



RTZ Plan & Pledge - FAMILIA TORRES (Miguel Torres SA)

2030 TARGET: 60% reduction vs 2008 2040 TARGET: NET ZERO Done by: Climate Change Department - MTSA Date: 15th June 2023

Target Setting Baseline Year & Carbon Footprint: 2008 - 104.779 MTCO2e

Transition Plan Baseline Year & Carbon Footprint: 2021 - 60.095 MTCO2e

According to our comittment to Science Based Target Initiative (SBTi) and the SBTI's FLAG Protocol, Net Zero means: 72% reduction on all three Greenhouse Gas emissions Scopes (including - This Transition Plan will be reviewed on a 5-year cycle, in line with the Paris Agreement -

Familia Torres (Miguel Torres SA) Transition Plan High-Level Summary Towards 2030							
	Initiative Description	Planned Emissions Redu	ctions (MTCO ₂ e) vs 2021	Up Front Capital	Detail on How Activity will be	How Activity Differs from Business as Usual	
	(Also include actions to phase out non-	(Specify whether within Value	e chain/territory or additional	Investment	Financed	(with sustained increases in non-fossil CAPEX and/or	
	CO ₂ gases other than methane)	contributions to	Global mitigation)	(In local currency)		investmetnt in non-CO ₂ GHG reduction)	
		Internal (Scope 1,2)	External (Scope 3)				
	Avoiding land use change	1 209		N/A	N/A	N/A	
		1.200		1ME 3ME	Potentially partially subsidized	Regenerative Viticulture implies less kilometers	
				INE - SNE	Potentially partially subsidized.	Regenerative viticulture implies less kilometers	
					heeked the first unit		
					booked the first unit.	is necessary. Electrical trators are more	
2	Electric Tractors & Minimize km	408	95			Suitable for a regenerative viticulture approach,	
	Electric Tractors & Finimize Rin	400	50	nonding full study	N1/A		
				pending full study	IN/A	energia but not entially induce fluerate gas	
						lookagee Working with cold water evoids such	
	Replacement of cooling F-gas systems					leakages although its operation and	
3	by cooling water	257				maintananaa is mara difficult	
		201		NI/A (leasing plan)	NI/A	Instruction of the second complexity to ensure appropriate	
	Electric fleet (corporate & sales			N/A (leasing plan)		charging points at the bouseholds. Eamilia	
4	agents cars)	89	23			Torros alroady counts with 50 abarging points	
'	agentes carsy	00	20	140,000€ 200,000€	NI/A	Applying a circular aconomy of the main	
	Carbon Capture from fermentation			140.000€ - 200.000€	IN/A	winory, which reduces the amount of CO2	
5	and Beuse (CCR) as inert gas	33				hought to a third party which comes from fassil	
	Bask up Natural Cas Bailan	00		400,0006, 800,0006	NI/A	bought to a third party which comes north lossi	
	Back-up Natural Gas Boller			400.000e - 800.000e	IN/A	N/A	
6	Optimization	264	45				
				4,5M€ - 6M€	Potentially partially subsidized,	Solar power is not anymore installed in flat	
					but very limited.	rooftops but in more complex spaces,	
	Increased solar energy self-					increasing project costs. Also batteries will be	
	consumption -> target 55%					needed to avoid excess electricity flowing into	
	electricity celf consumption by 2020					the public grid. Some projects will be installed	
_	electricity self-consumption by 2030					in places that help reduce the solar radiation in	
7	at Pacs del Penedes winery	652				the winery, thus helping reduce energy	
				N/A	N/A	Strengthening the link with our glass suppliers	
						to apply very light weight wine bottles in our	
						portfolio. Currently, the average is already	
	Glass bottles weight reduction +					below 420gr/bottle. Some of our 75cl weight as	
	reutilization opportunities + reduced					low as 370gr. Currently testing reutilization	
	reduced		5.074			schemes (Rebo2vino project). Electric glass	
•	carbon tootprint of our suppliers.		5.374			melting ovens are already under construction.	
