REBUILT

RESULT 3 – A1 – TEMPLATE

Company Name:	RAYMETRICS S.A.		
Professional sector and	Sector: MANUFACTURE, DEVELOPMENT AND DESIGN OF HIGH-TECH		
company size:	INSTRUMENTS AND SOFTWARE SYSTEMS		
	Company size: 38 employees		
Need/problem/challenge	Direct and Indirect CO2 emissions		
addressed:			
Sort presentation of the	Raymetrics is a technology and software company which designs and		
company:	manufactures atmospheric LIDAR technology solutions.		
	They manufacture robust, stand-alone instruments, i.e. LIDARs, which are an		
	excellent tool for identifying all possible pollution emission sources. Using LIDAR		
	data they correlate specific activities and pollution emissions and provide		
	data, they correlate specific activities and politicion emissions and provide		
	detailed mapping of emission plumes.		
	Website: <u>http://www.raymetrics.com/</u>		
Initial Process and CO2	Raymetrics is based in a rented three-storey building where their functional units		
Emission Profile (tools,	are housed: (a) manufacturing (b) management and sales (c) administration.		
methodologies, theories,	In manufacturing they import parts like lasers, telescopes and signal recorders,		
references):	they manufacture supportive parts, they assemble them into stand-alone lidars,		
	and they programme all the required functionalities		
	The other two units perform the standard office functionalities.		
	The company's CO2 emissions profile includes direct and indirect emissions.		
	The direct emissions mainly derive from transportation and travels:		
	(a) Within Greece, by the use of the eight company cars/tracks		
	(d) Abroad by airplane use		
	Its indirect emissions mainly derive from electricity consumption for:		
	(a) Heating and Cooling		
	(b) Electric and electronic devices that are used in all functional units of the		
	company.		
Strategic Decision of the	The company has decided to improve its environmental impact by cutting down		
company:	both its direct and indirect CO2 emissions.		
	At first the company contacted the property-owner for a potential energy		
	upgrade of the building (improve insulation of external walls and the roof). to		
	which the owner did not agree.		
	The company also examined the potential of generating electricity on-site and		
	reducing its reliance on power grid, by installing solar panels on the roof ton but		
	this was rejected by the manufacturing unit as they need the roof's open space		
	for testing the LIDARS' lasers.		

	Based	on the above, they decided to implement softer changes that improve the
	compa	ny's overall environmental impact. Specifically, the measures include:
	1)	Replacement of all old energy-consuming air conditioning units used for
		heating and cooling.
	2)	Replacement of all working stations (servers, laptops, tv screens) as well
		as appliances and lighting bulbs with new low energy-demand ones
	3)	Install occupancy sensors (Smart Building Technologies)
	4)	Switch to a cleaner energy supplier.
	5)	Gradual replacement of company cars with electric ones
	6)	Recycling of batteries, office paper and plastic.
	7)	Reduction in business travels for sales purposes and increase remote
		virtual meetings with prospective customers.
	8)	Consider the green roof option (covered with low vegetation) mainly for
		reducing the heat absorbed by the building, thereby decreasing the need
		for cooling.
Process reengineering on	The co	mpany managed to implement the following measures:
selected waste (resources,	1)	They replaced all the old energy-consuming air conditioning units used
methodologies, tools):		for heating and cooling, with new energy-efficient inverter units.
	2)	They replaced all lighting bulbs with LED bulbs, and bought new energy-
		efficient appliances and working stations (servers, laptops, tv screens)
	3)	Installed occupancy sensors in manufacturing and management and sales
		functional units where people come and go all day long.
	4)	They switched to a cleaner energy supplier. They chose Protergia whose
		energy portfolio includes renewable energy sources, mainly wind farms
		and photovoltaic parks, in operation.
		(https://www.protergia.gr/en/articles/protergia-the-major-winner-of-the-
		2023-energy-mastering-awards-has-won-12-awards-this-year/)
	5)	They replaced one of the eight (8) company cars with an electric car and
		plan to replace three more in the near future. The rest of the cars are
		diesel trucks for moving instruments and they do not intend to replace
		them.
	6)	The company installed on all building floors waste collection containers
		for plastic, paper and batteries.
	/)	Business travels for sales purposes have been hearly halved and replaced
	0)	Crean reaf net yet implemented Dending
De engineering outcome	0) After h	Green root not yet implemented. Pending
Re-engineering outcome	After n	aving enhanced its environmental performance, the company has been
Emission profile		201 ·2015 (see last page)
improvement and other	130 140	The reduction of CO2 from the replacement of one internal-combustion
	1.	car with an electric car is equivalent to about 1,000 kg per 10,000 km of
success evidence.		mileage
	2	The transition to inverter air-conditioning units halved CO2 emissions for
	2.	cooling and heating.
	3	The reduction of CO2 from the replacement of rest of the energy
		demanding appliances (laptops, servers, refrigerators etc.) cannot be
		easily estimated as the company gradually increased its number of
		workers and turnover.

Please identify the	SDG 7. Ensure access to affordable, reliable, sustainable, and modern energy for
sustainability goals (SDGs)	all.
and the specific targets achieved in the described	SDG 12. Ensure sustainable consumption and production patterns.
case:	SDG 13. Take urgent action to combat climate change and its impacts.
	SDG 15. Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification and halt and reverse land degradation, and halt biodiversity loss.

Certificate No. 363/2021



CERTIFICATE

We hereby confirm that ENVIRONMENTAL MANAGEMENT SYSTEM

of RAYMETRICS S.A.

32 SPARTIS str., P.C. 14452, METAMORFOSI, ATHENS, GREECE

has been deemed to comply with the requirements of:

ISO 14001:2015

Scope of certification:

MANUFACTURE, DEVELOPMENT AND DESIGN OF HIGH-TECH MACHINERY AND SOFTWARE SYSTEMS.

Certification from: 19.11.2021

Mgr. Petr Požár CEO

P8022/001



Place and Date of Issue: Prague, 19.11.2021

Validity to: 18.11.2024



REV0121

Not complying with the conditions of certification stated at www.tcert.cz may lead to invalidity of the certificate