CARBON PASS PROGRAM V.1 2023

FORWARDING CARBON FOOTPRINT IN LIVESTOCK AND MEAT PRODUCTION/PROCESSING/DISPATCHING

- I. Value Chain Points (VCP) where Carbon Pass (CP) must be issued to forward verified information of the Carbon Footprint of the product
- 1. Livestock Production: From cradle to farm gate
- 2. Slaughterhouse: From farm gate to dispatching point of slaughtered and packaged meat product (port or airport at the country of origin)
- 3. Dealer: From dispatching point to dealer cold store gate (country of destination).
- 4. Retail (Supermarket/Restaurant): From dealer cold store gate to restaurant or supermarket
- II. General steps to foward Carbon Footprint from one VCP to the next one
- 1. Organization saling Livestock, with third party verified carbon footprint, ask for a Carbon Pass to foward information to slaughterhouse
- 2. LSQA issue Carbon Pass to the slaughterhouse and ask them to fill in the form of the corresponding stage. LSQA audits by assessment of documental registers and data following CP v.1 2023 requirements (see section III).
- 3. LSQA can make no programmed in situ audit to the organization.
- 4. If evaluation is positive, LSQA issue Carbon Pass and Carbon Footprint is fowarded to next stage organization who can also ask LSQA to issue it Carbon Pass to new client in the chain.
- 5. If evaluation is negative the organization can recalculate the data provided until achieve the conformity with CP v.1 2023 requirements (see section III) or decline the option of using the mark of certification provided by livestock producer. No Carbon Pass is issued.

III. Required information to issue a Carbon Pass at each VCP

1. Livestock Production: From cradle to farm gate

Upstream 1 GHG source of emission (UE1)	Core 1 GHG sources of emission and removals (CE1 +Eluc-CR1)	Downstream 1 GHG emission
Production of raw materials and goods (seeds, living cells, fertilizers)	3. Enteric fermentation of Cow for breeding 4. Land Use, Land Use Change due to conversion of seed to vegetal protein 5. Enteric fermentation in producing/fattening livestock (Vegetal protein conversion into animal protein) 6. Nutrients input and recirculation as raw material (Manure management and application of fertilizers) 7. Effluent treatment within the farm 8. Production and consumption of fuels, oils, lubricants, and refrigerants used in operations, cleaning and maintenance, administration, purchase, sales, and marketing 9. Organic carbon sequestration in soil due to grassland management	10. Waste treatment outside the farm

Transportation 1 GHG sources of emission (TE1)

11. Production and consumption of fuels, oils, and lubricants used in transportation to the farm

Compensation 1 (C1)

12. Carbon Credits Units (Verra/Gold S)

Net Balance of Livestock Production (Kg CO2 eq/Kg Livestock) = NBLP

UE1 +	TE1+	CE1+Eluc-CR1 +	DE1 -	C 1=	NBLP
1+2	11	3+4+5+6+7+8-9	10	12	Final* Value Fowarded

^{*}Producer must hold a third party verification of the Carbon Footprinto to require the issue of Carbon Pass and foward information to the slaugtherhouse

2. Slaughterhouse: From farm gate to dispatching point of slaughtered and packaged meat product

Upstream 2 Net Balance of livestock production (NBLP2*)	Procesing and Packaging GHG sources of emission and removals (EPP - RPP)	Downstream 2 GHG emission (DE2)
1. NBLP2	2. Enteric fermentation and manure management of cattle until sacrifice. 3. Effluent treatment within the farm 4. Production and consumption of fuels, oils, and lubricants used in operation, cleaning, maintenance, administration, purchase, sales, and marketing 5. Electricity consumption 6. Refrigerants	7. Waste treatment outside the farm 8. Production and consumption of fuels, oils, and lubricants used in transportation to the Port/Airport (dispatch point)

Transportation 2 GHG sources of emission (TE2)

9. Production and consumption of fuels, oils, and lubricants used in transportation from farm to slaughterhouse and from the point of sale of all significant goods purchased

Compensation 2 (C2)

10. Carbon Credits Units (Verra/Gold S)

*NBLP2 = NBLP x CF

CF= Mass based conversion Factor from Livestock to Packaged Product

CF = Kg Livestock entering the slaugtherhouse/Kg Packaged Product

Net Balance of Processed and Packaged Meat At dispatch point (Kg CO2 eq/Kg Packaged Meat) = NBPP

