Environmental Report

The J.J. Ugland Companies

Ugland Marine Services AS - 2023

Safer as One
One family – One culture

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The objective of the report is to give status of Environmental elements for UMS's performance during 2023.

2. Vessels

2.1. Key Performance Indicators

Key Perfomance Indicators (KPI) - 2023									
Area	Indicator text	Resp.	Goal 2023	Q1-ytd	Q2-ytd	Q3-ytd	2023	Ref. Plan	Evaluation
Environment 1	Number of oil spill to sea. (Fleet)	TO	0	0	1	1	1		
Environment 2	Bulk: Landed sludge vs. burned onboard	TO	90 %	95 %	96 %	91,57 %	91,71 %		
Environment 3	"Juanita": Fuel Consumption (kg/Hour baseline 2020)	GAL	≤0,5%	-8,1 %	-10,51 %	-9,42 %	-8,17 %		
Environment 4	"Juanita": % time in port connection to shore power	GAL	65 %	73,6 %	57,6 %	54,90 %	57,60 %		
Environment 5	"Juanita": Operation Hybrid System	GAL	100 %	100 %	100 %	100 %	100 %		
Environment 6	Uglen: % time shore connection (where shore connection is available)	ES	100 %	100 %	100 %	100 %	100 %		

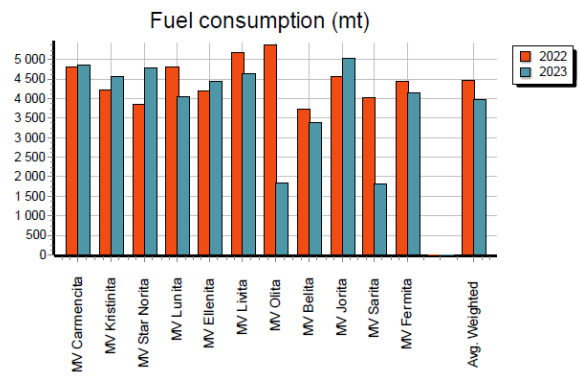
2.2. Oil spills

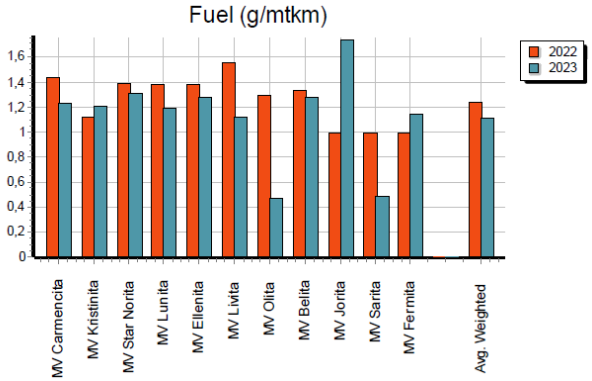
1 incident of oil spill to sea reported during 2023

