













2022

MUANG MAI GUTHRIE

SUSTAINABILITY REPORT

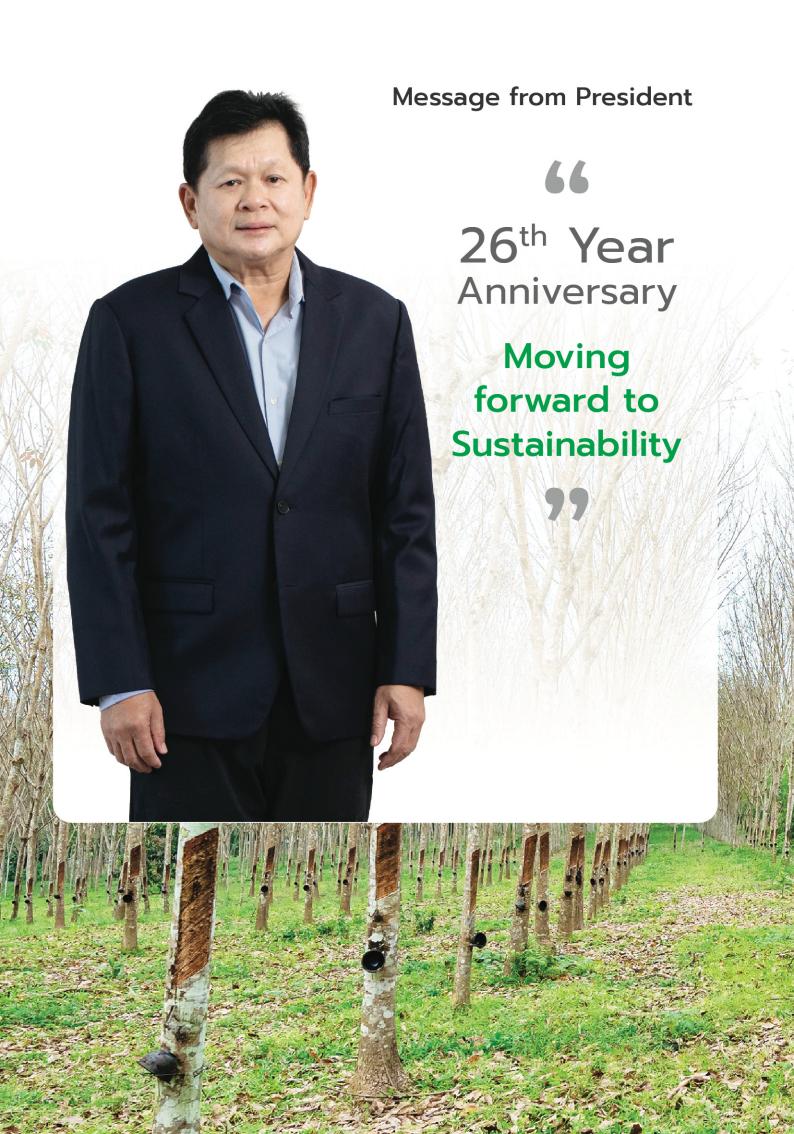
รายงานความยั่งยืน ประจำปี 2565





CONTENT

•	Message from the Chief Executive Officer	01
•	Company's General Information	03
•	Vision, Mission, Values, and Strategies	05
•	Shareholding Structure of the Company	09
	Group	
•	Product Information and Production	11
	Capacityof the Company and its Group	
•	Marketing and Competitions	13
•	Risk Management	15
•	The Sustainable Development Goals	21
•	Sustainability Reporting	31
•	Standards, Awards and Achievements	32
	of the Year	
•	Research, Development and Improvement	35
	Projects	
•	CSR Projects	38
	Engagement in community and social	
	development	
•	Summary of Annual Operating Results	43
	GRI Standard	



The 26th year anniversary of Muang Mai Guthrie Public Company Limited, which is engaged in the industrial production and export of concentrated latex, skim block, epoxidized natural rubber (ENR), and MG Rubber, has witnessed continuous improvement and dedicated commitment to conducting business responsibly towards society, consistently serving as a good leadership example. The company has demonstrated resilience in the face of the significant challenges posed by the COVID-19 pandemic, resulting in minimal impact on the company, employees, communities, and various partners. This has been achieved through careful consideration for the well-being of employees and stakeholders, ensuring they navigate through this crisis with minimal repercussions. The company has instilled confidence by actively supporting vaccination efforts, providing hand sanitizers, and distributing face masks to all employees and communities surrounding both factory branches.

Since 2018 and continuing to the present. Moreover, a sustainable reporting system following the GRI Standard (Global Reporting Initiative) has been implemented, disclosing information related to management practices that contribute to sustainable operations encompassing economic, social, and environmental aspects. The company adheres to the principles of Corporate Governance. The company has successfully developed and received certification for environmental management standards (ISO 14001:2015) and occupational health and safety management systems (ISO 45001:2018). Additionally, it has achieved certification for the CSR-DIW Green Industry Level 3 (Green System) project from the Department of Industrial Works.

This initiative aims to promote collaboration among enterprises to sustainably contribute to social responsibility (Corporate Social Responsibility, Department of Industrial Works). Furthermore, the company has obtained certification for the sustainable rubber supply chain FSC CoC (Forest Stewardship Council), which plays a significant role in forest conservation. This certification contributes to addressing deforestation issues and supports suppliers in aligning with industry requirements. The company is mindful of its role in addressing climate change and is committed to formulating policies, plans, and ongoing processes to reduce our carbon footprint. This includes supporting the use of clean energy, approving budgets for the implementation of solar cell systems within the factory premises.

In this regard, we prioritize ESG for the organization's development and sustainable business operations in terms of environmental responsibility, social relationship management, and efficient governance. We emphasize the company's responsibility towards the environment, social aspects including relationships with employees, suppliers, customers, and the community, as well as effective and transparent governance. Considering stakeholders, we aim to build trust by reflecting the organization's responsible role towards stakeholders and presenting performance results that contribute to the sustainable growth and well-being of our world.

Mr.Pitaya Tantipiriyakij President of Muang Mai Guthrie Public Company Limited





Company's General Information

Muang Mai Guthrie Public Company Limited is a joint venture between Thai corporate entity, Muang Mai Rubber Co., Ltd. (holding 51% of the shares), and Malaysian corporate entity, Sime Darby Plantation Berhad (holding 49% of the shares). Sime Darby is a registered company in the Malaysian stock market, engaged in the rubber and latex business. The agricultural segment of its business involves rubber and oil palm cultivation. In Malaysia, there has been a shift from rubber to oil palm cultivation, leading to the expansion of rubber production and distribution in Thailand through the business operations of Muang Mai Guthrie Public Company Limited.

Due to the significant cultivation of rubber in Thailand and the abundant production of latex, which is a crucial raw material in substantial quantities, the Sime Darby Group has a policy to offer support in marketing, innovation, and management to ensure the sustainability of the business.



Muang Mai Guthrie Public Company's name:

Company Limited

Abbreviation: MMG

Founding date: 19th March 1996 Date of Registration: 12th May 2005

Type: Public Company Limited

Registered No.: 0107548000331 Registered Capital: 340,000,000 Baht Paid-up vCapital: 255,000,000 Baht

Paid-up Amount:

Par Value per Share: 0.50 per share **Total Shares:** 510,000,000 shares







Engaged in the business of manufacturing and distributing primary processed rubber products, concentrated latex, ENR, skim block, and compo-block under the trademark "DYNATHAI". The company has obtained trademark registration from the Department of Intellectual Property.





Branch Offices and Location

Head Office: 9/17, Muang Mai Building, 3rd floor, Thep Krasattri Road, Ratsada Sub-district, Mueang District, Phuket Province 83000.

Tel. 076-213861, 076-211332, Fax. 076-215966, Email: mmg@mmguthrie.com



Phanom Branch Factory:

No. 7, Village No. 8, Khlong Cha-un Sub-district, Phanom District, Surat Thani 84250



Thung Song Branch Factory

No. 329, Village No. 2, Tham Yai Sub-district, Thung Song District, Nakhon Si Thammarat 80110

Background and Development of Company





On 28th July 1987

Muang Mai Rubber Co., Ltd., was established with major shareholders being the Tantipiriyakij family group. The company commenced the production of STR 5L rubber and concentrated latex at its factory in Thalang District, Phuket Province, with a registered capital of 150 million Baht.



On 19th March 1996



Muang Mai Guthrie Co., Ltd., was formed through a joint investment with Guthrie Industries Malaysia SDN BHD (now under the Sime Darby Plantation SDN BHD group). The company's name was changed to enhance marketing capabilities, innovation, and overall management.



On 24th June 1996

Muang Mai Guthrie Co., Ltd., increased its registered capital to 255 million Baht to expand production capacity, marketing, technology, and factories.



On 25th September 1997

The company added a second branch located at No. 7, Village No. 8, Khlong Cha-un Sub-district, Phanom District, Surat Thani Province, to produce concentrated latex and skim block.



In March 2005

The production of Epoxidized Natural Rubber (ENR) was added at the Surat Thani branch, utilizing technology and innovation from Malaysia.



On 12th May 2005

The company transformed into "Muang Mai Guthrie Public Company Limited" to elevate management and production standards, ensuring transparency and auditability.



On 13th December 2007

The registered capital was increased to 340 million Baht to prepare for public stock offerings and stock registration in the securities market.



On 10th April 2008

The company added a third branch located at No. 329, Village No. 2, Tham Yai Sub-district, Thung Song District, Nakhon Si Thammarat Province, to produce concentrated latex and skim block.



On 30th June 2015

MMG Polymer Co., Ltd. (MMGP) was established with a registered capital of 20 million Baht. Muang Mai Guthrie Public Company Limited and Hakcym Polymer BHD from Malaysia are the major shareholders. MMGP engages in the production of compound latex, Prevulcanized latex, PSG (Grafted Latex) and PE (Evaporated Latex).



On 27th July 2021

Approval was received from the Board of Investment (BOI) to establish a specialized MG Rubber (Methyl Methacrylate Grafted Polymer) production plant at the Surat Thani branch. Production and sales began in August 2022.



Goals of Business Operation

The company aims to be a leader in the production and distribution of processed rubber products, specifically focusing on niche products for a targeted customer group. This involves maintaining and enhancing the strength of the "DYNATHAI" and "DYNAPOLY" trademarks, along with developing product quality and utilizing modern manufacturing technologies. The goal is to create sustainability for both the business and the society.





Being a manufacturer of high-quality concentrated latex, skim block, ENR, and MG Rubber to meet the demands and satisfaction of customers and stakeholders.



Mission



Produce products of higher quality than the general standards.



Emphasize and develop personnel to have potential and efficiency in their work.



Collaborate with stakeholders, take responsibility for society and the environment, to achieve sustainable success together.



