



2025

SATL's Environmental Site Report





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Company Information

Company Name : SHARP APPLIANCES (THAILAND) LIMITED

Head Office : 64 MOO 5, BANGNA-TRAD KM.37, BANGSAMAK,
BANGPAKONG, CHACHOENSAO, 24130

Capital : 948,650,000 Baht

Established : 1987

Management Representative

Managing Director : Mr. Kazuhisa Mishiro
Director : Mr. Kazuma Nakahara

Employees

Permanent : 1,400 persons (included Japanese 2 prs.)
Temporary : Depending on Production (Average 1,400 prs.)

Land & Building Area

Factory Area : 266,900 m²
Building Area : 169,399 m²

Business Activities : Manufacturer of consumer electric and electronic products
(Refrigerator Microwave Oven, Water Oven, Air conditioner, Air Purifier
& Ion Generator, Humidifier, De-Humidifier and Vacuum Cleaner)

Achieved : ISO9001 Certification by *JQA since March 2000
ISO14001 Certification by **MASCI since September 2002

SATL's Products



*JQA : Japan Quality Assurance Organization

**MASCI : Management System Certification Institute (Thailand)


Environmental Management

Environmental Policy

Environmental policy was issued since September 2002 to define environmental management direction and commitment to preserve environment in company then yearly reviewed by Managing Director.

In 2017, Environmental policy was reviewed & updated to comply with international standard of ISO14001 version 2015 and published since 1st November 2017.

Since year 2024 onwards, SATL's management organization has been changed and then the Environmental policy has been reviewed and still up to date as an international standardization of ISO14001 (Environmental Management), climate changes amendment and SHARP Eco Vision 2050.



Sharp Appliances (Thailand) Ltd. (SATL), located at Chachoengsao province, a manufacturer of consumer electric and electronic products (Refrigerator, Microwave Oven, Water Oven, Air conditioner, Air Purifier & Ion Generator, Humidifier and Vacuum Cleaner) which internationally reliable. SATL is pursuing the basic environmental philosophy of Sharp Corporation :

"Creating an Environmentally Conscious Company with Sincerity and Creativity"

SATL has developed and implemented continual improvement and enhance customer satisfaction in product and develop environmental protection systematically in consistent with Sharp environmental policy and Eco-Positive strategies.

Commitment;

1. Conducting the business and operation in compliance with the applicable environmental legal and other related requirements to environmental aspects.
2. Procuring raw materials are environmentally friendly.
3. Protecting the limited resources and making the most of the resources available, by reduce energy consumption to reduce greenhouse gas emissions and reduce waste at the source.
4. Preventing pollution from activity of the company by control wastewater, air pollution and hazardous waste that generated within the company.
5. Encouraging employees to aware in the environment and conducting social and environmental responsibility (CSR), taking into account the satisfaction of the stakeholders from the activities of the company.

SATL will publish this policy to employees including all personal who work for company and fully available to stakeholders, Implement and maintain the environmentally conscious performance for sustainable society.

Environmental Management

Certification on Management System

SATL started up environmental management system and applied for all activities in factory site, then SATL got certification for ISO14001 version 1996 : Environmental Management System since September 2002.

In year 2017, SATL reviewed and developed environmental management system to conform with new ISO14001 version 2015 and got certification for a manufacture of all SATL's products since 10th August 2018.

In year 2024, SATL achieved renewal assessment by certified body of Thailand (*MASCI) and got continued certification since 10th August 2024.

In year 2025, SATL add new products of De-humidifier in the scope of certification and got certificate since 10th August 2025.

