



# MM CENTURY SDN BHD SUSTAINABILITY REPORT 2025

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Driving **Sustainability**  
through **Environmental Management**

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# Basis of Preparation

This Sustainability Report has been prepared with reference to MM Century internal resources, especially:

- ESG Materiality Assessment Report (2024)
- Greenhouse Gas Inventory Report (2024 and 2025).

The reporting boundary follows an **operational control approach**, covering activities and facilities under MM Century's direct management. The report represents MM Century's first consolidated sustainability disclosure. It also establishes a clear ESG performance baseline to support improvement, target-setting and more comprehensive disclosures in future reporting cycles.

This report has been prepared with reference to the Global Reporting Initiative (GRI) Standards (2021), along with the following guidelines:

- Bursa Malaysia Sustainability Reporting Guide
- Greenhouse Gas Protocol
- ISO 14064-1:2018 (GHG quantification and reporting).

Future reports will expand quantitative data coverage and increase quantitative disclosures, as MM Century continues to strengthen its ESG systems. They will also enhance alignment with advanced GRI standards, and consider external assurance in line with regulatory and stakeholder expectations.

## Reporting Completeness and Data Limitations

As this represents MM Century's first consolidated sustainability disclosure, certain indicators are reported as:

- "Not measured in 2024 (baseline year)", or
- "Data collection in progress", where systems or processes are still being developed

These limitations primarily affect selected occupational safety indicators, workforce breakdowns and supplier ESG screening metrics. To address these gaps, MM Century has incorporated corrective actions into its ESG Roadmap, including:

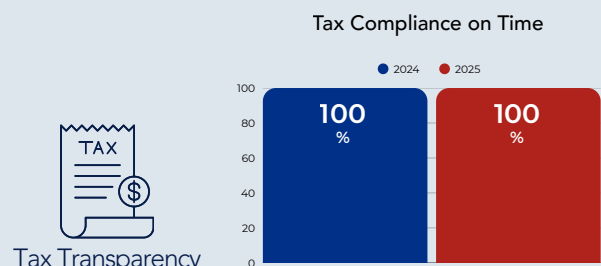
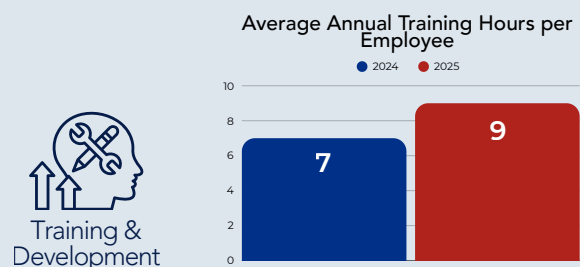
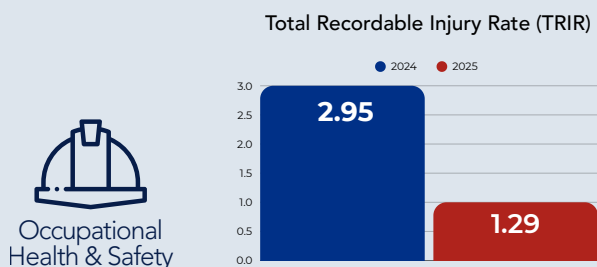
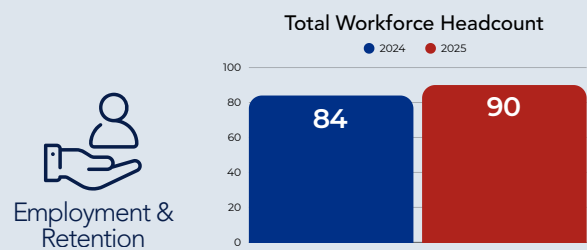
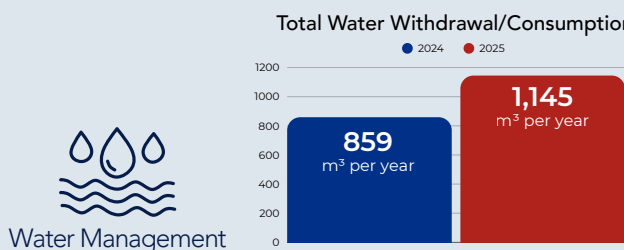
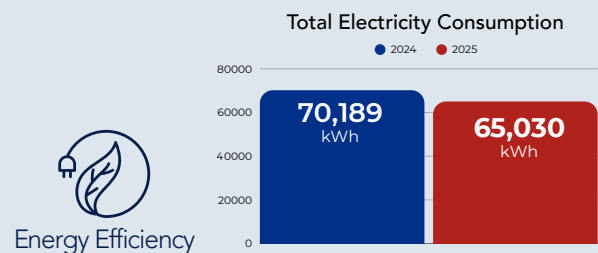
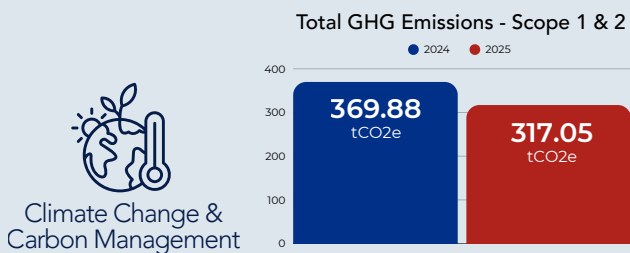
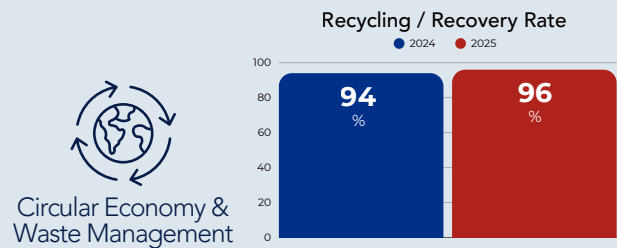
- Improved data capture and documentation systems
- Clearer KPI ownership and accountability
- Enhanced internal reporting processes.

MM Century is committed to improving data quality, consistency and coverage in subsequent reporting cycles.

No external assurance has been obtained for this report.

# At a Glance: ESG Performance Overview

This report highlights **10 key ESG indicators** across environmental, social and governance dimensions, comparing 2024 baseline data with 2025 performance where available. These indicators align with the company's **KPI Indicator Matrix** and reflect the most material ESG issues identified through stakeholder engagement.



# MESSAGE FROM THE EXECUTIVE DIRECTORS

”

Welcome to MM Century's **Sustainability Report 2025**. This report marks a vital step in strengthening how we communicate our responsibilities, performance and direction as a company operating in Malaysia's waste management and data destruction sector. More importantly, it reflects who we are and how we choose to run our business each day.

As an SME, our approach to sustainability is practical and operational. Our teams handle recyclable materials, regulated waste and confidential data. **Doing this work responsibly - protecting people, preventing harm and complying with regulations** - is fundamental to how we run our business.

This commitment aligns with our **mission - providing secure, compliant and environmentally sound solutions that contribute to Malaysia's long-term goals.**



**Visvam Rangayah**  
Executive Director



**Ashok Rangayah**  
Executive Director



Over the past year, we have taken several meaningful steps forward. Successfully completing the **SERI R2v3 audit 2026** will give us international-level validation for our recycling and data destruction processes. We also conducted our first **greenhouse gas inventory** and digitising internal systems helped us improve traceability and transparency.

Moreover, being recognised once again with the **ESG Positive Impact Award** reminded us that the industry not only sees, but also values, our responsible practices.



It makes our environmental footprint more visible and lays a foundation for future improvement. Continued investment in digital systems has further strengthened traceability, documentation and transparency across our operations.

