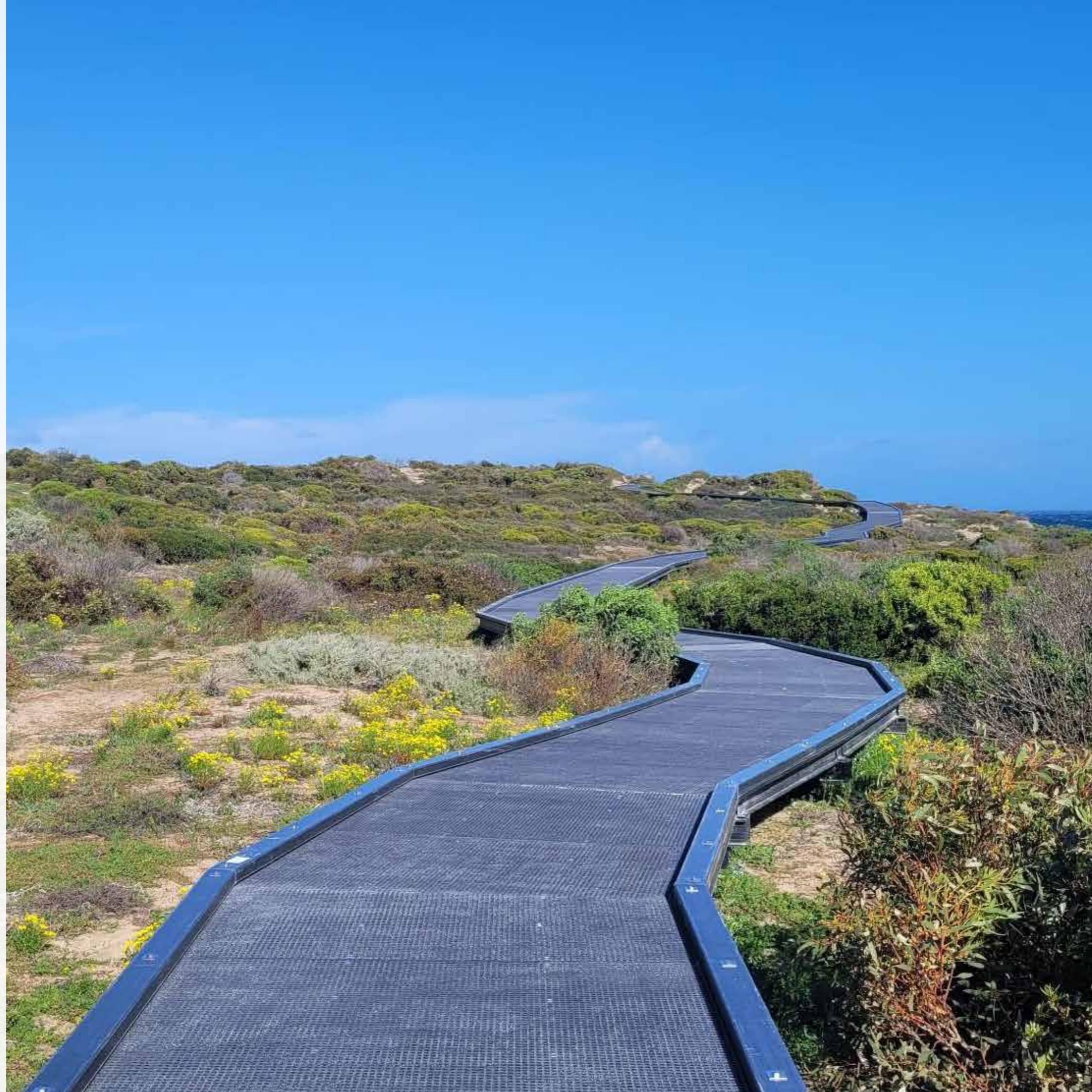
Environmental Sustainability Initiatives



At Treadwell Group, we firmly believe that thriving businesses must excel not only in their respective industries but also uphold a steadfast commitment to environmental sustainability. As custodians of both our local and global ecosystems, we recognise the urgency to embed sustainable practices into every facet of our operations. This whitepaper serves as a testament to our dedication to environmental stewardship and outlines our strategies for fostering a greener, more sustainable future.