The company has a culture and organizational values that are fundamental guidelines for operations. This culture and organizational values are linked to the organization's strategy, enabling growth, competitiveness, and sustained success. It comprises eight essential components as follows:

1		Quality	Quality in both work practices, the products we manufacture, and personal life.
2	" O "	Effective	Efficiency and success in production, achieving desired or intentional results.
3	# ()."	Responsible	Responsibility for all relevant aspects.
4		Be honest, transparent	Honesty, transparency, and commitment to agreements to build trust and confidence.
5		Togetherness	Collaborative spirit, fostering unity.
6		Caring for people and Society	Care for those around us and society.
7		Create Value and Sustainability	Creating value, embracing new innovations for continuous and sustainable development.
8		Company are our home	The company is the home for all of us.



Comany's Strategy



Emphasizing product quality

Due to natural latex being the primary raw material, which is an agricultural product, the quality of natural latex depends on natural environmental factors such as weather, rainfall, and soil conditions. Therefore, controlling raw materials to consistently maintain high and uniform quality relies on experience and expertise. Nevertheless, the company has a policy that places importance on producing high-quality initial processed rubber products that meet standardized criteria, widely accepted by the target customer group. The company emphasizes starting from the selection of high-quality natural latex, utilizing standardized production technologies, including machinery, and implementing quality checks at every production stage. The company's laboratory, equipped with modern facilities, is authorized by rubber research institutions to analyze and test the quality of rubber, providing certifications for both the company's products and external products. The company's products are certified for quality standards ISO 9001:2015, FSC CoC, enhancing customer confidence in the quality of the company's products.



Price

The selling price of the company's initial processed rubber products depends on the natural rubber latex prices determined by the demand and supply conditions in the global natural rubber market. The company has a pricing policy to mitigate risks in various ways, as follows:

- 1. Setting forward contract prices for 1-3 months from the date of product sales agreement (Forward Contract).
- 2. Establishing long-term forward contract prices for 6-12 months, reference ing the average price of natural rubber by the Malaysian Rubber Board Bulk Price one month prior to delivery, with each customer individually determining the price (Long-term Contract).
- 3. Determining spot contract prices based on the market price at that time (Spot Contract). However, the company prioritizes product quality and its ability to meet customer demands over price competition.



Srvice

The company places importance on delivering products according to the timelines specified by customers. Additionally, it prioritizes maintaining strong relationships with customers or distributors to cultivate a sustainable business partnership. This is achieved through dedicated units and qualified personnel managing these aspects.





Diversifying the company's product range

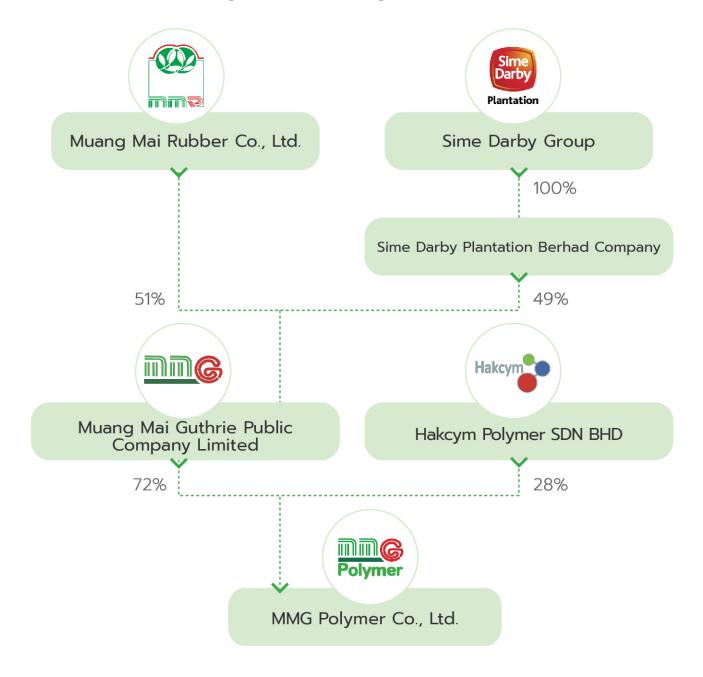
The company has a policy aimed at enhancing the diversity of its product portfolio. This involves the production of specialized, high-grade products to effectively meet the specific demands of customers in market segments with potential gaps. In 2004, the company initiated the production of Microtex, a special-grade concentrated latex and in July 2005, the company commenced the manufacturing of Epoxidized Natural Rubber (ENR), a rubber sheet product derived from modifying concentrated latex using Peroxy Acid chemicals to improve its properties. Furthermore, in July 2021, the company established a manufacturing facility for MG Rubber (DYNAPOLY) in its branch located in Surat Thani province.



Emphasizing safety, environmental conservation, and sustainability for the benefit of all stakeholders

The company places importance on safety management systems in operations following ISO 45001 standards, effective environmental management systems within the workplace and the surrounding community aimed at conserving nature, reducing global warming, controlling and minimizing greenhouse gas emissions, and lowering carbon emissions through ISO 14001. Additionally, the company has Corporate Social Responsibility (CSR) and CSR-DIW systems in place to care for customers, employees, and the community, fostering inclusive relationships and sustainable collaboration.

Shareholding Structure of the Company Group



Muang Mai Guthrie Public Company Limited, with over 25 years of experience in the production of concentrated latex, ENR, and skim block, is a joint venture between Muang Mai Rubber Co., Ltd., and Sime Darby Plantation Sdn. Bhd. from Malaysia. The company produces natural rubber for global markets, aiming to establish diversity and sustainability in its business operations. On 30th June 2015, Muang Mai Guthrie Public Company Limited formed a partnership with Hakcym Polymer SDN BHD. from Malaysia, bringing knowledge, experience, and expertise in polymer technology, the production of compounded rubber, and various special-grade rubbers. This collaboration led to the establishment of MMG Polymer Co., Ltd. with a registered capital of 20 million Baht. The company's products include concentrated latex, water-bleeding type (PE), compounded rubber (PSG), and pre-vulcanized rubber (PV), all of high quality, accompanied by specific properties and diverse information. These products are tailored to meet the individual needs of customers. Our processing plant, located in Thung Song District, Nakhon Si Thammarat Province, is equipped with a comprehensive testing laboratory, providing technical support and enhancing research and development initiatives.

Organizational Chart





Policy and Overview of Businesses



Muang Mai Guthrie Public Company Limited (MMG) was established on 19th March 1996, to engage in the business of manufacturing and distributing processed natural rubber products under the trademark "DYNATHAI". The company registered the trademark with the Department of Intellectual Property on 14th January 1998, with a validity of 10 years, extendable every 10 years. On 9th December 2019, the company renewed the trademark registration. The business model focuses on creating differentiation in products, emphasizing the use of manufacturing technology, and prioritizing innovation in quality from raw materials to finished products. MMG has a robust supply chain and strong partnerships within the Sime Darby group, contributing to the establishment of a customer base in Malaysia and overseas. The company also possesses the capability to stockpile products in large quantities before the rainy season and the leaf-shedding season, addressing shortages and high prices of latex during these periods.



Product Information and Production Capacity of the Company and its Group

Concentrated latex and FSC latex

Grade: High Ammonia (HA) concentrated latex, Low Ammonia (LA) concentrated latex, Low Protein concentrated latex, Vytex latex, Microtex thick latex, Homogenized latex,

DYNATHAI latex

Double Centrifuged latex

Application: These serve as raw materials in the production of condoms, rubber gloves and rubber adhesives, etc. and extremely thin rubber products.



ENR (Epoxydised Natural Rubber) and ENR FSC

Grade: ENR 25, ENR 50, ENR LATEX and ENR 25 FSC, ENR 50 FSC

Application: This rubber type exhibits resistance to oil, heat, abrasion resistance, anti-slip properties, sound absorption, impact reduction, adhesive properties, and characteristics closely resembling synthetic rubber.



Skim Block

Grade: Skim block (DYNATHAI)

Application: It is used as raw material in the production of rubber sheets, insoles, and rubber bands industry.



MG RUBBER (Methyl Methacrylate Grafted Polymer)

Grade: DYNAPOLY 30

Application: It is used as raw material for various adhesives, rubber tubes, insoles, and adhesive tapes.





The products under the affiliated company like MMG Polymer Company Limited focus on the production and distribution of specialty-grade rubber ready for use in various industries, including the following:



Prevulcanised Latex

Grade: - General: Standard Prevulcanised includes PVML, PVL, PVM & PVH.

- Special: specialty including PNL and PNM

Application: It is a raw material for the industry of medical gloves, rubber gloves, rubber threads, baby bottle nipples, and balloons, etc.



Evaporated Latex

Grade: PE1001-PE1004

Application: Special adhesive, gaskets, road pavement, and artificial leather.



Grafted latex and compound latex

Grade: PSG

Application: It is used as an additive to enhance adhesion and strength of rubber products in the textile and automotive industries.





Product Capacity (ton/year)

Concentrate Latex, Concentrate latex FSC	60,000
Skim Block	6,000
ENR, ENR FSC	1,000
MG RUBBER	1,200
Prevulcanised latex, Evaporated latex and Grafted compound latex	1,200

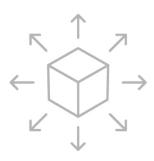
Marketing and Competitions

The company targets high-level customers who prioritize product quality and standards. It emphasizes creating product differentiation, even though the company's main products are concentrated latex, similar to other companies in the industry. However, the company's knowledge, customer base, and technology gained from its partner company, Sime Darby from Malaysia, enable it to extend the production of differentiated products. Despite being in the concentrated latex industry, the company utilizes knowledge and technology to produce unique products. The use of natural latex and concentrated latex, such as ENR (Epoxidized Natural Rubber), aligns with the growing trend towards environmentally friendly products, especially considering the impact of the COVID-19 pandemic. Natural products are seen as environmentally friendly alternatives compared to synthetic rubber, which requires crude oil for production and tends to have a higher market price. This shift in market preference towards natural rubber is influenced by environmental conservation efforts and the increasing prices of synthetic rubber due to the reliance on crude oil.



Furthermore, the company has a policy to engage in long-term contracts with customers more frequently. This marketing approach allows the company to efficiently control and manage production costs, stockpile raw materials, and maintain an effective inventory of products. The presence of substantial tank quantities for product storage enhances this efficiency. customers of the company are international, particularly from Europe, America, and Malaysia. As a result, sales are conducted in U.S. dollars. The pricing strategy is derived from the average market prices of the Malaysian Rubber Board (MRB) one month prior to the delivery date, enabling the company to be aware of and manage profit margins closely aligned with its objectives.

Sale and Distribution Channels



The company's products are sold worldwide, and in international distribution, they are marketed through both traders and directly to customers. The products are packaged in various forms, such as concentrated latex packaged in tanker trucks with a capacity of 30 tons, in Flexibags ranging from 20 to 22 tons, in plastic IBC tanks with a capacity of 1,000 kilograms, in good pack steel drums with a size of 1,400 kilograms, and in steel drums with sizes of 195 and 205 kilograms.

Distribution Proportion

The company has customers in over 30 countries worldwide. The sales proportion for the year 2022 is 25.11% in the domestic market and 74.89% in international markets.



The top three export destinations for the company are Malaysia, the United States, and Belgium.



