

2023  
SAAMbiental  
Environmental  
Bulletin



# SAAMbiental Environmental Bulletin

At SM SAAM, climate action and the environment are one of the five core concepts used by the company to integrate sustainability into its actions, with the goal of being a successful, profitable company in the long term and contributing to sustainable development.



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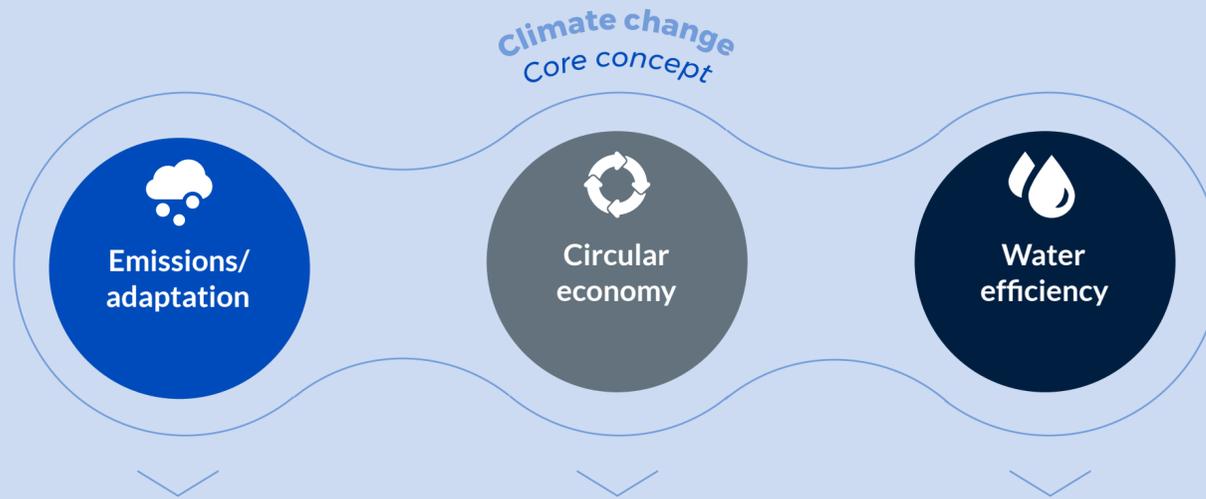
We join the fight against climate change in order to be a part of the solution, taking actions that prevent and mitigate the environmental impacts of our activities, with a focus on operational excellence.

This document recaps the environmental management efforts of our divisions during 2022. The information covers 100% of subsidiaries and associates.

# Progress in environmental management

At SAAM, environmental management is developed on the basis of the company's Environmental and Sustainability policies, which apply to all subsidiaries.

In 2022 we began developing the company's Environmental Strategy. This will make it possible to outline a road map that will address climate change as a mobilizing theme, establishing three commitments: emissions and adaptation, circular economy and water efficiency. Milestones during the period include a diagnostic of environmental management developed in conjunction with an external consultant, with the aim of preparing the strategic plan.



Each commitment will have its own goals and targets to accomplish by 2025, 2030 and 2040.

To implement the strategy, SM SAAM will work with the following commitments, which will be adapted to each business unit's reality in accordance with its impacts:



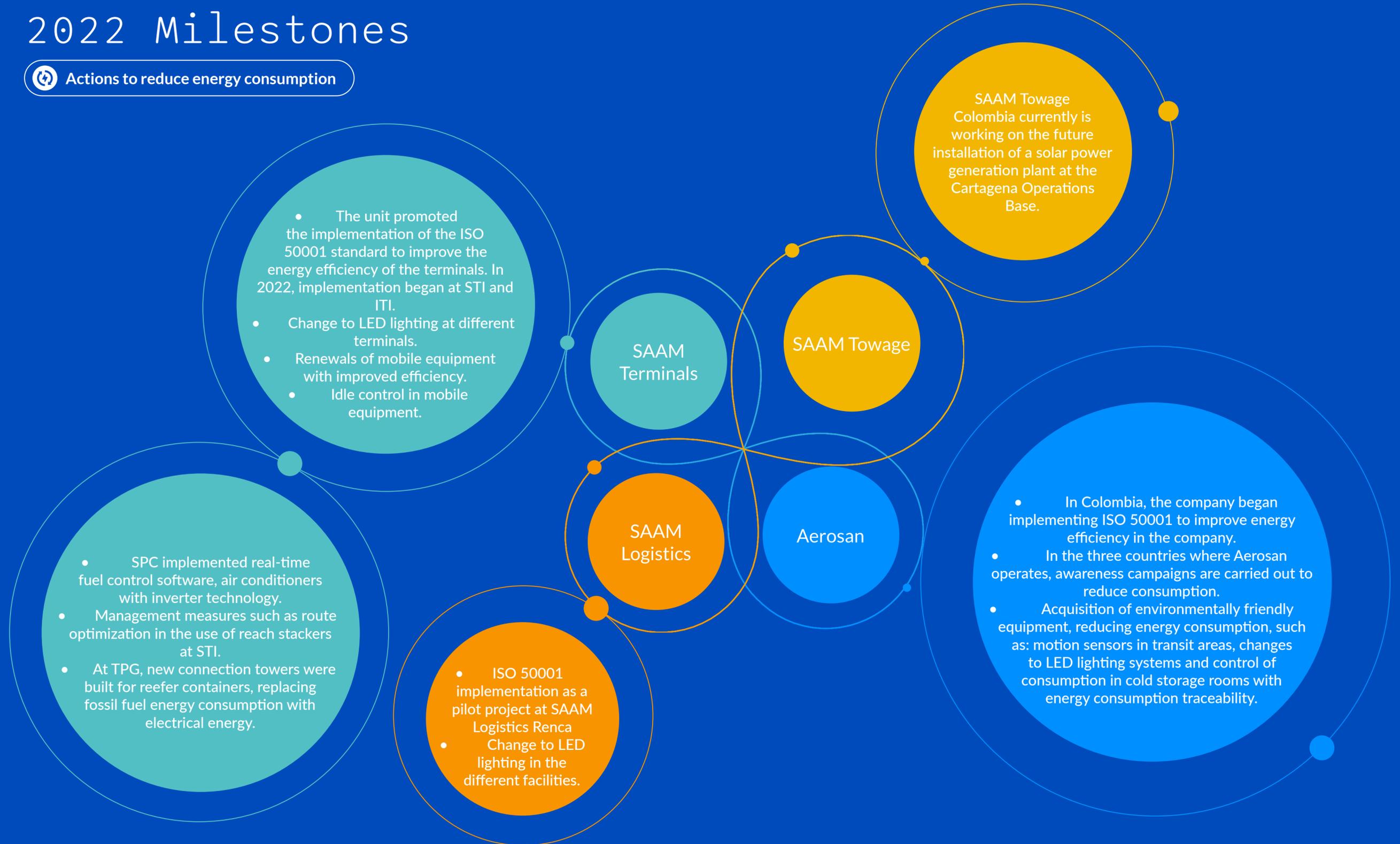
# 2022 Milestones

## Milestones related to emissions



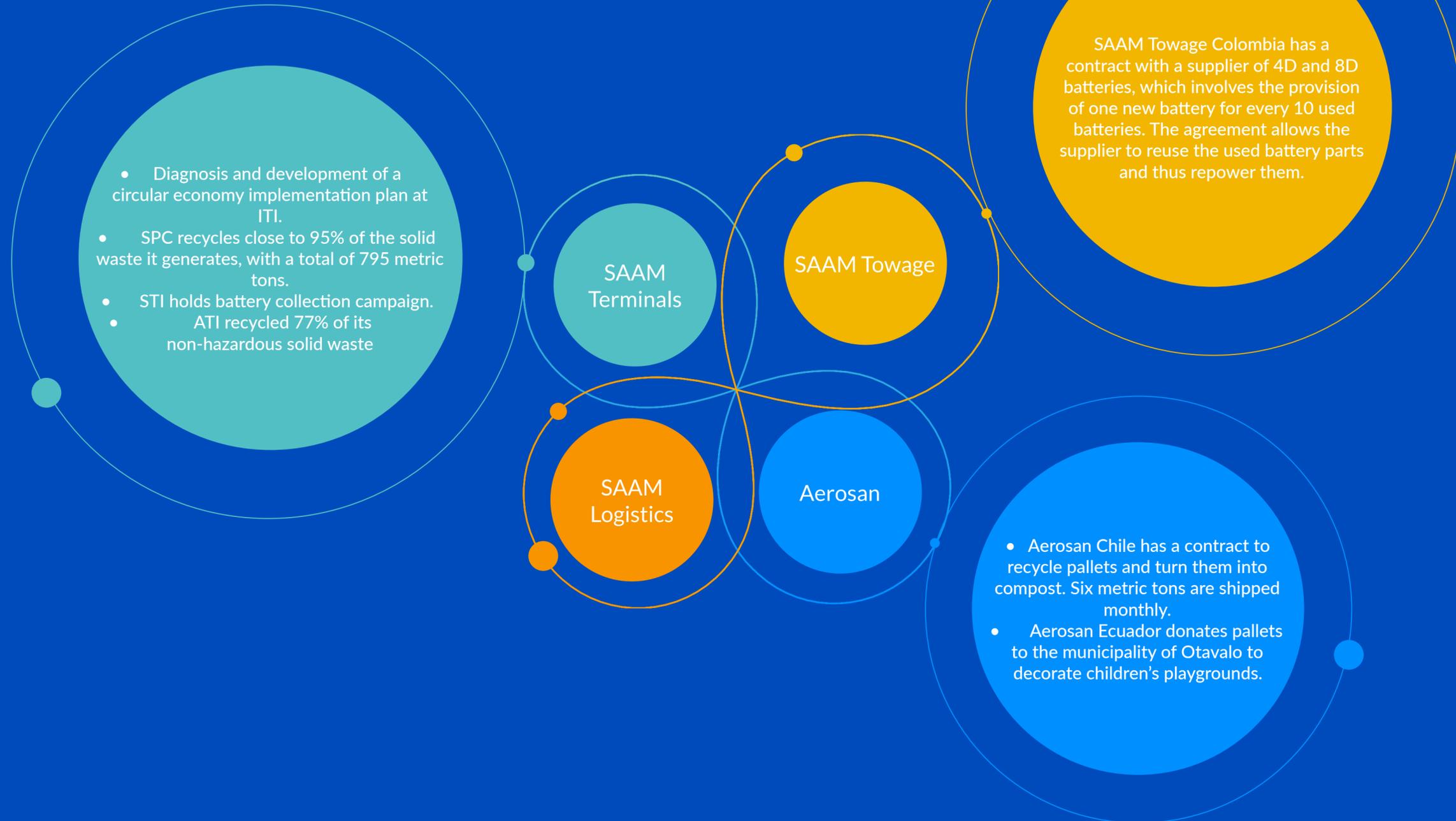
# 2022 Milestones

## Actions to reduce energy consumption



# 2022 Milestones

## Milestones in recycling management



# Environmental Investments



\*Liquid industrial waste  
\*\*Solid industrial waste

# Certifications and seals



**100%**  
of the subsidiaries in Chile have the emissions  
quantification seal granted by the Ministry of  
the Environment.