Our Core Values

At the heart of Treadwell Group's strategic ethos lies a deep-rooted reverence for the environment. We have adopted a set of environmental core values to guide our actions, mentioned in this document.





At Treadwell Group Pty Ltd, we are dedicated to promoting **ENVIRONMENTAL, SOCIAL** and **GOVERNMENTAL** practices, and minimising our ecological footprint.

Our ***commitment*** to environmental stewardship ***is integral to our core values and business operations.*** Through continuous improvement and collaboration, we aim to contribute positively to the well-being of our planet.

Emissions Control

We adopt technologies and practices that reduce emissions, including greenhouse gases and air pollutants, to improve air quality and mitigate climate change impacts.

Energy & Water Usage

We have installed solar panels at our factory to provide zero-emissions electricity for our manufacturing operations, and to minimise consumption on the power grid.

Procedures have also been put in place to maximise water recycling throughout our factory.

Circular Economy

We are committed to minimising waste generation and promoting recycling, reuse, and responsible disposal practices for all materials used in our FRP manufacturing processes.

We view waste as a commodity instead of resource depletion to support a circular economy.

Compliance

We comply with relevant environmental laws, regulations, and standards applicable to our operations, ensuring that we meet or exceed the required standards.

Collaboration

We recognise that meaningful change requires collaboration. We actively engage with partners, suppliers, and communities to amplify our impact and drive positive environmental outcomes.



Research and Development

We will invest in research and development efforts to explore and implement innovative solutions that minimise the environmental impact of our FRP products, processes, and services.

Microplastics

Microplastics, typically measuring less than five millimetres in diameter, are tiny particles derived from various plastic sources. They are typically generated through the breakdown of larger plastic items or intentionally produced for specific applications.

Treadwell FRP products are constructed with UV inhibitor properties that resist UV degradation and breakdown. In our cutting operations, we use dust suppression and capture equipment to allow proper disposal of generated dust. Proper disposal and recycling mitigates the contribution to microplastics pollution. Crushed FRP contains compositions useful for asphalt, cement and tarmac reinforcements.



Supply Chain Responsibility:

We collaborate with our suppliers and partners to encourage sustainable practices and reduce the overall environmental impact of our supply chain.

Stakeholder Engagement:

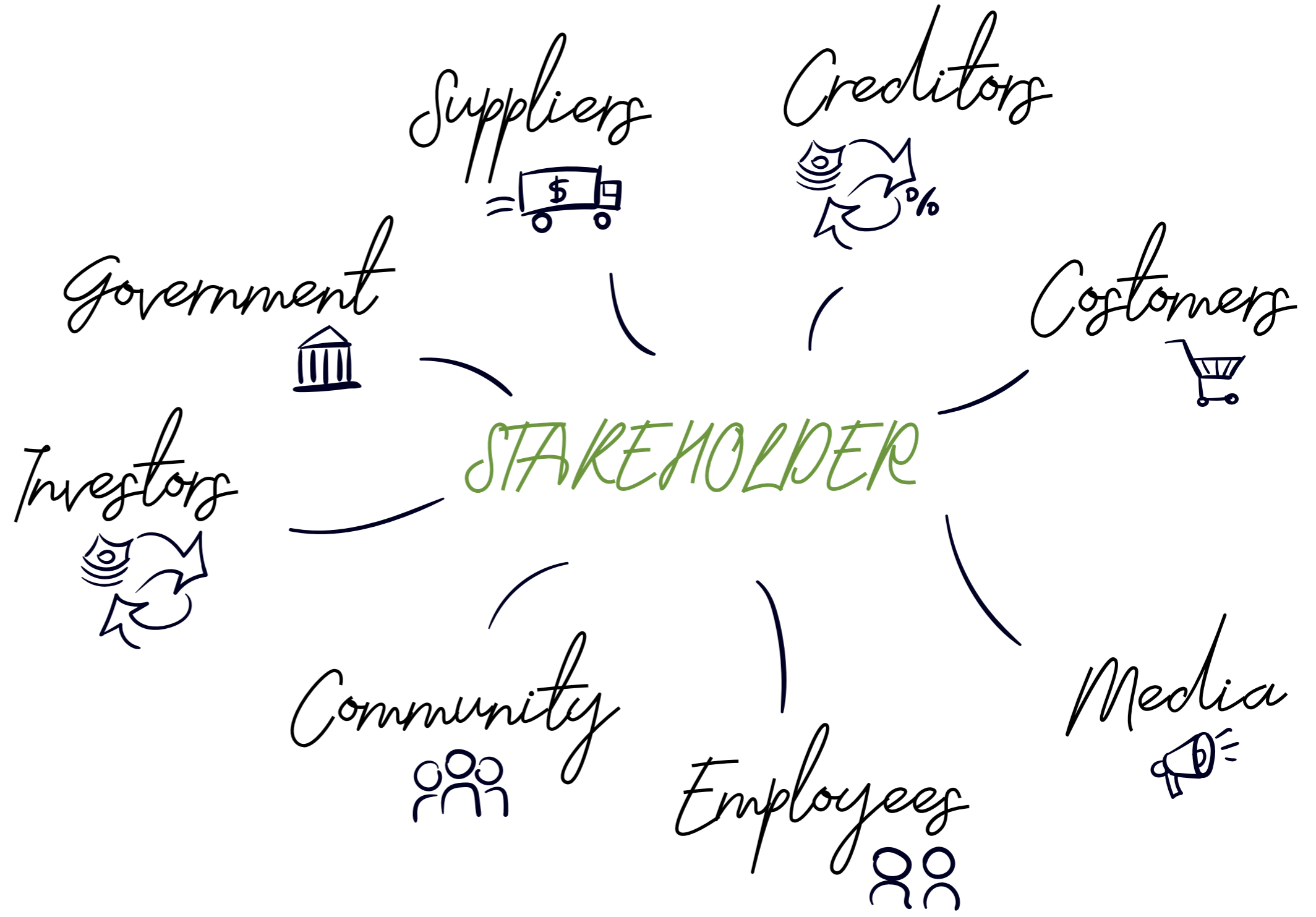
We actively engage with our employees, customers, local communities, and other stakeholders to raise awareness about environmental issues and encourage their participation in sustainable initiatives.

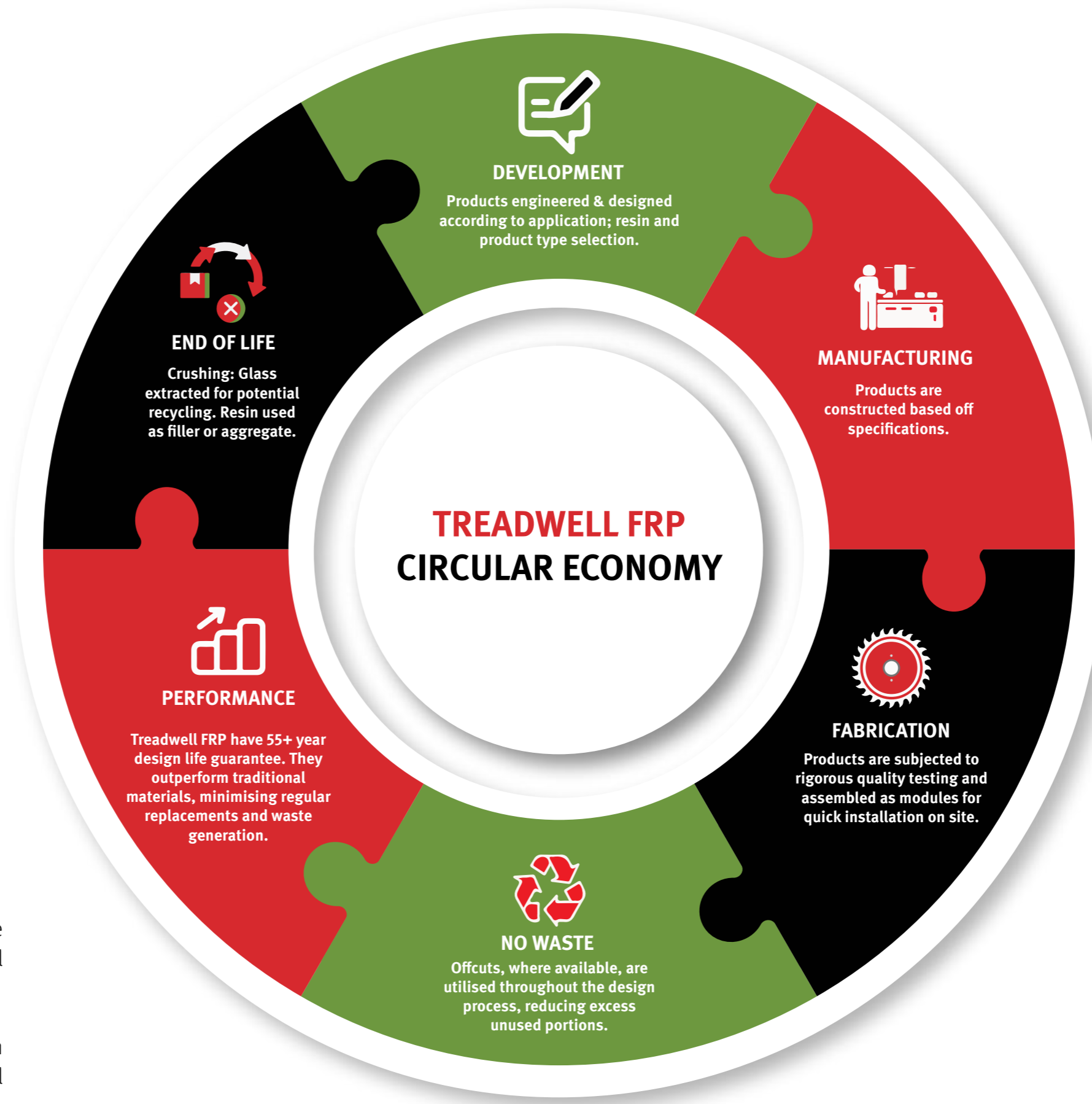
Continuous Improvement:

We are committed to setting measurable environmental objectives and targets, regularly monitoring our performance, and continuously improving our environmental practices.

Transparency and Reporting:

We maintain transparency by regularly communicating our environmental performance and progress to our stakeholders, ensuring accountability for our commitments.





Implementation and Accountability

Our leadership team is responsible for the implementation and oversight of this environmental policy.

Every employee is expected to uphold this policy in their respective roles and contribute to its successful implementation.

Regular assessments and audits will be conducted to ensure compliance with this policy and identify areas for improvement.



Review and Update

This policy will be reviewed annually to ensure its relevance and effectiveness. Any necessary updates will be made to align with changes in technology, regulations, and industry best practices.

By adopting this environmental policy, Treadwell Group Pty Ltd is dedicated to promoting sustainability and preserving the environment for current and future generations.

About Treadwell FRP

FRP composite materials distinguish themselves from other materials by their stiffness, strength and lightweight properties. This facilitates transport and handling, assembly and installation. These advantages, combined with the superior durability of the material makes it possible to conclude that the environmental advantages linked to the use of composites are indisputable – lower energy consumption and lower greenhouse gas emissions, longer component life even in the absence of maintenance, better performance and greater safety.

It can be said that the fact that composite materials are very durable and damage resistant makes them the ideal materials for the circular economy as they lend themselves well to repair (if necessary), reuse in other applications, and to recycling.