The main products sold include

81% concentrated latex,

11% ENR

3% Skim Block

Proportion of distribution by region

2021 (percent)	2022 (percent)
53.33	56.67
33.12	28.73
13.33	14.50
0.22	0.10
72.26	74.89
27.74	25.11
100	100
	33.12 13.33 0.22 72.26 27.74

Product and service supply



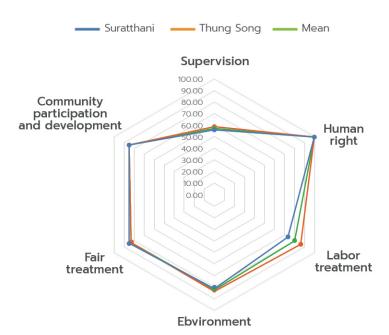
The company and its subsidiaries operate a total of three natural rubber manufacturing plants in Thailand, with an annual rubber production capacity of 69,200 tons. In the year 2022, the production rate stands at 85%, a slight decrease from the previous year's 92%.

The company sources 100% of its raw materials locally, and the Outside Crop Purchase Unit (OCPU) procurement team is responsible for sourcing, selecting, assessing, coordinating, and ensuring the quality of the raw materials imported for production. The raw materials must meet the company's established quality standards, and agreements must be signed to formalize the business partnership. This is in accordance with the company's policies and requirements as follows:



The raw materials used in the production of concentrated latex, ENR block rubber, and skim block include fresh latex sourced from a network of 51 local suppliers who deliver fresh latex from more than 1,000 local rubber farmers in the provinces of Phangnga, Krabi, Trang, Surat Thani, Nakhon Si Thammarat, and Phatthalung. Additionally, certified fresh latex meeting sustainable forest management standards and FSC-FM, FSC-CoC supply chain integrity systems are procured from government agencies. The company has entered into contracts for the purchase and sale of such latex, contributing to a 100% sustainable and FSC-certified supply chain for natural latex within the country.

Supplier assessment on purchase of fresh latex from 51 local partners



Purchase volume of local fresh latex in 2021-2022

2021 Dried Rubber (kgs) 28,786,496 52.54 Price Amount (บาท) 1,512,442,500 2022 Dried Rubber (kgs) 25,933,799 Price 54.90 Amount (บาท) 1,423,765,565



Risk Management

The company recognizes the importance of risk management in every dimension, encompassing social, economic, and environmental aspects. Continuous policy reviews and risk management evaluations are conducted and presented to the company's management board, focusing on key risks essential for the sustainability of the business. Given that the natural rubber production industry is closely tied to nature, the environment, communities, and stakeholders, the company has implemented an enhanced risk management system. This system aims to empower organizational management, achieve business objectives, enhance business opportunities, create value for the organization, promote stability, and maximize benefits for stakeholders. It aligns with good governance principles, strategic plans, operational practices, and relevant laws and regulations.

This system is enforceable across the company's board, management, and all employees, with a strong emphasis on the responsibility of each individual in risk management in accordance with the company's risk management policy.

Risk Management Policy

The company engages in the business of manufacturing natural rubber products for both domestic and international sales. The company's operations face complex and diverse risk factors arising from changes in the business environment both internally and externally. To ensure the efficiency and international standardization of the company's business operations for sustainable and stable growth, it is essential to establish a robust and appropriate risk management foundation. This includes creating a framework for risk management policies, methods, and action plans to prevent and mitigate the impact of risks. The company's management board has defined the policy framework for risk management, methodologies, and operational plans, covering the 4 main risk factors as follows:



The focus is on managing risks that impact the company's objectives and policies, as well as its reputation and image. Risk management is designated as an integral part of the annual business planning, operational management, and day-to-day decision-making processes.



Efficiently manage risks at the highest level of effectiveness and within acceptable thresholds, ensuring that all employees actively participate in the risk management process. Assess the risks within their respective units of responsibility and establish appropriate measures to manage and promote awareness of risks throughout the organization, fostering prevention of



Monitor, inspect, and assess risks that may arise due to changing environments, both internal and external to the organization, appropriately and consistently. Report significant risk management outcomes to the company's board in cases where there are factors or events that may have significant implications for the company.



Support and promote the integration of risk management as part of the organizational culture that leads to development and innovation, aiming to enhance confidence, efficiency, and value creation for the organization.

Risks, impacts and management

The company has assessed risks, giving importance to covering economic, social, and environmental aspects, and has a continuous risk monitoring plan in place. Regular reviews are conducted annually or in case of significant events that impact the risk management plan, aiming to build confidence and achieve the set objectives as follows:







Economic

Society

Environment



Economic Risks

Riks	Impact	Management
 Fluctuations in the price and quantity of natural latex Fluctuations in exchange rates Credit and customer risk 	 Increased production costs Decreased sales and profits Reduced revenue from sales and increased costs Customer cancellations and non-payment of product fees leading to losses and missed opportunities 	 The company has a team to monitor news and information related to the quantity and prices of rubber both in the domestic and international markets. The team operates in both Thailand and Malaysia. Pricing of the company's products is diversified to mitigate risks, including long-term and short-term contracts. Procurement and management of raw material quantities are maintained at appropriate levels according to the situation. A team handles advance foreign currency transactions, closely monitoring exchange rate movements. Transactions are conducted only with reliable customers, with credit terms being reviewed. Product variety is increased to meet customer demands, expanding the customer base globally.
 Managing the supply chain: addressing shortages of rubber, a key raw material, due to droughts or heavy rainfall Liquidity 	Insufficient and low-quality latex affecting production costs and product quality Inadequate working capital affecting the company's ability to meet payment deadlines, impacting the company's reputation.	 Fresh latex is sourced through various channels, including major and minor suppliers, cooperatives, creating a network and maintaining good relationships with all supplier groups. A team provides knowledge and visits raw material suppliers, including entering into annual supply contracts with state agencies and cooperatives. Suppliers are selected and evaluated annually. Adequate working capital is maintained, and overall liquidity is managed at all times. Packing credit loans are arranged based on sales and delivery volumes.



Riks	Impact	Management
The spread of contagious diseases such as the Covid-19 virus.	 Inability to manufacture products according to production capacity. Labor shortages. 	 Establish measures to prevent the spread of contagious diseases. Implement improvements in online work and remote meetings with executives, employees, suppliers and customers to prevent infection. Adhere to proper practices, wear face masks, conduct body temperature checks for all relevant individuals using measurement devices, and prepare necessary equipment and hand sanitizers rigorously. Develop an emergency plan to support control measures, surveillance, emergency response, and recovery.
 Relevant laws and regulations. Accidents or emergencies. 	 Penalty, damage to reputation, and business opportunities. Health and safety of employees. Confidence of stakeholders. 	 Assign responsible units to assess, analyze, and monitor compliance, with a CSR and environmental responsibility team in place. Have policies and plans for occupational health and safety. Conduct regular health check-ups. Develop an emergency preparedness plan. Have a safety team in place.
The quality and safety of products.	• Consumer safety.	 Have a team and system for monitoring every step of the production process, ensuring quality assurance according to international standards ISO 9001, ISO 14001, ISO 45001, FSC-CoC. Have a testing room that is standardized and certified according to international standards. Implement standardized and efficient production, packaging, and delivery controls. Have product labels that instill confidence in consumers and customers according to ISO and FSC-CoC standards.



Environmental Risks

Riks	Impact	Management
Variability in weather conditions and natural environmental factors.	Occurrence of disasters or natural hazards such as droughts and floods affecting raw material quantities and business operations.	 Energy conservation and management projects, including control of water, electricity, and waste usage. Process improvements to be environmentally friendly, incorporating new technologies and innovations.
Management of wastewater and air quality.	Pollution of water and odors impacting nearby communities, potentially leading to complaints.	Wastewater and odor treatment systems for production processes. Continuous monitoring and inspection. Community engagement, holding meetings with the community to listen to issues, complaints, and conducting activities for feedback, improvement, and issue resolution.

Emerging Risk

From the company's risk assessment, a significant new risk has been identified, namely the risk of a pandemic, such as the coronavirus (Covid-19).

Approach to manage the risk of the spread of the Covid-19 virus

Due to the rapid and continuous spread of the Covid-19 virus to various areas across the country, the company has been monitoring news, assessing the situation, and evaluating the risk. There have been adjustments to work processes, including online work formats and virtual meetings with management, employees, suppliers and customers to prevent the spread of the disease among executives, employees, and individuals in contact with the company. This applies to Muang Mai Guthrie Public Company Limited's headquarters, Thung Song branch, and Surat Thani branch.



Implement preventive measures for the spread of the Covid-19 virus, such as creating awareness and understanding of prevention measures and correct practices. This includes wearing face masks, checking body temperature for all individuals involved using temperature measurement devices, preparing equipment such as alcohol gel for disinfection, and ensuring adequate and appropriate handwashing facilities.



Develop an emergency plan to support control measures, including monitoring, emergency response, and relief efforts.



Donate face shields, masks, and alcohol gel to hospitals, medical personnel, government agencies, and communities around the company to prevent the spread of Covid-19 infection.



Contribute essential supplies and food to employees, their families, and communities in the vicinity affected by the situation of the Covid-19 virus outbreak.

Internal Control and Audit



The company has a transparent and fair business operation with a commitment to combating corruption both internally and externally. There is an effective risk management and internal control system that complies with international standards. This includes an independent audit committee to assess the internal control system in various areas, such as organizational and environmental aspects, risk management, management oversight practices, information systems and data communication, and monitoring systems. External auditors and the internal control system of the accounting firm also contribute to presentations at the company's board meetings. Furthermore, in matters of legal compliance and regulations, as well as adherence to the company's policies, including anti-corruption and other policies, the company ensures that it complies with laws and regulations.

Anti-corruption operations



The company is committed to conducting business with integrity under a well-regulated and responsibly managed framework. It adheres to the principles of corporate governance, ethics, and morality in business operations. The company takes responsibility for society, the environment, and all stakeholders involved in its business activities. It conducts business with honesty, integrity, transparency, fairness, and accountability, which can be verified. The company expresses its desire to participate in the "Collective Action against Corruption in the Thai Private Sector" to demonstrate its commitment to combating corruption in all forms. The company has established clear anti-corruption policies and practices, communicating them effectively to everyone, including suppliers.

Measures and channels for whistleblowing or complaining



The company has implemented measures for whistleblowing or complaints regarding illegal activities, business ethics violations, non-compliance with company policies, or behaviors that may indicate corruption by employees of the company. Various communication channels have been provided to employees and stakeholders to facilitate convenient and appropriate reporting of whistleblowing and complaints to the company. The channels for reporting are as follows:



Channels for whistleblowing or complaining on corruption cases



Postal Address:

To the Chairman of the Board, General Manager Muang Mai Guthrie Public Company Limited Muang Mai Building, 9/17, Thep Krasattri Road, Ratsada Sub-district, Mueang District, Phuket Province 83000



Email:

Human Resources Department: admin@mmguthrie.com Chief executive officer: pitaya@mmguthrie.com



Company website: www.mmg.co.th

or QR Code





Suggestion box / Comments / Complaints within the company

Protection Measure and Confidentiality



To protect whistleblowers and informants with integrity, the company will keep confidential the names, addresses, or any information that could identify the complainant or informant. The information will be kept private and limited to individuals responsible for investigating the complaint. Access to the information will be restricted to those who have the authority to access it and are responsible for maintaining the confidentiality of complaints and related documents. Information will not be disclosed unless required by law.