We are proud to have reached these milestones. At the same time, we remain realistic about ongoing challenges, including uneven standards driven by unlicensed operators and price-based competition. These realities reinforce the **importance of strong SOPs, continuous learning, industry engagement and collaboration with regulators and NGOs.**

Going beyond commitment, we want to raise awareness that **compliance and responsible recycling are not optional - they are essential for safeguarding people, data and the environment.**

Looking ahead, we are focussed on **practical steps to better our sustainability performance.** This includes investing in cleaner technologies, starting with **electric forklifts** to reduce on-site emissions. We are strengthening our data systems, too, to support **GRI alignment**, and expanding our carbon reporting into selected **Scope 3 categories.** Furthermore, we are building our team's **competencies**, so that they can keep ahead of industry expectations and support our clients with improved data and insights.

Above all, we want our customers, partners and communities to know that our ESG commitments are both genuine and long-term. As we grow, we fully intend to prioritise strong governance, transparent communication and responsible operations. **Sustainability for us is not a separate initiative - it is a responsibility that guides our decisions and actions.**

Thank you for your trust and continued partnership.

**Ashok Rangayah**  
**Visvam Rangayah**  
Executive Directors  
MM Century Sdn Bhd

# About MM Century

## Company Overview

MM Century Sdn. Bhd. is a 100%-Malaysian-owned SME, an environmental services company headquartered in Pulau Pinang. We operate in the waste management and data destruction sector, providing secure, compliant and environmentally responsible solutions to industrial and commercial clients across Peninsular Malaysia.

Established to meet the growing need for responsible waste-handling and information security, we have grown steadily by focusing on one simple principle: **do the work properly, safely and transparently.**

From its inception over 40 years ago, MM Century has operated in a sector where **trust is of the utmost importance.** Our clients rely on us to manage sensitive materials, protect confidential information and ensure waste-handling in a way that does not harm people or the environment. This responsibility **determines how we design our processes, train our people, and invest in our facilities.**

Operating in a sector where environmental risk and information security are critical, MM Century focuses on **disciplined processes, trained personnel and controlled facilities.** These principles guide how we manage waste streams, safeguard confidential information and meet regulatory obligations.

## What Do We Do?

MM Century provides **end-to-end solutions in recycling and waste management based on four core pillars:**



### General Waste

Managing non-hazardous industrial and commercial waste. Services comprise total waste management, along with industrial decommissioning and demolition services



### Technology Waste

Licensed recovery and treatment of electronic and electrical waste - SW 110, including IT asset disposal and data centre decommissioning



### Scheduled Waste

Compliant handling of regulated waste streams. Services consist of SW 104 – disposal of contaminated containers and packaging; SW 108 – heavy metal recovery from industrial and manufacturing activities, and SW 325 – controlled treatment and disposal of hazardous waste



### Data Destruction

Secure, certified destruction of confidential materials in line with regulatory and customer requirements. Services involve storage media destruction, document shredding and product destruction.



All services are designed to ensure **regulatory compliance, traceability and responsible recovery**, aligned with Malaysian regulations and recognised international standards such as **SERI R2v3**. Through accurate documentation and reporting, we support our clients' ESG and governance obligations while reducing operational and reputational risk.

## Our People

MM Century employs **90 personnel** across operations, compliance, logistics, administration and management. Our workforce operates on the front line of environmental protection and data security, making safety, training and ethical conduct essential.

We invest in continuous training to ensure employees understand regulatory requirements, safe handling procedures and responsible recycling practices. **Building internal capability supports consistent service delivery, reduces operational risk and strengthens stakeholder confidence.**

## Where We Operate

MM Century operates licensed facilities along Malaysia's west coast, enabling controlled, compliant waste handling for clients nationwide



MM CENTURY's  
CORPORATE VIDEO  
[CLICK TO PLAY](#)



### Established Facilities

- **Penang Science Park North, Pulau Pinang**, our administrative headquarters, covering centralised operations, ITAD processing and e-waste recovery
- **Bukit Minyak Industrial Park, Pulau Pinang**, our logistics coordination hub, responsible for general waste processing, materials recovery and shredding
- **Sungai Buloh Facility, Selangor**, providing central region support operations, serving as secure logistics and data destruction hub, and collection point.



### Upcoming Facilities

- **Simpang Pulai, Perak**, our new operational plant that will comprehensively manage processing scheduled waste and high-volume materials
- **Kapar 2, Perak**, off-site storage, waste-to-energy and recovery-based processing facility.

These facilities support clients across manufacturing, electronics, services and commercial sectors. This operational coverage allows us to **maintain strong control over compliance, documentation and environmental safeguards.**

# Why ESG Matters in Our Industry

Waste management and data destruction sit at the intersection of environmental protection, social responsibility and governance. Poor practices can lead to pollution, data breaches and unsafe working conditions, not to mention loss of public trust. MM Century does not treat **ESG** as a reporting exercise - it is the **foundation of responsible operations**.



## ENVIRONMENTAL

Preventing pollution, supporting recycling, reducing emissions, contributing to a circular economy.



## SOCIAL

Protecting worker safety, safeguarding confidential information, engaging responsibly with customers and communities.



## GOVERNANCE

Strong SOPs, regulatory compliance, transparent reporting, ethical business conduct.

As sustainability and accountability expectations keep rising, MM Century is **committed to playing a responsible role in strengthening cross-industry standards**. By operating transparently and by investing in people, systems and technology, we aim to support our clients on their ESG path. At the same time, we **contribute positively to Malaysia's long-term environmental and economic health**.

## Real-world Impact You Can Measure

Our solutions support clients in improving sustainability, streamlining compliance, and achieving long-term value across industries.



### 40+

Years

since 1982

### 3+

Major Facilities

in key locations

### 16+

Certifications

ensuring quality, compliance & safety

### 7+

Industry Awards

recognised for excellence

# ESG Pathway and Strategic Approach

## Our ESG Roadmap

### Why Is Sustainability Core to Our Strategy?

At MM Century, **sustainability is integral to how we operate, grow, and make decisions.** In an industry where environmental impact, data security and regulatory compliance are critical, responsible practices are fundamental to long-term business resilience.

Our ESG roadmap sets out a **clear, practical pathway** suited to an SME context. It focuses on strengthening core capabilities, managing risk and **improving performance over time**, rather than pursuing one-off initiatives. By **prioritising sound governance, operational discipline and progressive data quality improvement, we aim to give stakeholders clear, credible insight into our sustainability performance.**

Waste management and data destruction are trust-based services. MM Century's **operational capabilities are designed to uphold that trust**, supported by:

- Material handling and logistics equipment
- Shredding and physical destruction machinery
- Dismantling and breakdown systems
- Data sanitisation and security equipment
- Waste treatment and scheduled waste processing systems
- Analytical monitoring and verification tools.

The company also maintains **compliance across operations** through relevant licences and certifications, including EcoVadis Bronze rating, MyHijau and ISO certifications such as ISO 27001:2022. Through strong operational control and documented processes, MM Century reduces regulatory, operational and reputational risk. In effect, clients do not engage MM Century merely as a service provider, but as **a verified control point in their governance chain.**

Ultimately, our clients rely on us to protect the environment, safeguard confidential information and operate within regulatory requirements. Poor ESG performance **directly affects safety, legality and business continuity, in addition to reputational risk.**

**By embedding sustainability into our strategy, we aim to:**

- **Reduce operational and compliance risk**
- **Improve efficiency and traceability**
- **Build long-term trust with customers and regulators**
- **Position the company for responsible, sustainable growth.**

For MM Century, ESG is about **running a better business**, not following trends.

Our roadmap is **built around continuous improvement across five priority areas**:

### 1. Establishing Strong Foundations

We prioritise compliance, governance and safe operations through robust SOPs, regular training, internal audits and alignment with recognised standards like SERI R2v3. We are also on track to obtain R2v3 certification in early 2026. These foundations ensure consistency, accountability and risk control.