NBLP+	TE2 +	Epp +	DE2-	C2 =	NBPP
1	9	2+3+4+5+6	7+8	10	Final Value Fowarded

3. Dealer: From dispatching point (port, airport of origin country) to dealer cold store gate (country of destination).

Upstream 3 Net Balance of Processed and Packaged Meat (NBPP)	Transporting and Storage (TS)	Downstream 3 GHG emission (DE3)
1. NBPP	2. Production and consumption of fuels, oils, refrigerants, and lubricants used in transportation from the dispatch point at the country of origin. 3. Effluent treatment within the facilities 4. Production and consumption of fuels, oils, and lubricants used in operation, cleaning, maintenance, administration, purchase, sales, and marketing 5. Electricity consumption 6. Refrigerants	7. Waste treatment outside the farm

Compensation 3 (C3)

8. Carbon Credits Units (Verra/Gold S)

Net Balance of Processed and Packaged Meat

At dealer storage

(Kg CO2 eq/Kg Packaged Meat) = NBDS

NBPP	TS	DE3 -	C3 =	NBDS
1	2+3+4+5+6	7	8	Final Value Fowarded

4. Retail (Supermarket/Restaurant): From dealer cold store gate to restaurant or supermearket

Upstream 4 Net Balance at dealer Storage (NBDS)	Storage 4 (S4)	Downstream 4 GHG emission (DE4)
1. NBDS	3. Effluent treatment within the facilities 4. Production and consumption of fuels, oils, and lubricants used in operation, cleaning, maintenance, administration, purchase, sales, and marketing 5. Electricity consumption 6. Refrigerants	7. Waste treatment outside the farm

Transportation 4 GHG sources of emission (TE4)

2. Production and consumption of fuels, oils, refrigerants and lubricants used in transportation from storage to retail

Compensation 4 (C4)

8. Carbon Credits Units (Verra/Gold S)

Net Balance of Processed and Packaged Meat

At Retail (Kg CO2 eq/Kg Packaged Meat) = NBR

NE	BDS +	TE4 +	S4 +	DE4 -	C4 =	NBR
	1	2	3+4+5+6	7	8	Final Carbon Footprint at retail

IV. Benefits of Carbon Pass

Carbon Pass is an auditable instrument for the Chain of Custody of livestock already certified as "Carbon Neutral" or "Low Carbon."

Provides:

- 1. Environmental Accountability
- 2. Market advantage
- 3. Consumer trust
- 4. Risk Management

V. When is issued the Carbon Pass?

The Producer must ask LSQA to issue the CP each time he sells to a Slaughterhouse intending to use the mark of certification (label) on the packaged final product.

VI. Who provides the information to fill in the Carbon Pass?

The slaughterhouse forwarding information to its client must fill in the forms. Then, LSQA verifies it following an audit process.

If the slaughterhouse also has third-party verification of their carbon footprint for the same period of the slaughtering, then the CP is filled with actual verified data, LSQA review documentation, and may ask for a non-programmed audit following ISO 14064-3. In this case, the CP came with a light green background in the final forwarded data.

Fowarded GHG Emission Information for processed and packaged p	roduct	
Default Values Applied (Implies agreement for the Terms&Conditions of CoC Non Programmed Audit)	No	
Verified Actual Data (Valid only for HCIP&O Certification System with type of CoC selected)	Yes	

NBPP Kg CO2eq /PKg NBPP	0,59
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ANNEX A: Carbon Pass Forms (Stages 1 and 2)