*MASCI : Management System Certification Institute (Thailand)



Environmental Management

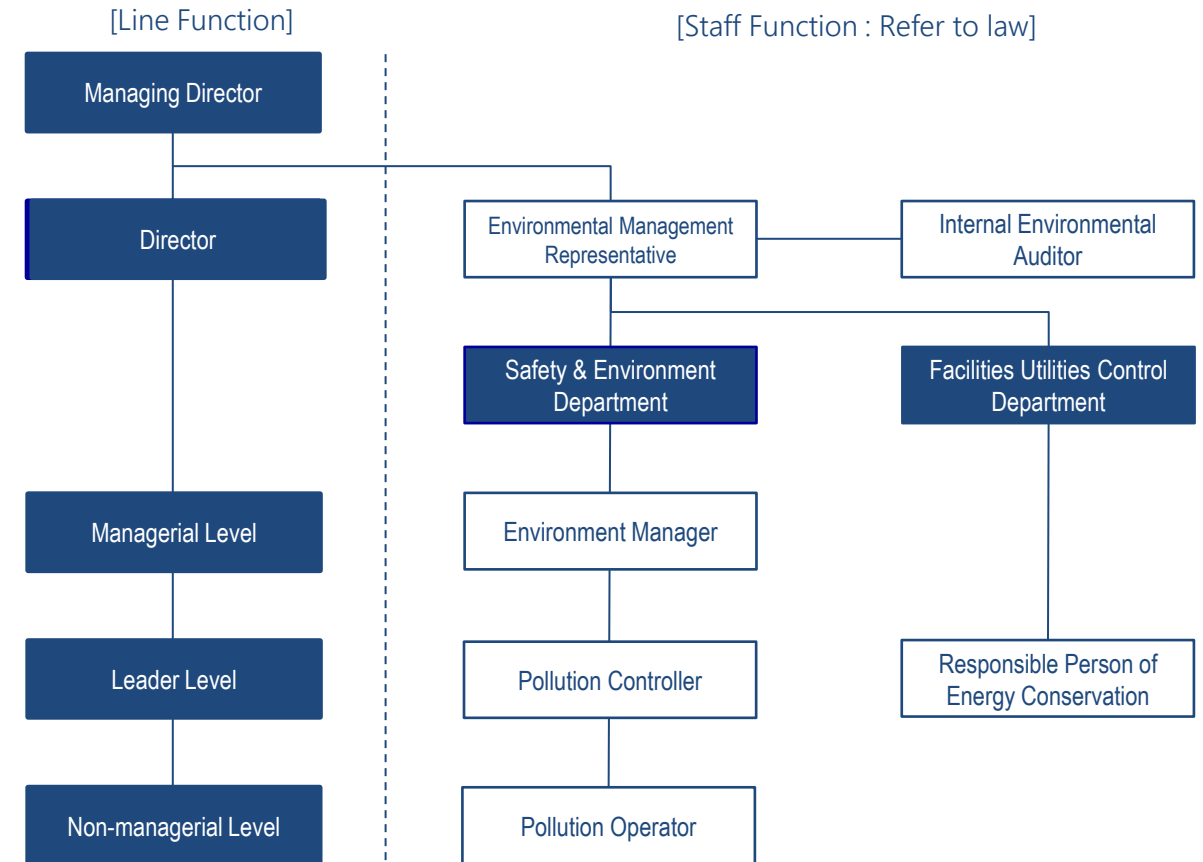
SATL Environmental Management Organization

SATL has been established to maintain and promote good environment by defining the basic matters regarding organization and operation system for environmental management.

The management organization include to Line functional unit of SATL's organization and personal who work in environmental personal as the Thailand's law.



■ Environmental Management Organization



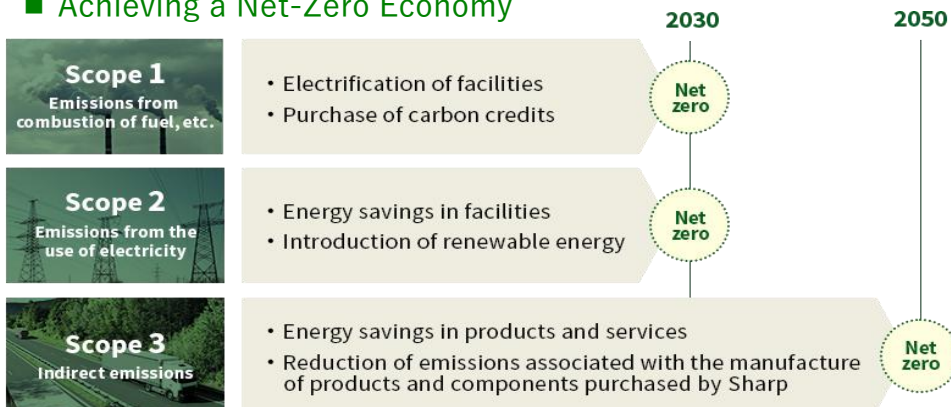
Environmental Initiatives

In order to achieve about Management Emphasizing of Sharp on ESG and SHARP Eco vision 2050,

In climate change, risks become more apparent and severe worldwide, society is demanding that companies take further action toward transition to a net-zero economy.