In cases where complaints involve executives or high-level management, the audit committee will be responsible for protecting the whistleblower or complainant, witnesses, and individuals providing information in the investigation. They will ensure that these individuals do not face any retaliation, danger, or unfair treatment as a result of reporting or complaining.

Result of anti-bribery and anti-corruption

Employees have been communicated to and made aware of 100%

the policy against corruption.

100% Corruption checks are conducted in factories and the main office.

Incidents of corruption are reported. Not Found

100% The factories and the head office undergo risk assessments related to corruption.





The White Factory Project under collaboration with police officers, the Food and Drug Administration, and local authorities to conduct random drug tests.



The Sustainable Development Goals

































Good Corporate Governance

The company has a good corporate governance system and is dedicated to upholding ethics within the organization, ensuring transparency, and conducting business professionally in accordance with legal principles and ethical business practices to promote and instill work standards for the company's employees as anticipated. The company's board of directors establishes company policies and guidelines, fostering a sense of responsibility, transparency, and a policy against corporate corruption, serving as clear guidelines for conducting business to build a sustainable foundation for the continuous development of the organization.



















Environmental Friendly

The company's business is directly related to nature and the environment. Therefore, the company has strict environmental practices in accordance with environmental laws and regulations. The company utilizes the ISO 14001 Environmental Management System as a primary tool for management, establishing preventive measures, risk assessments, and minimizing environmental impacts resulting from its various activities. This is done to create sustainability, starting from sustainable resource usage, water management, efficient water conservation, soil conservation, and energy efficiency. The company chooses modern machinery, reduces the use of environmentally harmful chemicals, following environmental policies, and initiates the calculation of the carbon footprint for all products. The company has also initiated a solar roof project at the Surat Thani branch factory with a capacity of 572 kW.















Occupational Health and Safe Operation

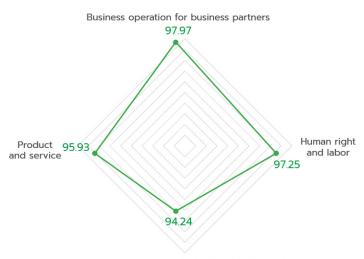
The company operates responsibly in accordance with laws, regulations, and various requirements related to occupational health and safety for the well-being of employees and stakeholders. The company has established policies and implemented the ISO 45001 standard globally to assess and audit the organization's occupational health and safety management system to meet international standards. Additionally, the company has developed a framework to create a suitable and efficient occupational health and safety management system in the workplace.

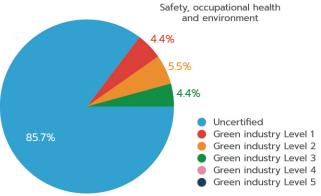


Торіс	Target in 2022	Surrathani	Thung Song
- Training hours for everyone who has passed the vocational training institute	≥70%	77.54	72.11
 Injury Frequency Rate (IFR): Frequency rate of injuries Injury Severity Rate (ISR): Severity rate of injuries Total Case Incident Rate (TCIR) Zero accidents Accident reduction project 	≤1 ≤1 ≤1 Zero ≥2	0 0 0 Zero 6	0 0 0 Zero 2
 Maintain the quality of treated water to meet wastewater standards (e.g., BOD, COD, pH, SS, TDS) Environmental complaints Utilize recycled wastewater for all purposes after treatment Reduced electricity consumption rate for wastewater treatment systems (Kwh/m3) Reduced electricity consumption rate for wastewater treatment systems (Kwh/m3) Reduce the amount of solid waste per person (kg/person) Reduce the amount of solid waste per person (kg/person) 	100% Zero ≥70% ≤3.5 ≤9 ≤13 ≤10	100 Zero 75.35 3.02 - 9.07	100 Zero 88.63 - 5.98 - 7.59

Responsibility to Supply Chain

The company is committed to conducting business with integrity and in compliance with the law, following corporate governance principles. To promote consistent practices and provide guidance to suppliers, the company has developed the "Supplier Sustainable Code of Conduct". This code outlines the expectations the company has for its suppliers, stakeholders, and participants throughout the natural rubber supply chain, such as rubber plantation farmers, rubber traders and customers. It emphasizes honesty and ethics in conducting business, good labor practices, human rights, health, occupational safety, and environmental management. The company will provide assistance, promotion, and support to suppliers and stakeholders in implementing these principles, extending the positive impact to the broader society. If a supplier does not align with the "Supplier Sustainable Code of Conduct" the company reserves the right to take appropriate actions, considering the potential impacts and damages that may occur.





Assessment of 91 business partners in 2022 as per the supplier sustainable code of conduct

Value Chain



Production Factor Management

- · Source raw materials, products, and services from suppliers who are ethical, transparent, and socially and environmentally responsible.
- · Select high-quality and valuable raw materials.
- · Ensure fair and reasonable pricing.
- · Provide assistance to promote and cultivate relationships with suppliers.



Production

- Adhere to standards, implement quality control, and enhance the value of products.
- · Respond to the needs and specifications of customers.
- · Operate efficiently and utilize alternative energy sources.
- · Foster development, innovation, and technology.
- Consider environmental and social factors.



Shipping and Distribution

- · Quality and efficient storage, shipping, and distribution of products.
- Management of transportation to minimize impact on society and the environment.
- · Accuracy and timely delivery according to supplier requirements.



Marketing and Sales

- · Delivering quality products to customers.
- · Products are environmentally friendly and socially responsible.
- · Ensuring the quality of the products.



After-Sales Service

- Building good relationships with customers.
- Building confidence and trust with customers.
- Listening to and managing feedback and complaints from customers.



Sustainable Development Goals

The company has integrated the United Nations Sustainable Development Goals (UN SDGs) into its guiding principles, aligning each aspect with the company's key sustainability issues. This is aimed at improving society, communities, and the world. The three main focal points for the company are as follows:



Economy and Governance









Guideline of action

- · Good corporate governance and transparency
- Combating corruption
- · Risk management and crisis management
- Sustainable practices for suppliers and customers
- · Economic performance
- · Quality-focused production and customer responsiveness
- · Research and development of innovations and new technologies

Indicator

- Results of accounting audits, internal and external audits, continuous business growth, and annual financial returns
- · Complaint results from government agencies, private entities, and stakeholders
- · Business performance and risks identified in reports
- · Customer satisfaction assessment results and annual supplier evaluations, with continuous FSC-CoC system orders
- · Expansion of production capacity, market expansion, and customer confidence with continuous orders
- · Customer satisfaction and customer complaints
- · Innovation and development of new products to meet customer needs, including promotion of creativity, innovation, and new developments through successful research and development activities (Kaizen).













Environment

Guideline of action Indicator · Success in achieving goals and policies, and various Establishing environmental management policies and indicators under ISO 14001 addressing climate change · Electricity consumption rate, energy conservation · Reducing energy consumption and projects, and energy from a 572 kW solar rooftop promoting the use of renewable energy · Annual measurement results of air quality from emissions · Air quality management · Reduction in the rate of waste from the production Efficient waste, garbage, process, hazardous waste quantity, and waste quantity and pollutant management per person per month · Control of wastewater quality, water consumption rate, · Efficient wastewater management and recycling recycled water quantity, and water quantity per unit of Conservation of forest resources production and the expansion of green spaces · Green Industry Level 3 certification · Controlling and reducing · Greenhouse gas emissions reduction, development of a greenhouse gases and carbon carbon footprint system for products in 2023









ensuring safety, and sustainable procurement

· Promotion of gender equality, non-discrimination,

· clear relevant regulations, and respect for human





ers towards society

tion of gender disparities

Guideline of action Indicator · Employee development, training, · Employee resignation rate enhancement of work-related knowl-· Number of employees trained and promoted, advancing edge and sustainability skills in work, following labor laws, and monthly welfare practices Occupational health and safety · Occupational health and safety performance promotion in the workplace · Accident rates leading to work stoppage, IFR, IRR, TCIR · Support and engagement with the · Implementation of ISO45001 system community · Community satisfaction surveys and visits around the factory 360 degrees · CSR projects and annual budget support Community complaints · Complaints management · Establishment of processes to · Number of suppliers signing agreements as sustainable promote responsibility among supplibusiness partners, such as opposing corruption,

rights

· Protection of labor rights and reduc-



Operations with stakeholders

Stakeholders play a crucial role in the company's business operations, helping the organization strengthen in various aspects, including the economy, society, and the environment. The company emphasizes the active participation of stakeholders, maintaining constant contact, communication, and relationships. This is done to understand important opinions, expectations, needs, and concerns in order to appropriately address and review the requirements and expectations of stakeholders. In the year 2022, the company had eight stakeholder groups, and the operations were carried out with a focus on incorporating feedback and expectations from stakeholders for continuous improvement as follows:

















Stakeholder

Employees

Raw material

Customer

Supplier

Community

Creditors

Governments

Stakeholder E	employees Raw mater supplier, rubber farm		and Society	bank Governments
Stakeholders	Communication / participation channel	Need and expectation	Response to expectation	Outcome indicator in 2022
Shareholder	 Annual Shareholders' Meeting Company Website Responding to Telephone and Email Inquiries Annual Sustainability Report 	Good Performance and Return on Investment Ethical Management Regular Dividend Payments Sustainable and Stable Business Growth, Social Responsibility, and Environmental Accountability	Strategically Conducting Business for Profit, Social Friendliness, and Environmental Responsibility Good Corporate Governance, Transparency, and Auditable Practices Accurate and timely disclosure of comprehensive information in line with shareholders' expectations	 Continuous Business Growth In 2022, the company paid a dividend of 0.26 baht per share, with a dividend yield per share of 52.00%, representing a payout of 72.13% of the net profit for the year
Employees	Weekly and Monthly Meetings Training According to the Annual Plan, Both Internally and Externally Feedback and Complaint Mechanism Electronic Communication Systems: Internet, Email, Facebook, Line Welfare Committee Proposal of Improvement Projects for Work, KAIZEN, Safety, and Environmental Enhancement in the Workplace	Training to Develop Employee Knowledge and Skills Fair Compensation and Good Benefits Respect for Human Rights and Fair Labor Practices Emphasis on Health, Safety, and a Good Working Environment Stability and Advancement Opportunities in the Workplace Promotion of Good Health and Well-being Adoption of Modern Technology for Enhanced Work Efficiency	Adjusting salary appropriately every year Having a retirement fund Providing housing benefits and free lunch Managing safety with iso 45001 standard Managing environmental aspects with iso 14001 standard Conducting CSR activities, both internal and external sports events Conducting annual health check-ups and providing accident insurance Implementing employee development training plans Having a complaints reception policy	Employee Engagement in the Organization Resignation Rate Accident Statistics Number of Complaints in Various Areas Number of Employees Promoted or Advanced in Their Careers Performance in Various Production, New Product, and Innovation Initiatives

