



GMA GARNET GROUP

A JEBSEN & JESSEN MEMBER

Progress Through Action

2025 SUSTAINABILITY HIGHLIGHTS

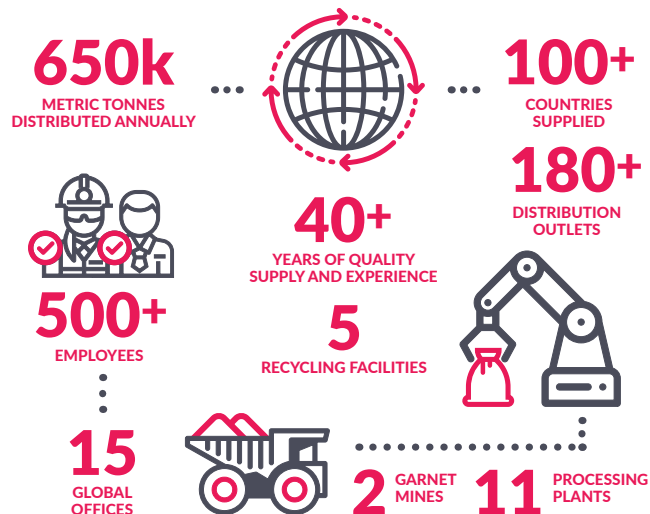
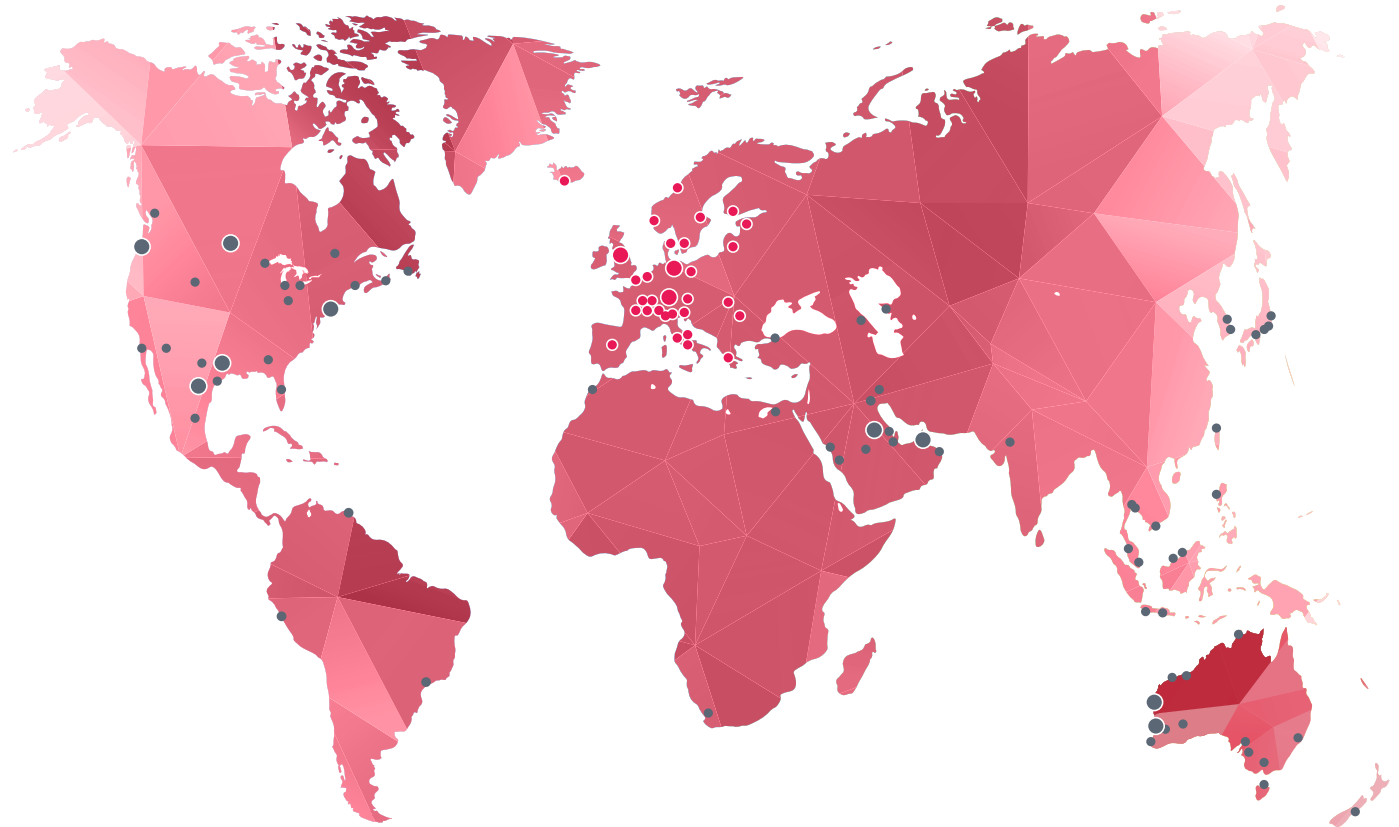