In response, Sharp is aiming to achieve net zero CO₂ emissions from its own business activities (Scope 1 and Scope 2) by 2030, and net zero indirect CO₂ emissions outside the scope of its activities (Scope 3) by 2050.

■ Achieving a Net-Zero Economy



SATL's Long Term Environmental Goals

For SATL, we set up two goals for climate change and resource recycling to create more clean energy consumed in our factory activities and minimize the environmental impact.

Climate Change	<ul style="list-style-type: none"> ➔ Achieve net zero CO₂ emission in SATL's activities
Resource Recycling	<ul style="list-style-type: none"> ➔ Achieve zero final disposal to landfill of waste generated in SATL's activities
	<ul style="list-style-type: none"> ➔ Reducing amount of new water used and using more recycled water

Environmental Initiatives @ Climate Change

Climate Change

Achieve net zero CO₂ emission in SATL's activities

■ Reducing Business Activity-Linked Greenhouse Gas Emissions

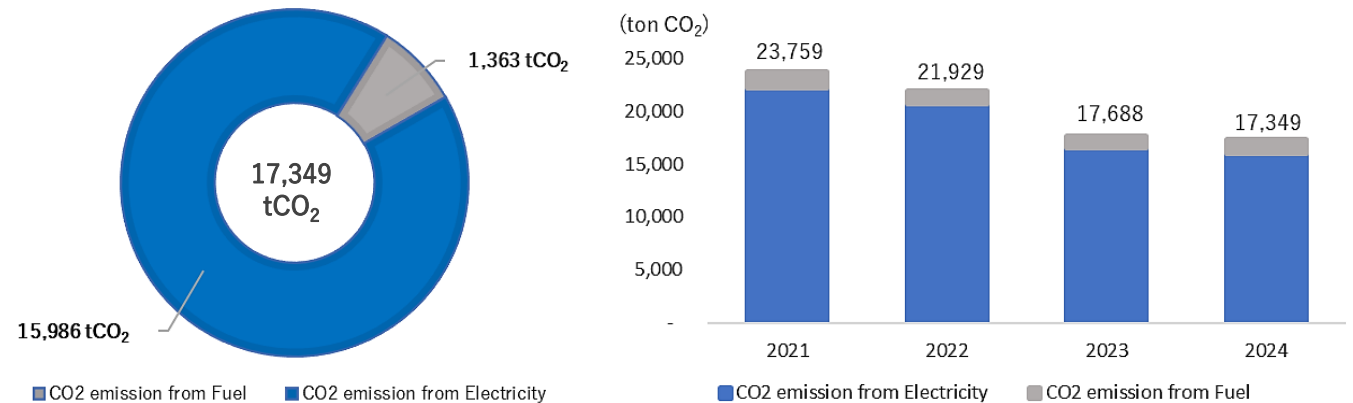
Fiscal2024 Targets	Fiscal2024 Achievement	Evaluation	Priority Objective for Fiscal 2025
Reduce greenhouse gas emissions by 33.3% (baseline year : fiscal2021)	Reduced greenhouse gas emissions by 27% (baseline year : fiscal2021)	▲	Reduce greenhouse gas emissions by 44.4% (baseline year : fiscal2021)

Evaluation : ● = Achieved , ▲ = Not Achieved

In order to minimize the environmental impact and curbing greenhouse gas emission, SATL is working to reduce GHG emissions from its business activities to ZERO by fiscal 2030 as SHARP BU target, then take more energy saving activities to support these GHG emission

In fiscal 2024, SATL's GHG emissions from business activities was down by 27% to 17,349 ton-CO₂ compare to fiscal2021.