2.3. Environmental Programs 2023 - Vessels

No.	Text	Objectives	Significant (Ref. Env. Plan)	Programs	Actions/Due date/Resourse	KPI (if any)
1	The Government's Action Plan for Green Shipping	Comply with IMO climate requirements	1, 3, 5, 6, 7	The Action Plan to be adressed within JJUC	1. Plan to be reviewed by JJUC Board, 2. Board of JJUC to establish strategy accordingly	
2a	Environmental Programs - Bulk	Reduce fuel consumption to comply with IMO requirements	1, 3, 5, 6, 7	EEXI process -Reducing GHG		No
2b	Environmental Programs - Bulk	Reduce fuel consumption to comply with IMO requirements	1, 3, 5, 6, 7	CII process -Reducing GHG	1. Ref. Project Action Register SEEMP III (Q4 - JEH) LINK 2. Implementation of measures to reduce CII index. (Ongoing-JEH) 3. Decission to be made to define desired CII ratings (Q4 - TO) 4. NAVTOR installed to register CII (06.22 - JEH) 5. Fuel oil counters to be installed (10.22 - JEH) 6. Office recources to be appointed for day to day follow up (TBD - TO) 7. Ammendment / edit of MoM and MSM needs to be done (QHSE) 8. Follow and documentation of implemented CII measures needs to be done 9. SEEMP III for bulkvessels 10. Adjustments of SEEMP III based on vessels CII rating.	No
2c	Environmental Programs - Bulk - Livita	Reduce fuel consumption	1, 3, 5, 6, 7	Hull Skater Hull scrubber to be installed	1. Monitoring of vessel performance throughout 2024 together with Jotun.	No
2d	Environmental Programs - Bulk	Reduce Lub oil consumption		Replace old cylindre oil system with new Hans Jensen Lubricator.	Ref. Action plan and schedule. LINK	TBD
3a	Environmental Programs - PSV	Reduce fuel consumption.	1, 3, 5, 6, 7	Hull Inspection/Mapping (Annually). Srubbing of hull to be evaluated pending inspection result. Plan and purpose ref. SEEMP (ECOsubea offering)	1. Hull inspection planned 2023 (GAL) 2. Follow up pending Hull Inspection. Planned week 2 (GAL) 3. SEEMP to be updated (01.05 - GAL)	≤0,5%
3b	Environmental Programs - PSV	Reduce fuel consumption.	1, 3, 5, 6, 7	Propeller Cleaning VUVI requested to test propeller cleaning. Equinor as observer	1. Propeller polishing planned 2023 (GAL) 2. Follow up pending propeller Inspection. (GAL) 3. SEEMP to be updated (01.05 - GAL)	≤0,5%
3c	Environmental Programs - PSV	Reduce fuel consumption.	1, 3, 5, 6, 7	Biofuel testing. Request from Equinor to use Juanita as test vessel for biofuel.	1. Procedure for testing to be established (GAL) 2. If test to be done, date to be agreed. (GAL) 3. Follow up/status test pending(01.05 - GAL) 4. SEEMP to be updated (01.05 - GAL)	≤0,5%
3d	Environmental Programs - PSV	Reduce fuel consumption.	1, 3, 5, 6, 7	Various Various fuel reducing measures	1. Transit - Planning .....(NC to be issued if unnecesary full speed) (GAL) 2. Shore power supply connection, (GAL) 3. Stand by - Redusing running machinery (GAL) 4. Reducing ballast during summer month?? (draft restriction), (GAL) 5. Fuel Incentive Program (GAL)	
4	Environmental Programs - HLV	Reduce fuel consumption	1, 3, 5, 6, 7	1.Shore connection where available/save energi 2.Deck Lighting.Change to LED light - save energi	1.Vessel request for quay with shoreconnection (ongoing - ES) 2.When deck lights to be changed,LED lights to be used (ES)	100 %
5	Environmental Programs - Barges	Reduce use of generator/reduce fule consumption	1	1. Solar power for 24 Volt power system 2. UREA installed 3. BWMS installes	Follow Up in SEEMP. To be installed during normal docking of barge.	
6	Environmental Programs - Grimstad	Improve local environment		1. Digitizing filing archive. 2. Hand paper toilt 3. Evaluate energy consumption	1. Digitizing filing archive. (CGB) 2. Replace exiastinbg tpoilet paper with "one sheet" paper (CGB) 3. Possible office upgrade: (xx.xx/)	
7	Environmental Programs - Stavanger	Improve local environment		1. Reduce print outs of paper. 2. Recycling of garbage 3.Encourage to use public transport or bicycle for commuting. 4. Increase use of video meetings vs travelling to meetings	1. Ongpoing 2. As part of local/building requirements 3. Ongoing 4. In use ongoing	

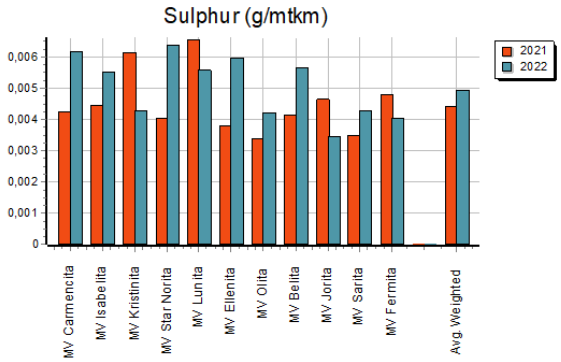
2.4. Consumption/Energy monitoring– Bulk.