**Iquique Terminal Internacional, Antofagasta  
Terminal Internacional and San Vicente  
Terminal Internacional** earned the  
Reduction seal granted by the Ministry of the  
Environment.

# Natural resource management

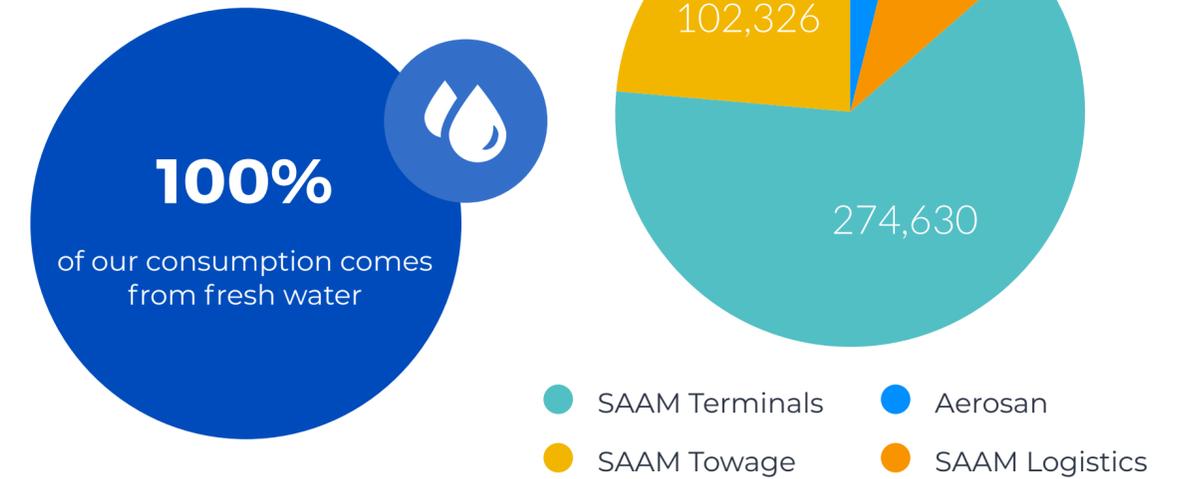


Efficient water management is crucial to ensuring the sustainable use of this vital resource, especially due to the consequences of climate change, which in some areas reduces rainfall, causing prolonged droughts. In response to this situation, we took measures to improve water consumption efficiency.

The main actions include education on the responsible use of water, promotion of good practices, reuse of water in equipment washing areas, installation of flushometers in bathrooms to reduce water discharge, monitoring of all bathrooms and showers to detect leaks and repair them immediately, and installation of timed or automatic faucets to prevent them from being left running.



In 2022, water consumption totaled **436,359 cubic meters**, distributed across the business units as follows:



Water extraction m³ per business unit – 2022

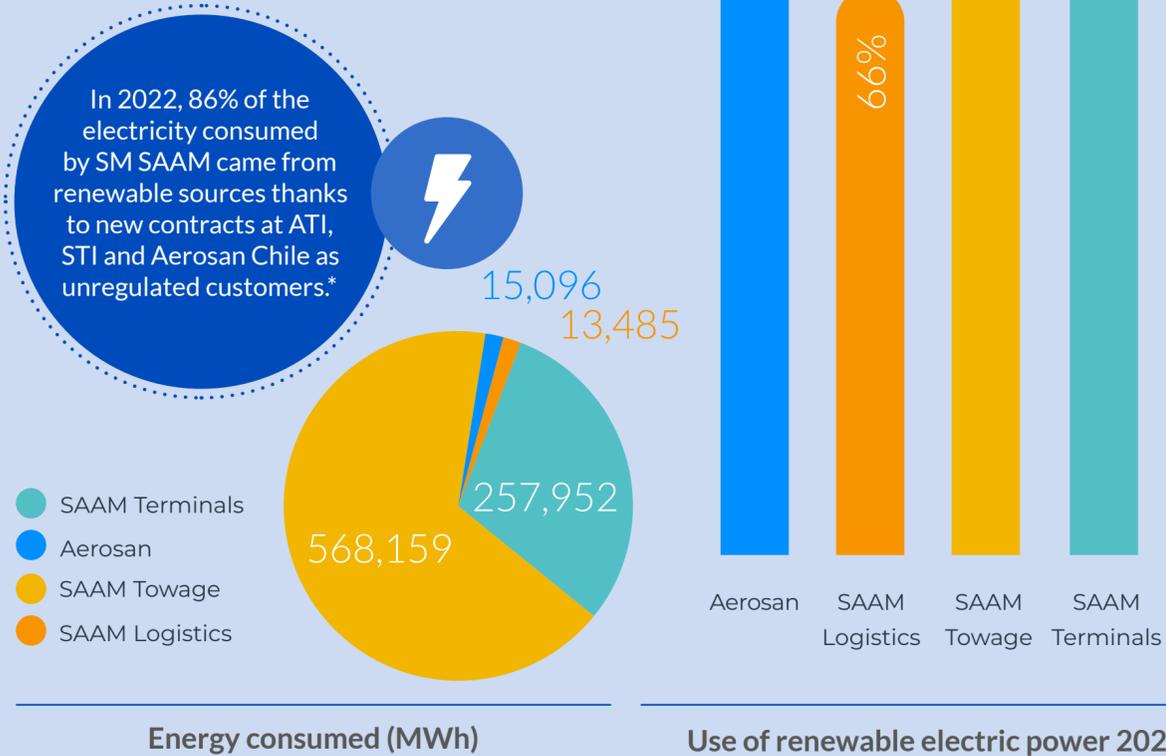
	SAAM Terminals	SAAM Towage	SAAM Logistics	AEROSAN
Surface water	29,665	Not used	Not used	Not used
Groundwater	Not used	Not used	401	Not used
Sea water	Not used	Not used	Not used	Not used
Water produced (includes reused)	Not used	Not used	Not used	Not used
Third-party water (includes water supply – public utility or private service)	244,965	102,326	41,992	17,010
Water from areas under water stress	Not relevant for industry			
<b>Total</b>	<b>274,630</b>	<b>102,326</b>	<b>42,393</b>	<b>17,010</b>