	Distribution & supply : increasing			N/A	N/A	Our clients choose the distribution modality,	
	loading capacity, bulk wine					the train Dulk wine also struct them to choose	
	operations, railway prioritization &					the train. Bulk wine also saves emissions since	
9	suppliers own improvement.		2,425			In avoius sending glass dotties	
	Grape suppliers: regenerative			N/A	N/A	N/A	
			1 0 2 2				
10	viticulture, fuer reduction, etc.		1.033				
	Regenerative Organic Viticulture			N/A	N/A	Regenerative viticulture will little by little	
	CO2 reduction of fortilizors	106	256			Improve soil tertility, thus reducing the by 30%	
<u>⊢ 11</u>	CO2 reduction of leftilizers	100	200			the need of organic tertilizers in the mid-term.	
	Planting in gobelet system instead of			IN/A	N/A	the distance made by the tractor. More man	
	the distance of system instead of		450			labor is needed	
12	traditional trellising systems		159				
	Reforestation effort on own land in			2,75M€ - 3,75M€	N/A	Investing in our own land but not for production	
	Chile and Spain [Natural based					purposes. Instead, reforestation seeks to	
	conte and opant [reaction based		0 400			capture CO2 from the air, since trees are the	
13	solutions		8.196			perfect machine to do so	
	Regenerative Viticulture CO2			N/A	N/A	It implies a holistic approach of organic	
	sequestration in our own vinewards					viticulture which not only considers the organic	
I.	ENetwork based color	600				principles but the soil health and regeneration.	
14	[Natural based solutions]	000				Considered 0,5 I n/ha absorbed every year	

Metrics & Targets Timeline

[Initiative Detail	Implementation	Year I	Year 2-3	By 2030	By 2040
	(include Metrics & Targets)	Teams/Departmental	(Plans for measuring & monitoring		,	
	, <u>,</u>	Leads	progress)			
		Viticulture Department	Expecting 15% reduction -> just need to	Expecting 33-46% reduction -> just	Expecting 100% reduction -> just need	N/A
	 		maintain avoiding land use change	need to maintain avoiding land use	to maintain avoiding land use change	
	Avoiding land use change (MTCO2e: timeline: 2023-			change		
	2030)					
2		Viticulture Department /	Expecting 8% reduction due to acquiring	17% reduction while applying first set of	75% reduction expected	100% reduction expected given that all
	 	Engineering Dept / Climate	1-2 electric tractors + reducing the km	electric tractors and regenerative		electric tractors will be powered by
	Electric tractors & Minimize km (MTCO2e: timeline:	Change Dept	regenerative viticulture approach.	viiculture approach.		renewable energy only.
	2023-2030					
3		Enginering Department	Expecting 6% reduction	11% to 17% reduction in emissions	50% reduction expected	We expect to get rid of 100% cooling F-
	 			derived from F-gas leaks		gases causing global warming thanks to
	Per-lacement of cooling E gas systems by cooling					technical improvements and upgrading
	water (MTCO2e: timeline: 2023-2030)					current crimera.
4	water (i'll COZe, dimenne. 2025-2050)	Purchasing Department	Expecting 14% reduction	26% to 39% reduction on emissions if	90% reduction expected. Some all	100% reduction
· '				kilometrage is maintained stable.	wheel drive heavy field vehicles might be	
					maintained diesel.	
	Electric fleet (corporate & sales agents cars)					
-	(PTCOZe; timeline: 2023-2027)	Enginering Department +	Expecting 33% reduction	Expecting 66% reduction	Expecting 100% reduction	We expect to develop ways to transform
1		Climate Change Department	Expediate of the folder of the	Expediate of the reduction	Exposing foore foundation	CO2 into other products like sodium
		+ Winemaking Department				carbonate and reduce the carbon
	Carbon Capture from fermentation and Reuse as					tootprint of our glass providers thanks to our fermentation CO2
	inert gas (MICO2e; timeline: 2023-2030)	Engineering Department	Exposted reduction of 0.5% of the	N/A	Supplifying of the Natural Cas Pailor by	Exposted 100% reduction of the
6	 	Engineerign Department	Natural Gas emissions	N/A	an additional biomass boiler or biogas	emissions related to the heating
					bioler. Expected 95% reduction	demand of the winery by using biogas
	Back-up Natural Gas Boiler Optimization)					and/or increasing the biomass capacity.