Stakeholders	Communication / participation channel	Need and expectation	Response to expectation	Outcome indicator in 2022
Raw material supplier, Rubber farmers	Online communication system: telephone, website, Email, Facebook, Line Annual customer satisfaction surveys Evaluation of customer factory visits Collaborative activities with customers Meetings and consultations with customers for improvement Handling customer complaints	Receive products, goods, and services that are of accurate, complete, timely, and secure quality. Adhere to agreements fairly. Maintain customer confidentiality. Collaboratively develop products and goods according to customer requirements	International standard management systems such as ISO 9001, ISO 14001, ISO 45001, ECOVADIS, SMETA, FSC-CoC, CSR-DIW Adherence to ethical trade practices Research and development for process improvement to deliver quality products according to customer requirements Ethical treatment of company confidentiality Customers can inspect and visit the production process at any time	Customer satisfaction scores Diverse products, including grades or specific products according to customer needs Continuous ordering New products
Customer	Online communication system: telephone, website, Email, Facebook, Line Annual customer satisfaction surveys Evaluation of customer factory visits Collaborative activities with customers Meetings and consultations with customers for improvement Handling customer complaints	Receive products, goods, and services that are of accurate, complete, timely, and secure quality Adhere to agreements fairly Maintain customer confidentiality Collaboratively develop products and goods according to customer requirements	International standard management systems such as ISO 9001, ISO 14001, ISO 45001, ECOVADIS, SMETA, FSC-CoC, CSR-DIW Adherence to ethical trade practices Research and development for process improvement to deliver quality products according to customer requirements. Ethical treatment of company confidentiality Customers can inspect and visit the production process at any time	Customer satisfaction scores Diverse products, including grades or specific products according to customer needs Continuous ordering New products
Supplier	Online communication system: telephone, website, Email, Facebook, Line Annual visits and assessment of regular suppliers Joint meetings Activities with suppliers	 Have a procurement system that meets transparent standards and can be audited Obtain clear information about procured products and services Receive timely payment for products and services 	 Anti-corruption policy and corporate social responsibility Adherence to procurement and business ethics policies Establishment of channels for receiving complaints. Supply chain management 	 Timely delivery of products and services Annual evaluation results for regular suppliers Suppliers are informed of the ethical agreements and sustainable business practices guidelines when working with the company

Stakeholders	Communication / participation channel	Need and expectation	Response to expectation	Outcome indicator in 2022
Community and Society	Field visits, community meetings, and community surveys to understand and build good relationships Activities and meetings with surrounding communities every three months Announcements on the website and Faceboo. Environmental management in compliance with the law Corporate Social Responsibility (CSR) activities with surrounding communities. Handling complaints from the community	 Assistance and support for various community activities Avoiding negative impacts on the community, society, and the environment Transparency in operations Hiring local community members Adherence to human rights principles and resistance to corruption. Improving the quality of life and generating income for the community. 	 Having a team for on-site visits, exploration, and community meetings Supporting community activities Hiring local community members Opening the facility for community visits 	Conducting more than 30 CSR projects per year to improve and develop communities, villages, schools, temples, and care for bedridden patients Allocating a budget to support community activities every year Complaints from the community are acknowledged and accepted Hiring employees from the community Conducting community satisfaction surveys
\$ Creditors Bank	 Meetings, discussions, and joint meetings according to the agenda Submission of annual company reports 	 Adhering to the terms and conditions of the contract Transparent and ethical business operations Effective risk management 	 Adhering to the terms and conditions of the contract Providing accurate and prompt responses to inquiries when there are doubts 	 Maintaining a financially secure institution that continuously provides loans Providing appropriate and timely returns
Governments	Reporting information as required by law. Submission of taxes in accordance with the law Support for various government projects Regularly listening to and exchanging opinions Facility visits Attendance at meetings with relevant government agencies	Compliance with laws, regulations, and rules in all aspects as stipulated by the law Avoiding negative impacts on communities and the environment Implementing a good environmental management and safety system. Participation in state activities	Compliance with relevant laws, regulations, and rules Accurate and transparent disclosure of business information Respect for human rights Collaboration and participation in various government projects.	Authorized to operate continuously Avoiding negative impacts on the community, in accordance with CSR-DIW Reporting data in compliance with legal requirements Awards and certificates received from the government

GRI Aspects Evaluation on Sustainable Business Operation

The company has conducted a survey and analysis to identify key issues from stakeholders within the context of sustainability, covering requirements from the government and significant trend data that may impact business operations in the future. Examples include the global spread of the Covid-19 virus, changes in climate conditions, water resource scarcity, plastic waste management, and greenhouse gas reduction. This information is considered in conjunction with the organization's sustainability policy, strategic direction, and business operations. Additionally, an analysis and review of the performance in the past year have been carried out to prioritize these issues for sustainable business operations.

GRI Aspect



Corporate Governance / Economy

- 1. Good governance and transparency in business operations.
- 2 Risk management and crisis management.
- 3. Stakeholder engagement and supplier development.
- 4. Quality research, development, and innovation.

Topics in report

- 1. Good governance and oversight of business operations.
- 2. Risk management.
- 3. Sustainable practices for suppliers.
- 4. Organizational innovation and research and development to enhance product quality.
- 5. Procurement and dealings with suppliers.

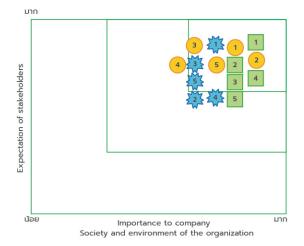


- 1. Human resources management and development.
- 2. Occupational health, environmental, and workplace safety.
- 3. Community support and involvement.
- 4. Complaints management.
- 5. Quality of products and services.
- 1. Employee development, human rights, welfare, and care for personnel.
- 2. Occupational health, safety, and environmental practices.
- 3. Community and social development participation (CSR).
- 4. Handling complaints.
- 5. Customer and consumer responsibility.



- Environment
- 1. Environmental impact.
- 2. Water usage and wastewater treatment.
- 3. Energy consumption.
- 4. Air quality management.
- 5. Waste management.

- 1. Environmental management.
- 2. Water management.
- 3. Electricity conservation.
- 4. Air pollution management.
- 5. Waste management.





Climate Change and Decarbonization

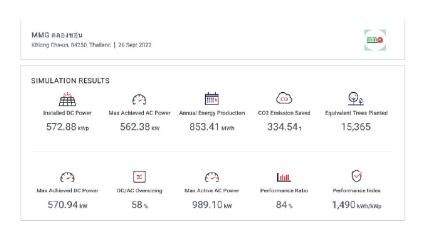
The company has begun collecting data on the sources of activities that generate greenhouse gases, both directly and indirectly. The company is committed to managing climate change by actively seeking ways to reduce carbon emissions and efficiently using renewable energy as an alternative. This includes harnessing solar energy as an option for sustainable energy.

Solar Rooftop Project



The installation budget for the solar roof PV module system with a capacity of 572 kWp has been considered and approved. The budget amounts to 18 million baht and is allocated for the factory branch in Surat Thani. It is expected to be completed by April 2023. This initiative aims to reduce electricity consumption from fossil fuels and contribute to a reduction in greenhouse gas emissions, specifically targeting a co2 reduction of 334.54 tons per year.

The company has evaluated the carbon footprint of products for both factories in a Business to Business (B2B) context. This assessment includes the measurement of greenhouse gas emissions from the raw material acquisition process to the production of the final products ready for export from the factory, as indicated in the table below. The objective is to establish a schedule for reducing emissions and utilize tools to better manage and improve environmental performance.





MMG Production (Carbon Footprint of Product) Working unit: 1 kilogram

Factory	Grade	ปริมาณ CF	ช่วงวัฎจักรชีวิต	การปล่อย GHG ของการ ได้มาและการใช้ ประโยชน์วัตถุดิบ พลังงานทรัพยากร (gCO²eq.)	การปล่อย GHG ของการ ขนส่งวัตถุดิบ พลังงานและทรัพยากร (gCO2eq.)	ผลรวม (gCO2eq.)	สัดส่วน	CF เกณฑ์ เปรียบเทียบ (gCO2eq)
Thungsong	Concentrate Latex 60%HA	170g	การได้มาของวัตถุดิบ	95.38	6.93	102.31	60.12	205.90
			การผลิต	67.82	0.03	67.86	39.88	
			Total	163.20	6.97	170.17	100.00	
	Concentrate Latex 60%LA	168g	การได้มาของวัตถุดิบ	93.22	6.90	100.13	59.60	
			การผลิต	67.82	0.03	67.86	40.40	
			Total	161.05	6.93	167.98	100.00	
Suratthani	Concentrate Latex 60%HA	186g	การได้มาของวัตถุดิบ	136.48	12.84	149.32	79.93	
			การผลิต	37.47	0.03	37.50	20.07	
			Total	173.95	12.87	186.82	100.00	
	Concentrate Latex 60%LA	174g	การได้มาของวัตถุดิบ	123.91	12.80	136.71	78.47	
			การผลิต	37.47	0.03	37.5	21.53	
			Total	161.38	12.83	174.21	100.00	
Factory	Grade	ปริมาณ CF	ช่วงวัฏจักรชีวิต	การปล่อย GHG ของการ ได้มาและการใช้ ประโยชน์วัตถุดิบ พลังงานทรัพยากร (kgCO²eq.)	การปล่อย GHG ของการ ขนส่งวัตถุดิบ พลังงานและทรัพยากร (kgCO2eq.)	наsэи (kgCO2eq.)	สัดส่วน	CF เกณฑ์ เปรียบเทียบ (kgCO2eq)
Suratthani	ENR25	3.19kg	การได้มาของวัตถุดิบ	0.81	0.00	0.81	25.41	3.51
			การผลิต	2.34	0.04	2.38	74.59	
			Total	3.15	0.04	3.19	100.00	
	ENR50	3.36kg	การได้มาของวัตถุดิบ	1.12	0.00	1.12	33.36	
			การผลิต	2.20	0.04	2.24	66.64	
			Total	3.32	0.04	3.36	100.00	

The implementation of additional solar roof projects at the Nakhon Si Thammarat factory has been carried out to harness solar energy. Within the year 2024, the target is set for solar energy to constitute approximately 20% of the overall energy consumption by the year 2025. Additionally, the company has set a goal to reduce greenhouse gas emissions by 10% in the year 2027, based on data from the year 2022. The company is committed to continuous improvement and development to progress towards becoming a sustainable green industry, producing natural rubber in the future.