# Natural resource management

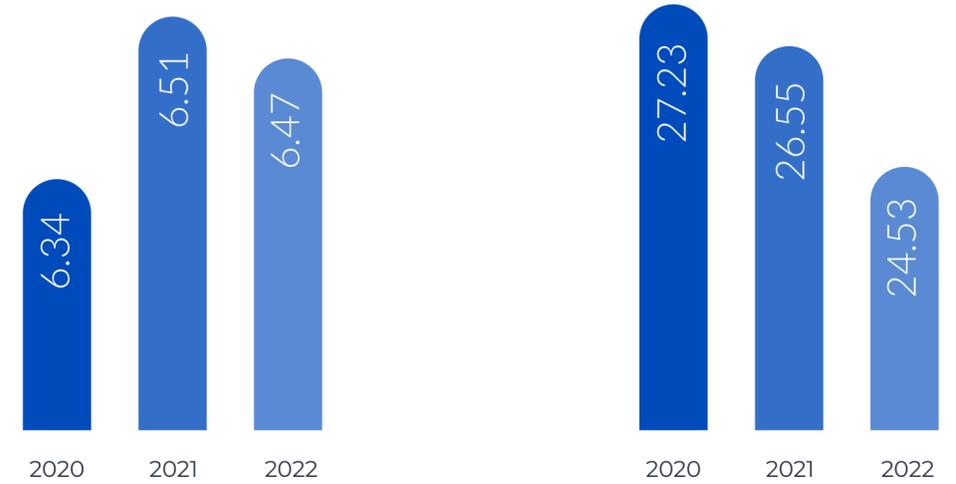
## Energy

During 2022, a series of measures and practices were implemented to reduce energy consumption, such as: energy audits, efficient lighting, consumption control, purchase of renewable energy, implementation of energy management systems, among others. By adopting these measures, we have significantly reduced consumption, which not only benefits the organization but also the environment by reducing GHG emissions.

For 2022, SM SAAM reported total energy consumed of 854,692 MWh, distributed as follows:



\*These contracts will be externally certified during the first half of 2023 to add these subsidiaries to the other SAAM entities already using clean energy.



\*Gj / Operating Hours

\*\*Mj / mt of throughput

Regarding significant air emissions such as SOX, NOX and PM 10, SM SAAM reports emissions from stationary sources only for Chile. Attached is a table by company and emissions.

	NOx	SOx	PM10
ITI	0.0175	0.0012	0.0012
ATI	26.7921	1.7610	1.8851
STI	0.0265	0.0008	0.002
SVTI	4.9	0.3	0.3
P.Corral	2.3413	0.1539	0.1647
Aerosan	0.01545	0.0024	0.0025
SAAM Logistics	0.0093	0.0006	0.0006
Total (ton)	33.9	2.2	2.4

# Natural resource management

## Waste management

Improving waste management is essential to reducing environmental impact and promoting sustainability. Strategically, in its different business units, SAAM has implemented a series of measures to increase the percentage of waste that is recycled or recovered, for example:



These efforts translated into the following results:

Type of Waste Recycled (Tons)	Type of Waste Recycled by Business Unit			
	SAAM Terminals	SAAM Towage	SAAM Logistics	Aerosan
Paper	40	1	0	7
Scrap metal	913	20	0	2
Wood	564	0	0	96
Cardboard	17	0.543	4	10
Electrical and electronic equipment	11	0.418	0	0.144
Electrical cables	0,221	0	0	0
Plastic	23	6	24	24
Tires	114	8	0	3
Solid bulk	687	0	0	0
Batteries	12	0.844	0	0.04
Ink toner	0	0	0	1
<b>Total</b>	<b>2,382</b>	<b>36</b>	<b>29</b>	<b>143</b>

	Solid Waste Diverted and Destined for Disposal*	
	Hazardous Waste	Non-Hazardous Waste
Disposal by Recycling (MT)	14	2,577
Disposal by incineration (without energy recovery) (MT)	441	387
Disposal in landfills (MT)	0	4,500
<b>Total waste</b>	<b>455</b>	<b>7,464</b>

\*SM.SAAM only has the types of waste disposal presented in the table.