About GMA

GMA is a global provider of industrial garnet solutions for the abrasive blasting and waterjet cutting industries.

Our integrated network spans mining, processing, logistics, technical support, and garnet reprocessing. It includes two garnet mines, eleven processing plants, and five recycling facilities.

This global network is designed to support consistent product performance, dependable supply, and access to technical expertise across the markets we serve.



- Offices, Mines and Processing Plants
- Distribution Outlets
- Offices, Mines and Processing Plants operated by GMA Europe GmbH
- Distribution Outlets operated by GMA Europe GmbH

Building on our Sustainability Progress

2025 Sustainability Highlights

In 2025, GMA continued to strengthen its approach to responsible operations, with a focus on practical improvements that support our customers, our people and the long-term sustainability of our business.

Across our global operations, our priorities include improving energy efficiency, managing emissions, responsible water use, land rehabilitation, waste reduction and garnet recovery, alongside maintaining strong safety and governance practices.

An important milestone in 2025 was the completion of GMA's first formal sustainability materiality assessment. This helped identify the environmental, social and governance issues that matter most to our business and stakeholders, providing a clearer foundation for future sustainability priorities and ongoing improvement.

Looking ahead, we will continue to build on this progress, working with our customers, partners and people to improve resource efficiency, strengthen responsible practices and support more sustainable outcomes across the garnet value chain.

2025 at a glance

48% renewable energy penetration

Renewable energy increased from 42% to 48% of GMA's energy mix.

2.0834 km² rehabilitated at Port Gregory

Progressive rehabilitation continued to support long-term ecosystem recovery.

Approximately 1.79 million metric tons recovered or reused

This included recycling, reprocessing, mineral recovery, and other circular resource initiatives.

62,504 metric tons of garnet reprocessed

Returned garnet was reprocessed through operations in the United States and Middle East.

First formal materiality assessment completed

Providing a stronger basis for future sustainability priorities, performance measurement, and reporting.

AUD \$294,673 invested in communities

Bringing GMA's total community investment since 2021 to more than AUD \$1.64 million.



ENVIRONMENT

Responsible Environmental Management

GMA manages environmental impacts across all stages of its operations, from mining and processing through to water use, waste management, rehabilitation, and garnet reprocessing.

Our approach is guided by regulatory obligations, site-specific risks, and ISO 14001-certified Environmental Management Systems.

Operating conditions and environmental requirements differ across regions. Our controls and monitoring programs are therefore designed around the processes, environmental conditions, and regulatory requirements of each site.

In 2025, we continued working to strengthen the consistency of environmental data and reporting across our global operations.



Energy and Emissions

Renewable energy represented 48% of GMA's energy mix in 2025, increasing from 42% in 2024.

The wind, solar, and battery energy storage system at Port Gregory remained a key contributor to renewable energy use across the business.

