REBUILT

RESULT 3 – A1 –

Company Name:	Chillax Yachting MCPY
Professional sector and	Maritime Company for Pleasure Yachts
company size:	
Need/problem/challen	Sustainable Charter Practices/Eco-Friendly Itineraries Waste Reduction and
ge addressed:	Recycling:
Sort presentation of the	Established in 2019 and based in the waters of Greece, Chillax Yachting is a
company:	premier yacht charter company committed to delivering maritime
	experiences. Specializing in exclusive charters company's goal is to provide
	charters for any occasion
Initial Process and CO2	Initial Business Practice:
Emission Profile (tools,	In the initial stages of our operations, Chillax Yachting utilized a motor
methodologies,	yacht equipped with two marine engines, each boasting a power output of
theories, references):	740 horsepower, using diesel as burned fuel. The fuel consumption and
	subsequent carbon emissions were significant considerations, prompting a
	detailed analysis of the emission profile associated with the yacht's
	operation.
	Tools, Methodologies, and References:
	To quantify the CO2 emissions accurately, we relied on data and
	methodologies endorsed by the International Energy Agency (IEA), a
	reputable international organization providing comprehensive energy
	statistics and analysis. The IEA's guidelines and emission factors were
	utilized as a benchmark for our calculations.
	• Wotor Yacht Specifications:
	discal fuel during this initial pariod. The fuel consumption rate is
	approvimately 2001t/b
	CO2 Emission Profile Calculation:
	The calculation of the CO2 emission profile involved multiplying the fuel
	consumption rate per hour by the carbon emission factor for diesel fuel
	which is typically around 2.68 kg/L (recommended by IFA):
	CO2 Emissions per Hour=Fuel Consumption Rate × Carbon Emission
	Factor
	Given the numbers above. So the COS emission per yacht's operating hour
	is
	2 (as there are two machines) X 200lt X 2.68 kg/lt = 1072 kg.
	Moreover a weekly charter includes approximately 180 nautical miles (8,6
	hours machine operating hours), so a weekly charter's CO2 emission is
	approximately 8,6hX 1072 kg/h = 9.189 kg
Strategic Decision of	In pursuit of our commitment to environmental sustainability and
the company:	minimizing our carbon footprint, Chillax Yachting has made a strategic
	decision to transition from motor yachts to sailing yachts for our charter
	operations. This decision reflects a holistic approach to new process

	management and aligns with our dedication to responsible and eco-friendly		
	maritime practices.		
	Key Elements of the Strategic Decision:		
	Reduced Horsepower and Fuel Consumption: Sailing yachts		
	inherently have significantly lower horsepower marine engines		
	compared to motor yachts. This strategic shift directly translates to		
	a substantial reduction in fuel consumption, leading to a marked		
	decrease in carbon emissions during charters.		
	• Leveraging Wind Power: Sailing yachts utilize wind power for		
	propulsion, capitalizing on the abundant wind resources in the		
	Greek sailing areas. Approximately 80% of the itinerary, covering		
	substantial distances, is now navigated using the power of the wind.		
	nis results in a considerable reduction in the reliance on motorized		
	propulsion systems. This strategic shift significantly influenced and reduce the main rates and		
	factors of CO2 Emission		
Process reengineering	Chillay Vachting has undertaken a comprehensive process reengineering		
on selected waste	initiative focused on minimizing, not only CO2 emission but also waste		
(resources,	generated during charters, with a specific emphasis on waste reduction		
methodologies, tools):	and recycling. This innovative approach involves multiple facets.		
	1. CO2 emission reductions:		
	Although Chillax has made a shift to sailing yacht reducing CO2 Emission		
	continuously applies environmental processes against CO2 emission		
	Sentinel Telemetry System: Installation of the Sentinel telemetry		
	system for remote vessel monitoring, ensuring that the vessel's		
	speed remains below 2000 rpm to optimize fuel efficiency and		
	minimize CO2 emissions.		
	Client Education and Speed Management: Client education		
	programs to discourage high-speed requests, encouraging		
	responsible speed practices for fuel efficiency.		
	Promotion of Sailing Experience: Encouraging guests to become		
	familiar with sailing, providing sailing tutorials, and promoting the		
	enjoyment of destinations at a more leisurely pace		
	Resources involved: lechnical team, Crew training on system usage.		
	Tools Used: Sentinel telemetry system. Crew training materials		
	educational brochures, sailing training materials, onboard demonstrations		
	2. Waste Segregation and Recycling		
	Recycling Bin Placement and Signage: Strategic placement of		
	recycling bins in accessible areas. clear signage for waste		
	segregation.		
	Recycling Education and Awareness: Conducting briefings and		
	educational sessions for guests on responsible waste disposal		
	practices.		
	Recycling Volume Monitoring: Regular monitoring of waste		
	generation and recycling volumes.		
	Eco-Friendly Products Implementation: Adoption of reusable		
	shampoo containers, eco-friendly straws, and other sustainable		
	alternatives.		