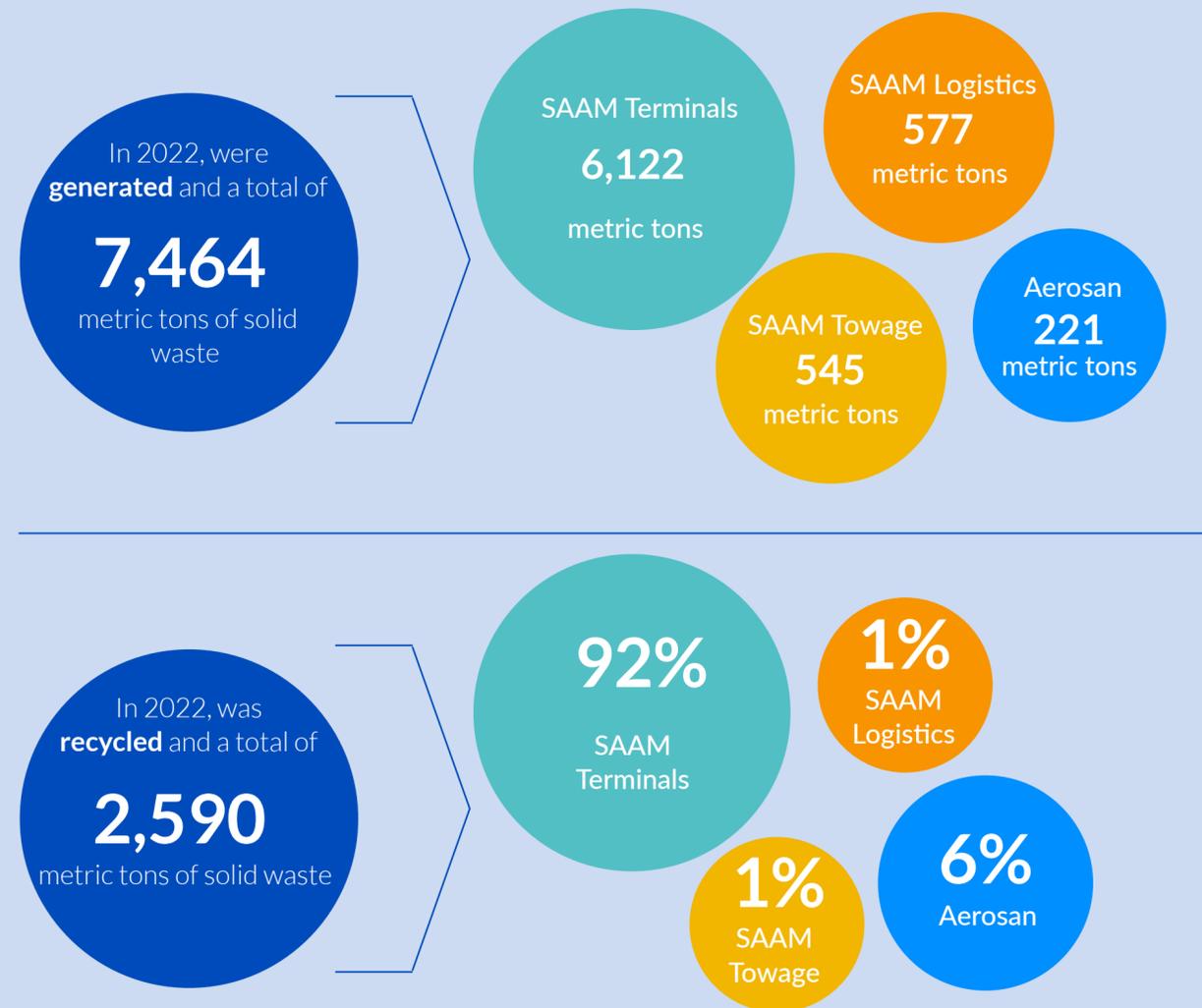
	Liquid Waste Diverted and Destined for Disposal*	
	Hazardous Waste	Non-Hazardous Waste
Disposal by reuse (m3)	0	72
Disposal by recycling (m3)	313	0
Disposal in landfills (m3)	0	1
Other physical/chemical disposal methods (m3)	1,748	29
<b>Total waste</b>	<b>2,062</b>	<b>101</b>

\*SM.SAAM only has the types of waste disposal presented in the table.