LSQA DEJAMOS HUELLA		https	://www.lsqa.com.uy/Certificacion	nes/Huella-en-Producto
Carbon Pass (CP) for Carbon Ne	eutral Livestock Productio	n		
Applies under HCPG v.1 2022/C			Label Register	
Code Track for Anidated	Raw Materia	al	Slaugtherho I	use
Carbon Pass	Ejemplo	49261	Ejemplo	49570
	Distributor/ Intern	nediate	Final Selling F	oint
Date of Issuance of Packaged Product CP	12/04/23		Date of Issuance Livestock CP	09/01/22
Supplier			Receiver	
Name	Ejemplo		Name	Fill in the name of client if available
Addres	_		Address	
Address	_			
Certification : HCIP&O v.1	•			
Certificate Re			Contract Number (if	available)
Certificate Re	Egistei		CONCRECT NUMBER (II	a. a.iabicj
Dispatch/Shipping Point (DP)	Montevideo International Port			
Receiving Point, if available (RP)	Ej. MIA Intl Airport		Terrestrial Transport to DP	yes
Estimated date of dispatch	Ej. 05/30/2023	•		
General Information	2): 30/30/2020			
Type of Product (P)	Carbon Neutral Meat		Type of Chain of Custody (CoC)	Physical Segregation
Type of Raw Material (RM)	Carbon Neutral			
Type of Naw Waterial (NW)	Livestock	-		
Additional Information				
Country of Origin of Raw Material	Uruguay			
Quantity of Raw Material Processed	44100	Liveweight k	(g (LWKg)	
Quantity of final product packaged	22932	Packaged Pr	oduct Kg (PKg)	
Quantity of Packaged Product Dispatched in this Order	14523	Dispatched F	Packaging Product Kg (PKg)	Conversion Factor Kg Livestock to Packaged Product Kg
Net verified CO2 eq balance Livestock Production (Farm Gate) NBLP	FALSO	Kg Co2 eq/L\	NKg	1,92

The Raw Material complies wit	h the requirements of the	Certificatio	n System for the Type of Raw	
Material declared				
If Yes please indicate wich standard are involved and third party verication organization who verified	ISO 14064-1; INTE B5, ISO 17065 and HCPG v.1 2022	LSQA		yes
The Quantity of the Raw Mater LSQA	ial Processed is available	in the Stock	Certifacted Livestock Register of	yes
The impact for the transportati fowarded information received		_	erhous was taken into acount in	no
r	IBLP= UE1+TE1+CE1+Eluc	-CR1+DE1-C1		
	oduction of seeds, living cells, fertilizers, electricity production and distribution)		UE1	0,013
land use, (seed to vegetal protein), enteric fermer (Vegetal protein conversion into animal prote	in), nutrients input and recirculation as inagement and application of fertilizers) fuction and consumption of fuels, oils,	Kg CO2eq /PKg	CE1	0,38
Eluci	Emission from land usechangeat farm	Kg CO2eq /PKg	Eluc	0,00
CR1=Core Removals from Organic Car	bon Sequestration in Soil due Grassland management		CR1	-0,48
DE1 = Farm DownstreamGHG emission d	ue to waste treatment outside the farm	Kg CO2eq /PKg	DE1	0,00
c	1 = Carbon Credits Units (Verra/Gold S)	Kg CO2eq /PKg	C1	0,00
TE1 = Emission from farm upstream transporta fuels, oils and lubrica	tion: Production and consumption of ints used in transportation to the farm	Kg CO2eq /PKg	TE1	0,001
	NBLP	Kg CO2eq	NBPL	-0,090

ANNEX A: Carbon Pass Forms (Stages 1 and 2)

3. Fowarded GHG Emission Information for processed and packaged product				
Default Values Applied (Implies agreement for the Terms&Conditions of CoC Non Programmed Audit)			No	
Verified Actual Data (Valid only for HCIP&O Certification System with type of CoC selected)			Yes	
Type of transportation				
To the Slaugther House	Terrestrial	To the dispatching point	Terrestrial	
NBPP= Net Balance of Processed and Packaged Meat At dispatch point	Dispatch point (port/airport)	Ton CO2 eq /PKg	0,59	
NBPP= NBLP+TE2+Epp+DE2-C2				
Epp = Enteric fermentation and manure management of cattle until sacrifice, Effluent treatment within the farm, Production and consumption of fuels, oils and Kg CC lubricants used in operation, cleaning, maintenance, administration, purchase, sales, /PKg and marketing, Electricity consumption, Refrigerants			Ерр	0,32
DE2 = Production and consumption of fuels, oils a	and lubricants used in transportation to the Port/Airport (dispatch point)		DE2	0,02
	upstream transportation of livestock	Kg CO2eq /PKg Kg CO2eq	TE2 C2	0,34
/PKp Kg CO2eq NBPP /PKg			NBPP	0,00 0,59