

Environmental Report 2024



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Company Introduction

Company DUNLOP SRIXON SPORT MANUFACTURING (THAILAND) CO., LTD. (DSSMT)

Location Kabinburi Industrial Zone, location in eastern Thailand
(190 kilometers away from Bangkok)

Business Commencement Date : December 21, 2007

Area 36,800 square meters

Number of employee In 2023 Averaged employees 410 persons

The number of male and female were similar

Business Operation

Manufacturing of tennis balls under the customer-defined conditions, requirements, as well as customer needs. Most of DSSMT products are certified by ITF (The International Tennis Federation).

Certifications



Environmental Message



Satoshi Tanaka

MANAGING DIRECTOR

Our challenge is to work toward Sustainability now. We must move beyond the conventional level of energy conservation to the realization of Sustainability. To achieve Sustainability will require unprecedented technological development and improvements. But we are preparing for it. And we can make it happen.

Through our Sustainable activities, we will be a company that contributes to our customers, employees, and communities

The world is now facing various environmental and social issues such as climate crisis, air pollution, poverty, and human rights problems. International frameworks such as the Paris Agreement and SDGs are expanding, and the role of corporations is becoming more important as global efforts to realize a sustainable society are required.

We are committed to solving social issues and contributing to sustainable social and economic development and coexistence with the global environment through our tennis ball manufacturing business.

In addition, as the international community shifts toward decarbonization, we will take on the challenge of becoming carbon neutral as a company that can live up to the trust and confidence placed in us by society.



Hiroyuki Kume

TECHNICAIN ADVISOR

Environmental Message



Don Prapepek
GENERAL MANAGER

Currently, people worldwide are increasingly prioritizing environmental conservation efforts. This includes using electric vehicles to minimize carbon dioxide emissions, researching and developing alternative energy sources like solar and wind power to reduce reliance on fossil fuels. We have always recognized the importance of this issue and placed significant emphasis on it. Our ongoing efforts involve environmental conservation campaigns and activities, such as scheduling power on-off cycles, setting air conditioning temperatures in the office, inspecting water quality and boiler chimneys, and encouraging efficient and economical resource usage among employees.

We aspire to contribute to preserving a healthy and clean environment for future generations.

This year, I would like to encourage everyone to prioritize environmental protection and strive for sustainability. We are currently facing numerous environmental concerns, including climate change, deforestation, pollution, and hazardous radiation, all of which contribute to the degradation of our environment. It matters most that we work together and improve our efforts to safeguard the environment through tiny, individual actions. We can, for example, recycle used items, choose environmentally friendly products, reduce our use of plastic, and conserve energy.

Let's work together toward creating a sustainable future for the next generation



Porntip Siriban
GENERAL MANAGER

Environmental Message



Kruawan Kallayasiri

PE&QA and R&D Senior Manager

As environmental issues such as dust, heat, drought, and massive waste intensify, DSSMT is committed to playing its part in mitigating these problems. We are improving our tennis ball manufacturing process by utilizing eco-friendly materials and reducing energy consumption. In 2024, our goal is to decrease plastic usage and replace it with biodegradable materials. We will strive to achieve these objectives and succeed in our efforts.

The industrial sector is the leading cause of energy consumption and air pollution, contributing significantly to global warming. Many factories are now turning to environmentally friendly alternative energy sources to reduce their emissions and greenhouse gases. At DSSMT, we are committed to doing the same



Surin Meekham

Engineering Manager

Environmental Message



Supattra Kaewsombat
Production Manager

This summer is hotter than every year in the past. Can this make everyone aware of and protect the environment?

The global warming that we are experiencing is the result of human activities harming the environment. Humans are the primary contributors to carbon dioxide emissions, primarily through the burning of fossil fuels like coal, oil, and natural gas, as well as deforestation. Our company is dedicated to reducing carbon dioxide emissions by implementing measures to decrease energy consumption from these fuels and engaging in annual tree-planting activities to combat global warming.



Panthita Pimmadakul
SE and HR/Admin Manager

Environmental Message



Wittawet Promton
PC & Logistics Manager

Because the natural environment plays a crucial role in our lives, it is important for us to recognize its significance and actively engage in its preservation. This includes actions such as planting trees to replenish greenery, refraining from disturbing aquatic animals during spawning seasons, conserving electricity, using public transportation instead of personal vehicles to save fuel, maintaining clean air by refraining from burning trash, ensuring vehicles are well-maintained, preventing factories from releasing toxic emissions, and reducing chemical pesticide use.