### 2. Improving Data, Transparency and Reporting

MM Century has completed its first GHG inventory and is upgrading internal systems to improve traceability and reporting. Over time, data coverage will expand, including selected Scope 3 emissions. This will help provide more meaningful information to stakeholders.

### 3. Reducing Environmental Impact

We are investing in cleaner and safer technologies, starting with electric forklifts to reduce on-site emissions. Our operations emphasise responsible recycling, preventing pollution, and supporting circular economy outcomes through proper material recovery.

### 4. Strengthening People and Culture

Our people are central to ESG delivery. We invest in targeted training, competence development and a strong safety culture. Together, these ensure that our people apply ESG principles in daily operations, and do not just document them.

### 5. Supporting Clients' ESG Pathways

As our data quality improves, we aim to support customers' own ESG reporting by providing reliable, context-rich information on waste-handling and data destruction.

## Alignment with Recognised Frameworks

Although this is our first sustainability report, our operations and governance have long been guided by recognised ESG principles.

### Global Reporting Initiative (GRI)

We are progressively aligning disclosures with GRI Standards, focussing on material topics like compliance, emissions, occupational safety and waste management. Disclosure depth and coverage will improve as data maturity increases.

### Year-on-year (YoY) Improvements



#### Circular Economy Performance at Scale

Stronger resource efficiency & operational growth

- Waste handled - up **29%**
- Recycling & recovery - up to **96%**



#### Reduced Climate Impact

Improved energy efficiency & fuel substitution

- Scope 1 & 2 emissions - down **14.28%**



#### Improved Workplace Safety

Stronger safety culture

- Zero fatalities
- Lost Time Injury Frequency Rate - down **53.0%**.

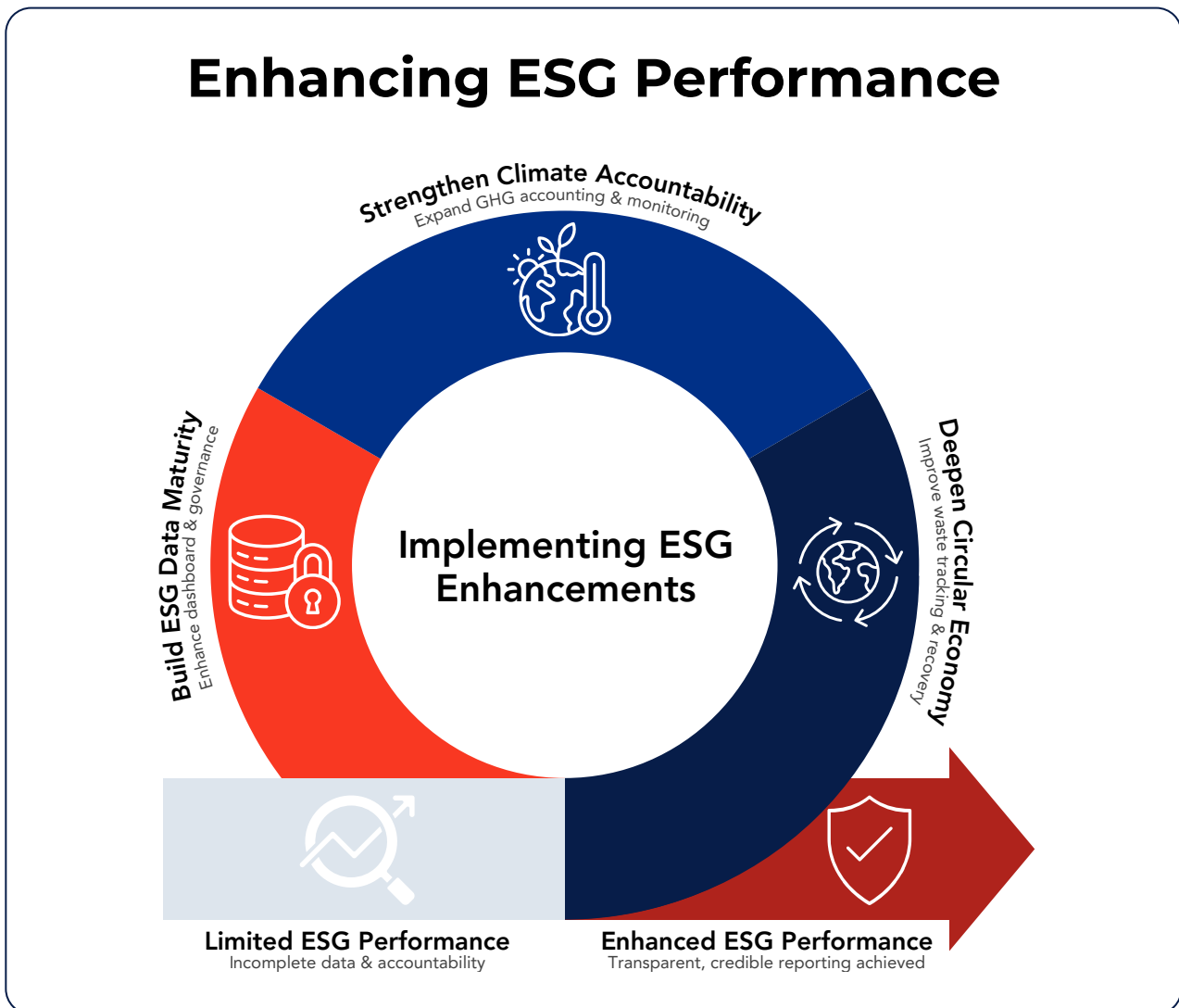
## Bursa Malaysia Sustainability Reporting Guide

Our ESG approach reflects Bursa Malaysia's emphasis on governance, materiality, risk management and transparent communication. This ensures our reporting remains practical and balanced, enabling stakeholders to make decisions.

## Sustainable Development Goals (SDGs)

Our activities contribute most directly to those SDGs linked to responsible consumption and production, climate action, decent work and economic growth, along with industry accountability. Rather than claiming broad alignment, we focus on where our operations deliver genuine impact.

Looking ahead, MM Century will continue strengthening governance, improving data quality, investing in cleaner technologies and building internal capacity. **Our commitment is to progress steadily, communicate honestly, and remain accountable to those who place their trust in us.**



# Governance and Ethics

## Governance Structure, Sustainability Oversight and Accountability

Strong governance is essential in the waste management and data destruction industry, where environmental risk, regulatory scrutiny, and handling sensitive material are inherent. For MM Century, good governance ensures **ethical conduct, consistency and long-term resilience**. This is evident in zero fines being paid during the reporting period.

MM Century Sdn Bhd is a family-owned company, governed by a Board of **two family directors**, supported by senior management. **The Board** sets strategic direction, oversees key risks, and ensures compliance with laws and ethical standards. **Senior management** manages daily operations and implements ESG commitments.

The Board currently has no independent directors. Stakeholder engagement and the materiality assessment identify **board diversity, independence and oversight** as areas for improvement rather than immediate compliance-driven change.

**Governance enhancement plans** include:

- Introducing **independent or external advisors**
- Broadening **skills** in sustainability, risk, and regulation
- Considering **gender diversity** and long-term Board succession.

**This approach supports governance** while matching the company's size and ownership structure, boosting stakeholder confidence and readiness.

Sustainability oversight is **integrated into the governance framework**. ESG matters are reviewed in broader risk and performance discussions, including:

- Regulatory compliance and ethical conduct
- Environmental, operational and safety risks
- Business continuity and resilience.

