

Energy Consumption & GHGs Report 2023

Sisterna has made significant progress in managing energy consumption and reducing GHG emissions. This report provides an overview of our energy use and GHG emissions from 2019 to 2023, focusing on our efforts to reduce our carbon footprint across all three scopes.

Energy Consumption

Production

The picture below visualises the environmental impact for the production of 1 kg of sucrose esters. Sisterna wants to be as transparent as possible and in the coming year, we want to keep updating this information, to decrease our environmental impact over the years.



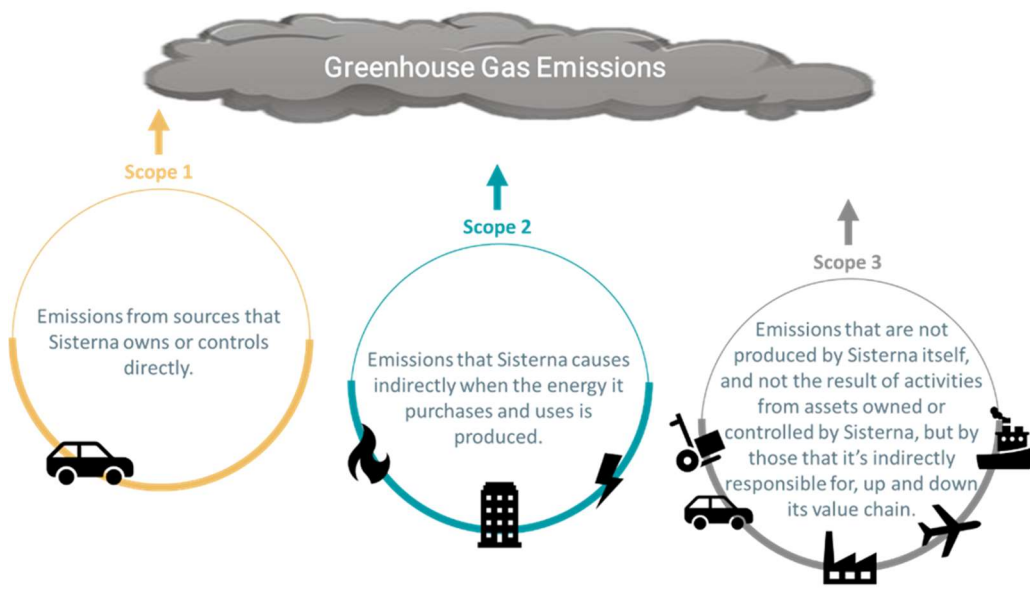
The manufacturer of our sucrose esters recycles water. However, it is not known how much precisely.

Office

Our office energy consumption is primarily from electricity and heating, which falls under Scope 2 emissions. In 2023, we engaged in discussions with the building manager to explore renewable energy options, such as solar panels, which we plan to implement in the coming years.

GHG Emissions

Sisterna has categorized its carbon footprint into three scopes to better manage and reduce emissions.

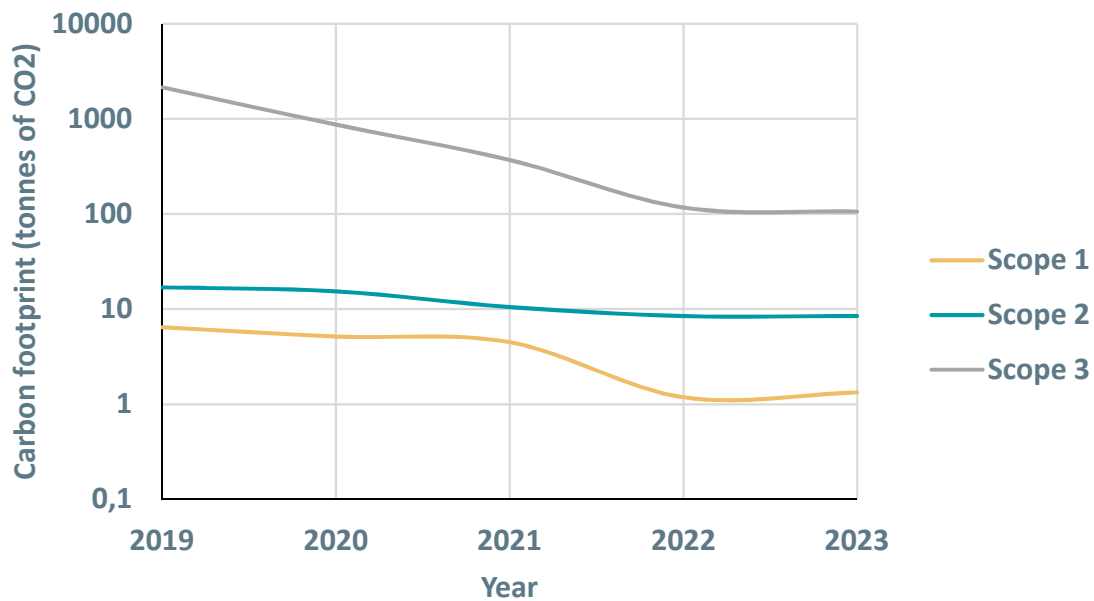


Scope 1

Emissions from company vehicles, which have been significantly reduced from 6.5 tonnes of CO2 in 2019 to 1.3 tonnes in 2023. This reduction is partly due to transitioning to more efficient vehicles and planning for future electric or hybrid options.