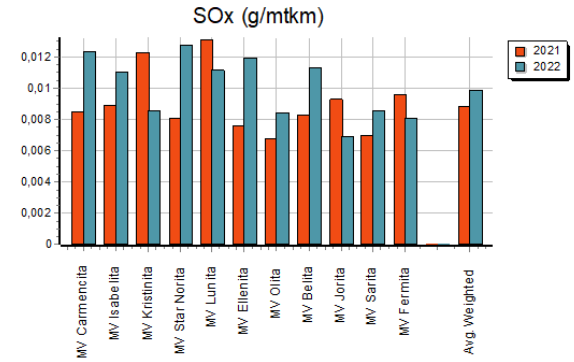


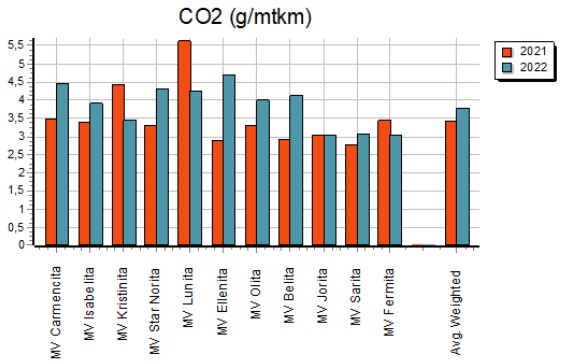


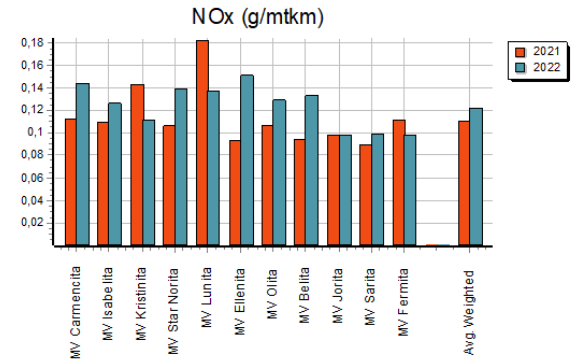
2.5. Emission monitoring – Bulk.

PSV and Uglen are excluded due to the nature of cargo versus distance sailed.