**Operational accountability for ESG rests with senior management**, who:

- Integrate ESG risks into operational planning
- Monitor compliance with environmental, safety and data protection requirements
- Review ESG performance, incidents and improvement initiatives.

As ESG maturity grows, MM Century plans a **cross-functional ESG working group** to support coordinated implementation.



Environmental governance is increasingly important to regulators and customers. MM Century completed its first GHG assessment covering Scope 1 and Scope 2 emissions, establishing a 2024 baseline in line with ISO 14064-1. Reporting will expand to selected Scope 3 categories as data systems mature. GHG and ESG data will increasingly inform operations, investments and reporting.

Governance ensures stakeholder expectations on ethics, transparency, resilience and responsible practices are actively managed and improved. MM Century aims to build a structure fit for today and resilient for tomorrow - earning trust through consistent action, transparency and integrity.

## Ethics, Anti-corruption and Whistleblowing

**Clear, practical policies** underpin ethical conduct at MM Century, and apply to all employees. These policies undergo periodic review and have been acknowledged by 100% of staff.

### Code of Conduct

Our Code of Conduct sets standards for ethical workplace behaviour and professionalism, covering:

- **Integrity** in business dealings
- **Respect** for colleagues, customers and communities
- **Compliance** with laws and regulations
- **Responsible handling** of waste, data and company assets.

### Anti-corruption Policy

MM Century maintains a **zero-tolerance approach** to bribery, corruption and unethical business practices. The policy:

- Prohibits bribery in any form
- Applies to employees, directors and third parties acting on the company's behalf
- Supports transparent tax and financial practices.

**Training and awareness initiatives** reinforce understanding in practical, real-world contexts.

### Whistleblowing Policy

We encourage employees and stakeholders to **raise concerns without fear of retaliation**. Confidential reporting channels cover:

- **Unethical behaviour**
- **Regulatory non-compliance**
- **Corruption**
- **Serious operational or safety risks.**

All reports are taken seriously and investigated appropriately, strengthening **transparency, trust and early risk detection**.

# Materiality Assessment

## Why Materiality Matters

MM Century conducted its first formal ESG Materiality Assessment. The purpose of this assessment is to identify and prioritise issues most significant to the business, its stakeholders, and the environment and communities in which it operates. The outcomes guide our sustainability strategy, governance focus and reporting priorities.

## Methodology and Stakeholder Engagement

The assessment covers the **2024 reporting year** and was conducted with the support of STRAVIK Sdn. Bhd. It aligns with:

- **Global Reporting Initiative (GRI) Standards (2021)**
- **Bursa Malaysia Sustainability Reporting Guide**
- A **double materiality perspective**, assessing both business impact (outside-in) and environmental impact (inside-out).

**Nine stakeholder groups** were engaged through structured discussions, interviews and facilitated workshops, representing both **internal and external perspectives**. Topics were scored using a three-point scale and normalised to ensure **balanced weighting between stakeholder groups**.

## Material ESG Topics and Priorities

### High-priority Topics

Seven topics emerged as high-priority, forming the core focus of MM Century's ESG strategy:

- **Business Resilience and Financial Performance**
- **Circular Economy and Waste Reduction**
- **Employee Well-being and Occupational Health & Safety.**
- **Supply Chain Transparency and Risk Management**
- **Tax Transparency and Anti-corruption**
- **Stakeholder Engagement and Transparency**
- **Ethical Sourcing and Responsible Procurement.**

### Medium-priority Topics

These reflect growing importance and future relevance:

- **Climate Change and Carbon Strategy**
- **Water Conservation**
- **Energy and Resource Efficiency**
- **Customer Privacy and Data Protection**
- **Innovation and Sustainable Business Models**
- **Diversity, Equity and Inclusion (DEI).**

Climate-related issues are rising rapidly in importance, especially for regulators, customers and communities affected by extreme weather events in 2025.

## Low-priority ESG Topics

Currently viewed as compliance-driven or internal matters:

- Executive Compensation and Accountability
- Board Diversity and Oversight
- Sustainability Reporting and Governance.

MM Century will continue to **monitor and strengthen these aspects as stakeholder expectations evolve.**

## Materiality Matrix

This visual tool helps management to both **prioritise resources** and **maintain focused, credible sustainability efforts.**

The **Materiality Matters Matrix** visually maps ESG topics based on:

- **Importance to internal stakeholders** (vertical axis)
- **Importance to external stakeholders** (horizontal axis).

Topics positioned in the **top-right quadrant** (high-high) represent MM Century's most critical ESG priorities. These topics demand **most focus for action, management and disclosure.**

The matrix confirms:

- **Strong alignment between internal and external views on governance, safety, resilience and circular economy**
- **Emerging expectations around climate action, innovation and data protection.**

**Our internal stakeholders:**

**Senior Management** focused on:

- **Business resilience and long-term strategy**
- **Regulatory compliance and risk management**
- **Innovation and future readiness**
- **Importance of strengthening governance structures over time, including Board balance and independence.**

**Employees** emphasised:

- **Health and safety**
- **Fair wages and working conditions**
- **Training and development**
- **Meaningful involvement in ESG initiatives.**

### Our external stakeholders:

- **Vendors** called for transparent procurement and fair contract management
- **Government and Regulators** stressed legal compliance, anti-corruption, environmental performance and GHG monitoring
- **Customers** prioritised safe, ethical and environmentally responsible waste and data solutions
- **Communities** sought transparency, local benefits, employment opportunities and environmental stewardship
- **Industry Partners** highlighted collaboration on circular economy initiatives and innovation.

These insights confirm that **sustainability expectations are practical, operational and trust-based** - not abstract.

The materiality assessment findings **directly inform** MM Century's:

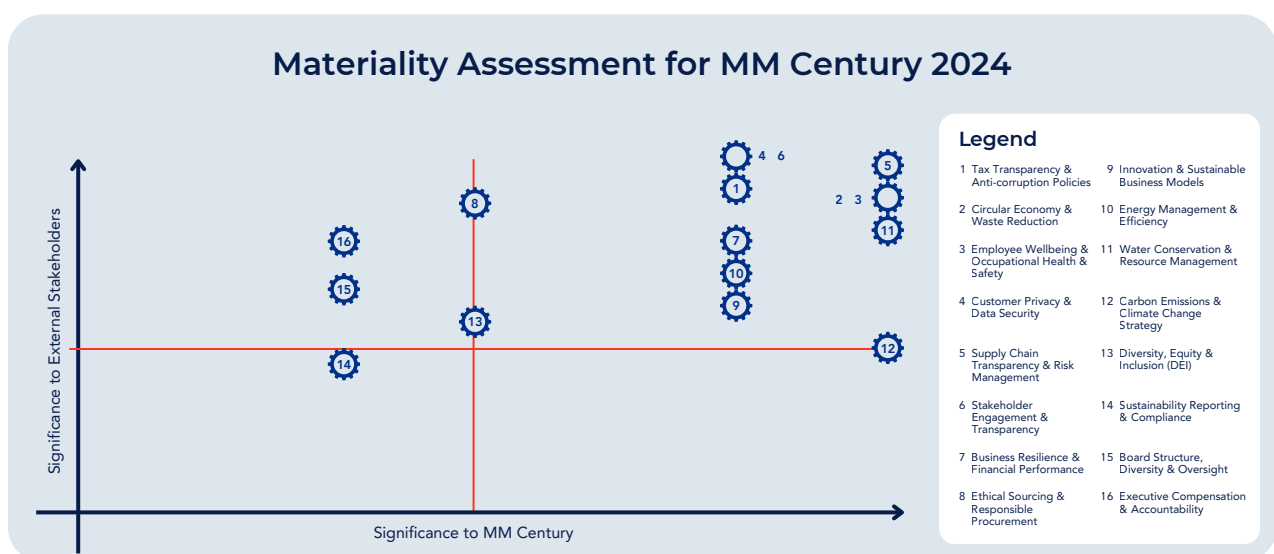
- **ESG roadmap and priorities**
- **Risk identification and mitigation**
- **Governance oversight and policy development**
- **Future ESG data collection and reporting.**

**High-priority topics are being embedded** into operational planning, investment decisions, supplier engagement and performance monitoring.