■ 2024 : SATL's GHG emissions from business activities



Environmental Initiatives @ Climate Change

Climate Change

Achieve net zero CO₂ emission in SATL's activities

Utilizing Renewable Energy and saving activities

SATL has introduced the use of PV systems, green power, and other power sources to its production bases and is advancing the use of renewables to do its part to create a decarbonized society.

In fiscal 2024, SATL's solar system can generate electricity totally 3,733,416 kWh per year. Additionally, SATL has done applied energy saving activities for utilities and machine improvement for more efficiency.

SATL committed to continued work hard at reducing GHG emissions even further in the future.

■ Solar rooftop system at Warehouse-1 ; (1,634.04 kW)



■ Solar rooftop system at Warehouse-2 ; (817.02 kW)



■ new air compressor system with on-off time running



■ New chiller water type with Non-CFC



Environmental Initiatives @ Resource Recycling

Resource Recycling

Achieve zero final disposal to landfill of waste generated in SATL's activities

■ Minimizing and Recycling Business Activity-Linked Waste

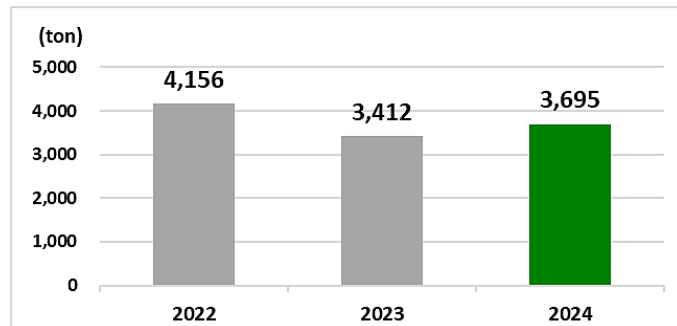
Fiscal2024 Targets	Fiscal2024 Achievement	Evaluation	Priority Objective for Fiscal 2025
Final landfill disposal rate of less than 0.44%	Final landfill disposal rate 0.45%	▲	Final landfill disposal rate of less than 0.44%

Evaluation : ● = Achieved , ▲ = Not Achieved

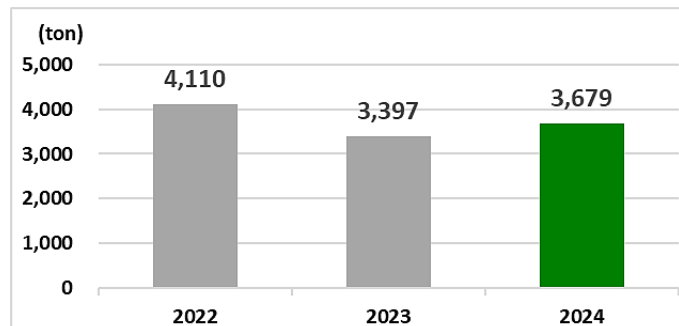
SATL has been working to reduce waste and to recycle as much of it as possible in an effort to contribute to building a resource recycling society.

In fiscal 2024, the amount of waste generated 3,695 tons, Additionally, the amount of recycling 3,679 tons. Meanwhile, the final landfill disposal rate was 0.45% or 16 tons generated. Nearby to achieved as target 0.44%.

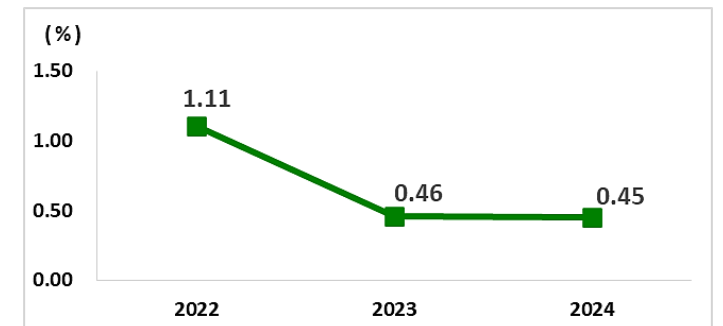
■ Amount of Waste (ton)