Additionally, it involves conserving natural resources by minimizing chemical use in agriculture, avoiding littering in rivers, opting for steel and plastic over wood, and using cloth bags instead of plastic ones. These efforts are essential for sustaining our environment and ensuring responsible use of its resources.

Company Policy

1. Provide high quality to our customers.

- High quality in consideration of the environment.
- Achieve high quality in all aspects of 4M x SQCD

2. Global Player.

- Become a top runner in the Tennis Balls Manufacturing Industry.
- Always act with an awareness of the market.

3. Improve the level of our human resources.

- Sum of individual growth = factory growth
- Set KPI, check progress and correct course (PDCA) autonomously.
- Trust and certainty - Re-embrace compliance and internal control.



Satoshi Tanaka

Managing Director

1 January 2024

Safety and Occupational Health, Environment, Quality Policies

Dunlop Srixon Sport Manufacturing (Thailand) Co.,Ltd. As manufacturer of high quality and excellent service Tennis Balls incorporates important the risks, both internal and external. Related to quality, service, environment, occupational, health, safety and working conditions of our workers to attain high level of customer's satisfaction and working standards of our company. In serve these objectives, our company has undertaken to implement the following :

1. Timely Delivery to meet customer's satisfaction.
2. Reduction and prevention of possible risks of accidents upcoming with employee, contractor, sub-contractor, visitor and company.
3. Abide strictly to rules and regulations relating to environment, occupational health and safety issues.
4. Commitment to the identification and evaluation of environment aspect and impact still focuses on activities, production process, product and company service related environment. And resources can be used to achieve maximum benefit. To continuously improve operations even further.
5. Commitment to the safety and Occupational activities for prevention and reduce of injuries and health for all employees.
6. Commitment to the environment activities for protection and prevention of pollution.
7. Active participation and involvement with environmentalists by sharing company's environmental policies.
8. Commitment to build safety working place and be fit to work, to protect the injured and illness.
9. Commitment to suggestion to and support employees participate opinion.
10. Commitment to continual improvement and sustainable of the company's quality, environment, occupational, health and safety activities.

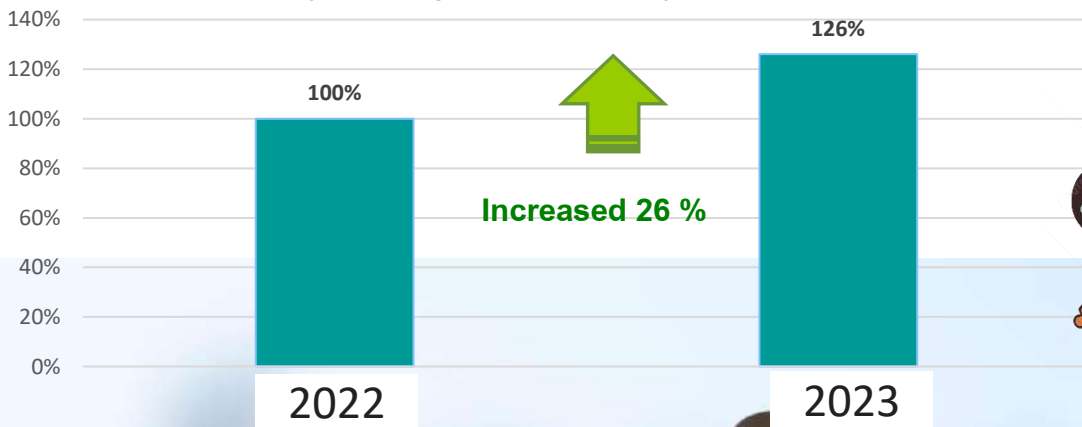


Satoshi Tanaka
Managing Director

Recycling unused materials in Production Process activities

Maximizing resource efficiency in all facets: DSSMT remains dedicated to recycling unused materials. In 2023, we achieved a 26% increase in recycling discarded materials for reuse compared to 2022.