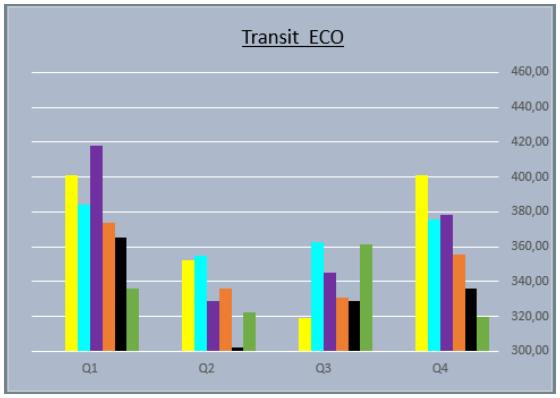


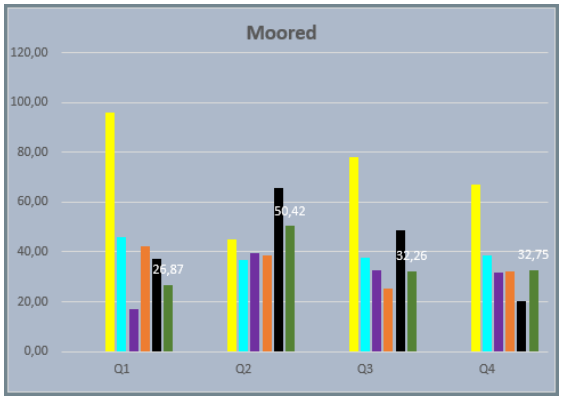


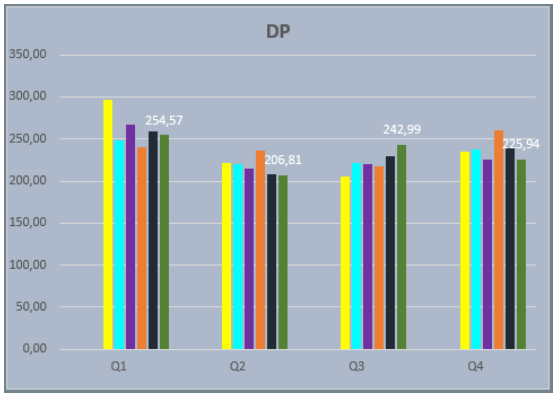


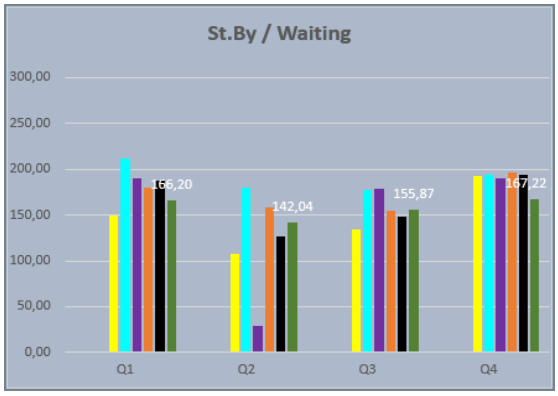
2.6. Consumption monitoring – PSV

Year Color	2018 Fig.	2019 Fig.	2020 Fig.	2021 Fig.	2022 Fig.	2023 Fig.
KPI Baseline (Total Fuel Consumption kg/h= 231 kg/h.						
KPI Target for 2023 = ≤0,5% Kg/Hrs reduction from KPI Baseline (Total Fuel Consumption = 231 Kg/Hrs): Average Figure 2023= 210,89 kg/Hrs. Reduction of 8,17 %.						









3. Office

The office operation consumes energy for heating, lighting, and cooling purposes in addition to other office equipment (office machines/computers etc.). The consumed energy is virtually only electric power. An oil-fired boiler is in place as backup for heating and tested at regular (quarterly) intervals for contingency purposes. The raw materials consumed are mainly paper and tap water. Office equipment and utensils contribute to a lesser degree.

3.1. Environmental Programs 2023

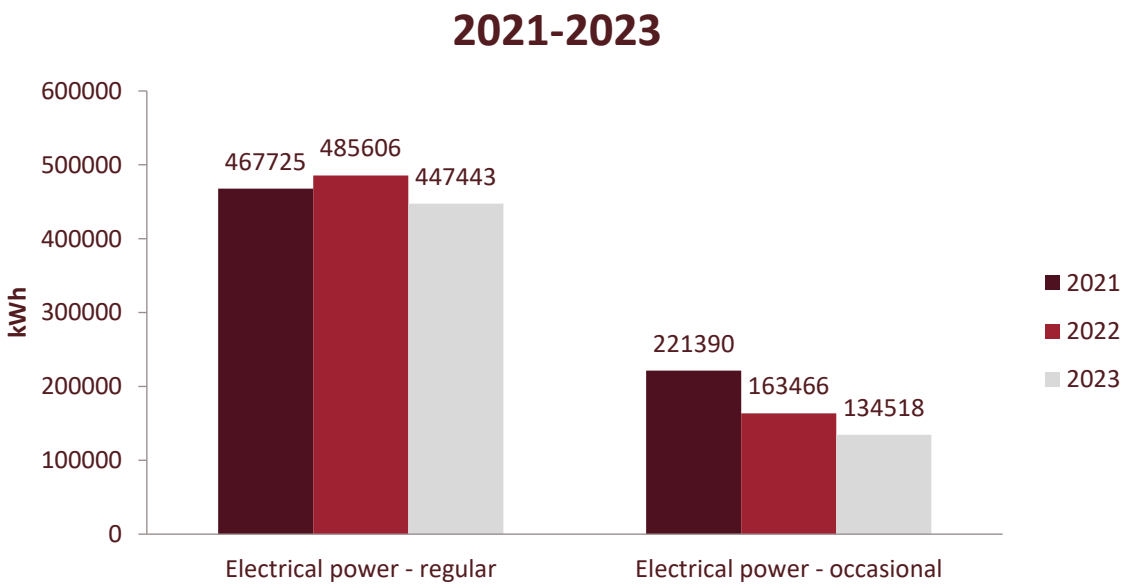
No.	Text	Objectives	Programs	Action(s)
5	Environmental Programs Grimstad	Improve local environment	1. Digitize newspaper and magazines. 2. Digitizing filing archive. 3. Evalute environmental friendly cleaning products	1. News papers now in electronic subscription only 2. Pending "open" office 3. Pending "open" office
6	Environmental Programs Stavanger	Improve local environment	1. Reduce print outs of paper. 2. Recycling of garbage 3.Encourage to use public transport or bicycle for commuting. 4. Increase use of video meetings vs travelling to meetings	1. Use of Share Point 2. As part of local requirements

3.2. Consumption and Emission Monitoring

Testing of the emergency diesel generator at regular intervals takes place to maintain the required power contingency security, which consumes diesel and contributes to emissions.