■ Amount of Recycling (ton)



■ Final Landfill Disposal Rate (%)



Environmental Initiatives @ Resource Recycling

Resource Recycling

Reducing amount of new water used and using more recycled water

■ Effectively Using Water Resource

Fiscal2024 Targets	Fiscal2024 Achievement	Evaluation	Priority Objective for Fiscal 2025
Improvement rate of water intensity :10% (baseline year : fiscal2021)	Improvement rate of water intensity :36%	●	Improvement rate of water intensity :10% (baseline year : fiscal2021)

Evaluation : ● = Achieved , ▲ = Not Achieved

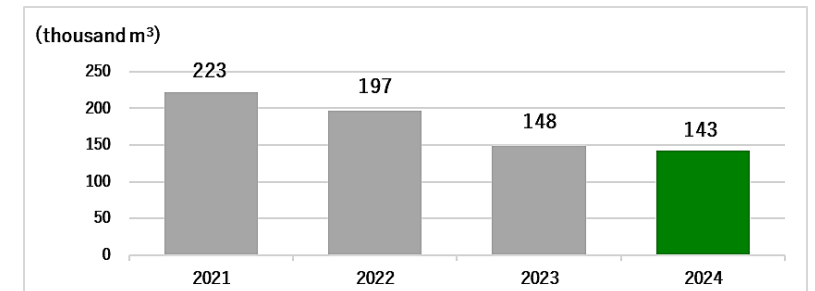
SATL has set up Recycling Water Plant to improve wastewater quality to be pure water for use in the manufacturing process. For greywater from Recycling Water Plant, SATL can applied for restroom and gardening.

In year FY2024, SATL used new water 142,601 m³ and applied water recycle 142,601 m³. The volume of new water usage decrease 3% compared to previous fiscal year to 84,178 m³ per year. Overall water used can reduce 36% compare to fiscal 2021.

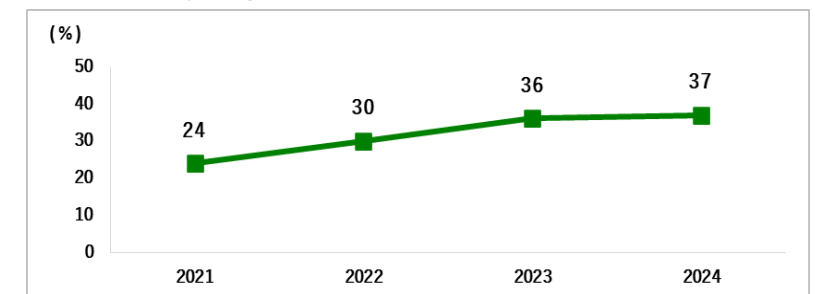


SATL Water Recycling Equipments

■ Volume of New Water Used (m³)



■ Water Recycling Rate (%)



Environmental Initiatives @ Overview of Environmental Impact

SATL continued monitor and report environmental performance data to Sharp corporation by periodically. Measured items include the consumption of energy and material chemicals in business activities, the emissions of greenhouse gases and the generation of waste.

SATL uses these values to set up environmental objectives and take activities to reduce environmental burden.

Input

Item				Unit	Fiscal Year
					2024
Product manufacture	Energy	Electricity		MWh	33,220
		Renewable energy	Solar SSGT	MWh	3,656
			Solar SATL	MWh	770
		LPG		Tons	251
		Diesel oil		Kl	141
	Chemical HFC	Refrigerant R32		Kg	332
		Refrigerant R134a		Kg	11
		Refrigerant R410A		Kg	1
	Chemical substances Handles (PRTR-listed)			Tons	1,490
	Water resources			Thousand m ³	259
				Thousand m ³	227
		Water withdrawal	New water	Thousand m ³	143
			Recycle water	Thousand m ³	84
	Water reuse			Thousand m ³	32
	Waste	Generated amount		Tons	3,695