# Natural resource management

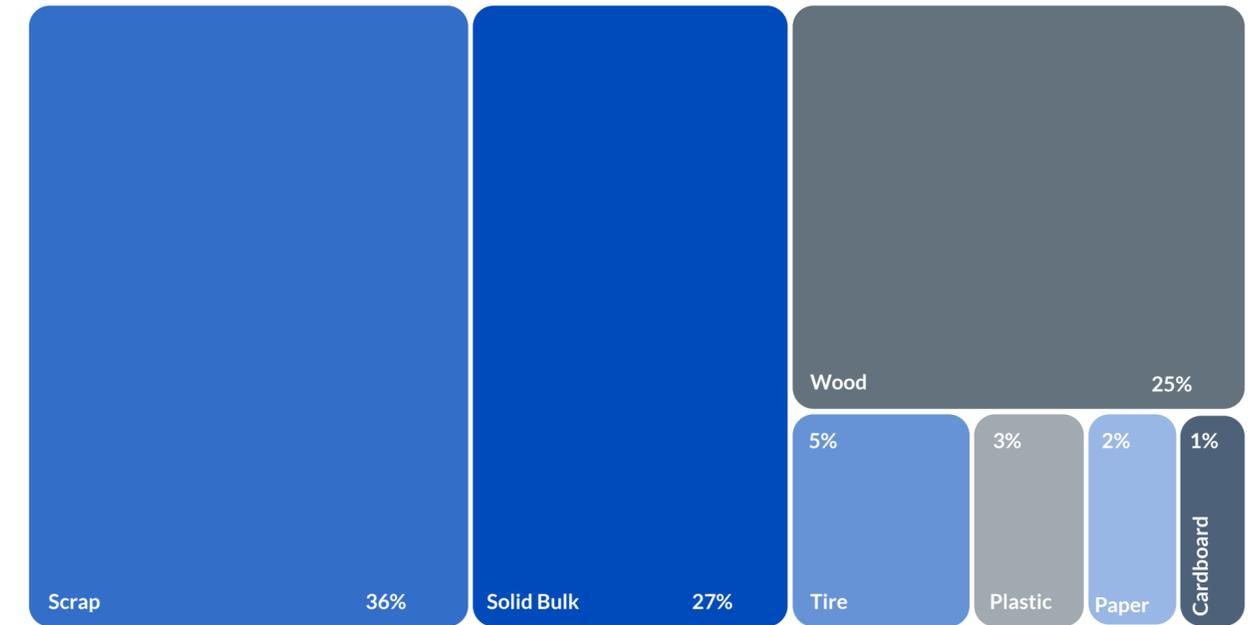
Waste management

SAAM S.A. recycled 35% of the waste generated in the different business units.



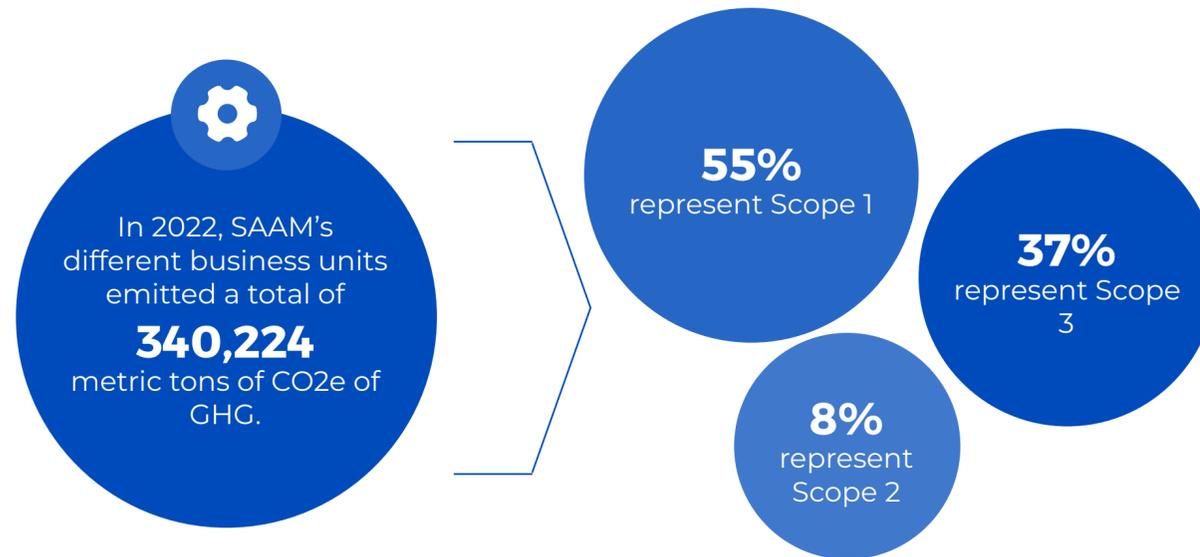
Note: this value includes the waste sent to final disposal for our customers at P.Corral.

Recycling is broken down as follows:



# Management Of Greenhouse Gas (GHG) Emissions

Thanks to the measures implemented during the period, the company **reduced its emissions by 2,542 metric tons of CO<sub>2</sub>e, 1.2% less than in 2021.**



GHG Emissions Reduction*				
Emissions reduction in metric tons CO <sub>2</sub> e**	Gases included in calculation	Base year or baseline	Scope where reductions occurred	Standards, methodologies, assumptions and calculation tools used
1,313	CO <sub>2</sub> e (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFC)	2021 SAAM Terminals	Scope 1 + Scope 2	ISO 14,064: the 2021 intensity figure was multiplied by the 2022 denominator to get the kg CO <sub>2</sub> e excluding projects in 2022. The real kg CO <sub>2</sub> e from 2022 were then subtracted from this figure to get the emissions reductions.
401	CO <sub>2</sub> e (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFC)	2021 SAAM Logistics	Scope 1 + Scope 2	
-360	CO <sub>2</sub> e (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFC)	2021 Aerosan	Scope 1 + Scope 2	
1,188	CO <sub>2</sub> e (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFC)	2021 SAAM Towage	Scope 1 + Scope 2	

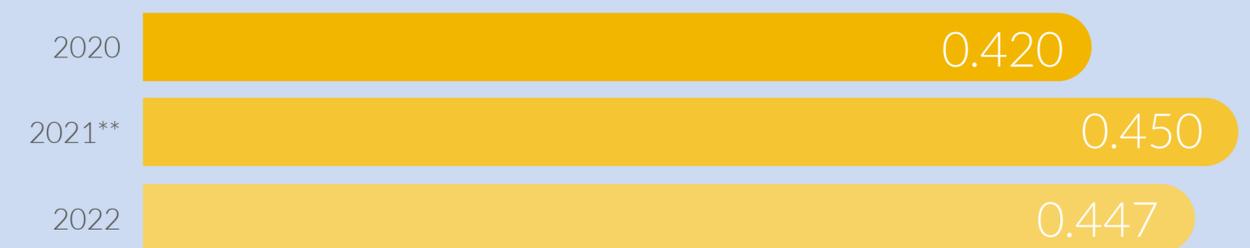
\*GHG emissions reductions as a direct result of reduction initiatives in metric tons of CO<sub>2</sub> equivalent  
\*\*Positive results represent emission reductions

These reductions come from the intensity measurements of the different business units. Between 2020 and 2022, these intensities are declining.

