

2026Y ENVIRONMENTAL/ENERGY PROGRAM PLAN

Significant Environmental Aspect	Environment/Energy Objective			Details	P.I.C	Remarks
	Item	Criteria(Q'ty)	Item			
Marine pollution due to emergencies such as hull damage, etc.	Prevent emergencies and minimize damage	The number of marine pollution accident from emergencies (ZERO)	Collision, Ground, Oil spill	<input type="checkbox"/> Work Safety and Risk Management <ul style="list-style-type: none"> ■ Implement verification of compliance with work safety procedures during vessel visits. ■ Conduct Hazard Prediction Training, Tool Box Meetings (TBM), and Risk Assessments. ■ Utilize checklists for special/critical tasks. ■ Implement a Permit to Work system for hazardous jobs. ■ Prevent similar accidents on vessels by reporting and managing Near-Misses. ■ Prevent recurrence and ensure vessel safety by identifying and sharing PSC (Port State Control) deficiency cases. ■ Maintain periodic patrols, on-site monitoring, and communication systems during fuel oil/cargo transfer operations. <input type="checkbox"/> Navigational Safety <ul style="list-style-type: none"> ■ Conduct navigational audits by the Captain (within 1 month of crew boarding). ■ Minimize damage from deteriorating weather conditions by using weather routing services and introducing autonomous navigation programs. ■ Strictly implement and comply with bridge watchkeeping guidelines. ■ Optimize weather monitoring, cargo management, and the condition of navigation/engine equipment. <input type="checkbox"/> Organizational Management <ul style="list-style-type: none"> ■ Enhance emergency response capabilities through periodic training and familiarization with emergency procedures. ■ Comply with minimum crew rest hours / implement mental health monitoring procedures. <input type="checkbox"/> Pollution Prevention Equipment Maintenance <ul style="list-style-type: none"> ■ Thoroughly manage waterproof materials and pollution control equipment. ■ Conduct periodic soundings of all tanks and thoroughly maintain level gauges. 	SHIP, MT, QAT	
Marine pollution due to malfunction of machinery / equipment	Prevent malfunction of marine pollution prevention machinery / equipment and minimize damage	The number of marine pollution accident caused by malfunction of machinery / equipment (ZERO)		<input type="checkbox"/> Perform maintenance on marine pollution prevention equipment according to the PMS (Planned Maintenance System) and manage overdue items. <ul style="list-style-type: none"> ■ Oily Water Separator 15ppm Monitoring System Calibration Plan (Plan: 42 vessels) [CNTR Team]: To be performed every 2.5 years (30 months) per vessel. - CNTR Team1: 8 vessels (HHDR, HHHO, HHVR, HHPR, HHBN, HHJK, HHVC, HOLF)	SHIP, MT	*Marine Environmental, Safety and Quality Assurance Criteria

2026Y ENVIRONMENTAL/ENERGY PROGRAM PLAN

Significant Environmental Aspect	Environment/Energy Objective			Details	P.I.C	Remarks
	Item	Criteria(Q'ty)	Item			
				- CNTR Team2: 3 vessels (HOSO, HOSK, HHDT) - CNTR Team3: 13 vessels (HONR, HOGO, HOGGR, HOMI, HOBD, HORA, HODA, HOHL, HHOK, HHCT, HHDK, HHMO, HOHM) [Tanker/LNG Team]: Annual calibration as per MAJOR company requirements and *MESQAC. (*For the MARIA ENERGY, sensors are replaced every 30 months per manufacturer guidelines.) -Tanker Team: 10 vessels (entire tanker fleet) -LNG Ship Team: NIL [BULK/MPV Team]: To be performed every 2.5 years (30 months) per vessel. (*If other shipowner guidelines exist, follow them.) -MPV Team: 1 vessel (B1DU) <input checked="" type="checkbox"/> Minimize Stern Tube Lubricating Oil Discharge - Manage through PMS maintenance and UMA Checklist. <input type="checkbox"/> Manage minimum stock levels for critical machinery parts. <input type="checkbox"/> Conduct periodic Safety Device Function Tests. <input type="checkbox"/> Provide procedures/information upon regulation changes and supplement vessel equipment if necessary. <input type="checkbox"/> Provide technical support and guidance upon vessel request.		
Air pollution from ship operation	Appropriate maintenance of CII grade	Maintaining a ratio of vessels with a CII rating of D or higher (95% higher)	CII grade	<input type="checkbox"/> Voyage Optimization Management <input type="checkbox"/> Manage voyage optimization (TRIM, draft, vessel speed, propeller immersion rate, etc.). <input type="checkbox"/> Reflect weather routing company's SPD (Speed-Power-Draft) operational guide during vessel operation. <input type="checkbox"/> Manage equipment efficiency (prohibit parallel operation of G/E at low load, manage equipment condition). <input type="checkbox"/> Comply with SEEMP (Ship Energy Efficiency Management Plan) procedures (utilizing CII CHECKLIST). <input type="checkbox"/> Manage hull resistance minimization (Hull inspection, Hull/propeller cleaning, application of premium AF paint). <input type="checkbox"/> Expand application of ESD (Energy Saving Devices) such as EPL/ShaPoLi. <input checked="" type="checkbox"/> Energy saving devices: Fuel injection timing adjustment, propeller modification, Wing sail, Wind saver cap, etc. <input type="checkbox"/> Expand the use of alternative fuels (Biofuel, e-MeOH, LNG). <input type="checkbox"/> Thoroughly implement equipment maintenance by verifying PMS results in	R&D, MT SHIP, QAT	HMM Compass (HMM IT system)
	Minimize fuel consumption and increase energy efficiency	F.O consumption intensity (0.6678 g/DWT*km)	g/DWT*km			Past performance 2023 : 0.6414 2024 : 0.6686 2025 : 0.7135