	Water Abundance	e through	gn Desalination: Utilization	of a	
	desalination system for abundant freshwater production,				
	eliminating the need for guests to purchase single-use plastic				
	water bottles.				
	Resources Involved: Procurement team, crew education on eco-friendly				
	products, data analysts, onboard waste management team, educational				
	materials for guests,			<i>.</i> .	
	Tools Used: Visual commun	lication	tools, eco-friendly material	for signage,	
	specialized recycling bins, onboard, periodic waste audits, advanced				
	desalination technology, pr	ocureme	ent guidelines emphasizing		
De engineering		program	115		
Re-engineering	Emission Profile Improvement:				
Emission profile	Chillax rachting s re-engineering efforts have yielded a significant reduction				
improvement and other	In the carbon emission profile associated with our yacht charters. The				
success evidence:	application of new processes and sustainable practices has resulted in a				
success evidence.	noteworthy decrease in CO2 emissions.				
	implementation of eco-friendly measures have collectively contributed to a				
	more environmentally friendly operation				
	The comparison between a	Motor V	Yach and a Sailing Yacht is		
	comprehensively explained	l as follo	w for		
	Weekly charter: 180 nautic	Weekly charter: 180 nautical Miles			
	Carbon Emission Factor for	diesel (kg/l):2.68 kg		
	Sailing Yacht – Percentage using engine 20%				
	Sailing Yacht weekly charter nautical miles using engine:36 hours				
	Motor Yacht				
			Carbon Emissions per		
	Operating Hours	8,6	Carbon Emissions per Hour per machine	536	
	Operating Hours	8,6	Carbon Emissions per Hour per machine Carbon Emissions per	536	
	Operating Hours Cruise speed	8,6 21	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht	536	
	Operating Hours Cruise speed Fuel Consumption Rate	8,6 21	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly	536 1.072	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h):	8,6 21 200	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg)	536 1.072 9.189	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h):	8,6 21 200 Sail	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg)	536 1.072 9.189	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h):	8,6 21 200 Sail	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per	536 1.072 9.189	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h):	8,6 21 200 Sail	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine	536 1.072 9.189	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours	8,6 21 200 Sail 5,1	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine	536 1.072 9.189 26.8	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours	8,6 21 200 Sail 5,1	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht	536 1.072 9.189 26.8	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Pate	8,6 21 200 Sail 5,1 7	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly	536 1.072 9.189 26.8 53.6	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (ECR)(L/h):	8,6 21 200 Sail 5,1 7	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg)	536 1.072 9.189 26.8 53.6 275 66	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h):	8,6 21 200 Sail 5,1 7 10	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg)	536 1.072 9.189 26.8 53.6 275,66	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Quantifiable Emission Reduction in carbon omission	8,6 21 200 Sail 5,1 7 10 uctions:	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) The sailing yacht demonstr	536 1.072 9.189 26.8 53.6 275,66 ates an 97%	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Quantifiable Emission Redu reduction in carbon emission	8,6 21 200 Sail 5,1 7 10 <i>uctions</i> : ons com	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) The sailing yacht demonstre pared to the motor yacht for	536 1.072 9.189 26.8 53.6 275,66 ates an 97% or the same	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Quantifiable Emission Redu reduction in carbon emission charter distance. This quantication of our re-operations	8,6 21 200 Sail 5,1 7 10 <i>uctions:</i> ons com tifiable i	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) The sailing yacht demonstre pared to the motor yacht for mprovement showcases the efforts in minimizing enviro	536 1.072 9.189 26.8 53.6 275,66 ates an 97% or the same e	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Quantifiable Emission Redu	8,6 21 200 Sail 5,1 7 10	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) The sailing yacht demonstr	536 1.072 9.189 26.8 53.6 275,66 ates an 97%	
	Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Operating Hours Cruise speed Fuel Consumption Rate (FCR)(L/h): Quantifiable Emission Redu reduction in carbon emission charter distance. This quanting the second sec	8,6 21 200 Sail 5,1 7 10 <i>uctions</i> : ons com tifiable i	Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) ing yacht Carbon Emissions per Hour per machine Carbon Emissions per Hour per yacht Emission per weekly charter (kg) The sailing yacht demonstre pared to the motor yacht for mprovement showcases the efforts in minimizing enviro	536 1.072 9.189 26.8 53.6 275,66 ates an 97% or the same e	

CHIL-2673				
Please identify the	Chillax Yachting's commitment to environmental sustainability aligns with			
sustainability goals	several United Nations Sustainable Development Goals (SDGs). The specific			
(SDGs) and the specific	targets achieved through our best practices in yacht charters include:			
targets achieved in the	SDG 7: Affordable and Clean Energy:			
described case:	Target Achieved: Integration of solar papels and a focus on wind-nowered			
	sailing methods contribute to the generation of clean and renewable			
	energy for onboard operations.			
SDG 12: Responsible Consumption and Production:				
	Target Achieved: Introduction of waste segregation and recycling systems,			
	efficient water management, and sustainable practices promote			
	responsible consumption and production within the yacht charter industry.			
SDG 13: Climate Action:				
	Target Achieved: Substantial reduction in carbon emissions through the			
	operation of sailing yachts, the use of renewable energy sources, and the			
	incorporation of wind-powered sailing methods.			
	SDG 14: Life Below Water:			
	Target Achieved: Implementation of eco-friendly charters with reduced			
	environmental impact contributes to the preservation of marine			
	ecosystems, supporting the goal of life below water.			
SDG 15: Life on Land:				
	Target Achieved: Sustainable practices reduce the environmental impact on			
	coastal and island ecosystems, aligning with the goal of promoting life on			
	land.			