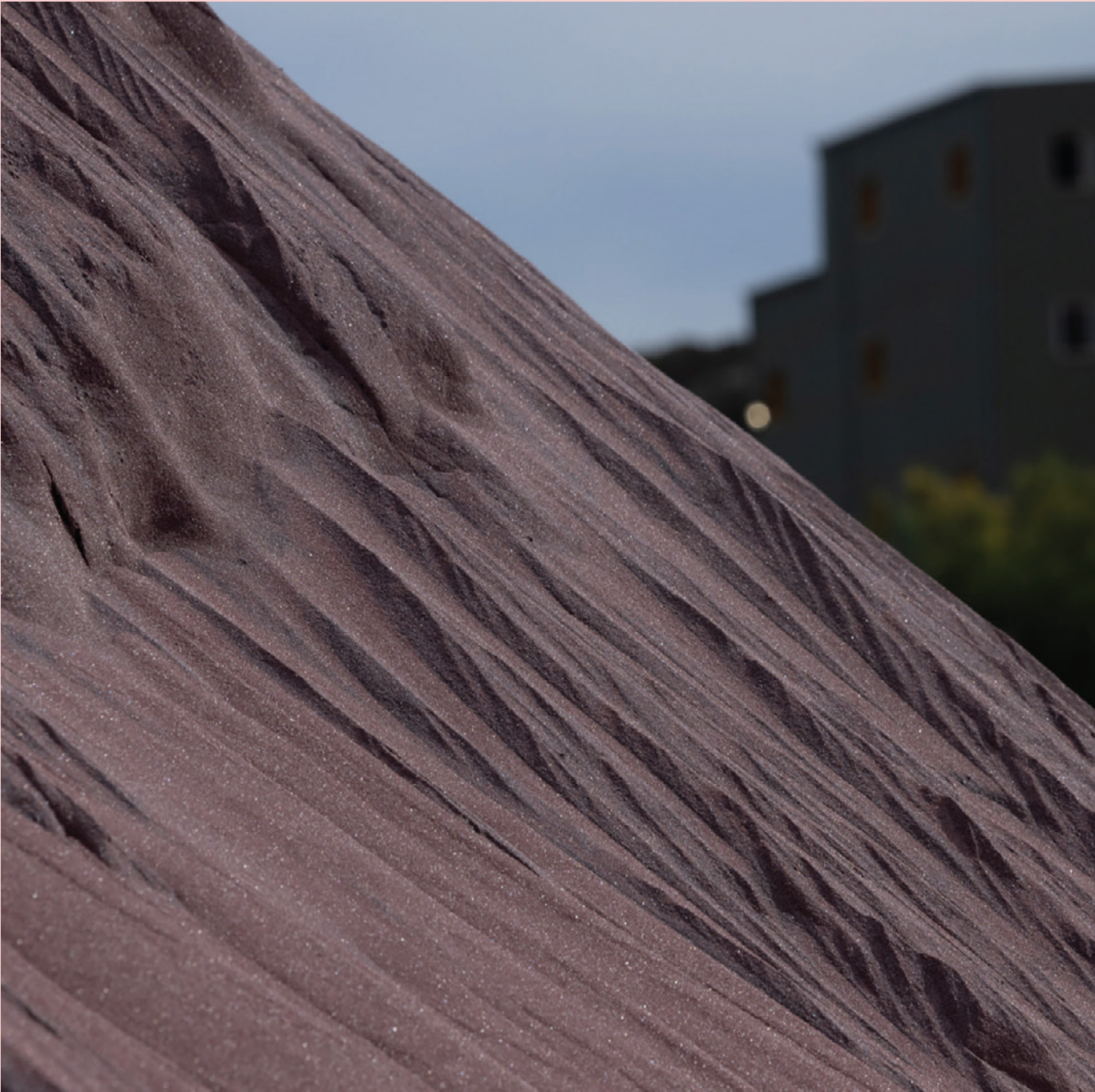
GMA's total Scope 1 and Scope 2 greenhouse gas emissions increased from 26,859.80 tCO₂e in 2024 to 29,837.61 tCO₂e in 2025.

This increase primarily reflected higher operational activity and the additional mining and processing required to maintain production volumes as ore grades changed. These conditions contributed to higher fuel and electricity consumption and a modest increase in emissions intensity.

GMA continues to improve the quality and consistency of emissions data to better understand how energy use, production requirements, and operational changes affect our emissions profile.