2026Y ENVIRONMENTAL/ENERGY PROGRAM PLAN

Significant Environmental Aspect	Environment/Energy Objective			Details	P.I.C	Remarks
	Item	Criteria(Q'ty)	Item			
				the MMS (Maintenance Management System). <input type="checkbox"/> Monitor CII rating status and consult with relevant teams on improvement measures. <input type="checkbox"/> Fuel Consumption Unit Target: A 1% improvement value based on the average performance of the past 3 years.		
	Minimize hull resistance for energy efficiency	Hull fouling management (124 ships)	Hull inspection	<input type="checkbox"/> Hull Fouling Management <ul style="list-style-type: none"> ■ Conduct timely hull inspections to minimize the increase in hull resistance caused by marine growth. ■ Perform propeller cleaning along with hull inspections, considering berthing time. ■ Hull Inspection Plan for Vessels (Plan: vessels) <ul style="list-style-type: none"> [Container Ship Team]: At least once a year per vessel. -CNTR Team1: 20 vessels (including 2 new builds: HOLI, HOJD) -CNTR Team2: 21 vessels (including 1 new build: HOSG) -CNTR Team3: 21 vessels -CNTR Team4: 18 vessels [Tanker/LNG & BULK Ship Team]: Annually after DRY-DOCK for each vessel. <ul style="list-style-type: none"> -Tanker Team: 10 vessels (entire tanker fleet) -LNG & BULK Ship Team: 34 vessels (entire LNGC, BULK, MPV fleet) ■ Hull Cleaning Plan: To be performed on a condition-basis after hull inspection. 	MT, R&D	
	Minimize emission of VOCs	Related machinery / equipment PMS Overdue (Case ZERO)	Overdue item	<input type="checkbox"/> Timely discharge of VOCs through maintenance of related equipment via PMS. <ul style="list-style-type: none"> ■ Check the PMS overdue history of related equipment (High velocity PV valve) for the tanker fleet by inspecting monthly vessel PMS maintenance records. <input type="checkbox"/> Comply with mitigation procedures and maintain records for optimal control of cargo-related VOCs according to the VOC management plan.	TANKER, MT	
	Legal operation of incinerator	Incinerator procedure (Violation ZERO)	Violation case	<input type="checkbox"/> Adhere to waste incineration prohibition areas (ports, coastal state territorial waters, etc.). <input type="checkbox"/> Distribute precautions for incinerating plastics, oil rags, etc. <input type="checkbox"/> Check and provide guidance on local regulations of each country.	QAT, MT	
	Compliance with fuel oil sulfur oxide emission regulations	F.O sulfur oxide emission regulation (Violation ZERO)	Violation case	<input type="checkbox"/> Operate SCRUBBERS and use low-sulfur fuel oil to comply with ship sulfur oxide emission regulations. <input type="checkbox"/> Comply with company procedures for SCRUBBER operation.	QAT, MT	