Output

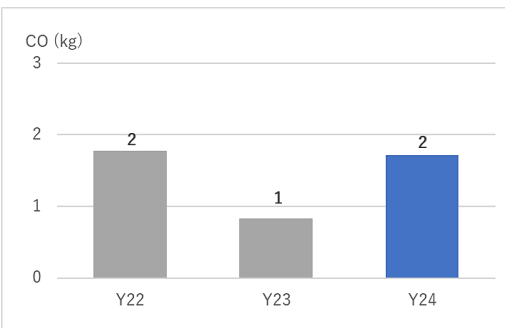
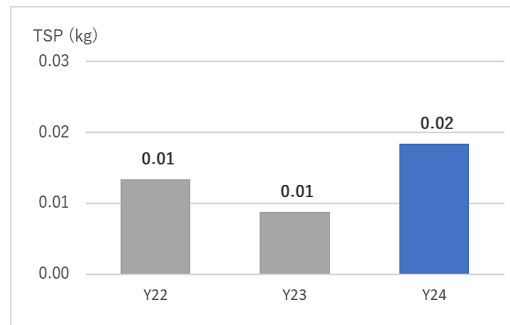
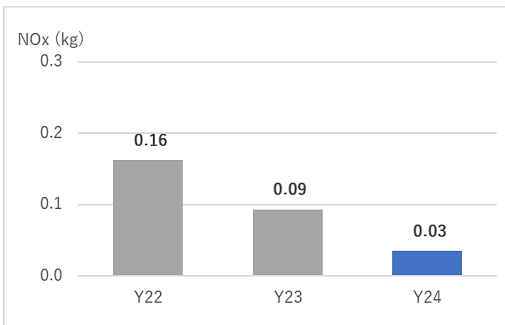
Item				Unit	Fiscal Year	
					2024	
Product manufacture	Greenhouse gases			TonsCO ₂	17,349	
		CO ₂ (Scope-2)		TonsCO ₂	15,986	
		CO ₂ (Scope-1)			TonsCO ₂	1,363
			Fuel	TonsCO ₂	1,121	
			Refrigerant	TonsCO ₂	242	
	Effluent	Public water areas		1000* m3	15	
	Waste			Tons	3,695	
		Direct recycled amount		Tons	3,265	
		Recycled amount after intermediate treatment		Tons	413	
		Landfilled amount after intermediate treatment		Tons	16	
	Atmosphere	NOx emission		Kg	0.03	
		TSP emission		Kg	0.02	
		CO emission		Kg	2	
	Water areas	COD (Chemical Oxygen Demand)		Kg	4,320	
		BOD (Biochemical Oxygen Demand)		Kg	292	
Total Kjeldahl Nitrogen as N		Kg	173			
Nikel		Kg	8			

Environmental Initiatives @ Environmental Load into Air and Water Areas

SATL properly manages pollutants that affect air and water quality by control speed out of pollution from source of process and pre-treatment then set up monitoring periodically in laws and regulations and stricter than those agreed upon with local communities. It also actively conducts risk communication with local communities.

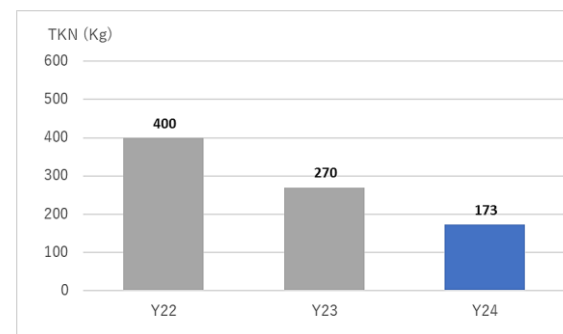
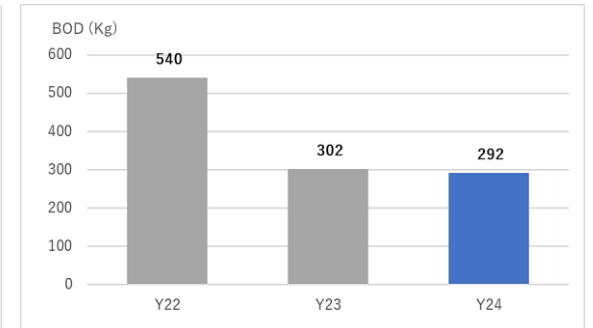
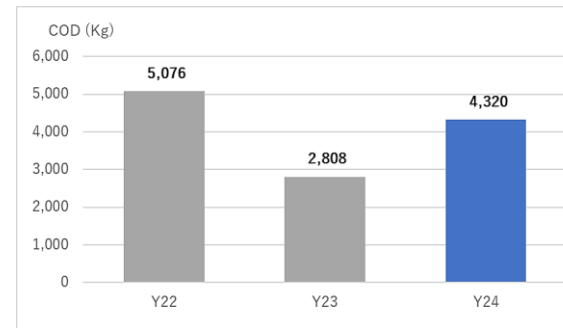
All pollutants can control in standard continually with NO any complaint and penalty from concerned government organization.

