



ADVANCES TOWARDS CARBON NEUTRALITY

ITERATIVE PROCESS OF MEASUREMENT AND IMPROVEMENT

As we described in our article “ON THE PATH TO CARBON NEUTRALITY,” UniSpice is in the iterative process of identifying opportunities to reduce greenhouse gas emissions, implementing corrective action plans, and monitoring performance.



Fuente: Elaboración Propia.

With the delivery of the final revised version of the second annual measurement of our carbon footprint (2021-2022), we were able to measure the effect that the initial actions taken after the first measurement (2020-2021) had. Below, we summarize the most notable results from our comparative analysis:

TOTAL DIFFERENCE BETWEEN PERIODS						
OPERATING UNIT	SCOPE 1 (t CO2e)	SCOPE 2 (t CO2e)	SCOPE 3 (t CO2e)	TOTAL EMISSIONS (t CO2e)	%	
FARMS (FOR AGRICULTURAL PRODUCTION)	350.30	17.37	15.26	382.94	33%	
PACKING AND PROCESSING PLANTS	298.75	114.11	-384.92	27.97	1%	
EXTERNAL LOGISTICS (EXPORT)	0.00	0.00	-1,037.52	-1,037.52	35%	-
INTERNAL LOGISTICS (GROWERS AND FARMS)	0.00	0.00	-70.84	-70.84	-6%	
				-697.45	-8%	

The results show a reduction of 697.455 tons of CO2e, i.e., 8% less between the two periods. While the farms and plants show an increase in their footprint, we will explain the reasons below and include measurements based on production volume.

FARMS (AGRICULTURAL PRODUCTION):

The farms increased their annual agricultural production by 37%, a higher percentage than the increase in the carbon footprint (33%). When calculating the unit emission indicator per kilogram produced, a real unit reduction of 3% between periods is reached (see table below):

Indicator	Year 1	Year 2	%
Kgs produced	7,195,999.51	9,867,529.36	37%
kg CO2e/ kg	0.1600	0.1555	-3%

PACKING AND PROCESSING PLANTS:

The packing and processing plants also had a higher carbon footprint, but when conducting a similar analysis as above, a real unit reduction of 9% between periods is reached (see table below):

Indicator	Year 1	Year 2	%
Kgs packed	10,783,768.13	11,516,758.36	7%
Kgs processed	25,871,938.66	29,297,493.01	13%
Total, Kgs	36,655,706.79	40,814,251.37	11%
kg CO2e/ kg	0.0836	0.0758	-9%

LOGISTICS, IMMEDIATE ACTIONS YIELDING SIGNIFICANT EFFECT

Both internal and external logistics implements actions that contributed to significant footprint reductions. Some of the actions that were implemented and/or improved included:

- Increased container occupancy rates
- Improvement in vehicle efficiency
- Alternative modes of transportation for the product
- Reduction in number of trips
- Efficient route scheduling
- Tracking trips, fuel consumption, and vehicle maintenance

As a result, the actions carried out by internal logistics resulted in a 6% annual reduction between periods. Meanwhile, the main action taken by external logistics was to reduce air export by almost 70%, which led to an annual reduction of over 1,0009 tons of CO₂ or its equivalent, representing a 35% reduction between the periods.

NET FINAL BALANCE PER EXPORTED KILOGRAM

When considering the total footprint per period, removing the portion of soil sequestration by farms, and including the total volumes exported per period, the unit emissions per kilogram exported decreased from 0.76 kg CO₂e/kg EXPORT in the 2020-2021 period to 0.59 kg CO₂e/kg EXPORT in the 2021-2022 period, representing a net reduction of 22% between periods.

**BELOW WE SHARE THE
RESPONSIBLE CARBON CERTIFICATE
THAT THE MEASUREMENT
CONSULTANTS EXTENDED TO US:**



Green Development recognizes the organization:

UniSpice

as a Carbon Responsible entity, for having calculated their Organization's footprint at their plants, farms, warehouses, export and import activities, transport of raw materials and goods; from June 2021 to May 2022.

RECOGNITION VALID FROM JANUARY 21, 2023 TO JANUARY 21, 2024

The study was carried out according to ISO 14064, under the guidelines of the Greenhouse Gas Protocol - GHG Protocol -; and the Operational Control approach, considering scope 1, 2 and 3 emissions.

GD grants the following recognition:

Green Footprint ® Carbon Responsible **GD-2023-1096**



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AGREGAMOS
VALOR A LO QUE
USTED MÁS VALORA