	(MTCO2e; timeline: 2023-2030)		F	En alla otto Data la la	Free days 5400 Declaration	1000/
1	 	Engineering Department	(although all electricity purchased by	Expecting 21% Reduction	Expecting 51% Reduction	efficient storage solutions, or using the
	Increased solar energy self-consumption -> target		MTSA comes from renewable certified			grid as backup
	55% electricity self-consumption by 2030 at Pacs del		sources already, but we don't consider them 0 emisions)			
	Penedes winery (MTCO2e; timeline: 2023-2030)	Dente in Dente in		E	En 100/ en la l'anna	Free dia 7500 and a line of the
8		Product Engineering +	greenhousedas emissions	greenhousegas emissions	greenhousegas emissions	emissions related to packaging material
	Glass bottles weight reduction + reutilization	Marketing + Quality	ľ	с с С	· · ·	thanks to electric furnaces installed at
	opportunities + reduced carbon footprint of our	Departments				the glass factories.
	suppliers. (MTCO2e; timeline: 2023-2030)	La della Danata anti-	En 10/ De berlie	En 150 De testin	Franking OFN(De berling	Free 4 1 50 70%
9	Distribution & supply : increasing loading capacity,	Supply Chain Dept / Sales	Expecting 1% Reduction	Expecting 1-5% Reduction	Expecting 25% Reduction	emissions related to distribution thanks
	bulk wine operations, railway prioritization &	Dept / Winemaking Dept /				to electrification, synthetic fuels etc. This
	suppliers own improvement. (MTCO2e; timeline:	Quality Dept				an estimate that will be updated
	2023-2030)		En la coloria de la coloria	En 1 00/ De testin	5	logistic sector
10	 	Viticulture Department	Expecting 2% Reduction	Expecting 4-6% Reduction	Expecting 10-15% Reduction	emissions related to grape suppliers
	1					thanks to regenerative viticulture and its
	Grape suppliers: regenerative viticulture, fuel					potential to sequester CO2.
	reduction, etc. (MTCO2e; timeline: 2023 - 2030)					
П	1	Viticuiture Department	Expecting 3% Reduction	Expecting 7-10% Reduction	Expecting 30% Reduction	Expected 80% reduction of the emissions related to fertilizers due to soil
	1					regeneration
	Regenerative Viticulture CO2 reduction of					
	fertilizers (MTCO2e; timeline: 2023-2030)					
12	 	Viticulture Department	Expecting 3% Reduction	Expecting 7-10% Reduction	Expecting 30% Reduction	Expected 50% reduction in emissions
	1					
	Planting in goblet system instead of traditional					
	trellising systems (MTCO2e; timeline: 2023-2030)					
13		Miguel Torres Chile	Expecting 1032 MT absorbed by the grov	Expecting 1572 - 2400 MT CO2 absorbed by the growing trees	Expecting 8.196 MT CO2 absorbed by the growing trees	Ottsetting remaining emissions with
	Reforestation effort on own land in Chile and Spain	Care and Dopartomolic		by the growing troop		
	[Natural based solutions] (MTCO2e; timeline: 2023					
	2030)					
14		Viticulture Department	Expected low-to-neglectable sequestration	Expecting 100 MT CO2 sequestred	Expecting 600 MT CO2 sequestred	Offsetting remaining emissions with
	Regenerative Viticulture CO2 sequestration in our					sequestration to react her zero
	own vineyards [Natural based solutions] (MTCO2e;					
	timeline: 2023-2030)					

Transition Plan Detail							
					Steleholden Frenzen		
Initiative	Foundations (ambition & strategy including feasbility)	Processes (what actions are taken & how decisions are made to reduce emissions)	Policies (sectoral policy, plans for lobbying & engagement)	Accountability (clear governance structures, disclosure, performance incentives etc.)	Stakeholder Engagement (clients, counter-parties, industry peers, regulators, industry associations, consumers, etc.)		