**Medium-priority topics are tracked and developed progressively**, ensuring readiness for any future regulatory and market expectations.

The company recognises that ESG risks, opportunities and stakeholder expectations will continue to evolve. We therefore commit to:

- Reviewing our materiality assessment at least **every two years**, or sooner if significant changes occur
- Re-engaging stakeholders as part of each review cycle
- Strengthening data quality, targets and disclosures over time.



# Sustainability Risks and Opportunities

The materiality assessment identified several sustainability-related risks and opportunities that could influence MM Century's long-term performance, resilience and stakeholder trust. **These risks are actively monitored and managed as part of the company's broader risk management framework.**

Risk/Opportunity	Potential Impact	Mitigation/Management Approach
Regulatory non-compliance	Operational disruption, penalties, reputational damage	Licensed operations, SOPs, staff training, audits
Unlicensed or non-compliant operators in market	Price pressure, uneven standards	Differentiation through compliance, certification & ESG transparency
Occupational health & safety incidents	Injury, downtime, reputational risk	Safety SOPs, PPE, training, incident reporting
Data breaches during ITAD	Legal, reputational & client trust impact	Certified destruction, chain-of-custody, zero-tolerance controls
Rising ESG expectations from clients	Loss of business if unmet	Investment in ESG reporting, dashboards & client data
Circular economy demand	Growth opportunity	Expanded recovery, advisory services & reporting support
Climate-related regulatory changes	Increased compliance cost	GHG baseline, planned Scope 3 expansion

These risks and opportunities are reviewed periodically and escalated to the Board, where strategic decisions or investments are required.

In summary, this materiality assessment gives the company a **clear, credible foundation for sustainable growth**. It reflects **genuine stakeholder input**, aligns with **recognised standards**, and **focuses attention on the most vital issues**.

**By acting on these insights**, MM Century becomes more able to:

- **Build trust with stakeholders**
- **Manage risk responsibly**
- **Support Malaysia's circular economy goals**
- **Create long-term value through ethical, transparent and effective operations.**

# Environmental Performance

## Environmental Management Approach

Environmental performance is integral to MM Century's operations as a licensed waste management company. Beyond compliance, the company's **environmental responsibilities extend to reducing landfill dependency, improving energy efficiency and managing responsibly across all facilities.**

In 2024, MM Century completed its first comprehensive **Greenhouse Gas (GHG) Inventory** in line with ISO 14064-1. This provides a **credible baseline for managing emissions, setting targets and tracking performance.**

## Circular Economy and Waste Management

MM Century's business model is grounded on **circular economy principles, from collection to compliance.** The priority is recovery and recycling, wherever feasible. When recovery is not feasible, hazardous and scheduled waste is treated and disposed of in a compliant and responsible manner.

Operations cover the full waste **lifecycle:**

- **Collection and secure transport**
- **Segregation and sorting**
- **Recovery and recycling**
- **Compliant treatment and final disposal.**

In 2024 and 2025:

- **Most waste streams were directed toward recycling or recovery pathways,** especially e-waste, metal residues and recyclable industrial materials
- **Landfill disposal** was used only where compliant recovery options were unavailable.

While detailed waste-stream-specific diversion data is still being refined, MM Century's strategic direction remains clear: **maximise recovery, minimise disposal.**

### Next steps

- **Introduce waste-stream-level tracking** using volume-based allocation
- **Establish formal waste diversion targets** once baseline data is finalised
- **Collaborate with clients** to improve upstream segregation and reduce contamination.

## Energy Use, Efficiency and GHG Reduction

Energy consumption at MM Century comes **primarily** from:

- **Scope 1: Fuel** used by company-owned vehicles and equipment
- **Scope 2: Purchased electricity** at facilities.

## Energy Efficiency and Emissions Reduction Actions

MM Century is integrating energy efficiency and emissions reduction through:

- Replacement of diesel-powered forklifts with electric alternatives
- Progressive upgrades to energy-efficient lighting and equipment
- Improved logistics planning to reduce unnecessary mileage.

## Greenhouse Gas Emissions

GHG Baseline and Performance

2024 (Base Year):

- Scope 1: 315.55 tCO<sub>2</sub>e
- Scope 2: 54.33 tCO<sub>2</sub>e
- **Total:** 369.88 tCO<sub>2</sub>e

2025:

- Scope 1: 266.72 tCO<sub>2</sub>e
- Scope 2: 50.33 tCO<sub>2</sub>e
- **Total:** 317.05 tCO<sub>2</sub>e

Operational efficiency improvements primarily drove the reduction in Scope 1 and Scope 2 emissions. These improvements include electric forklift

deployment and increased outsourced transport use, reducing direct fuel consumption within MM Century's operational boundary.

This transition reflects the company's decarbonisation pathway, while strengthening the accuracy and transparency of GHG accounting.

## Water Management

Water is used mainly for **cleaning, safety and limited processing activities**. While water consumption is not currently a material risk, **responsible management remains a priority**.

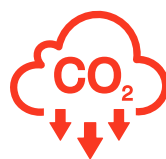
In 2024 and 2025:

- Water use stayed stable, with **no significant incidents or regulatory breaches**
- **No discharge-related non-compliances** were recorded.

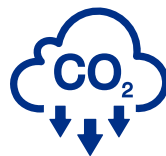
Next steps

- **Improve metering and monitoring** at facility level
- **Identify water-efficient cleaning practices**
- **Introduce basic water intensity indicators**, as data quality improves.

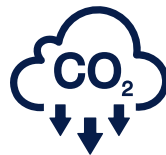
### Understanding Emissions Based on Company Control & Influence



**SCOPE 3  
Other Indirect Emissions**  
Occurring across value chain,  
e.g., suppliers & logistics



**SCOPE 2  
Indirect Emissions**  
Purchased electricity consumed  
by operations



**SCOPE 1  
Direct Emissions**  
Sources owned or controlled by  
the company, such as company  
vehicles

# Social Performance

## Workforce Profile

MM Century's operations require skilled, disciplined personnel operating in regulated and safety-critical environments. Social Performance priorities therefore focus on **occupational safety, workforce capability, fair labour practices and community trust**.

**Workforce stability and skills retention were identified as material risks.** Thus, MM Century prioritises **fair employment practices, role clarity and continuous skills development** to retain experienced people.

## Occupational Health & Safety (OHS)

OHS is a **material issue** for MM Century due to the nature of scheduled waste handling and logistics operations. The company operates under **strict Standard Operating Procedures (SOPs)**, supported by regular training, supervision and internal audits.

