Sustainabuild	Sustainabuild Ltd Unit 8/5 Horse Barrack Lane, Gibraltar info@sustainabuild.gi +350 20040175	CASAIS	ESOS Phase 3 - Action Plan (6 December 2023- 5 December 2027)	
			Project Name	CASAIS
			Project Number	50001

ACTION PLAN

INCLUDE/EXCLUDE		CATEGORY	Actions to be implemented to reduce energy consumption, by organisational purpose*	Intended date to implement	Item recommended in ESOS Report/Audit, or alternative compliance route, or other?	Estimated Total Energy Savings (over four year period), kWh	Source of data used for estimated savings	Optional: Cost savings	Optional: GHG emissions reductions (kg CO_2e)	Optional: % savings against baseline
☑	INCLUDED	BUILDING	**Installing submeters** on various systems (HVAC, lighting, ring mains, etc.) allowing for accurate data collection, helping to **pinpoint areas with the highest energy consumption.**	Dec 2027	ESOS Ph 3 Report	Range of savings (kWh): 5,960.4 - 11,920.8	[1] CIBSE. (2012). Guide F: Energy efficiency in buildings (3rd ed.). Chartered Institution of Building Services Engineers. [2] CIBSE. (2009). TM39: Building energy metering – Guidance on energy sub-metering in buildings (2nd ed.). Chartered Institution of Building Services Engineers.	Range of cost savings (£): 1,031.2 - 2,062.3	Range of emissions reduction (kg CO_2e): 3,192.4 - 6,384.8	5 - 10%
☑	INCLUDED	BUILDING	Stablish a schedule **to increase employee awareness on sustainable practices**, ie. Reminders to switch off lights, computers, printers and close doors, establish temperature optimal set points, use natural ventilation etc.	Dec 2025	ESOS Ph 3 Report	Range of savings (kWh): 2,980.2 - 5,960.4	https://web.ua.es/es/eco-campus/documentos/con-sumo-energia-ordenadores.pdf?utm_source	Range of cost savings (£): 517.5 - 1,031.2	Range of emissions reduction (kg CO_2e): 1,596.2 - 3,192.4	2.5 - 5%
☑	INCLUDED	BUILDING	**Efficient equipment:** Incorporate the **analysis of energy labelling** as an integral part of its process for acquiring and replacing electrical equipment, aiming to optimize the energy efficiency of its inventory.	Dec. 2026	ESOS Ph 3 Report	Range of savings (kWh): 5,960.4 - 17,881.2	[1] U.S. Environmental Protection Agency. (s.f.). ENERGY STAR office equipment. [2] U.S. Department of Energy. (s.f.). Energy efficiency in commercial buildings. [3] International Energy Agency. (2022). Energy efficiency 2022.	Range of cost savings (£): 1,035.0 - 3,105.0	Range of emissions reduction (kg CO_2e): 3,192.4 - 9,577.2	10 - 30%
☑	INCLUDED	OTHER	Promoting use of **efficient equipment in construction sites**	Dec. 2026	ESOS Ph 3 Report	Range of savings (kWh): 513,745.6 - 770,618.4	[1] World Green Building Council. (s.f.). Advancing net zero	Range of cost savings (£): 88,878.0 - 133,317.0	Range of emissions reduction (kg CO_2e): 275,167.2 - 412,743.3	20 - 30%
☑	INCLUDED	OTHER	Stablish a schedule to **increase employee awareness on efficient use of equipment**	Dec 2025	ESOS Ph 3 Report	Range of savings (kWh): 256,872.8 - 385,309.2	[1] IEA (International Energy Agency). 2014 – Energy Efficiency Market Report 2014	Range of cost savings (£): 44,439.0 - 66,658.5	Range of emissions reduction (kg CO_2e): 137,581.1 - 206,371.6	10 - 15%