■ Atmospheric Emissions



Emitted air pollutants monitoring from Stack

■ Emissions into Water Areas



Treated water sampling and analysis

Environmental Initiatives @ Safety and Environmental Education

SATL provide training to employees on safety and environmental courses to increase safety & environmental awareness and many other courses to provide employees with knowledge, understanding and apply working safely, environmental & energy conservation.

In 2024, SATL set up Supplier Quality Training contained topics in ; 1. Part Quality, Purchasing Requirement, CSR, ESG, CBAM & Carbon Neutral, 85 Suppliers joint in Training program

■ Basic environment for employees



■ Carbon footprint and CBAM



■ First Aids Training



■ Supplier Quality Training ; 85 suppliers jointed



Occupational Health and Safety @ Initiatives to Reduce Industrial Accidents

This occupational health and safety management activities that can be managed in the entire area of the manufacture activities of SATL to provide safe and healthy workplace by preventing work-related injury and ill health and improve its performance

SATL defined industrial accident reduction in goal of business plan and set up strategies to achieve it. Then strongly to eliminate unsafe action, unsafe condition in manufacturing.

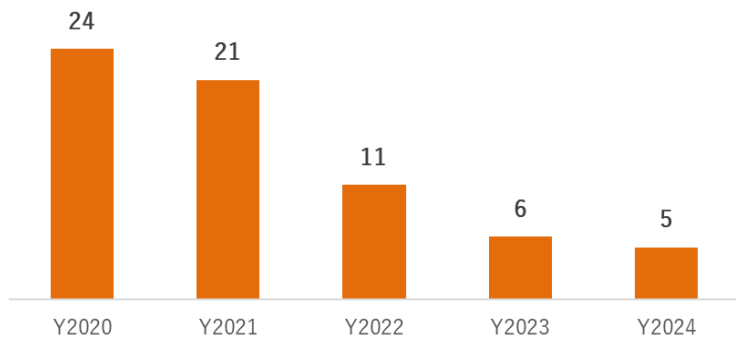
From the past 3 years, the accident case continued reduce and keep zero severe accident and fire accident.

■ Initiatives to Reduce Industrial Accidents

Fiscal2024 Targets	Fiscal2024 Achievement	Evaluation	Priority Objective for Fiscal 2025
<ul style="list-style-type: none"> - Eliminate severe accidents, - Reduce industrial accidents 	<ul style="list-style-type: none"> - No severe accident and No fire accident - 5 cases occurred and recorded 	●	<ul style="list-style-type: none"> - Eliminate severe accidents, - Reduce industrial accidents

Evaluation : ● = Achieved , ▲ = Not Achieved

■ Annual Industrial Accident (cases)



■ Activities to Reduce Industrial Accidents

Safety rule & KYT promotion in production site



Safety inspection in production site



Occupational Health and Safety

■ Emergency Response and Preparedness

To comply with Thai safety law and preparedness for all employees ready in emergency situation that may be occurred and can apply knowledge for daily life. SATL has established the fire fighting practice and chemical leakage practice to all concerned and prevent any effect to human and environment.

■ Acid-Alkaline leakage practice



■ X-ray radiation leakage practice



■ Chemical waste leakage practice



■ Rescue practice at dangerous machine



■ SATL Fire fighting & fire evacuation practice



■ Fire equipment performance test to ready for use.