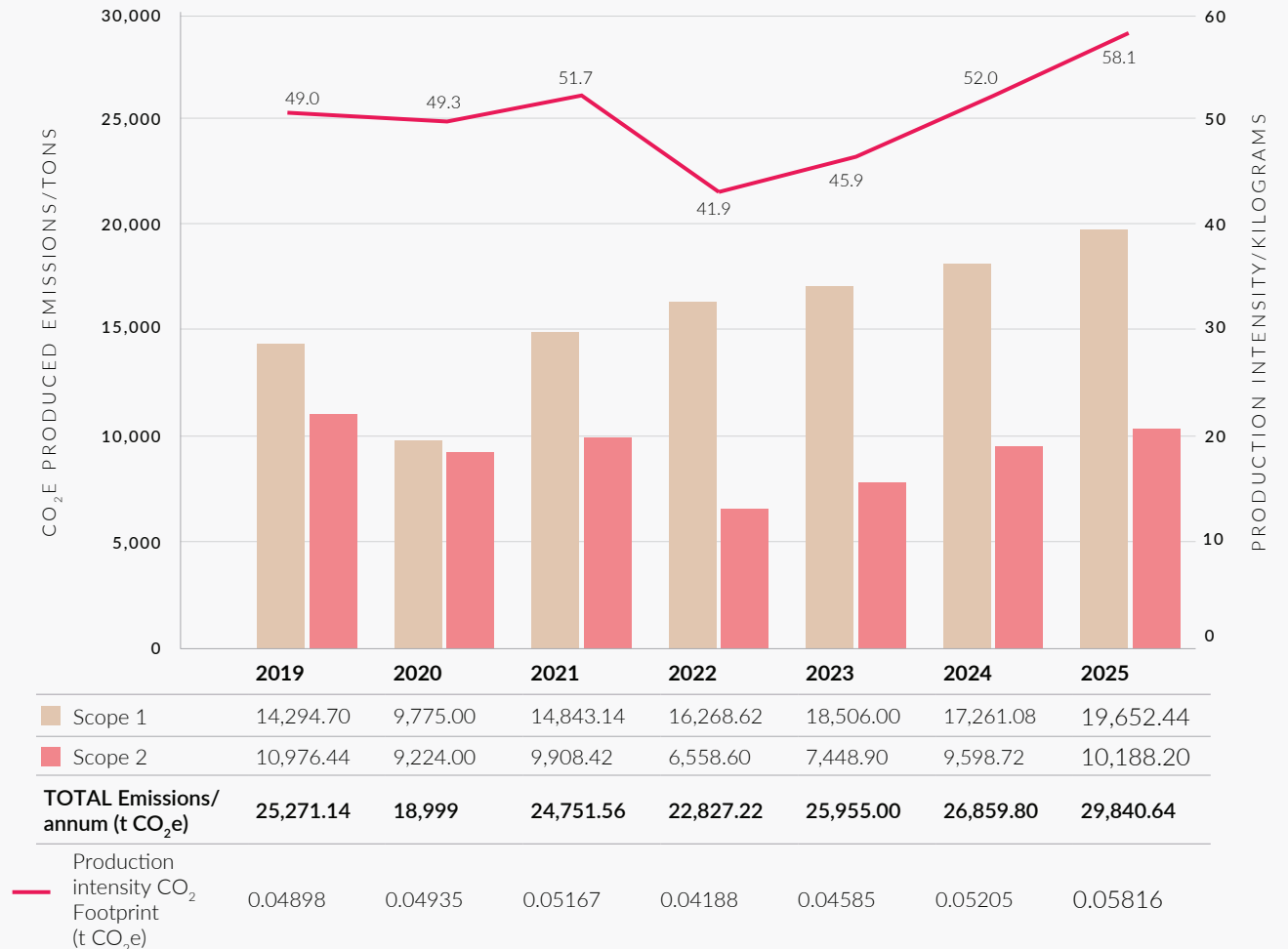
2025 v 2024 Scope 1 and 2 Emissions
(tons of CO2 equivalent)

	2025 (tCO ₂ e)	2024 (tCO ₂ e)
Scope 1	19,652.44	17 261.08
Scope 2	10,185.17	9,598.72





GMA TOTAL CO₂e PRODUCED



Scope 1 (Direct Emissions) incorporates onsite material transportation, electricity generation, GMA owned and operated transportation and plant operations.

Scope 2 (Indirect emissions) relates to GMA's electricity use.

Land Rehabilitation

Responsible land management and progressive rehabilitation remain priorities at GMA's mining operations in Western Australia and Montana.

At Port Gregory in Western Australia, rehabilitation is integrated into ongoing mining activities, with a focus on restoring disturbed land and supporting the recovery of native vegetation. This includes backfilling mined areas, managing and replacing topsoil, re-spreading retained vegetation matter, re-vegetating disturbed areas and controlling weeds.

During 2025, GMA restored 0.0979 km² of land at Port Gregory, bringing the cumulative rehabilitated area to 2.0834 km². Rehabilitation activities focused on stabilizing landforms and progressively restoring native vegetation communities to support long-term ecosystem recovery.