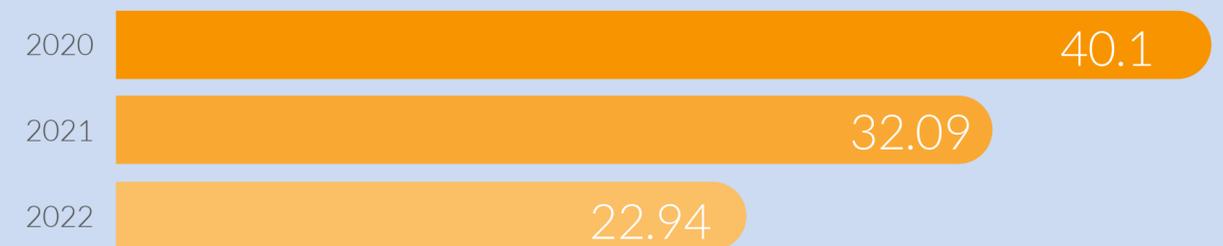
## Intensity SAAM Terminals - Kg CO<sub>2</sub>e / metric ton transferred



## Intensity SAAM Towage - Ton CO<sub>2</sub>e/OH\*

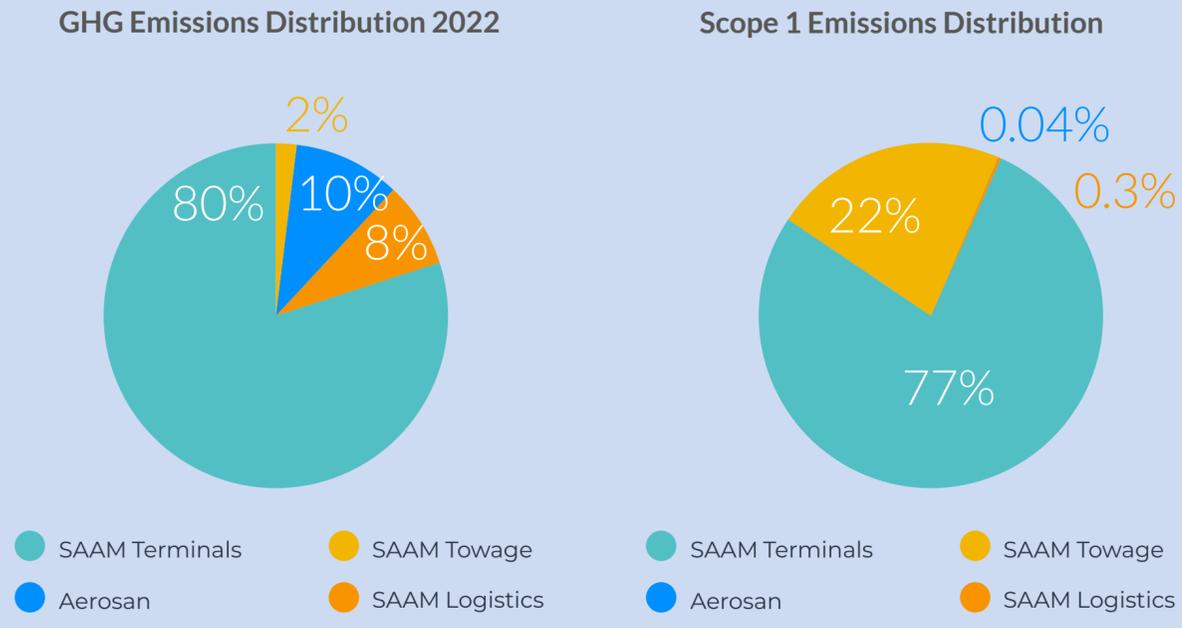
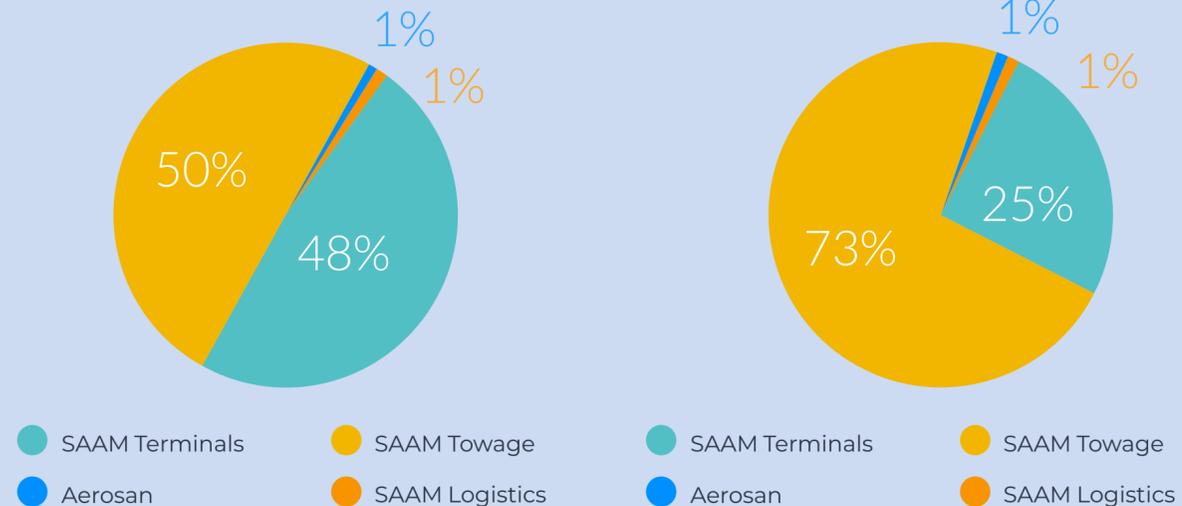