The sustainability report of Muang Mai Guthrie Public Company Limited, encompassing all branches and subsidiary companies under management, including MMG Polymer Limited, for the year 2022, is prepared with the objective of communicating the direction and operations in the sustainability aspects. The report covers three dimensions: Economic, Social, and Environmental, for all stakeholders of the company. The report is prepared in accordance with the Core guidelines of the Global Reporting Initiative (GRI). Additionally, the company analyzes and aligns its operations with the Sustainable Development Goals (UN SDGs) set by the United Nations, aiming to disclose significant and business-specific indicators to demonstrate the commitment to conducting business in conjunction with social and environmental care. The scope of the report covers the core business operations of the company and its subsidiaries involved in the production of concentrated latex, skim block rubber, ENR rubber, MG Rubber, and Pre-vulcanized rubber. The report encompasses the period from 1st January to 31st December 2022.



Standards, Awards and Achievements of the Year

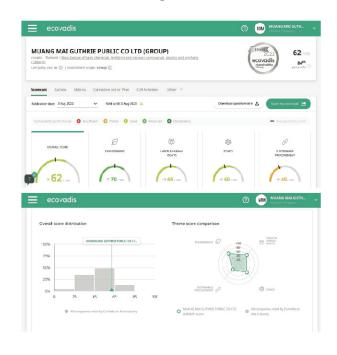


The company continues to undertake sustainable development and improvements in the economic, environmental, social, and ethical aspects of its business operations. It has undergone an assessment of sustainability by the ECOVADIS SUPPLIER SUSTAINABILITY RATINGS organization in 2022. The assessment resulted in a score of 62 (Silver medal in recognition of CSR achievement), an increase from the previous year's score of 58. This improvement is attributed to the initiation of the implementation of the ISO 14001 environmental management system and the ISO 45001 occupational health and safety system.





ECOVADIS SUPPLIER SUSTAINABILITY RATINGS Silver medal in recognition of CSR achievement



The company has achieved the FSC-CoC (Forest Stewardship Council: Chain-of-Custody-Certification) standard and is a member of SMETA (Sedex Members Ethical Trade) with membership number ZC403342877. Additionally, the company actively participates with government agencies, organizations, and has received awards from various organizations.







Certified Universal Standard of Quality Management System



Certified as a Green Industry Level 3 (Green System), the company practices systematic environmental management. There is ongoing monitoring, assessment, and review for continuous improvement.





Received the CSR-DIW Award 2022 (Corporate Social Responsibility, Department of Industrial Work), an honorary recognition for social responsibility standards for entrepreneurs.







Muang Mai Guthrie Public Company Limited's Surat Thani branch has been honored as an outstanding tax-paying organization for the year 2022 by the Khlong Cha-un Municipality.





Muang Mai Guthrie Public Company Limited participated in and received a trophy of honor for its contribution to the development of natural resource management and environmental initiatives as a supporter of activities related to the natural resource conservation project at Bang Sai Nuan Reservoir.

















Research, Development and Improvement Projects



Construction work for Air Enrichment Tank No. 3, size 2500 Q, with 1,064 air diffusers to reduce odors and enhance efficiency, allowing for an additional 265 Q/day of wastewater treatment. The estimated budget for this project is approximately 7.60 Million Baht (Nakhon Si Thammarat branch).





Before improvement

After improvement

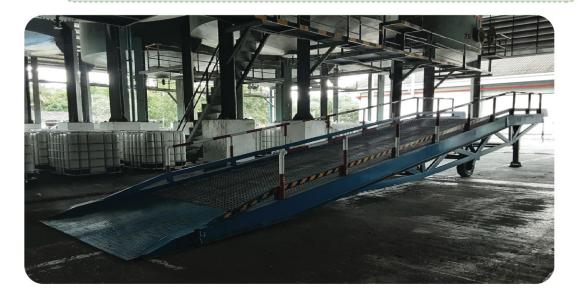


Installation of an Ammonia Scrubber and a new duct system to eliminate and reduce the odor of ammonia gas in the concentrated latex production line at the Thung Song branch, costing around 1,000,000 Baht. This will contribute to a safer and healthier working environment.





Improvement of delivery efficiency through the use of a Mobile Yard Ramp, which can be moved anywhere, replacing the old Fixed Ramp. This helps save forklift fuel during transportation and loading, with an estimated budget not specified.





Installation of fuel shutdown pumps and a fire suppression system following NFPA standards to increase the water pressure used for fire suppression and enhance the efficiency of the existing system. The budget for this is approximately 2,800,000 Baht (Nakhon Si Thammarat branch).



Carrying-type fire pump



Replacing fire pump and fire pipe as per NPFA Standard

Sampling Tower equipped with a Safety Belt winch system to enhance the safety of workers while ascending to collect rubber samples from trucks at the Surat Thani branch. The budget for this project is approximately 280,000 Baht.





Material handling lift work for the convenience and safety of transporting equipment and chemicals at heights in the Surat Thani branch. The estimated budget for this is 198,630 Baht.







Modification of the electrical control panel for machinery in the rubber sheet production line to ensure electrical system safety and worker safety. This is necessary after more than 25 years of operation at the Surat Thani branch.







After improvement

CSR Projects

Engagement in community and social development

The company places great importance on community engagement, fostering friendly relations with the local community and society, as it is an integral part of the company's stakeholders. The company has organized numerous activities in collaboration with the local community where our factory is located, aiming to generate benefits and progress together sustainably.



14th January 2022: Administered the third dose of the vaccine to all employees to help prevent COVID-19.







21st January 2022: Participated in the Big Cleaning Day activity as part of the environmental management and waste reduction program by collaborating with villagers from Village No. 8 and nearby areas.







21st February 2022: Donated drinking water, medical gloves, and hand sanitizer gel to the Agricultural and Technological College, Phanom District, used in the treatment of COVID-19 patients.







28th April 2022: Supported drinking water and medical supplies for the labor welfare in Nakhon Si Thammarat province in the occasion of National Labor Day.







17th June 2022: Donated concentrated latex to UWC Thailand International School in Phuket for 70 students to conduct science experiments related to products derived from natural latex.







22nd June 2022: Implemented the Green Space Restoration Project at Ban Jam Pa School, Village No. 9, Tham Yai Sub-district, Thung Song District, Nakhon Si Thammarat Province. Planted 25 Bougainvillea trees and 25 Yellow Elder trees, and landscaped the school premises in collaboration with teachers and students.







13th July 2022: Joined in supporting funds for offering candles in the Buddhist Lent to 9 temples to promote cultural preservation in the community.







21st July 2022: Collaborated with village public health officers to distribute survival bags and diapers to bedridden patients and the elderly in Village No. 8, Khlong Cha-un Sub-district, totaling 20 people, to provide encouragement to the patients.







4th August 2022: Implemented the installation of basic first aid kits, medicine cabinets, and medical supplies for nearby schools - Arunothai School, Ban Bang Hin School and Ton Yuan School.







8th September 2022: Supported a budget of 50,000 baht for the sports club in Khlong Cha-un Sub-district to promote the health of the local community.







8th September 2022: Supported the donation of traditional drums along with equipment to adult residents in Village No. 2, Tham Yai Sub-district, Thung Song District, Nakhon Si Thammarat Province, for community activities such as traditional processions, Loy Krathong, Songkran and others.





8th September 2022: Conducted a survey to assess the satisfaction of the villagers around the factory in Village No. 8 and nearby areas, aiming to gather feedback and improve continuously.







13th October 2022: Cleaned and organized robe presenting ceremony at Bang Ban Ngan Temple to preserve Thai traditions.









20th October 2022: Distributed water bottles for drinking to all employees to reduce the use of plastic bottles and promote cleanliness and safety in drinking water.





8th November 2022: Participated in the Miss Nopamas pageant for the year 2022 with the Khlong Cha-un Municipality to promote the preservation of Thai traditions.





11th November 2022: Donated a wheelchair to Thung Song Hospital, Thung Song District, Nakhon Si Thammarat Province, for daily use by the elderly and various cases.





29th November 2022: Welcomed faculty and students from Thaksin University, Phatthalung Campus, for an educational tour on the various production processes in different departments.







16th December 2022: Provided scholarship funds for employees' children and local schools around the factory.





Big Cleaning Day at the entrance of Yong Waterfall National Park, in collaboration with the Tham Yai Municipality and the local community, along with the company in Tham Yai Municipality.







Supported the purchase of products from the community, such as the group making brooms and grass flowers in Village No. 9, Tham Yai Sub-district, Thung Song District, Nakhon Si Thammarat Province, to generate income for the community and foster a good relationship between the company and the community.







Summary of operations in 2022 To communicate sustainability operation



GRI Standard	Description	Unit	Branch	2020	2021	2022
GRI 201-3	Income from sales and services	Million Baht	Total	1,431.85	2,075.10	1,991.09
	Cost of sales	Million Baht	Total	1,245.80	1,712.25	1,671.49
	Net profit from sales and services	Million Baht	Total	69.75	209.13	183.84
	Dividends paid to shareholders	Million Baht	Total	56.10	158.10	137.70
	Salaries and compensation for employees	Million Baht	Total	73.13	91.70	94.49
	Interest and financial expenses paid to lenders	Million Baht	Total	3.77	3.45	3.36
	Taxes paid to the government and local government agencies, such as corporate income tax	Million Baht	Total	8.83	24.56	19.00
	Expenses for projects to develop and support social and community initiatives	Million Baht	Total	0.45	0.96	0.55
GRI 201-1	Contributions to social security funds paid by the organization	Million Baht	Total	1.54	1.20	1.46
	Contributions to retirement funds paid by the organization	Million Baht	Total	1.84	1.80	2.12
	Funds set aside for employee retirement	Million Baht	Total	11.50	12.95	13.00
GRI 201-4	Tax benefits and other benefits received from the government and local agencies for promotion	Million Baht	Total	0.00	0.00	0.00
	Export tax	Million Baht	Total	35.15	41.78	38.42



GRI Standard	Description	Unit	Branch	2020	2021	2022
N/A	Production quantity of concentrated latex	Ton	Thungsong	19,374.95	20,441.44	19,965.20
			Surrathani	15,212.38	19,588.61	16,635.57
			Total	34,587.33	40,030.05	36,600.77
	Production quantity of skim block	Ton	Thungsong	869.97	888.25	866.98
			Surrathani	727.07	875.73	789.22
			Total	1,597.04	1,763.98	1,656.20
	Production quantity of ENR	Ton	Thungsong	0.00	0.00	0.00
			Surrathani	582.51	720.98	622.43
			Total	582.51	720.98	622.43
	Production quantity of all products	Ton	Thungsong	20,244.91	21,329.69	20,832.18
			Surrathani	16,521.97	21,185.32	18,047.21
			Total	36,766.88	42,515.01	38,879.39



GRI Standard	Description	Unit	Branch	2020	2021	2022
GRI 102-8	Total number of employees	Person	Thungsong	137	139	124
			Surrathani	168	177	191
			Phuket	23	23	23
			Total	328	339	338
	Full-time employees	Person	Thungsong	137	139	124
			Surrathani	168	177	191
			Phuket	23	23	23
			Total	328	339	338
	Part-time employees	Person	Thungsong	0	0	0
			Surrathani	0	0	0
			Phuket	0	0	0
			Total	0	0	0