GMA continues to monitor and manage areas undergoing rehabilitation, recognizing that restoring native vegetation and ecosystems takes time. These efforts form part of our broader approach to responsible land management, with rehabilitation progressing alongside mining activities to support the long-term recovery of disturbed landscapes.



9.79ha

REHABILITATED IN 2025
AT PORT GREGORY



208ha+

CUMULATIVE
REHABILITATION AT PORT
GREGORY



Effective land stewardship requires a long-term perspective. Across our operations, we are advancing rehabilitation practices designed to support ecosystem recovery and responsible land management.

Water Stewardship

Water management at GMA is shaped by local water availability, process requirements, site infrastructure, and regulatory obligations.

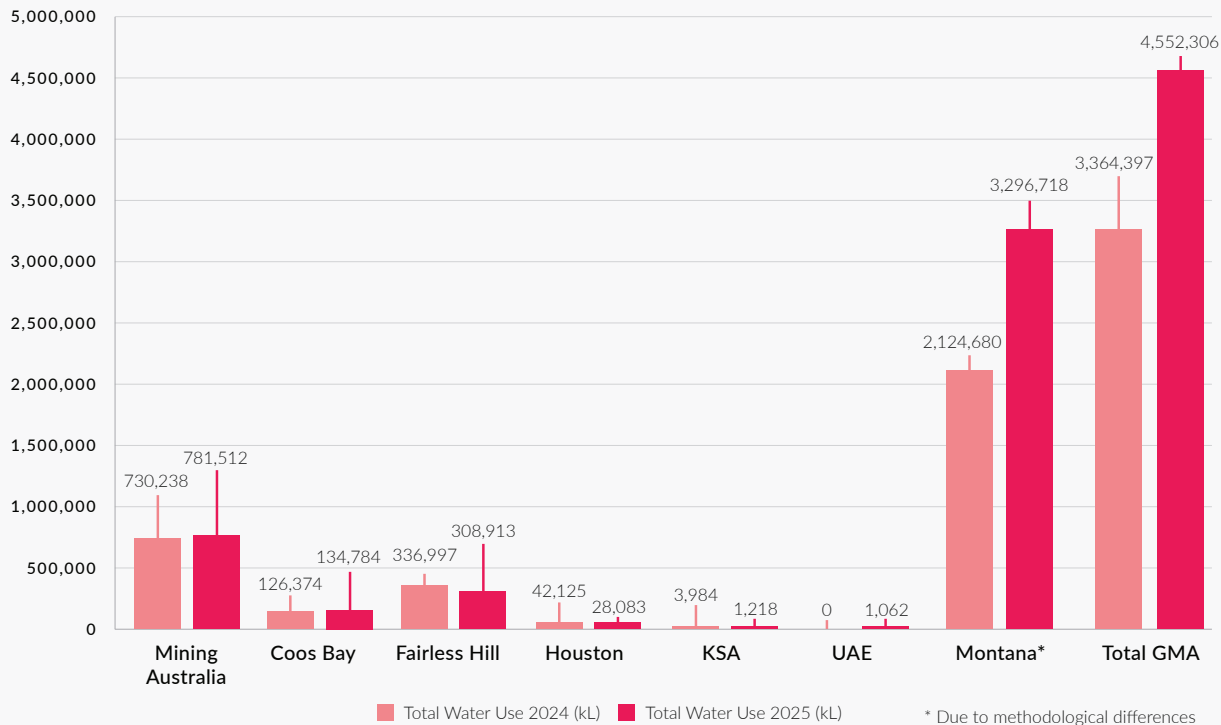
Water plays an important role in GMA's garnet processing, particularly in separating garnet from non-garnet material. Across our operations, water is managed according to local conditions and requirements, with recycling and reuse built into key processing systems.

At Port Gregory in Western Australia, water is recycled through the thickener plant and tailings storage ponds, with surface runoff also recovered for reuse where appropriate. Located near environmentally sensitive areas, including Hutt Lagoon and Utcha Swamp, the site remains a priority for responsible water management.

At Alder in Montana, a closed-loop, zero-discharge system treats and recirculates process water through the plant. Water passes through a thickener and lined settling ponds before being returned to the processing system for reuse. This approach enables water to be continually recirculated while minimizing the need for additional water withdrawal.

In 2025, GMA's total reported water withdrawal was approximately **4.55 million kiloliters**, with water use primarily associated with mineral processing activities. GMA continues to strengthen water monitoring and reporting across its operations, with a focus on improving data accuracy, identifying opportunities for greater efficiency and supporting responsible water use over time.