### Safety performance

#### 2024:

- Lost Time Injury Frequency Rate (LTIFR): 191.71 per 1 million hours
- Total Recordable Injury Rate (TRIR): 2.95 per 200,000 hours
- Fatalities: 0

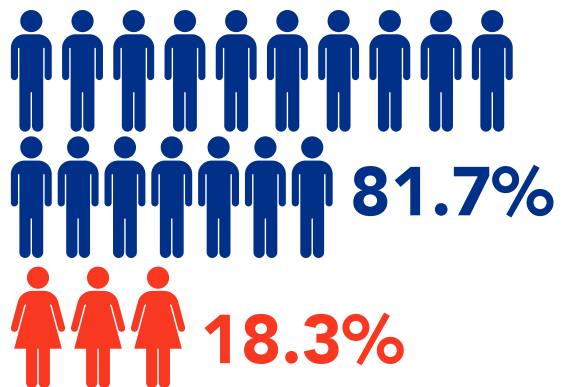
#### 2025:

- Lost Time Injury Frequency Rate (LTIFR): 90.1 per 1 million hours
- Total Recordable Injury Rate (TRIR) : 1.29 per 200,000 hours
- Fatalities: 0

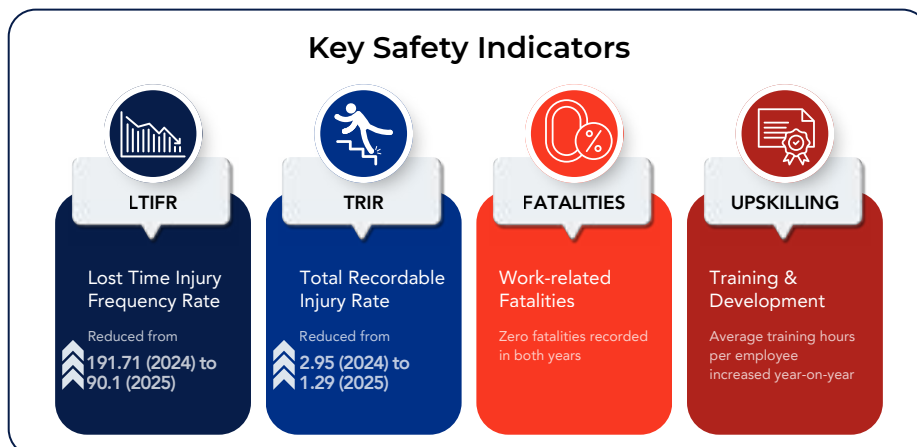
### Workforce Snapshot 2025

Total employees: **90**

Employment type: Predominantly full-time, permanent



### Key Safety Indicators



The approximately **53.0% reduction** in injury frequency reflects strengthening safety controls, awareness, and incident prevention.



*"Safety is taken seriously here. We are reminded every day that procedures exist to protect us, not slow us down."*

**MM Century's Operations Team**

## Training and Capability Development

Training underpins safe, compliant and efficient operations.

### Training focus areas:

- Occupational health & safety
- Scheduled waste handling and compliance
- ESG awareness and reporting
- Leadership and supervisory skills.

TRAINING PERFORMANCE	2024	2025
Total training hours	588	810
Average hours per employee	7	9
Employees trained (%)	100	100

The company is **gradually integrating ESG and climate awareness into training programmes**, ensuring employees understand how their daily actions support MM Century's sustainability goals.

## Diversity, Equity and Inclusion (DEI)

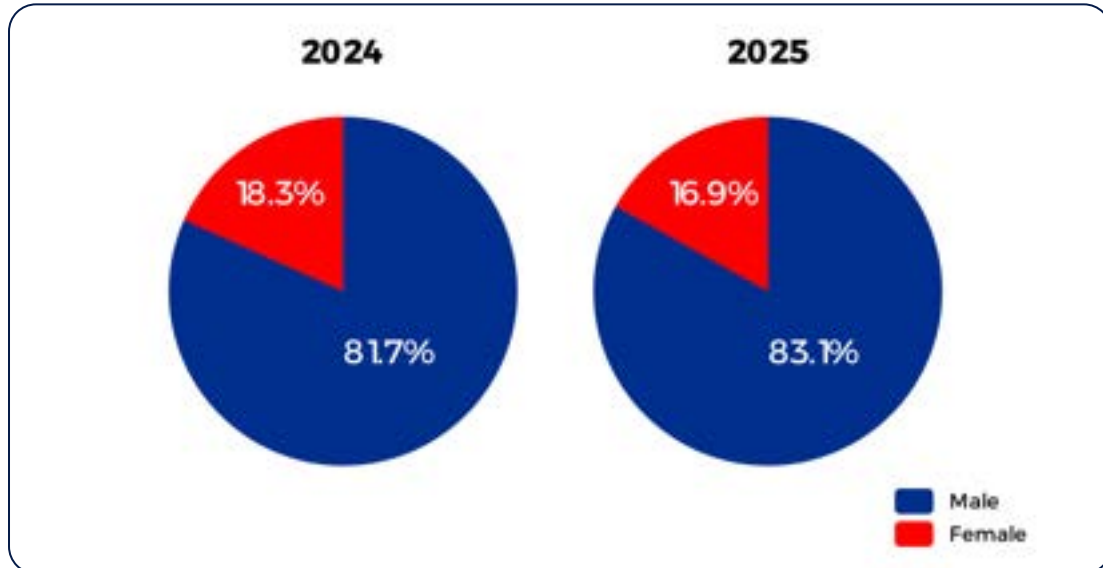
MM Century is committed to a respectful, inclusive workplace and full compliance with Malaysian labour laws.

### DEI commitments:

- Non-discrimination in hiring and promotion
- Equal pay for equal work
- Zero tolerance for harassment or forced labour.

### Focus areas 2025–27:

- Improving gender diversity in supervisory and administrative roles
- Strengthening ethics and workplace respect awareness
- Enhancing grievance mechanisms and transparent reporting.



## Community Engagement

Community engagement focuses on **awareness, responsible waste practices and trust-building**, rather than large-scale philanthropy.

### Key initiatives include:

- Participation in industry and NGO-led environmental programmes
- Client engagement on compliant waste disposal
- Support for local and employee-led initiatives.



*“Working with MM Century gives us confidence that waste is managed responsibly, not just removed from sight.”*

**Industrial Client Representative**

## Looking Ahead

MM Century will continue to **enhance social performance** by:

- Improving safety data quality and reporting
- Expanding structured training pathways
- Enhancing DEI communication and awareness
- Formalising community engagement tracking.

By investing in people and communities, MM Century **reinforces operational resilience and the trust placed in it by clients, regulators and partners.**

# Circular Economy Commitment

## Advancing Circularity in Waste Management

MM Century's circular economy commitment is anchored in its core business purpose: **transforming scheduled and industrial waste from an environmental liability into a managed resource wherever technically, economically and regulatorily feasible.**

As a licensed hazardous waste management company, MM Century operates within strict regulatory constraints. However, within these boundaries, the company prioritises **waste avoidance, recovery, recycling and reuse** ahead of final treatment and disposal.

The ESG Materiality Assessment identified **resource efficiency, waste diversion, responsible treatment of hazardous materials, and innovation in waste processing** as highly material issues. **These priorities guide the company's circular economy strategy.** The focus is on value recovery while safeguarding human health, environmental integrity and regulatory compliance.

KPI	Unit	Baseline 2024	2025 Data
Total waste collected/handled	tonnes/year	3,437.95	4,423.69
Waste diverted from disposal (reused/recycled/recovered)	tonnes & %	3,235.72	4,255.90
Waste directed to disposal (by method: landfill/incineration/etc.)	tonnes & %	202.23	167.79
Hazardous waste handled	tonnes/year	53.56	135.05
Recycling / recovery rate	%	94%	96%

MM Century embeds circularity in the **entire waste lifecycle**, rather than treating it as a standalone initiative. Thus, **circularity features at each stage** - from waste acceptance and segregation, processing and recovery to downstream recycling partnerships and client advisory services, supported by:

- Licensed facilities for multiple waste streams
- Certified infrastructure for secure destruction
- Systems designed for auditability and ESG reporting.