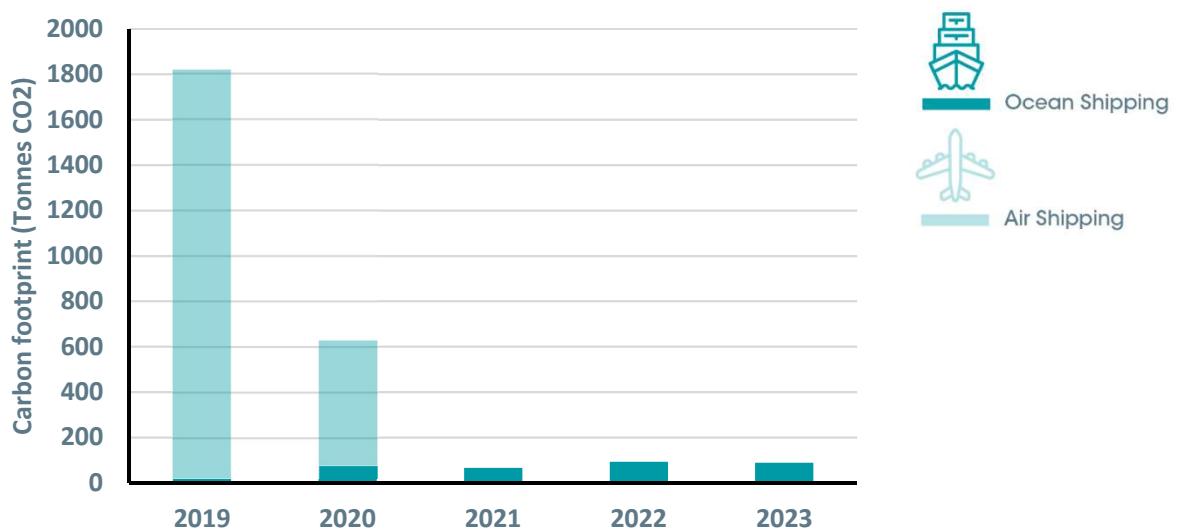
Scope 2

Emissions from the electricity and heating used in our rented business premises have also decreased, from 16.9 tonnes of CO2 in 2019 to 8.5 tonnes in 2023. This reduction is attributed to energy-saving measures and the use of more efficient heating systems.



Scope 3

Emissions from transportation, business travel, and employee commuting have seen the most significant reduction, from 1851.7 tonnes of CO2 in 2019 to 105.1 tonnes in 2023. This sharp decline was mainly due to the shift from air freight to sea freight, which drastically lowered our shipping-related carbon footprint.



Performance and KPIs

Scope 1 Carbon Footprint: 1.3 tonnes CO2 in 2023, a slight increase from 2022 but a substantial reduction from previous years.

Scope 2 Carbon Footprint: Steady at 8.5 tonnes CO2 for 2022 and 2023, reflecting consistent energy use in our offices.

Scope 3 Carbon Footprint: 105.1 tonnes CO2 in 2023, maintaining the low levels achieved after the transition to sea freight.

KPIs	2019	2020	2021	2022	2023
Scope 1 Carbon Footprint (Tonnes CO2)	6,5	5,2	4,5	1,2	1,3
Scope 2 Carbon Footprint (Tonnes CO2)	16,9	15,4	10,5	8,5	8,5
Scope 3 Carbon Footprint (Tonnes CO2)	1851,7	631,3	69,4	105,5	105,1

Renewable carbon content %

Please find herewith the ratio of plant-derived carbon in the total carbon of the products in below table:

Sisterna F20W	100%	Sisterna SP01-C	100%
Sisterna SP30	100%	Sisterna SP10-C	100%
Sisterna SP50	100%	Sisterna SP30-C	100%
Sisterna SP70	100%	Sisterna SP50-C	100%
Sisterna PS750	100%	Sisterna SP70-C	100%
		Sisterna PS750-C	100%
		Sisterna L70-C	100%
		Sisterna A10E-C	94%

Achievements in 2023

Scope 3 Expansion: We have begun the process of expanding Scope 3 to include emissions from our mother company DKS during the production of sucrose esters.

Stable Carbon Footprint: Despite fluctuations in operational demands, our carbon footprint has remained stable compared to 2022, demonstrating effective management.

Climate-Neutral Initiatives: Small package shipments are now climate-neutral, and our digital Christmas cards reduced the need for physical resources.

Future Goals

Further Carbon Footprint Reduction: Continue efforts to reduce our carbon footprint across all scopes, with a focus on expanding renewable energy use and enhancing efficiency.

Electric and Hybrid Vehicles: Over the next seven years, increase the use of electric or hybrid commercial vehicles to further reduce Scope 1 emissions.

Scope 3 Expansion: Over the next five years, include more detailed emissions data from our supply chain, particularly related to production at DKS.

Sustainable Packaging: By 2028, all packaging used will be sustainable, contributing to lower Scope 3 emissions.

New Sustainable Products: Introduce a new natural, sustainable emulsifier and/or surfactant to our product range, further reducing our environmental impact.

By adhering to this Energy Consumption & GHGs Policy and continually improving our practices, Sisterna is committed to reducing its environmental impact and contributing to a more sustainable future.