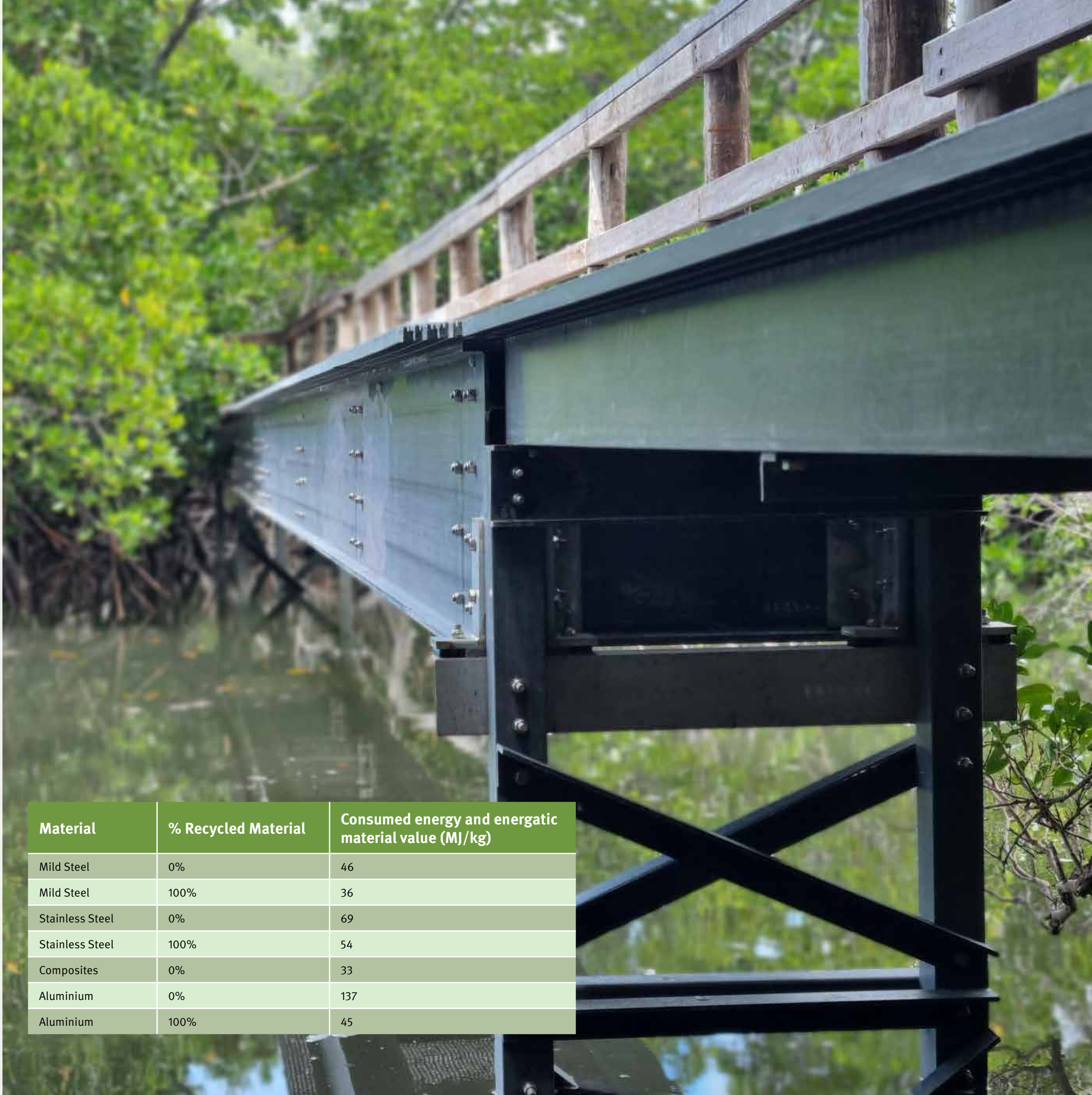


Advantages of FRP

The Network Group for Composites in Construction (NGCC) issued a Technical Sheet 07/07 – FRPs – Environmental Impact and Embodied Energy, concluding that, in the case of replacing a corroded steel structure, FRP is the material of choice based on longevity. In another case study comparing FRP and shotcrete for an aquarium tank, FRP was determined to have a lower carbon footprint than shotcrete.

FRP has proven itself to be the preferred choice over traditional materials based on the following benefits:

- Longer product lifespan over traditional materials makes FRP a more cost effective and environmentally sustainable choice.
- Energy and resources expended in manufacturing FRP is less than that of traditional materials.
- Lightweight compared to traditional materials. FRP is generally 75% lighter than steel and 30% lighter than aluminium, resulting in cost savings and reduced greenhouse gas emissions related to transportation and installation.
- FRP is thermally and electrically non-conductive.
- Numerous case studies have been conducted to show that undeniable performance of FRP compared to steel in terms of energy consumption to produce, maintenance costs, service life, and environmental impact.



Material	% Recycled Material	Consumed energy and energetic material value (MJ/kg)
Mild Steel	0%	46
Mild Steel	100%	36
Stainless Steel	0%	69
Stainless Steel	100%	54
Composites	0%	33
Aluminium	0%	137
Aluminium	100%	45

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