Avoiding land use change	Planting a new vineyard has a significant impact if there is some land use change involved. Knowing that deforestation is one of the biggest causes of global warming, our plan is to avoid any kind of land use change. Instead, regementative viticulture is applied to regenerate existing vineyards reducing the impact of potential previous land use changes.	Potential land use changes are restricted under our biodiversity policy.	Negative land use changes are considered. We expect to be able to take into account positive land use changes as well (regeneration of green areas).	The GIS tools allows us to demonstrate any land use change to auditors	We strongly recommend this same practice to our grape suppliers.		
Electric Tractors & Minimize km	Our aim is to switch to electric tractors as soon as possible. Unfortunately the test we ran with European models were not 100% satisfactory. We expect to be able to purchase cutting edge models by the end of the year onwards	Electric tractors imply a different approach to viticulture practices. This is totally aligned with the regenerative viticulture approach we follow, where only a little surface operation is needed which means less power necessary on the tractor and therefore less battery need, less	We've made lobby to include electric tractors inside the plans for electrifying vehicles (MOVES3 in Spain)	Following our electric vehicles politicy, tractors will follow the same approach	We've done severalt tests and booked our first electric tractor. We'll share the experience with other wineries from the Spanish Wine Federation (FEV) and International Wineries for Climate Action (IWCA)		
Replacement of cooling F- gas systems by cooling water	Full F-Gas replacement is a tricky goal, since small equipments are rarely proposed in non- Fgas options. But this is expected to change in the years to come given that European laws will ban their use in the near future. Our strategy is to replace the remaining F-gas equipment we have by water-based systems that run with our absorption machine or ammonia coolers, expecting to phase out F-gases by no later than 2040	We're replacing old F-gas based compressors by new ones with lower GWP (Global Warming Potential) so that in case there is a leakage the impact is much lower. The biggest cooling demand in the wineries are covered with either an absorption machine or by ammonia chillers, both with no GWP.	On April 2022, the European Commission presented a proposal for a regulation on fluorinated greenhouse gases (F-gases) that would repeat the current F-gas Regulation. The proposal aims to reduce F-gas emissions further. It would change the existing quota system, gradually reducing the supply of hydrollourocathons (HFC) to the EU market to 2.4 % of 2015 levels by 2048. It would also ban F-gases in specific applications.	F-gas leakages are audited annually on the different ISO venifications (ISO4064, ISO50001, ISO14001) in our main winery in Pacs del Pendes.	We cannot lobby on such EU laws, but we must remain attentive to the new cooling solutions in order to install the right equipment for it to last as fong as possible while ensuring the minimal GWP as possible.		
Electric fleet (corporate & sales agents cars)	We've been pioneers in hybrid and plug-in hybrid vehicles with a strong internal policy to make it possible. This reality served as a training while waiting for the electric cars boom. Right now we count with 50 charging stations in all Familia Torres facilites.	The renting policy has been modified in order to ensure electric cars are being deployed. Some exceptions are still accepted since not always is possible to install a charging point a the driver's house. However, we also have a carsharing service for employees based only on electric cars.	We've taken advantage of the MOVES3 subsidies and continue to make lobby so that more charging stations are installed in Spain. We've set up together with other wineries the so-called wine road "Carretera dei v" where visitors can rent an electric car and charge in any of the wineries of the circuit.	The renting internal policy already includes the allocation of electric cars to our employees.	We've been testing all new electric models in order to offer the best-in-class vehicles for our drivers. Visitors can charge their electric cars in our visitors center (4 charging stations)		
Carbon Capture from fermentation and Reuse (CCR) as inert gas	Fermentation CO2 is pure, neat, biogenic, and is part of the atmospheric carbon cycle. We are not adding more carbon to the atmosphere by making wine. Instead it is a big opporturity for us to capture this CO2 and reutilize it. We've been testing for many years and finally we brought into reality an effective carbon capture and reutilization solution that we expect to scale up. Another opportunity under study is to transform CO2 into sodium carbonate which is an ingredient for glass.	Substituting CO2 sourced from gas companies (from fossi sources) by our own CO2. We apply this technique to our fermentation tanks in collaboration with the winemaking team.	CCR is necessary to reach the Paris Agreement below 1.5 degrees. Wineries can help reach this target by capturing it in a fearly easy way (much easier than capturing it from the air where the concentration is minimal).	We must capture the CO2 making sure that the entire process will be carbon negative, the goal is to reduce emissions, not to capture CO2 and release it again.	Universities, technical insitutions, suppliers have been working with us to develop different methods to capture and reutilize CO2. We have shared our findings with other wineries from the Spanish Wine Federation and International Wineries for Climate Action		