## 2025 Performance

In 2025, MM Century recorded an increase in total waste collected and handled, reflecting higher operational throughput and increased waste management projects undertaken during the reporting period. **Total waste handled increased from 3,437.95 tonnes in 2024 to 4,423.69 tonnes in 2025.**

Despite the increase in waste volumes, MM Century strengthened its circular economy performance:

- Waste diverted from disposal through reuse, recycling and recovery increased from 3,235.72 tonnes to 4,255.90 tonnes
- Waste directed to disposal decreased from 202.23 tonnes to 167.79 tonnes.

Enhanced segregation, improved material classification and strengthened tracking systems drove this performance. As a result, the recycling and recovery rate improved from 94% in 2024 to 96% in 2025. This improvement demonstrates MM Century's ability to scale operations while simultaneously improving resource efficiency and reducing reliance on final disposal.

## Recycling and Recovery Performance

Effective circularity begins with **front-end segregation**. MM Century applies rigorous waste characterisation protocols at collection and upon receipt at its facilities. By separating recoverable materials early, the company reduces cross-contamination. Simultaneously, it **enhances recovery yields and avoids unnecessary energy-intensive treatment**.

Key recoverable waste streams include:

- **Electronic waste (SW110)** – metals and reusable components recovered via licensed downstream recyclers
- **Metal residues such as slag and dross (SW104)** – metallic content recovered for reprocessing
- **Zinc processing residues (SW108)** – material recovery through specialist partners
- **Selected resins and industrial by-products (SW325)** – uncured resin waste containing organic solvents or heavy metals, including epoxy resin wherever feasible, evaluated for reuse or recycling.

These practices directly support higher diversion rates and lower dependence on final disposal.

## Energy and Carbon Co-benefits

The GHG Inventory identifies energy use and transport fuel as key contributors to Scope 1 and Scope 2 emissions. Circular initiatives - such as better segregation, reduced rehandling and optimised logistics - also deliver **carbon co-benefits** by lowering energy intensity per tonne of waste processed.

MM Century plans to implement a **volume ratio-based allocation methodology**. This links emissions performance with specific waste streams, **strengthening decision-making around circular processing pathways**.

**Case in Point:** Improved segregating of metal-bearing residues reduced secondary handling. This not only led to improved recovery efficiency, but also lower internal fuel use.

## Downstream Partnerships and Traceability

MM Century works exclusively with **licensed and audited downstream recyclers**. Partner selection considers environmental performance, regulatory compliance, traceability, and alignment with circular economy principles.

By **maintaining oversight across the full waste chain**, the company ensures that materials diverted from disposal genuinely re-enter productive use. In this way, the company **supports client ESG goals, as well as broader national sustainability priorities**.

## Client Collaboration and Circular Value Creation

MM Century supports clients beyond operational waste management through **advisory services that strengthen circular outcomes**. Services include:

- Guidance on minimising waste and segregating at source
- Identifying recyclable or recoverable fractions within complex waste streams
- Support for ESG and regulatory reporting related to waste and material recovery.

This approach strengthens long-term client relationships. Moreover, it positions MM Century as a circular economy enabler, not just a waste service provider.

## Circular Value and Climate Action

In a client engagement, end-of-life IT assets collected under MM Century's ITAD and e-waste recovery programme generated a buyback value in 2024. At the client's request, this value was subsequently used in 2025 to purchase and retire verified voluntary carbon credits.

Credits were purchased through the Bursa Carbon Exchange and retired in the client's name within the Verra Verified Carbon Standard registry, ensuring transparency, traceability and avoidance of double counting.

MM Century's role was limited to asset recovery, realising value and executing the carbon credit transaction in line with client policy and recognised standards. The client reports emissions gross and presents carbon credit retirement as emissions compensation, consistent with recognised guidance.

## End-of-Life Asset Life Assessment and ESG Reporting Support

MM Century is developing a data-driven End-of-Life (EOL) Asset Life Calculator. This Calculator will support client sustainability and ESG reporting.

The tool tracks IT assets from collection through to data sanitisation, reuse, recovery and final treatment, translating asset-level information into measurable ESG outcomes. These include waste diversion, circular recovery, data security assurance and indicative carbon impact.

By consolidating operational data across asset type and treatment pathway, the calculator supports disclosures under GRI 305 (Emissions), GRI 306 (Waste), GRI 418 (Data Privacy). Future enhancements will include advanced analytics to support trend analysis and improved decision-making.

## Industry Positioning and Contribution

In Malaysia's hazardous waste sector, **where regulatory constraints limit circularity**, MM Century **benchmarks favourably across three dimensions: segregation discipline, recovery pathways and ESG transparency**. Its integrated waste lifecycle oversight enables higher-value recovery and stronger ESG alignment compared with disposal-centric operators.

Dimension	MM Century Practice	Industry Benchmark
Segregation at source	Systematic, procedure-driven	Often client-dependent
Recovery pathways	Licensed recycling & recovery partners	Limited to disposal-focused models
ESG transparency	GHG inventory & materiality-led disclosures	Early-stage or compliance-only

The company also contributes to broader circular economy awareness through **employee training, client engagement and collaboration with regulators and industry bodies**. **Industry recognition through ESG and business awards** further reflects operational and sustainability leadership.

### Looking Ahead

MM Century will strengthen circular outcomes by:

- Improving waste-stream-level data
- Integrating circular metrics into ESG dashboards
- Aligning circular initiatives with carbon reduction goals
- Exploring innovative recovery technologies with licensed partners.

## Waste Emission Intensity



### Emissions Intensity per Tonne

2024: 0.11 tCO<sub>2</sub>e  
2025: 0.07 tCO<sub>2</sub>e

# Clients and Partnerships for Sustainability

At MM Century, sustainability is **embedded in how the company serves clients and builds partnerships**. The ESG Materiality Assessment confirmed that **regulatory compliance, transparency, data security, environmental responsibility and reliability** are the issues of most concern to customers.

Strengthening ESG capabilities directly strengthens the company's value proposition. **Clients benefit** in terms of:

- **Compliance - reduced risk**
- **Confidence - improved ESG reporting**
- **Assurance - across waste and data lifecycle.**

## Client ESG Support and Compliance Assurance

Many clients operate under increasing regulatory scrutiny and disclosure requirements. MM Century's role thus extends beyond waste collection to acting as a **trusted compliance partner**.

Clients benefit in terms of:

- **Regulatory assurance** - licensed operations, audited downstream partners, strict SOPs
- **Full traceability and documentation** for audits and reporting
- **Secure data and IT asset destruction**
- **Reduced reputational risk** by avoiding illegal dumping and unlicensed operators.

These capabilities **address material risks**, especially compliance failures, data breaches and environmental incidents.

## Client testimonials:



*"MM Century worked with us to assess our needs and implement effective waste reduction strategies. Their service met strict regulatory requirements and aligned fully with our Zero Waste Policy."*

**Hinata Wong**  
Food & Beverage Manufacturing Client



*"MM Century offers excellent customer service, quick response times and efficient waste collection. A highly reliable partner for day-to-day waste management needs."*

**Celia Ang**  
Electronics Manufacturing

## Advisory and Reporting Enablement

As ESG reporting expectations increase, clients require **credible, verifiable data** from service providers. MM Century **supports client disclosures through:**

- Verified waste treatment and recovery records
- Carbon and energy-related data linked to waste services, where available
- Clear documentation of treatment methods and controls.

These **capabilities enable clients** to meet Bursa Malaysia and international reporting requirements. As a result, MM Century is able to position itself as a **value-adding partner**.

## Strategic and Institutional Partnerships

MM Century collaborates with clients from the point of waste generation to final treatment or recovery. This **partnership model enables:**

- **Better segregation at source, improving recycling and recovery outcomes**
- **Safer handling practices, reducing operational and safety risks**
- **Identification of circular economy opportunities, where feasible.**

By collaborating early, MM Century helps **clients reduce downstream costs, avoid non-compliance and improve overall ESG performance.**

MM Century also collaborates with:

- **Licensed downstream recyclers and treatment facilities** to ensure responsible recovery and disposal
- **Industry associations and NGOs** to raise awareness about compliant waste management
- **Technology and service providers** to improve traceability, safety and environmental performance.