Recycling unused materials 2022 vs 2023
(Rubber spill and wet Glue)

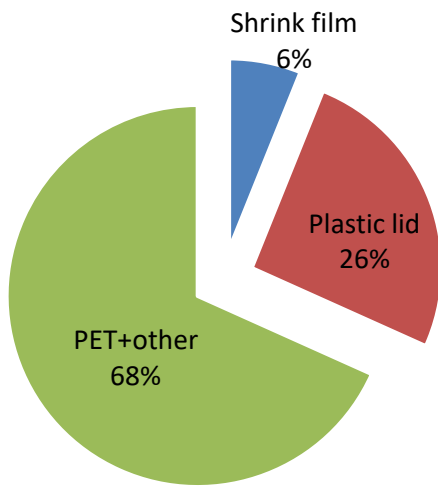


DSSMT has implemented various initiatives aimed at reducing the volume of unused materials, including reusing adhesive waste and rubber dust, thereby enhancing our recycling capacity.

Reduction plastic usage in packaging Activities

The tennis ball industry utilizes more plastic compared to other products in its category, primarily due to plastic packaging such as PET bottles, bottle caps, and product labels. Therefore, it is crucial to develop strategies to reduce plastic usage in tennis ball products.

Plastic usage of tennis in DSSMT



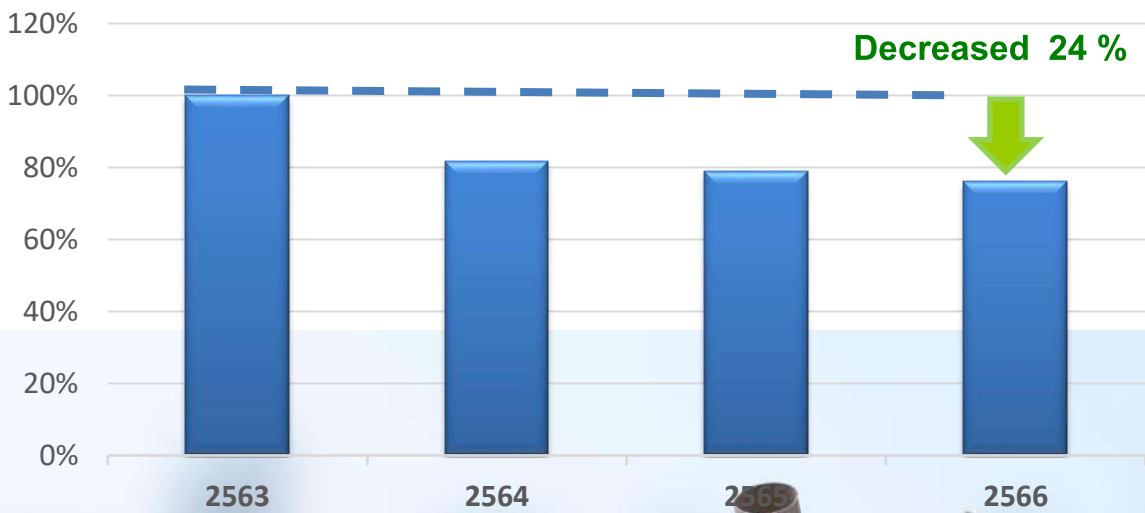
DSSMT has implemented a range of actions to reduce plastic usage in packaging,

1. Including discontinuing plastic lid on certain items.
2. Substituting paper lid for plastic ones,
3. Replacing plastic labels with paper labels, and incorporating recycled plastic pellets in PET bottle production.

Additionally, DSSMT has innovated by transitioning to paper-based packaging for tennis balls to maintain product quality equivalent to plastic packaging.

Reduction the amount of disposal of industrial waste Activities

The graph illustrates the amount of waste material allocated for external recycling or inclusion in blended fuels from 2020 to 2023. It was found that the proportion of unused materials compared to total production decreased by 24%.



We controlled the amount of unused materials taken out for disposal by focusing on internal recycling. If external disposal is necessary, we select methods with the least environmental impact.

Air Quality and Wastewater Monitoring and Inspection Activities 2023

To monitor the release of polluted air into the atmosphere and wastewater into public areas, the company conducts regular measurements of air and wastewater quality. It has been found that all measurement results comply with legal standards.



Type	Facility	Item	Unit	Regulation Value	2023 results Ave.	Legislation to verify the regulation value
Emission to the atmosphere	Boiler	Sox	ppm	950	553	Notification of the Ministry of industry, B.E.2549
		Nox	ppm	200	123	
		Total Suspended particulate	mg/m3	240	58	
Drainage	Wast water	BOD	mg/L	≤500	83	Wastewater standards of factories in the Kabinburi industrial Zone (Before passing into the KIZ's wastewater treatment system)
		SS Suspended solids	mg/L	≤200	99	
		pH	-	5.00-9.00	8	
		Oil content	mg/L	10	9	

Environmental monitoring includes assessing exhaust air emissions from boiler chimneys to ensure minimal environmental impact. Additionally, monthly measurements of wastewater values are conducted before release into the treatment pond at Kabinburi Industrial Estate, with annual inspections to ensure compliance.