GMA TOTAL WATER WITHDRAWAL AND THIRD PARTY SUPPLY



* Due to methodological differences 2024 figure is not directly comparable.

Recycling Performance

80% 

OF SPENT GARNET CAN BE
REPROCESSED / RECYCLED

230k+ METRIC TONNES
RECYCLED
GLOBALLY IN THE
LAST 5 YEARS

UP TO
18%
ALTERNATIVE
RAW MATERIAL

AS LOW AS
2%
WASTE GOES
TO LANDFILL

RECYCLE UP TO
5 TIMES
5 RECYCLING
PLANTS

Waste Recovery and Garnet Reprocessing

GMA manages waste through compliant handling and disposal, material recovery and reuse, and garnet reprocessing. This includes recovering operational materials and reprocessing returned garnet to reduce waste and extend the useful life of resources.

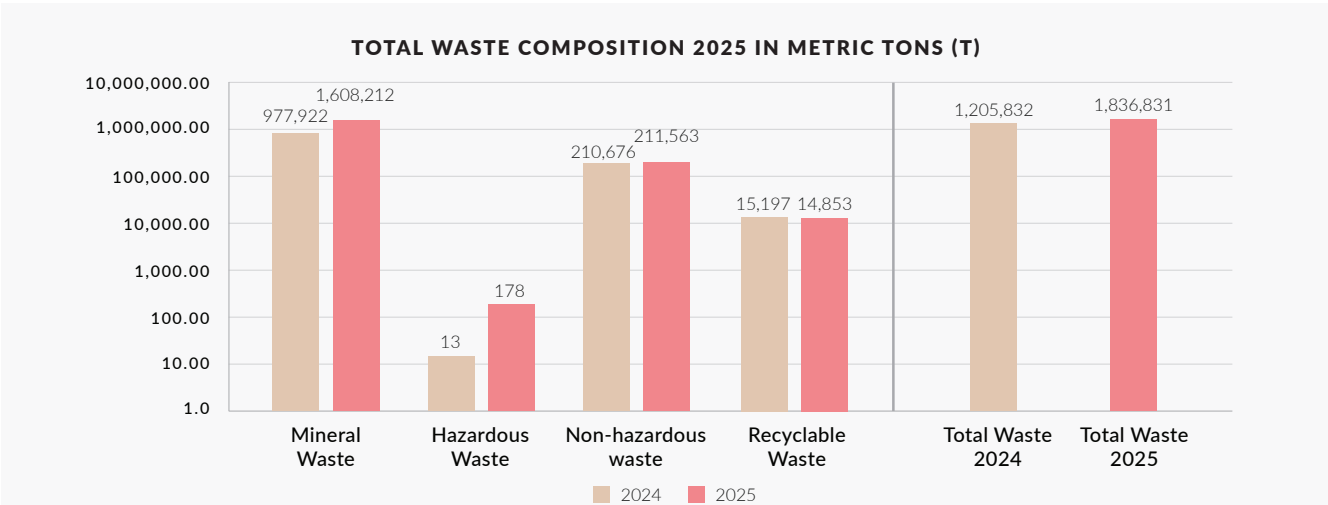
In 2025, approximately 1.79 million metric tons of material were recovered or reused across the business. This included mineral material used for backfilling and rehabilitation, recovered mineral by-products, recyclable materials, and reprocessed garnet.

Approximately 10,700 metric tons of waste were directed to disposal. This primarily consisted of process residues and general waste streams managed in accordance with local regulatory requirements.

For our GMA customers across America and the Middle East, garnet return and reprocessing programs provide a practical pathway to reduce disposal and keep suitable material in use for longer where infrastructure and local regulations allow.

REPROCESSED GARNET IN METRIC TONS (T)

	2023	2024	2025
United States	10,737	11,494	17,987
Saudi Arabia	22,333	33,141	32,541
Middle East	7,148	13,888	11,976
TOTAL (metric tons)	40,218	58,523	62,504



Working with Customers and Partners to Improve Garnet Recovery

Garnet recovery and reprocessing depend on collaboration between customers, contractors, distributors, and GMA.

Return programs operating in the United States and Middle East enable suitable used garnet to be collected, assessed, and reprocessed rather than disposed of after a single use.

These programs form part of GMA's broader approach to waste management, which focuses on recovering valuable materials, improving resource efficiency and reducing waste sent to landfill.