Back-up Natural Gas Boiler Optimization	To reduce fossil fuel use. Natural gas is our back-up energy and we target ways to reduce its consumption after having already installed a biomass boiler.	Optimization systems such as economizers to reduce natural gas consumption.	N/A	The ISO50001 (energy efficiency) covers every year all the energy consumption of our main winery in Pacs del Pendes, continously seeking the right use of energy consumption.	N/A		
Increased solar energy self-consumption -> target 55% electricity self- consumption by 2030 at Pacs del Penedes winery	Familia Torres has impliemented solar power self-consumption in all its wineries. Our first solar array was installed in 2008. Today our strategy is to build up the % of self- consumption in Pacs del Penedes winery up to 55% by 2030 (70% including biomass energy)	Installing solar energy while increasing radiation avoidance effect (implementing solar panels above the fermentation tanks).	Policies have changed and are nowadays quite favourable to solar power projects. Solar power deesn't need subsidies to become profitable. We lobby to reduce the time spent to get the project approvals.	Our figures are audited. IWCA is monitoring the % of self-generated energy at the winery.	We've been promoting solar power inside and outside the wine sector, organizing conferences and events next to the Spanish Photovoltaic Union (UNEF).		
Glass bottles weight reduction + reutilization opportunities + reduced carbon footprint of our suppliers.	We've reduced the weight of our glass bottles but this has a limit. Therefore while we keep working with our providers to reduce their emissions and the weight of our bottles, we test reutilization schemes as a partial solution for our packaging emissions.	Working with the glass supplier makes us able to work with the ightest bottles available while ensuring mechanical resistance and food safety.	We've raised awareness about the need to accept light weight bottles and fight the old- fashioned thinking that links heavy bottles with wine quality.	Every bottle restyling or new model must take into account the weight of the bottles.	We know some markets are more keen to embrace reusing schemes such as those where the wine is only sold in state owned shops and where the consumers are more conscious about climate change. We participate in sectorial projects involving federations, suppliers and clients (retailers and restaurants) and other wineries, to build successful and orthible returnable schemes.		
Distribution & supply : increasing loading capacity, bulk wine operations, railway prioritization & suppliers own improvement.	Distribution is one of the most difficult areas for us to reduce emissions given that it is the client the responsible to select their preferred logistics solution. Hence, our strategy is to engage our clients into group conversations with IWCA (International Wineries for Climate Action) and find ways to choose the lowest emitting solutions. Logistic operators themselves have also storog GHC seduction	We work with retailers to switch from truck convoy to railway. We're selling in bulk in some markets, lowering the distribution carbon footprint by avoiding the weight of the glass bottles.	Limits for trucks and other heavy-duty vehicles were adopted in June 2019 by the European Comission. New rules will require manufactures to cut CO2 emissions from new trucks (compared with 2019 levels) on average by 30% from 2030.	Distribution made by truck accounts for 52% of our good's ditribution GHG emissions.	Given that most logistic operators are big companies, the role of WCA (International Wineries for Climate Action) is expected to be key in order to rise our voice to ask for greener distribution, targeting both logistic operators and clients, so that the latter can ask for the greenest solution available.		
Grape suppliers: regenerative viticulture, fuel reduction, etc.	Hundreds of grape suppliers bring grapes to Miguel Torres winerise every harvest season, some of them have a long-lasting relationship spanning several generations. We ask our grape suppliers key data to calculate their carbon footprint, and we give them recommendations on how to reduce it.	Tips and recommendations are being shared every year with all our grape suppliers. We act as the example to be followed, applying organic regenerative witcluture techniques in our vineyards and sharing the lessons learnt with our suppliers. The regenerative approach lowers the carbon fociprint of viticulture teaks.	We expect to see regenerative viticulture being taken into account by the administration bodies including subsidies and in the PAC (common agriculture policy) in the near future to promote its implementation.	The data from our suppliers is obtained via a survey document that is serie tvery year including question about regenerative viticulture approach.	The Regenerative Viticulture Association we cofounded is pushing forward the exchange of knowledge among grape producers and just released a regenerative viticulture certificate.		