· Number of employees by sex

GRI 405-1 Males	Person	Thungsong	87	89	80	
			Surrathani	103	107	111
			Phuket	7	6	6
			Total	197	202	197
		Person	Thungsong	50	50	44
	Females		Surrathani	65	70	80
		Phuket	16	17	17	
			Total	131	137	141

· Number of employees by level

GRI 405-1 Operation Level	Person	Thungsong	119	123	107	
			Surrathani	149	158	173
			Phuket	12	12	12
			Total	280	293	292
	Commanding and Professional Level	Person	Thungsong	11	9	10
			Surrathani	12	12	14
			Phuket	5	5	5
			Total	28	26	29
	Managerial Level	Person	Thungsong	7	7	7
			Surrathani	7	7	4
			Phuket	6	6	6
			Total	20	20	17

· Number of employees by age

GRI Standard	Description	Unit	Branch	2020	2021	2022
GRI 405-1	18-25 years	Person	Thungsong	24	19	14
			Surrathani	33	33	30
			Phuket	1	2	2
			Total	58	54	46
	26-33 years	Person	Thungsong	34	43	35
			Surrathani	43	47	59
			Phuket	5	4	4
			Total	82	94	98
	34-41 years	Person	Thungsong	39	34	35
			Surrathani	41	42	50
			Phuket	4	4	4
			Total	84	80	89
	42-49 years	Person	Thungsong	22	27	24
			Surrathani	32	33	33
			Phuket	3	3	3
			Total	57	63	60
	>50 years	Person	Thungsong	18	16	16
			Surrathani	19	22	19
			Phuket	10	10	10
			Total	47	48	45

Percent of retiring employees

GRI 405-1	Number of employees retired in 5 years	Person	Thungsong	0	0	0
	(Age range: 55-60 years)		Surrathani	0	0	1
			Phuket	0	0	0
			Total	0	0	1
	Number of employees retired in 10 years	Person	Thungsong	0	0	0
	(Age range: 50-60 years)		Surrathani	0	0	1
			Phuket	0	0	0
			Total	0	0	1
	Total number of resigned employees	Person	Thungsong	32	18	18
	in a year		Surrathani	34	11	15
	•		Phuket	2	1	0
			Total	68	30	33
	Total number of resigned employees by	Person	Thungsong	32	18	18
	area in a year		Surrathani	34	11	15
			Phuket	0	1	2
			Total	66	30	35

	Thung Song	Surrathani	Phuket	Total
• In 5 years (age range: 55-60 years)	0% 0% 0%	0% 0%	0% 0% 0%	0% 0% 0.30%
· In 10 years (age range: 50-60 years)	O% O% O%	0.52%	O% O% O%	0% 0% 0.30%
• Rate of resignation/year	1.95% 1.08% 1.21%	169% 0.52% 0.65%	0% 0% 0%	0.74% 0.81%
• Rate of resignation by area/year	1.95% 1.08% 1.21%	0.52% 0.65%	0.72% 0%	0.74% 0.86%
	ปี 2563 / 2564 / 2565			

· Percent of retiring employees (cont.)

GRI Standard	Des	cription	Unit	Branch	2020	2021	2022
GRI 401-3	Number of employee	es exercising right fo	or Person	Thungsong	1	1	1
	maternity leave/ child			Surrathani	0	2	2
	(Total number for bo	th male and female		Phuket	0	0	0
	employees)			Total	1	3	3
	No male and a financial accordance a		Person	Thungsong	1	1	0
	Number of employee after maternity leave			Surrathani	0	1	2
	female employees)	(merading male and	1	Phuket	0	0	0
				Total	1	2	2
Retention ra who take ma raising leave	te of employees aternity leave/child	Thung Song	Surrathai 100 50%		Phuket	100%	Total 100% 66.67%
		ปี 2563 / 2564 / 2565	ปี 2563 / 2564 / 2	565 ปี 2	2563 / 2564 / 2565	ปี 2563	/ 2564 / 2565
GRI 102-41	Employees	agreement should	Person	Thungsong	0	0	0
GKI 102-41	Employees under an negotiation such as r		reisuil	Surrathani	0	0	0
	labor union etc.	nembership in a		Phuket	0	0	0
	and anion co.			Total	0	0	0
CDI COS S	Number of avenutive	or at manager lavel	or Person	Thungsong	4	4	4
GRI 202-2	Number of executive above who are local			Surrathani	4	4	2
	radius or in that prov			Phuket			
		•		Total	5	5	5
				1544	13	13	11
Percent of executives at manager level or above who are local residents (5-kilometer radius or in that province)		Thung Song	Surratha	ni	Phuket		Total
		57.14% 57.14% 57.14%	57.14% 57.14% ₅₀		33% 83.33% 83.33%	65%	65% 64.71
		Ú 2563 / 2564 / 2565	Ů 2563 / 2564 / 2	565 ปี 2	2563 / 2564 / 2565	ปี 2563	/ 2564 / 256
GRI 205-2	Percent of employee of anti-corruption po practices in the orga	olicy and guideline o		ucs	100	100	100
GRI 404-1	Average hours of tra	Average hours of training/person/year		Thungsong	30.42	45.59	44.54
GRI 404-1	Average flours of tra	iriirig/person/year	Hour/ person/	Surrathani	31.01	28.20	46.08
			year	Phuket	4.14	2.31	10.86
				Total	21.86	25.37	33.83
				Thungsong	3506	3405	5200
	Proportion of training	g by internal training	g Hour	Surrathani	5053	4930	8658
				Phuket	29	13	53
				Total	8588	8348	13911
				Th	54	38	108
	Proportion of training	g by external trainin	g Hour	Thungsong Surrathani	96	87	156
				Phuket	3	36	175
				Total	153	161	439
		Thung Song	Surrathani		Phuket		otal
			Julianiani	100	% 100% 88.89%		
 Proportion (Management 	of training by skill ent)	31.28% 45.61% 51.65%	26.6%	%		57.48% 5	7.4% 57.33%
(Technical		2.56% 3.22% 10.46%	10.45% 13.3%	% 	% 0% 0%	4.34% 5	.51%
(Production		31.79% 14.62% 12.64%	34.64% 26.11% 21.4%	09	% O% O%	22.14% 13	58% 11.35%
	of training by skill I environment)	34.36% 37.1% 25.28%	33.99% _{26.2%}	09	6 0% 0%	16.3%	3.7% 17.16%
-							
-	of training by skill	0% 0% 0%	0% 0% 0%	09	6 0% <u>11.11%</u>	0%	0% 3.7%

 Ratio of return of female and male employees
 *(Calculation method: income of all female employees / number of all female employees: income of all male employees / number of all male employees)

GRI Standard	Description	Unit	Branch	2020	2021	2022
GRI 405-2	Operation Level	\\\	Total	1:1	1:1	1:1
	Commanding and professional level	-	Total	1:1	1:1	1:1
	Managerial level	-	Total	1:1	1 : 1	1:1
GRI 404-3 Number of employees with performance assessment and planning for career path	Number of employees with performance	Person	Thungsong	1	3	0
		Surrathani	3	1	2	
			Phuket	0	0	0
			Total	4	4	2
	Number of employees with performance	Percent	Thungsong	0.73	2.16	0.00
	assessment and planning for career path		Surrathani	1.79	0.56	1.05
	. 5		Phuket	0	0	0
			Total	1.22	1.18	0.59
KPI Assessment result	Percent of employees	10 tu.	100	100	100	
	Satisfaction survey and commitment of all personnel with the company	Percent	Total	100	77.89	78.33



GRI Standard	Description	Unit	Branch	2020	2021	2022			
GRI 403-10	Number of incident cases								
(2018)	Total number of employees	Person	Thungsong	1	1	0			
(2010)	• •		Surrathani	5	1	0			
			Phuket	0	0	0			
			Total	6	2	0			
		Person	Thungsong	0	0	0			
	Contractors		Surrathani	0	0	0			
			Phuket	0	0	0			
			Total	0	0	0			
	Total case incident rate (TCIR) (TCIR)								
	Total number of employees	Person /	Thungsong	0.51	0.52	0			
		work hours	Surrathani	2.12	0.48	0			
		Hours	Phuket	0	0	0			
			Total	2.63	1.00	0			
		Person/	Thungsong	0	0	0			
	Contractors	work	Surrathani	0	0	0			
		hours	Phuket	0	0	0			
			Total	0	0	0			
	Injury Frequency Rate (IFR)								
	Total number of employees	Person /	Thungsong	0.51	0.52	0			
		work hours	Surrathani	2.12	0.48	0			
		Hours	Phuket	0	0	0			
			Total	1.00	0	0			
	Contractors	Person/	Thungsong	0	0	0			
	Contractors	work hours	Surrathani	0	0	0			
			Phuket	0	0	0			
			Total	0	0	0			

GRI Standard	Description	Unit	Branch	2020	2021	2022			
GRI 403-10	Injury Frequency Rate (IFR)								
	All employees	Person	Thungsong	0.51	1.57	0			
(2018)			Surrathani	11.43	1.94	0			
			Phuket	0	0	0			
			Total	4	1	0			
	Contractors	Person	Thungsong	0	0	0			
	Contractors		Surrathani	0	0	0			
			Phuket	0	0	0			
			Total	0	0	0			
	Total number of casualties from work								
	All employees	Person /	Thungsong	0	0	0			
	• •	work	Surrathani	0	0	0			
		hours	Phuket	0	0	0			
			Total	0	0	0			
	Contractors	Person/	Thungsong	0	0	0			
	Contractors	work	Surrathani	0	0	0			
	Tabel south as of illustrate forces would	hours	Phuket	0	0	0			
			Total	0	0	0			
	Total number of illnesses from work								
	All employees	Person /	Thungsong	0	0	0			
		work hours	Surrathani	0	0	0			
		riours	Phuket	0	0	0			
			Total	0	0	0			
	Contractors	Person/	Thungsong	0	0	0			
		work	Surrathani	0	0	0			
		hours	Phuket	0	0	0			
			Total	0	0	0			
	Total number of casualties from work-	related ill	nesses						
	All employees	Person /	Thungsong	0	0	0			
		work hours	Surrathani	0	0	0			
		Tiours	Phuket	0	0	0			
			Total	0	0	0			
	Contractors	Person/	Thungsong	0	0	0			
		work	Surrathani	0	0	0			
		hours	Phuket	0	0	0			
			Total	0	0	0			

Environment 🏈

GRI Standard	Description	Unit	Branch	2020	2021	2022
GRI 301-1	Use of raw materials (fresh latex) from the community	Ton	Thungsong Surrathani Total	44,728,740 30,960,040 75,688,780	47,722,490 39,821,660 87,544,150	44,388,380 33,921,620 78,310,000
GRI 307-1	Times of operation non-compliant with environmental laws	Time	Total	1	1	0
GRI 201-1	Expenses for investment to reduce environmental impacts	Million Baht	Total	5.0	5.6	7.6
GRI 102-43	Community's satisfaction	Ton	Thungsong	82.6	82.5	83.0
			Surrathani	80.0	82.0	94.0
			Total	81.3	82.3	88.5
GRI 103-2	Number of written complaints related to social and environmental impacts with official remedy	Time	Total	0	0	0

