2022 ENVIRONMENTAL/ENERGY PERFORMANCE REPORT

Significant	Environmental/E	Performance									
Environmental Aspect	Target	Result	Result Achievement(%) Remark							PIC	
Marine pollution due to emergencies such as hull	Prevent emergencies And minimize damage	The number of emergency (ZERO)	Oil spill zero	100.0		verification of sa ion of PMS for		-	-		VESSEL, MT, QAT
damage, etc. Marine pollution due to malfunction of machinery/ equipment	Management of pollution prevention equipment	Oily bilge separator 15ppm Monitoring System Calibration (28 vessels)	30 vessels	107.1	LNG : 1 vess In case of	erformed. 1 vessels, CNTR sels, TANKER : 7 Tanker/LNG flo th the requirem	vessels eets, annual	calibration is	being carried	l out in	VESSEL, MT
Air pollution from ship operation	Minimizefuelconsumptionandincreaseenergyefficiency	Reduction of fuel consumption (1.4 %, reduction rate compared to baseline in 2016)	1.8%	128.6	 * fuel consumption in 2016 : 759,058 M/T (BASELINE) * fuel consumption in 2022 : 745,395 M/T (1.8% reduction compared to 2 * applies to : Main Engine, Aux. Engine (Aux. Boiler excluded) * 11k CNTR : Set the 2018 performance as baseline * 24k CNTR : Set the 2020 performance as baseline * 16k CNTR : Set the 2021 performance as baseline 					0 2016)	R&D
		F.O consumption intensity (0.8490g/DWT*km)	0.8307	102.2	CNTR TANKER BULK LNG MPV TOTAL * Target : 1% i * Some reduced	OTT mance of F.O. 2019 1.1496 0.3657 0.7201 1.3359 - 0.9417 mprovement vaction in fuel expanse onnage(DWT) and energy efficiency	2020 1.0058 0.3594 0.6972 0.8810 - 0.8171 Ilue of the 3 y fficiency due ad operation.	2021 0.9315 0.3462 0.7508 0.9536 1.9900 0.8140 rears average to the delive	ery of ships w		QAT

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Environmental/E	Performance								DIG	
Target	Criteria(Q'ty)	Result	Achievement(%)	6) Remark						PIC
Minimize fuel consumption and increase energy efficiency	Hull Inspection (78 vessels)	74 vessels	94.9	 * 85 vessels performed. CNTR 1T: 32 vessels, CNTR 2T : 16 vessels, CNTR 3T: 15 vessels LNG : 6 vessels, TANKER : 5 vessels Inspection period of the CNTR fleet is every 6 months. LNG, BULK, TANKER fleet is performed according to the vessel condition. 					F	MT, R&D
Legal operation of Incinerator	Incinerator procedure (Violation ZERO)	Violation ZERO	100.0	* No violation existed.					(QAT
Legal management of Garbage	Disposal of Garbage (Violation ZERO)	Violation ZERO	100.0	CNTR 2 team : 2 vessels (HPP, HBB)						VESSEL, QAT, MT
Minimize generation of	Waste oil generation	1.92 %	90.9	* Annual performance of W.O generation (%)						
Waste oil Legal management of Ballast water	ratio (1.76 %) Ballast water management regulation/	Violation ZERO	100.0	mainly for BOG. * For CNTR fleet, W.O ger quality of fuel oil suppl steaming operation. * 62 vessels are operating CNTR 44 vessels, TANKE	neration rat lied, long-t g the BWM! ER 8 vessels	te increased ime waiting S. (Total : 69 s, LNG 1 vess evision of BV	compared la (anchoring/c vessels) sel, MPV 4 ve	ist year due to irifting) and s	o low slow-	QAT
	TargetMinimizefuelconsumptionandincreaseenergyefficiencyincreaseLegaloperationofIncineratorofGarbageofMinimizegenerationMinimizegenerationWasteoilLegalmanagementofofMinimizegenerationgenerationofWasteoilLegalmanagementofofWasteoil	TargetCriteria(Q'ty)Minimizefuel consumptionHull Inspection (78 vessels)increaseenergy efficiencyIncinerator procedure (Violation ZERO)Legal management of GarbageDisposal of Garbage (Violation ZERO)Minimize generation of Waste oilWaste oil generation ratio (1.76 %)Legal management of Ballast waterBallast water management	TargetCriteria(Q'ty)ResultMinimizefuel consumptionHull Inspection (78 vessels)74 vesselsincreaseenergy efficiency(78 vessels)Violation ZEROLegal operation of IncineratorIncinerator procedure (Violation ZERO)Violation ZEROLegal management of GarbageDisposal of Garbage (Violation ZERO)Violation ZEROMinimize generation of Waste oilWaste oil generation ratio (1.76 %)1.92 %Legal management of Ballast waterBallast water managementViolation ZERO	TargetCriteria(Q'ty)ResultAchievement(%)Minimizefuel consumptionHull Inspection (78 vessels)74 vessels94.9increaseenergy efficiencyIncinerator procedure (Violation ZERO)Violation ZERO100.0Legal management of GarbageDisposal of Garbage (Violation ZERO)Violation ZERO100.0Minimize generation of Waste oilWaste oil generation ratio (1.76 %)1.92 %90.9Legal management of Ballast waterBallast water management1.92 %100.0	TargetCriteria(Q'ty)ResultAchievement(%)Minimizefuel consumptionHull Inspection (78 vessels)74 vessels94.9* 85 vessels performed. - CNTR 1T: 32 vessels, CI UNG : 6 vessels, TANKE - Inspection period of th - LNG, BULK, TANKER fleLegal operation of Incinerator (Violation ZERO)Incinerator procedure (Violation ZERO)Violation ZERO100.0* No violation existed.Legal management of GarbageDisposal of Garbage (Violation ZERO)Violation ZERO100.0* Operation of the plastic - CNTR 2 team : 2 vessel - LNG team : 7 vesselsMinimize generation of Waste oilWaste oil generation ratio (1.76 %)1.92 %90.9* Annual performance of WO generation (%) * LNG Fleet : Relatively hi mainly for BOG. * For CNTR fleet, WO ge quality of fuel oil supp steaming operation.Legal management of Ballast waterBallast waterViolation ZERO100.0* 62 vessels are operating - CNTR 44 vessels, TANKE	TargetCriteria(Q'ty)ResultAchievement(%)ResultMinimizefuel consumptionHull Inspection (78 vessels)74 vessels94.9* 85 vessels performed. - CNTR 1T: 32 vessels, CNTR 2T : 16 LNG : 6 vessels, CNTR 2T : 16 LNG : 100.0Minimize generation of Waste oilDisposal of Garbage (Violation ZERO)Violation ZERO100.0* Operation of the plastic compacto - CNTR 2T eam : 2 vessels (OULD, OL - CNTR 2T eam : 7 vessels (OULD, OL - Tanker team : 7 vessels (OULD, OL - Tanker team : 7 vessels (OULD, OL - CNTR 2T eat : 2 vessels (OULD, OL - CNTR 4 vessels, NO, Violation 2Minimize generation of Waste oilWaste oil generation ratio (1.76 %)1.92 %90.9* Annual performance of WO gener mainly for BOG. * For CNTR fleet, WO generation ra quality of fuel oil supplied, long-1 steaming operation.Legal management of Ballast waterBallast waterViolation ZERO100.0	TargetCriteria(Q'ty)ResultAchievement(%)RemarkMinimizefuel consumptionHull Inspection (78 vessels)74 vessels94.9* 85 vessels performed. - CNTR 1T: 32 vessels, CNTR 2T : 16 vessels, CN LNG : 6 vessels, TANKER : 5 vessels - Inspection period of the CNTR fleet is every 6 - LNG, BULK, TANKER fleet is performed accordiLegal operation of IncineratorIncinerator procedure (Violation ZERO)Violation ZERO100.0* No violation existed.Legal management of GarbageDisposal of Garbage (Violation ZERO)Violation ZERO100.0* Operation of the plastic compactor and garbag - CNTR 2 team : 2 vessels (HPP, HBB) - LNG team : 7 vessels (GULD, OUWN, OUCA, - Tanker team : 7 vessels (OULD, OUWN, OUCA, <br< td=""><td>Target Criteria(Q'ty) Result Achievement(%) Remark Minimize fuel consumption Hull Inspection (78 vessels) 74 vessels 94.9 * 85 vessels performed. - CNTR 1T: 32 vessels, CNTR 2T : 16 vessels, CNTR 3T: 15 ves UNG : 6 vessels, TANKER : 5 vessels efficiency Incinerator Violation 200 - LNG, BULK, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER 8 vessels, UNG vessel, VIC, VIC, VIC, VIC, VIC, VIC, VIC, VIC</td><td>TargetCriteria(Q'ty)ResultAchievement(%)RemarkMinimizefuel consumptionHull Inspection (78 vessels)74 vessels94.9* 85 vessels performed. - CNTR 1T: 32 vessels, CNTR 2T: 16 vessels, CNTR 3T: 15 vessels ING 6 vessels, TANKER 5 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 4 vessels - ING 4 vessels, CNTR 4 vessels, CNTR</td><td>Target Criteria(Q'ty) Result Achievement% Remark Minimize fuel Hull Inspection 74 vessels 94.9 * 85 vessels performed. - CNTR 17.2 Vessels, CNTR 2T: 16 vessels, CNTR 3T: 15 vessels increase energy reficiency Incinerator Violation - 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LNG team : 2 vessels (TFSS, BIAE, BIDE, BPVI, BDRM, BIDU, BIAT) - CNTR 2 team : 2 vessels (ULD, OUWN, OUCA, OUPT, OUVT, OUDD, OOGL) Minimize generation of Waste oil generation 1.92 % 90.9 * Annual performance of W.O generation (%) Minimize generation of the alast water Violation 1.92 % 90.9 * Annual performance of W.O generation rate is made due to the use of fuel mainly for BOG. * LNG Flet : Relatively high W.O generation rate is made due to the use of fuel mainly for BOG. * For CNTR Heet W.O generation rate in</td></br<>	Target Criteria(Q'ty) Result Achievement(%) Remark Minimize fuel consumption Hull Inspection (78 vessels) 74 vessels 94.9 * 85 vessels performed. - CNTR 1T: 32 vessels, CNTR 2T : 16 vessels, CNTR 3T: 15 ves UNG : 6 vessels, TANKER : 5 vessels efficiency Incinerator Violation 200 - LNG, BULK, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER fleet is performed according to the ver UNG : 6 vessels, TANKER 8 vessels, UNG vessel, VIC, VIC, VIC, VIC, VIC, VIC, VIC, VIC	TargetCriteria(Q'ty)ResultAchievement(%)RemarkMinimizefuel consumptionHull Inspection (78 vessels)74 vessels94.9* 85 vessels performed. - CNTR 1T: 32 vessels, CNTR 2T: 16 vessels, CNTR 3T: 15 vessels ING 6 vessels, TANKER 5 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 4 vessels, CNTR 3T: 15 vessels - Inspection period of the CNTR 4 vessels, CNTR 4 vessels - ING 4 vessels, CNTR	Target Criteria(Q'ty) Result Achievement% Remark Minimize fuel Hull Inspection 74 vessels 94.9 * 85 vessels performed. - CNTR 17.2 Vessels, CNTR 2T: 16 vessels, CNTR 3T: 15 vessels increase energy reficiency Incinerator Violation - CNTR 17.2 Vessels, CNTR 2T: 16 vessels, CNTR 3T: 15 vessels Legal operation of Incinerator Incinerator Violation 100.0 * No violation existed. 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Significant Environmental Aspect	Environmental/E	ojective			Performanc	е				DIC	
	Target Criteria(Q'ty)		Result	Result Achievement(%) Remark						PIC	
Marine pollution from ship operation	Legal operation of Scrubber Compliance with	discharg (Violatic	ashwater je regulation on ZERO) ashwater	1 Violation	0	 * 51 vessels are operating the CNTR 39 vessels, TANKER 8 The remaining 18 ships are Updating Control area to be continuously. <u>HMM LE HAVRE : During control area due to structural problection of ban discharge</u> * Identify and thoroughly control and the co	VESSEL, R&D, QAT				
	regional regulations for various incidental discharges from ship operation (GREY WATER, SEWAGE, ANTI-FOULING PAINTS, NOISE, etc)	discharge regulation (Violation ZERO)		ZERO	100.0	* Identify and thoroughly comply with regional regulations such as US VGP regulations, VOC, gray water, and sewage discharges, etc.					QAI
Resources	Reduce fuel oil	Gasoline	21,824 ℓ	23,109.7 १	94.1	* Annual environmental performance of office					
management	consumption for					구 분	2019	2020	2021	2022	
of office	vehicle					Gasoline (ℓ)	24,063	17,197	19,975	23,110	
						Diesel (ł)	208	120	43	120	
						Boiler (Nm ³)	49,143	42,903	41,791	24,129	
		Diesel	172 {	119.68 ℓ	130.4	Cooking facility (Nm ³)	15,161	14,251	12,415	5794	
		DIESEI	1/2 1	113.00 1	130.4	Electricity (MWh)	2,927	2,765	2,920	2004	
		_				Employee	841	919	940	958	
	Reduce the electricity	Electricity		2,920 MWh	2,004.36	Energy consumption (MJ)	13,777,463	13,777,463 12,704,303	13,229,769	9,086,457	
		(2,875 N	1Wh)	24,128.91 Nm ³	MWh	Energy consumption (MJ/Person)	16,382	13,824	14,074	9,485	

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Significant Environmental	Environmental/E	jective	Performance					
Aspect	Target	ria(Q'ty)	Result	Achievement(%)	Remark	PIC		
		Cooking 13,895		5,794.03 Nm ³	158.3	according to face to face work and 1 more business vehicle added.		
		facility	Nm ³			 * After relocation of the office from Yeonji-dong to Yeouido in Seoul, Electricity consumption decreased due to reduced quantity of EHP having high consumption of electricity. * After relocation of the office from Yeonji-dong to Yeouido in Seoul, LNG fuel consumption decreased due to no use of boiler and cooking facilities 		