Regenerative Organic Viticulture CO2 reduction of fertilizers	The regenerative approach is expected to lower the amount of organic fertilizer needed in the vineyard (which is already quite low compared to other crops) that produce nitrogen oxides when applied.	increasing the organic matter of the soli makes it more fertile, which must be managed appropriately to ensure high quality grapes. Some specific cover crops between the rows can act as nitrogen fixators.	taken into account by the administration bodies including subsidies and in the PAC (common agriculture policy) in the near future to promote its implementation.	(around 600ha this year) following the regenerative viticulture association certificate, which has been created in collabotarion with a group of well known experts and scientist.	The regenerative viticulture Association we cofounded is pushing forward the exchange of knowledge among grape producers and just released a regenerative viticulture certificate.		
Planting in gobelet system instead of traditional trellising systems	Planting vines in "Goblett" prevents grapes from receiving to much sullight and heat. We are planting more and more Gobelet to adapt to climate change but this has also a positive impact on emissions given that the vines must be harvested manually, hence less emissions from tractors are involved. Also no trellising is needed, reducing further the carbon footprint. This is an emergence manufacture to an	Most new plantations or re-planting include vines in Gobelet. Especially those with higher added value.	N/A	NA	N/A		
Reforestation effort on own land in Chile and Spain [Natural based solutions]	Ins is a greenhouse gas emissions in-setting approach. Knowing that the simplest way to fight climate change is sequestering CO2 from the air, there is no better machine to do so than trees and plants. We plant in our own land and we conduct and monitor the project ourselves, supported by experts and national institutions.	We own iand in Chile whose main use is to capture CO2 from the air. We've planted trees and replanted those that didn't survive (common survival ratio around 60%). The project is verifies by a third party the plantations and its continous growth.	We ve participated as plot companies in the GHG Protoco's Land Sector and Removal Guidelines to ensure that such projects are aligned with the international standards.	Our reforestation projects are vernied by an external forestal expert and verified by ISO14064 accredited auditors.	The stakeholders of these projects are society in general but also local people. We develop these projects as a way to increase the carbon sink capacity of our planet to mitigate climate change.		
Regenerative Viticulture CO2 sequestration in our own vineyards [Natural based solutions]	Regenerative viticulture consists of increasing the amount of organic matter in the soil while improving soil health (micro-biodiversity); nutrients) and structure. This has many benefits but also the capacity to sequestere and store atmospheric CO2 into the soil. According to literature, we can expect at least 0,5TnCO2/halyear.	Since 2020 we've embraced this approach turning our vineyards, already organic, into regenerative by applying a holistic way of working. Currently, we manage 600ha of organic regenerative vineyards in Catalunya in which we reduce the tillage, we apply cover crops between the vine rows (or leave them grow spontaneously), reintroduce prunning shoots and apply animal fertilization.	We expect to see regenerative viticulture being taken into account in regional campagins including subsidies and in the PAC (common agriculture policy) in the near future to promote its implementation. But also we expect GHG Protocol and the European Comission to set up a standard by hich we can justify the amount of carbon sequestered by means of the regenerative approach.	We are certifying out regenerative vineyards (around 600m this year) following the regenerative viliculture association certificate, which has been created in collabotarion with a group of well known experts and scientist. We don't account yet the CO2 sequestration given that there is no clear standardized way to do so. But we conduct our own measures and tests to demonstrate the improvements on our soils carbon absorption capacity.	The Regenerative Viticulture Association we cofounded just released a regenerative viticulture actificate. This is very useful for those clients that consider regenerative viticulture as a way to fight climate change, increase vines resiliency to climate and protect the environment and biodiversity of the vineyards. We share our findings with our grape suppliers, other winey members of the Regenerative Viticulture Association and International Wineries for Climate Action		