☑	INCLUDED	TRANSPORT	Implementation of a systematic **transition plan**, gradually **integrating electric vehicles** into its procurement process as existing vehicles reach their end-of-life cycle.	Dec 2027	ESOS Ph 3 Report	113475.5 [*per each vehicle replaced (based on four year period)]	[1] Vehicles mileage information - MOT Documents [2] Vehicles litres consumption - gathered by Bland Group for the reference period [3] Electrical alternative vehicle rate of consumption (in kWh/100 km) - IDAE Database	6866.6 [*per each vehicle replaced (based on four year period)]	-	34.40%
☑	INCLUDED	TRANSPORT	**Monitoring system:** to track fuel consumption in real-time, identify patterns of inefficient driving, and provide feedback to drivers	Dec 2025	ESOS Ph 3 Report	Range of savings (kWh): 155,243.7 - 310,487.4	Research on different suppliers of monitoring system for vehicles: [1] Geotab [2] Samsara [3] Teletrac Navman [4] Fleet Complete	Range of cost savings (£): 20,016.0 - 40,032.0	Range of emissions reduction (kg CO_2e): 41,358.3 - 82,716.4	5 - 10%
☑	INCLUDED	TRANSPORT	Stablish a schedule to **increase employee awareness on efficient driving habits.**	We are already doing it	ESOS Ph 3 Report	Range of savings (kWh): 155,243.7 - 465,731.0	[1] Mohammadnazar, A., Khattak, Z. H., & Khattak, A. J. (2023). Assessing driving behavior influence on fuel efficiency using machine-learning and drive-cycle simulations. Center for Urban Transportation Research, University of South Florida. [2] Ping, P., Qin, W., Xu, Y., Miyajima, C., & Takeda, K. (2019). Impact of driver behavior on fuel consumption: Classification, evaluation, and prediction using machine learning. Southeast University. [3] IDAE (Instituto para la Diversificación y Ahorro de la Energía). (2003). La conducción eficiente: Un nuevo estilo de conducción que logra importantes ahorros de carburante, reducción de emisiones y que mejora la seguridad. Ministerio de Industria, Turismo y Comercio.	Range of cost savings (£): 20,016.0 - 60,048.1	Range of emissions reduction (kg CO_2e): 41,358.3 - 124,074.9	5 - 15%
☑	INCLUDED	TRANSPORT	Stablish a **maintenace schedule** for vehicles	We are already doing it	ESOS Ph 3 Report	Range of savings (kWh): 155,243.7 - 310,487.4	[1] IDAE (Instituto para la Diversificación y Ahorro de la Energía). (2003). La conducción eficiente: Un nuevo estilo de conducción que logra importantes ahorros de carburante, reducción de emisiones y que mejora la seguridad. Ministerio de Industria, Turismo y Comercio.	Range of cost savings (£): 20,016.0 - 40,032.0	Range of emissions reduction (kg CO_2e): 41,358.3 - 82,716.4	5 - 10%
☑	INCLUDED	TRANSPORT	Stablish a **travel schedule planning**	We are already doing it	ESOS Ph 3 Report	Range of savings (kWh): 310,487.4 - 620,974.8	[1] U.S. Department of Energy. (n.d.). Saving energy on your commute: Carpooling. Office of Energy Efficiency & Renewable Energy. [2] International Energy Agency. (2021). Behavioural changes in transport. IEA. [3] International Energy Agency. (2019). The future of rail: Opportunities for energy and the environment. IEA. [4] European Commission. (2021). Transport and environment report 2021: Decarbonising road transport — the role of vehicles, fuels and behaviour. European Environment Agency.	Range of cost savings (£): 40,032.0 - 80,064.0	Range of emissions reduction (kg CO_2e): 82,716.4 - 165,432.8	10 - 20%
☑	INCLUDED	OTHER	Consider **carbon offsetting programs**	Dec 2027	Recommended by Sustainabuild Ltd (outside of ESOS)	N/A	N/A	N/A	N/A	N/A
					Combined Total	Range		Range	Range	