Consumption of fossil energy Diesel oil (positioned burning)	GRI Standard	Description	Unit	Branch	2020	2021	2022
Diesel oil (mobile burning)	GRI 302-1	Consumption of fossil energy					
Diesel oil (mobile burning)		· Diesel oil (positioned burning)	Lite	Thungsong	1,642.3	1,066.4	1,477.0
Diesel oil (mobile burning)				Surrathani	7,000.0	5,450.0	9,609.0
LPG (positioned burning)				Total	8,642.3	6,516.4	11,086.0
LPG (positioned burning)		· Diesel oil (mobile burning)	Lite	Thungsong	7311	7,374	7,167
LIPG (positioned burning)							
LPG (mobile burning)							
Lite Thungsong 0		LPG (positioned burning)	Lite				52
LPG (mobile burning)							
Natural gas		. LDC (mobile burning)					
Natural gas		· LFG (mobile burning)	Lite				
Natural gas							
Fuel oil		Natural das	Lito	Thungsong			
Fuel oil		. tatalar gas	Lite			0	
Treated water Treated wate				Total	0	0	0
Surrathani		· Fuel oil	Lite	Thungsong	0	0	0
SRI 301-1 Rate of energy consumption Unit/Ton Total 318 326 340				10.70	0	0	0
Mater consumption by courses				Total	0	0	0
Overground water	GRI 301-1	Rate of energy consumption	Unit/Ton	Total	318	326	340
Overground water	GRI 301-1		m'	Thungsong	147.133	135,607	145.093
Overground water m' Thungsong 68,399 71,564 32,523 533,00 75,883 Total 149,221 162,299 108,406 • Water supply m' Thungsong 0 0 0 0 0 • Underground water m' Thungsong 0 0 0 0 0 0 • Underground water m' Thungsong 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
Water supply			Total				
Water supply		· Overground water	m³	Thungsong	68,399	71,564	32,523
- Water supply - Water supply - Water supply - Underground water - Underground -				Surrathani	80,822	90,735	75,883
Underground water				Total	149,221	162,299	108,406
+ Underground water - Underg		· Water supply	m'	Thungsong	0	0	0
• Underground water m' Thungsong 0 0 0 0 Surrathani 0 0 0 0 Treated water m' Thungsong 78,734 64,043 112,570 Surrathani 104,707 108,825 112,927 Total 183,441 172,868 225,497 Total volume of water released from the organization (by source of release) m' Thungsong 0 0 0 Surrathani 0 0 0 0 Surrathani 0 0 0 0 Total 0 0 0 0 Surrathani 0 0 Surrathani 0 0 0 Surrathani 0 0 0 Surratha				Surrathani	0	0	0
Treated water Treated wate				Total	0	0	0
Total O O O O		 Underground water 	m'	Thungsong			
Treated water Thungsong 78,734 64,043 112,570							
Surrathani 104,707 108,825 112,927							
Total 183,441 172,868 225,497		· Treated water	m'				
Total volume of water released from the organization (by source of release) m' Thungsong 0 0 0 0 0 0 0 0 0							
(2018) organization (by source of release)				iotai	103,441	172,000	223,437
Overground water • Overground water • Water supply • Seawater Total O O O Surrathani O O O O Total O O O O Surrathani O O O O Total O O O O O Total O O O O O O Total O O O O O O O Total O O O O O O O O O O O O O	GRI 303-4		m'		0	0	0
• Overground water Mater supply	(2018)	organization (by source of release)			-		0
• Overground water Surrathani O O O O O O O O O O O O O O O O O O O							
$ \text{Water supply} \\ \begin{array}{c} \text{M} \\ \text{M} \\ \text{Surrathani} \\ \text{O} \\ $		· Overground water	m'				
• Water supply M' Thungsong O O O					_		
• Water supply Surrathani							
• Seawater Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		• Water supply	m,				
• Seawater							
• Seawater Surrathani O O O			3				
****		• Seawater	m'				
				Total	0	0	0

GRI Standard	Description	Unit	Branch	2020	2021	2022			
GRI 305-1	Direct emission of greenhouse gases: Scope 1 (ton CO2e)								
	· Diesel oil (liter) (stationary) x 2.708/1,000	ton CO2e	Thungsong	4.45	2.89	4.00			
			Surrathani	18.96	14.76	26.02			
			Total	23.40	17.65	30.02			
	· Diesel oil (liter) (mobile) x 2.740/1,000	ton CO2e	Thungsong	20.03	20.20	19.64			
			Surrathani	14.66	13.02	11.51			
			Total	34.69	33.22	31.15			
	· LPG (kg) (stationary) x 3.1133/1,000	ton CO2e	Thungsong	155.81	153.90	148.33			
			Surrathani	688.04	682.91	644.01			
			Total	843.85	836.81	792.34			
	· LPG (liter) (mobile) x 1.6812/ 1,000	ton CO2e	Thungsong	0	0	0			
			Surrathani	0	0	0			
			Total	0	0	0			
	 Natural gas (scf) x 0.0573/1,000 	ton CO2e	Thungsong	0	0	0			
			Surrathani	0	0	0			
			Total	0	0	0			
	• Fuel oil (liter) x 2.4773/1,000	ton CO2e	Thungsong	0	0	0			
			Surrathani	0	0	0			
			Total	0	0	0			
GRI 305-2	Indirect emission of greenhouse gases	ton CO2e	Thungsong	1,419.98	1,424.79	1,619.33			
GI(1 303-2	through electric use: scope 2* calculated from external electric consumption x 0.4999/ 1,000		Surrathani	1,708.22	2,041.45	1,918.10			
			Total	3,218.19	3,466.24	3,537.43			
GRI 305-6	Emission of CFC (ton CFC-11e)								
GI 1 303 0	· Use of HCFC22	ton	Thungsong	0	0	0			
			Surrathani	0	0	0			
			Total	0	0	0			
	· Ozone layer demolition	ton CFC-11e	Thungsong	0	0	0			
			Surrathani	0	0	0			
			Total	0	0	0			
GRI 305-7	· Volume of NOx emission	ton	Thungsong	0.41	<0.01	2.20			
GIN 303 7			Surrathani	0.33	0.51	0.56			
			Total	0.74	0.51	2.76			
	· Volume of SOx emission	ton	Thungsong	1.86	0.15	2.11			
			Surrathani	0.51	1.44	1.71			
			Total	2.37	1.59	3.82			
	· Volume of TSP emission	ton	Thungsong	6.11	4.11	3.60			
			Surrathani	6.60	6.11	6.86			
			Total	12.71	10.22	10.46			
	· Concentration of NOx	ton/		0	0	0			
		production	Thungsong Surrathani	0	0	0			
		ton	Total	0	0	0			
	· Concentration of SOx	tor /		0	0	0			
	Consentiation of SOA	ton/ production ton	Thungsong	0	0	0			
			Total		0				
	Concentration of TSP			0		0			
	Concentration of 151	ton/ production	Thungsong	0	0	0			
		ton	Total	0	0	0			
			IOtal	0	0	0			

GRI Standard	Description	Unit	Branch	2020	2021	2022
GRI 306-2	Volume of waste	ton	Thungsong	88.31	105.52	185.30
			Surrathani	162.33	160.51	170.70
			Total	250.64	266.03	356.00
	· Hazardous waste	ton	Thungsong	3.71	1.62	19.26
			Surrathani	1.88	1.47	1.91
			Total	5.59	3.09	21.17
		Percent	Thungsong	4.20	1.54	10.39
			Surrathani	1.16	0.92	1.12
			Total	2.23	1.16	5.95
	· Non-hazardous waste	ton	Thungsong	84.60	103.90	166.04
			Surrathani	160.45	159.04	168.79
			Total	245.05	262.94	334.83
		Percent	Thungsong	95.80	98.46	89.61
			Surrathani	98.84	99.08	98.88
			Total	97.77	98.84	94.05
GRI 306-3	· Times of chemical/ oil/ wastewater/ significant	Time	Thungsong	0	0	0
	waste leakage (causing impacts on environment, community and natural resources)		Surrathani	0	0	0
			Total	0	0	0
GRI 306-4	Hazardous Waste					
(2020)	Reuse or fuel (disposal reference code 01/ 03/ 04/ 05/ 08)	ton	Thungsong	3.46	7.20	15.71
(2020)			Surrathani	1.68	1.37	1.21
			Total	5.14	8.57	16.92
	Storage in the work site (as of the end of year)	ton	Thungsong	5.83	0.00	3.55
			Surrathani	0.20	0.10	0.70
	(as of the end of year)		Total	6.03	0.10	4.25
		ton	Thungsong	0	0	0
	Incineration and landfill		Surrathani	0	0	0
	(disposal reference code: 072/ 073/ 075)		Total	0	0	0
		ton	Thungsong	0	0	0
	Other disposal methods		Surrathani	0	0	0
			Total	0	0	0
	Non-hazardous waste					
	Reuse or fuel	ton	Thungsong	0	0	0
	(disposal reference code 01/ 03/ 04/ 05/ 08)	2011	Surrathani	157.05	155.19	164.29
	(disposal reference usual of a us		Total	157.05	155.19	164.29
		ton	Thungsong	84.60	103.90	166.04
	Storage in the work site	COIT	Surrathani	2.20	3.40	3.30
			Total	86.80	107.30	169.34
		ton	Thungsong	0	0	0
	Incineration and landfill	ton	Surrathani	1.20	0.45	1.20
	(disposal reference code: 071/ 074)		Total	1.20	0.45	1.20
		ton	Thungsong	0	0.45	0
	Other disposal methods	ton	Surrathani	0	0	0
			Total	0	0	0
			.0.0.1	U	U	U

Supply Chain

GRI 308-1	Percent of new supplier/vendors screen by environmental criteria	Percent	Total	0	100	100
GRI 308-2	Percent of suppliers/vendors under the criteria of green industry level 2 or above	Percent	Total	0	0.99	0
GRI 414-1	Percent of suppliers, contractors and business partners screened for human right	Percent	Total	0	100	100
	Percent of work process with human right impact assessment	Percent	Total	0	100	100
	Percent of suppliers, contractors and business partners screened for labor matters	Percent	Total	0	100	100
GRI 202-2	Percent of local suppliers, services/	Percent	Thungsong	36.95	26.36	27.96
	outsources (5-kilometer radius or in that		Surrathani	81.81	80.00	92.65
	province)		Total	59.38	53.18	60.31

Customer Relation



GRI 102-43	Customers' satisfaction survey result	Percent	Total	89.16	82.11	95.30
GRI 102-44						









To be a producer of reliable and consistent quality products with priority and focus on human resource and customer's satisfaction in maintaining the quality system.

Muang Mai Guthrie Public Company Limited

Muang Mai Building, 9/17, Thep Krasattrri Road, Ratsada, Mueng, Phuket 83000 www.mmg.co.th