Beyond customer recovery programs, GMA continues to identify opportunities to recover industrial mineral by-products, improve processing efficiency and minimize waste across its mining and processing operations.

In 2025, collaboration with customers, contractors and distributors continued to support garnet recovery in the United States and Middle East, helping extend the useful life of garnet and reduce disposal requirements.

Together, these initiatives support a more circular approach to resource management throughout the garnet lifecycle, from mining and processing through to customer use and recovery.



CASE STUDY 2025 GMA Global Sustainability Awards

In 2025, GMA announced the recipients of its inaugural Global Sustainability Awards.

The awards recognize customers and distribution partners that implemented practical initiatives to improve garnet recovery, reduce waste, and increase reuse.

2025 AWARD RECIPIENTS

Partner Excellence Award – Abrasive Blasting National Industrial Gas Plants

Industry Leader Award – Contractor or Manufacturer Nasser Saeed Al-Hajri & Partners Contracting Company

Industry Leader Award – Asset Owner A leading energy and chemicals company in Saudi Arabia

Best New Entrant – Abrasive Blasting Lamprell Energy Limited

Partner Excellence Award – Waterjet Cutting Butler Bros

Industry Leader Award – Waterjet Cutting End User Howmet Corporation

Best New Entrant Participant A leading infrastructure company in the United States

Top Global Returns Award National Industrial Gas Plants

Sustainability Champion Award KAEFER





CASE STUDY

Recognizing Leadership in Sustainability

National Industrial Gas Plants (NIGP), a leading industrial gases provider in Qatar, received two awards at the 2025 GMA Global Sustainability Awards: the Partner Excellence Award – Abrasive Blasting and the Top Global Returns Award, recognizing its commitment to responsible abrasive use and resource recovery.

Through its collaboration with GMA Middle East, NIGP has integrated the GMA Garnet Returns Program into its daily operations, establishing processes to collect and return used garnet for reprocessing rather than sending it to landfill. This approach helps reduce waste, extend the useful life of garnet and improve resource efficiency across its blasting operations. NIGP's commitment demonstrates how practical recovery systems and strong customer partnerships can deliver meaningful environmental outcomes while maintaining operational performance.

The dual recognition highlights the important role customers play in advancing more circular practices across the abrasive blasting industry. By making garnet recovery part of its everyday operations, NIGP provides an example of how industry collaboration can support waste reduction and more responsible resource management across the Middle East.



National Industrial Gas Plants (NIGP) was honored with two awards at the 2025 GMA Global Sustainability Awards – the Partner Excellence Award – Abrasive Blasting and the Top Global Returns Award.

“By recognizing these efforts, we aim to highlight the practical steps that are making a difference - whether that’s returning garnet for recycling, refining blasting techniques to reduce abrasive consumption, or integrating sustainability into decision-making. These are real, measurable outcomes, and we are proud to partner with customers who are leading by example.”

Stephan Kirsch, GMA CEO



CASE STUDY

Greg Hildebrand —Environmental Governance and Water Stewardship

As environmental expectations across the mining sector continue to evolve, environmental governance is playing an increasingly important role in how operations are planned, managed, and monitored across GMA's global business.

For Greg Hildebrand, GMA America's Director of Environmental & Permitting, this includes overseeing the regulatory and environmental frameworks that support GMA's mining, processing, water management, and rehabilitation activities across multiple jurisdictions.

Greg's role spans environmental permitting and approvals, regulatory engagement, and environmental monitoring and reporting. This includes managing compliance obligations related to water use, air emissions, waste management, and land rehabilitation, while working closely with regulators, government agencies, and local stakeholders.

"Environmental permitting establishes the framework for how we manage mining, processing, water use, waste handling, and environmental protection across the business," Greg said.

As environmental management becomes increasingly integrated into operational planning and long-term business strategy across GMA, Greg highlighted water stewardship as a key area of focus, with greater emphasis placed on water efficiency, reuse opportunities, and groundwater protection.

"GMA recognizes water as both an operational resource and a key environmental responsibility," he said.

Supporting this approach are environmental monitoring programs that help ensure environmental data aligns with permit conditions and sustainability reporting requirements, strengthening compliance, transparency, and informed decision-making across the business.

Looking ahead, Greg believes proactive environmental planning, strong governance, and efficient resource management will remain central to supporting responsible growth and long-term operational sustainability across GMA's operations.