2026Y ENVIRONMENTAL/ENERGY PROGRAM PLAN

Significant Environmental Aspect	Environment/Energy Objective			Details	P.I.C	Remarks
	Item	Criteria(Q'ty)	Item			
				<input type="checkbox"/> Identify and prepare for Sulfur Emission Control Areas (SECAs) when planning voyages.		
	Compliance with fuel oil nitrogen oxide emission regulations	F.O nitrogen oxide emission regulation (Violation ZERO)	Violation case	<input type="checkbox"/> Operate EGR/SCR to comply with ship nitrogen oxide emission regulations. <input type="checkbox"/> Comply with company procedures related to nitrogen oxide emissions. <input type="checkbox"/> Identify and prepare for Nitrogen Emission Control Areas (NECAs) when planning voyage	QAT, MT	
Marine Pollution Caused by Ship Operation	Legal management of garbage and waste minimization	Disposal of garbage regulation (Violation ZERO)	Violation case : Illegal unloading, Incineration, and marine discharge	<input type="checkbox"/> Arrange for legal waste disposal companies in each port via agents. <input type="checkbox"/> Provide information and guidance when new port waste disposal regulations are identified. <input type="checkbox"/> Manage waste according to the Garbage Management Plan. <input type="checkbox"/> Minimize waste disposal volume through compression and waste management techniques. <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Reduce ship supply packaging and hand over packaging ashore before departure after removing it in the port of supply. <input checked="" type="checkbox"/> Actively participate in waste recycling activities (waste separation and purchasing recycled products). <input checked="" type="checkbox"/> Use durable, low-toxicity products that generate minimal waste. <input checked="" type="checkbox"/> Evaluate reusability and potential improvements before product disposal. <input checked="" type="checkbox"/> Prioritize purchasing reusable and recyclable products. <input type="checkbox"/> Supply and operate Plastic Compactors/Crushers.	SHIP, QAT, MT	
	Minimize generation of waste oil	Waste oil generation ratio (1.85 %)	Sludge, Oily residues	<input type="checkbox"/> Thoroughly perform periodic maintenance of related equipment (PURIFIER, OIL PUMP, etc.) according to PMS. <input type="checkbox"/> Use fuel oil additives. <input type="checkbox"/> Thoroughly conduct and record periodic measurements of each waste oil tank. <input type="checkbox"/> Optimize purifier discharge time considering fuel oil quality. <input type="checkbox"/> Gather vessel feedback on supplied fuel oil quality and consult with the shipowner's purchasing team. <input type="checkbox"/> Waste Oil Generation Rate Target: A 1% improvement value based on the average performance of the past 3 years (managed on a per-vessel basis).*		Past performance 2023 : 1.84% 2024 : 1.86% 2025 : 1.90%
	Legal management of ballast water	Compliance with the balance water management	Violation case	<input type="checkbox"/> Ballast Water Management <input type="checkbox"/> Comply with the Ballast Water Management Convention and LOCAL regulations (refer to BWMP).		124 vessels operating BWMS (out of 124)

2026Y ENVIRONMENTAL/ENERGY PROGRAM PLAN

Significant Environmental Aspect	Environment/Energy Objective			Details	P.I.C	Remarks	
	Item	Criteria(Q'ty)	Item				
		regulations (Violation ZERO)		<input type="checkbox"/> Thoroughly maintain records of ballast water treatment and management (BWRB). <input type="checkbox"/> Comply with national/regional ballast water management/reporting regulations. <input type="checkbox"/> Provide feedback to vessels on any specific issues regarding ballast water management identified during internal/external audits.			
	Legal operation of SCRUBBER	SCRUBBER wash-water discharge regulations (Violation ZERO)	Violation case	<input type="checkbox"/> Identify and update information on Scrubber wash water discharge restricted areas. <input type="checkbox"/> Switch to low-sulfur fuel oil or operate in closed-loop mode in wash water discharge restricted areas. <input type="checkbox"/> Manage onshore procedures in parallel by reflecting them in each country's port entry checklist as needed.			99 vessels operating SCRUBBERS (EGCS) (out of 124)
	Compliance with regulations for the discharge of by-products generated during operations	Country-specific discharge regulation (Violation ZERO)	Violation case	<input type="checkbox"/> Compliance with Particularly Sensitive Sea Areas (PSSA) and Local Regulations <input type="checkbox"/> Identify regulations and update procedures through feedback from agents and vessel experience at each port. <input type="checkbox"/> Manage onshore procedures concurrently by reflecting them in each country's port entry checklist as needed.			Greywater, sewage, VOC, etc
Resources management of office	Reduce fuel consumption for vehicles	Fuel consumption (Gasoline : 22,113ℓ) (Diesel : 621ℓ)	Gasoline, Diesel	<input type="checkbox"/> Recommend on public transport upon an outdoor service. <input type="checkbox"/> Regularly maintenance of facility and efficient operation.	CAD		
	Reduce the electricity	943 MWh	Electricity	<input type="checkbox"/> Prohibit the use of personal air-cond. and heater. <input type="checkbox"/> Turn-off the unnecessary lights during night overtime. <input type="checkbox"/> Regularly maintenance of facility and efficient operation.			