Environmental and Energy Performance in 2023

Environmental performance	Unit	Year 2022	Year 2023		% Difference 2023 Actual	
		Actual	Target	Actual	VS Year 2022	VS Target
CO2 emission (Generation)	Kg/doz	1.80	1.61	1.55	86%	97%
Waste emission (Discharged)	g/doz	161.18	159.57	155.19	96%	97%
Energy consumption						
-Electric	Kwh/doz	1.57	1.49	1.62	103%	109%
-Heavy oil	mL/doz	319.08	285.79	308.72	97%	108%
-Water consumption	L/Doz	5.02	4.56	5.08	101%	111%

Efficiency in environmental control and energy management improved from 2018 to 2023 when assessed per production unit

1. CO2 emissions decreased by 14% compared to 2022 due to shifting electricity purchases from government to private sources and offsetting electricity consumption with carbon credits.
2. The disposal of unused materials externally decreased by 4% compared to 2022 and was 3% lower than the target, due to process improvements aimed at reducing waste during production
3. Electricity consumption increased by 3% compared to 2022, driven by higher production volumes in the PET bottle manufacturing process, resulting in increased use of electricity and water.
4. Fuel oil consumption decreased by 3% compared to 2022, but it has not yet reached the goal. Therefore, DSSMT has developed a plan to further enhance the production process, aiming to reduce the use of fuel oil and water by 2024.

Environmental and Safety Activities

Emergency drill



Chemical spill respond training to employee who are work for chemical in company



The company conducts annual basic firefighting training for employees to comply with legal requirements. Additionally, annual fire evacuation drills are conducted for all employees during both day and night shifts. Furthermore,

Environmental and Safety Activities

Safety, Environment and Energy Conservation Fair

Aug 17-18 ,2023 and Aug 24-25 ,2023



the company hosts a Singing contest activities to increase safety awareness and safety quiz games



the company hosts a recycling costume contest, where waste from the production process is transformed into usable costumes or items, alongside an energy conservation quiz game.

Environmental and Safety Activities

On August 21, 2023, the company organized an activity to plant 200 trees. At Ban Thod Community Forest, Nong Ki Subdistrict, Kabin Buri District, Prachinburi Province



Tree planting activities aimed at diversifying plant species in community forest areas cultivate strong relationships between the company's personnel and nearby communities, while also enhancing the company's visibility and reputation among local residents.



Corporation Social Reprability (CSR)

On March 27, 2023, the company organized a CSR activity.

At Ban Khok Lan School, Nong Ki Subdistrict, Kabin Buri District, Prachin Buri Province



Employee representatives helped organize activities at the school, replaced four new fans, improved the safety of the first aid room, and provided lunch for all students and activity participants. This effort brought joy to students and teachers, and both management representatives and employees were pleased to collaborate on these community-oriented actions.



Energy conservation in DSSMT's employee Perspective



As a maintenance technician, I ensure that machines are repaired to minimize air leaks and prevent energy wastage. Additionally, I am actively involved in waste separation, particularly managing contaminated waste after work and washing machinery. I take care to prevent oil-contaminated water from flowing into rain gutters by collecting it in designated containers./

Wanchalerm Namwong ENGINEERING DEPT.



The company engages in beneficial environmental initiatives such as tree planting and CSR activities, fostering positive relationships with the local community. Personally, I contribute to energy conservation efforts by diligently turning off water, lights, and fans when not in use, and using tissue paper sparingly. Moreover, the installation of large and small fans in the factory enhances ventilation, thereby improving overall air circulation within the facility.

/Rachana Prasert PRODUCTION DEPT.



My work area is adequately bright, and ventilation has improved after installing large ventilation fans in the factory. I contribute to energy conservation by diligently managing the use of lights and fans, ensuring they are turned off when not in use. The company also enhances employee awareness through regular announcements on the line regarding energy-saving practices and safety measures./

Waranon Wijitjan PRODUCTION DEPT.



The company regularly broadcasts announcements on the morning line about news and information related to energy conservation. Personally, I contribute by promptly turning off lights and air conditioners during breaks. I believe that implementing 5S in the factory has significantly improved our operations compared to before.

Pornchai Sawangfeang PE &QA DEPT.

 **DUNLOP**

| **SRIXON**



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