In addition, collaborative partnerships with the Royal Malaysian Customs Department, Royal Malaysian Police, Department of Environment and Green Growth Asia Foundation provide **regulatory alignment, recognition and institutional credibility.**

## ESG Capability as Growth Platform

MM Century's **partnership-driven model:**

- **Differentiates** the company from non-compliant or informal operators
- **Strengthens** long-term client relationships
- **Supports** ESG-sensitive tenders and supply chains
- **Enables disciplined** expansion, using consistent standards.

# Future Outlook and Commitments

## Short-term 2025–26

- Maintain **annual GHG inventories** aligned with ISO 14064-1
- Introduce **volume ratio-based allocation** to estimate emissions by waste stream
- Begin limited **Scope 3 data collection**, focusing on logistics and key suppliers
- Deploy an internal **ESG and energy dashboard** for management tracking.

## Medium-term 2027–30

- Set formal **GHG reduction targets** based on 2024 baseline
- Reduce fleet-related emissions through **vehicle upgrades and routing optimisation**
- Improve **energy efficiency** per tonne of waste handled
- Publish **waste diversion rates** by major waste category.

## Long-term Ambition

MM Century's Long-term Ambition is to **decouple business growth from environmental impact**. As volumes grow, the aim is to:

- **Increase recycling and recovery rates**
- **Stabilise or reduce emission intensity**
- **Provide clearer data for clients on environmental outcomes of their waste.**



# Appendix A

## ESG Glossary

This glossary provides definitions of key Environmental, Social and Governance (ESG) terms referenced throughout this Sustainability Report. It is aligned with internationally recognised standards including GRI, the GHG Protocol and Bursa Malaysia guidance.

### Environmental, Social and Governance (ESG)

A framework used to assess an organisation's environmental stewardship, social responsibility and governance practices, providing insight into sustainability performance and ethical impact.

### Materiality

The process of identifying and prioritising ESG topics that are most significant to both the organisation and its stakeholders, informing reporting focus and strategic decision-making.

### Double Materiality

A concept recognising:

- How the company's activities impact the environment and society
- How environmental and social issues create financial, operational or reputational risks and opportunities for the company.

### Circular Economy

An economic system aimed at minimising waste and maximising resource efficiency through reuse, recycling, recovery and regeneration of materials.

### Greenhouse Gas (GHG) Emissions

Gases that contribute to climate change, including carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O), measured and reported in carbon dioxide equivalents (CO<sub>2</sub>e).

### Scope 1, Scope 2 and Scope 3 Emissions

- Scope 1: Direct emissions from sources owned or controlled by the company, such as company vehicles
- Scope 2: Indirect emissions from purchased electricity consumed by operations
- Scope 3: Other indirect emissions occurring across the value chain, such as suppliers and logistics.

### Carbon Footprint

The total GHG emissions associated with an organisation's activities over a defined period.

### Occupational Health & Safety (OHS)

Policies, procedures and practices designed to protect employees' health, safety and wellbeing at work.

### Diversity, Equity and Inclusion (DEI)

Organisational efforts to ensure fair representation, equal opportunity and inclusive treatment of all employees.

### Supply Chain Transparency

Disclosure and management of environmental, social and ethical practices across suppliers and contractors.

### Anti-corruption

Measures and controls implemented to prevent bribery, fraud and unethical conduct.

### Stakeholder Engagement

Ongoing dialogue with internal and external stakeholders to understand expectations, manage impacts and build trust.

# Appendix B

## Environmental and GHG Data Tables 2024 and 2025

The following tables summarise key environmental performance data reported in this Sustainability Report, 2024 and 2025 Greenhouse Gas Inventories.

**Table B1: Scope 1 GHG Emissions – Mobile Combustion 2024 and 2025**

SOURCE	FUEL TYPE	2024		2025	
		TOTAL FUEL TYPE CONSUMPTION (L)	EMISSIONS (tCO <sub>2</sub> e)	TOTAL FUEL TYPE CONSUMPTION (L)	EMISSIONS (tCO <sub>2</sub> e)
Company-owned vehicles	Petrol	9,605.58	22.68	20,978.31	49.53
Company-owned vehicles	Diesel	99,435.59	292.87	73,739.43	217.19
<b>Total</b>			<b>315.55</b>		<b>266.72</b>

**Table B2: Scope 2 GHG Emissions – Purchased Electricity 2024 and 2025**

SITE	GRID EMISSION FACTOR (kg CO <sub>2</sub> e/kWh)	2024		2025	
		ELECTRICITY CONSUMPTION (kWh)	EMISSIONS (tCO <sub>2</sub> e)	ELECTRICITY CONSUMPTION (kWh)	EMISSIONS (tCO <sub>2</sub> e)
Penang Science Park (HQ)	0.774	36,577	28.31	44,238	34.24
Bukit Minyak		23,937	18.53	10,730	8.31
Sungai Buloh		9,675	7.49	10,062	7.79
<b>Total</b>		<b>70,189</b>	<b>54.33</b>	<b>65,030</b>	<b>50.33</b>

**Table B3: Total GHG Emissions Summary - 2024 and 2025 Baseline**

EMISSIONS CATEGORY	2024	2025
	EMISSIONS (tCO <sub>2</sub> e)	EMISSIONS (tCO <sub>2</sub> e)
Scope 1	315.55	266.72
Scope 2	54.33	50.33
<b>Total</b>	<b>369.88</b>	<b>317.05</b>

**Note:** Scope 3 emissions are not yet quantified and will be included in future reporting cycles as data availability improves.

# Appendix C:

## GRI CONTENT INDEX

This Sustainability Report has been prepared with reference to the Global Reporting Initiative (GRI) Standards 2021. MM Century adopts a phased alignment approach, focusing on material topics, progressively expanding disclosures as data systems and governance maturity improve.

The table below outlines GRI disclosures referenced in this report. Where disclosures are partially reported or not yet available, the reason is stated transparently, together with planned improvements.

GRI STANDARD	DISCLOSURE	DESCRIPTION	LOCATION IN REPORT	STATUS
GRI 2	2-1	Organisational details	Page 7-8	Reported
GRI 2	2-2	Entities included in reporting	Page 3	Reported
GRI 2	2-3	Reporting period, frequency & contact point	Page 3	Reported
GRI 2	2-4	Restatements	-	Omitted
GRI 2	2-6	Activities, value chain	Page 7-8	Reported
GRI 2	2-9	Governance structure & composition	Page 13-14	Reported
GRI 2	2-12	Role of highest governance body in ESG oversight	Page 13-14	Reported
GRI 2	2-13	Delegation of responsibility	Page 13-14	Reported
GRI 2	2-21	Remuneration	-	Omitted
GRI 2	2-27	Compliance	Page 13	Reported
GRI 2	2-29	Stakeholder engagement	Page 15	Reported
GRI 3	3-1	Process to determine material topics	Page 15-17	Reported
GRI 3	3-2	List of material topics	Page 15-16	Reported
GRI 3	3-3	Management of material topics	Page 10-12	Reported
GRI 305	305-1 / 305-2	Scope 1 & 2 emissions	Page 19-20	Reported
GRI 306	306-3 / 306-4 / 306-5	Waste generated, diverted & disposed of	Page 19-20	Reported
GRI 403	403-9	Occupational health & safety	Page 21-23	Reported
GRI 404	404-1	Training & education	Page 21-23	Reported
GRI 418	418-1	Customer data privacy	Page 13-14	Reported



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