## Intensity Puerto Montt Cold Storage (SAAM Logistics) - Kg CO<sub>2</sub>e/metric ton in/out

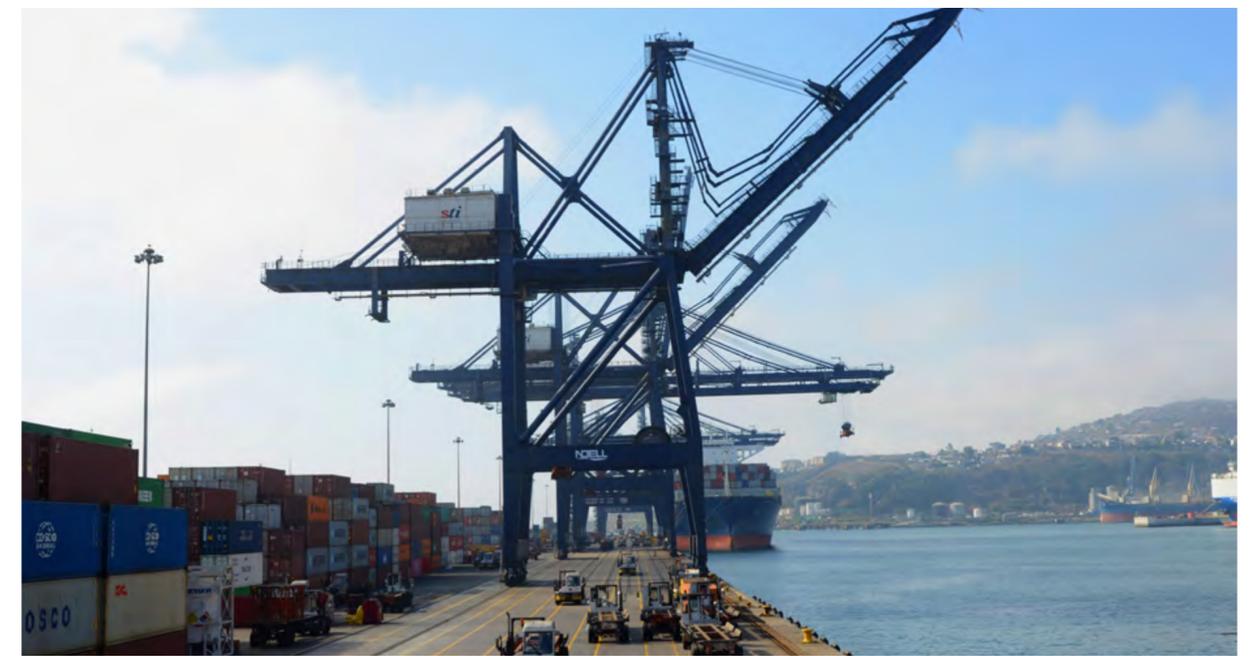


\* Operating hours  
\*\*The carbon footprint of the entire fleet was reviewed in 2021 and the intensity was corrected.

# Management Of Greenhouse Gas (GHG) Emissions



Greenhouse Gas Emissions (Ton CO2e)*						
Scope/Indicator	Total SAAM Business Units	Unit	2019	2020	2021	2022
Direct GHG emissions (Scope 1)	SAAM	Ton CO2e	34,158	96,565	189,445	191,689
Direct GHG emissions (Scope 2)	SAAM	Ton CO2e	12,333	33,798	26,464	25,979
Direct GHG emissions (Scope 3)	SAAM	Ton CO2e	92,383	180,072	193,792	122,556
Consumption year	SAAM	-	Reported 2019 and consumption from 2018.	Reported 2020 and consumption from 2019.	2021	2022
Coverage	SAAM	%	50%	86%	100%	100%



# Management Of Greenhouse Gas (GHG) Emissions

Milestones in Emissions Management

SAAM Towage Colombia certifies 100% carbon neutrality of its operations.

SAAM Towage Costa Rica recognized for its environmental management, from the Blue Ecological Flag Program in the Climate Change category.

SAAM Towage Canada deal with Teck and Neptune Terminals to roll out the first two 100% electric, zero-emission tugs at the Port of Vancouver.

SAAM Towage Brazil earned first-ever Gold Seal for emissions quantification.

Aerosan Chile earned first-ever emissions reduction seal granted by Huella Chile.

ITI, ATI and SVTI earn seal from Huella Chile for emission reductions.

SVTI and STI obtain Giro Limpio certification.

100% of SAAM Logistics facilities have Huella Chile emissions quantification seals.

# Culture and environmental compliance

As part of its efforts to promote an environmental culture within the organization, SAAM fosters the building of knowledge, skills and habits among employees, while raising awareness of the problems and impact generated by its operations in a quest for sustainable development. To this end, it conducts training sessions and manages incidents, internal audits and social complaints.

In 2022, no sanctions or fines were imposed by the Superintendency of the Environment or an equivalent entity in foreign jurisdictions. Regarding compliance with environmental obligations, the company's Code of Ethics establishes the guidelines and measures that the company must follow to comply with the environmental regulations and standard commitments made to stakeholders, focusing its work on protecting the environment. SAAM is committed to developing a culture of environmental protection and respect for communities, implementing an environmental management system that prevents and controls impacts, promotes efficient management of available water and energy resources, minimizes waste generation and ensures the protection of biodiversity.



\*Accrued environmental liabilities at closing

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