SOCIAL

Safety and Workforce

GMA's social priorities include maintaining a safe, accountable, and inclusive workplace across its global operations.

Our health and safety approach is supported by ISO 45001-certified Occupational Health and Safety Management Systems, GMA Lifesaving Rules, workforce training, hazard reporting, and site-level risk controls.

During 2025, GMA continued to strengthen safety expectations across regions and improve employee awareness of high-risk activities.

Employee feedback also informed priorities relating to leadership, communication, recognition, and workplace culture. A total of 277 employees participated in the 2025 engagement survey, representing 63% of GMA's workforce.



442
EMPLOYEES
GLOBALLY



59
NEW HIRES



14.7%
(90) VOLUNTARY
TURNOVER



15+
DIFFERENT
NATIONALITIES



17.19%
WOMEN IN GMA
WORKFORCE

Community Investment

GMA invested AUD \$294,673 in community initiatives during 2025, bringing total community investment since 2021 to more than AUD \$1.64 million.

Activities across Australia, the United States, and Middle East included education and workforce development, mental health and well-being programs, cultural awareness, employee volunteering, and support for regional organizations.

Global Community Investment (AUD)

TOTAL SINCE 2021:

\$1,642,835

TOTAL IN 2025:

\$294,673



CASE STUDY

Investing in the Communities That Host Us

In 2025, GMA invested more than AUD \$47,000 through sixteen community partnerships across Western Australia's Mid-West region.

The program supported initiatives in health, education, culture, sports, and regional participation.

Key initiatives included support for suicide-prevention and mental-health programs, Melanoma March 2025, and the Lions Cancer Institute's Special Children's Big Day Out.

Education and workforce initiatives included the Central Regional TAFE Scholarship Program, Geraldton Universities Centre Scholarship Program, and sponsorship of the MEEDAC Expo.

GMA also supported the YSRC NAIDOC Celebration, local sporting clubs, and regional events.

These partnerships reflect our long-term connection to the communities surrounding our Port Gregory and Geraldton operations.



CASE STUDY Inspiring Future Talent in the Middle East

As part of its community engagement and capability development activities in Dubai, United Arab Emirates, GMA Middle East hosted students from Raffles World Academy (RWA) to provide exposure to industrial operations, sustainability practices, and career pathways connected to the resources sector.

Students were introduced to the role of garnet in industrial applications and observed key operational processes including processing, packaging, quality assurance, and abrasive blasting activities.

The visit also provided broader insight into GMA's approach to resource use, recycling, and operational sustainability.

The initiative reflected GMA's ongoing focus on supporting education and industry awareness through engagement with local schools and educational institutions across its operating regions.

By connecting students with practical operational environments, the program helped strengthen understanding of technical disciplines, industrial processes, and sustainability considerations relevant to the sector.



GOVERNANCE

Strengthening Sustainability Governance

In 2025, GMA completed its first formal materiality assessment.

The assessment incorporated internal and external perspectives to identify and prioritize the environmental, social, and governance topics most relevant to our operations, stakeholders, and long-term business priorities.

GMA also continued improving sustainability data collection and reporting. This included refining reporting workbooks, reviewing calculation methodologies, and working toward greater consistency across regions.

These improvements provide a stronger basis for performance measurement and future decision-making. GMA recognizes that further work is required to improve data quality, clarify ownership of material topics, and strengthen consistency across the business.

Internationally Recognized Management Systems



GMA MAINTAINS INTERNATIONALLY RECOGNIZED CERTIFICATIONS ACROSS ITS OPERATIONS:

ISO 9001 – Quality Management Systems

Supports standardized quality controls, documentation, product verification, and consistent customer outcomes.

ISO 14001 – Environmental Management Systems

Supports the identification and management of environmental impacts, including waste, emissions, and resource use.

ISO 45001 – Occupational Health and Safety Management Systems

Supports workforce safety, participation, risk management, and accountability.

Compliance is monitored through internal audits, risk and obligation reviews, site inspections, training, and independent certification processes.

These systems provide a consistent framework for managing quality, environmental, and safety requirements across GMA's global operations.

Maintaining ISO-certified management systems helps ensure a disciplined approach to process control, documentation, and operational performance across our global production facilities.



GMA GARNET GROUP

A JEBSEN & JESSEN MEMBER

Turning Strategy into Action

Download full 2025 GMA Sustainability Report



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