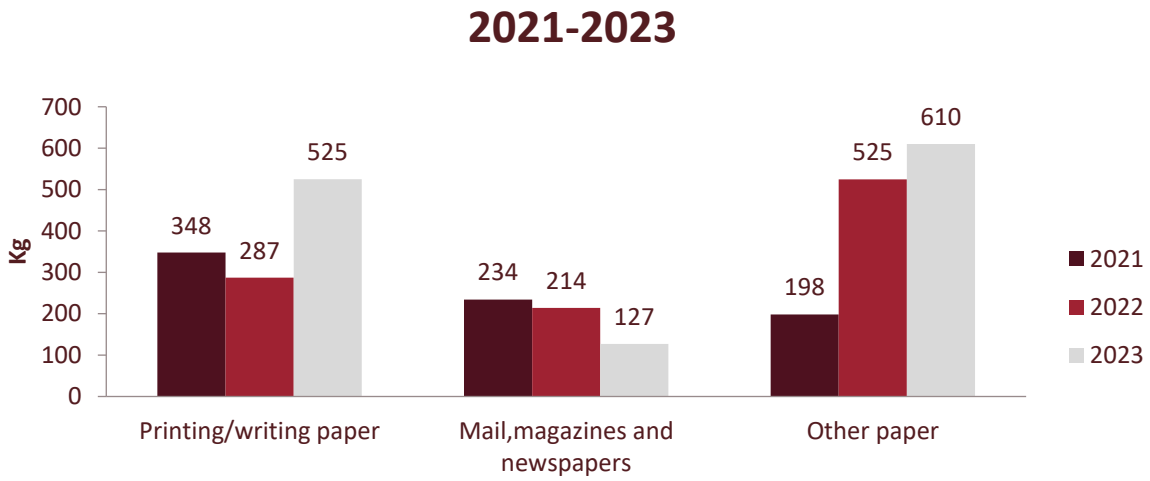
Consumed raw materials are mainly paper and tap water. Office equipment and utensils contribute to a lesser degree.5

Electric Power



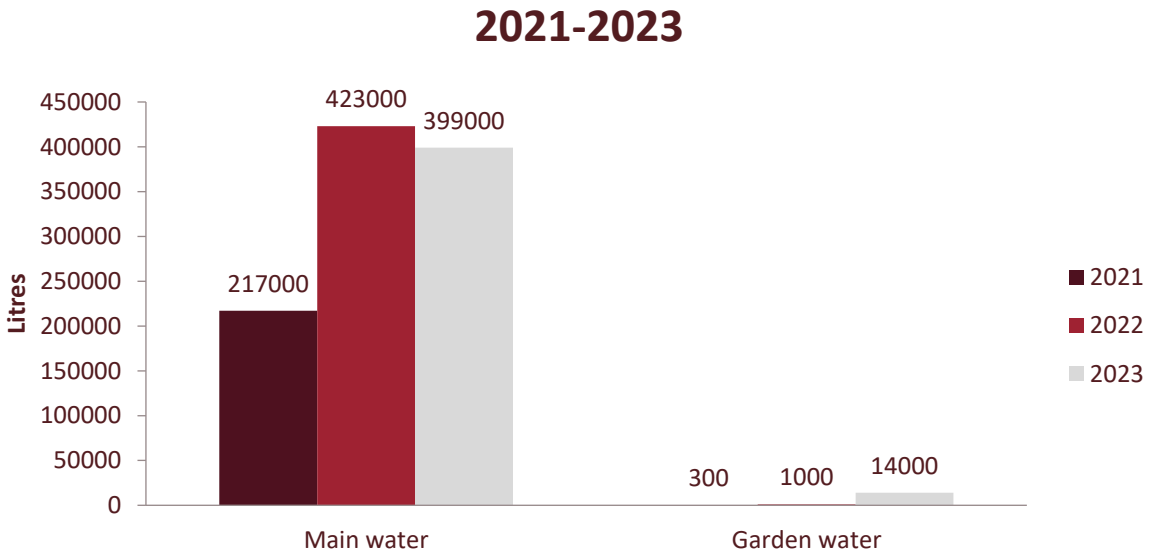
There are small variations in the regular use of electric power. Occasional power is only for heating. We kept the temperature in the office steady since the duration of this period was uncertain. The main reason for increased power consumption (occasional) is primarily due to lower outer temperatures.

Paper Usage



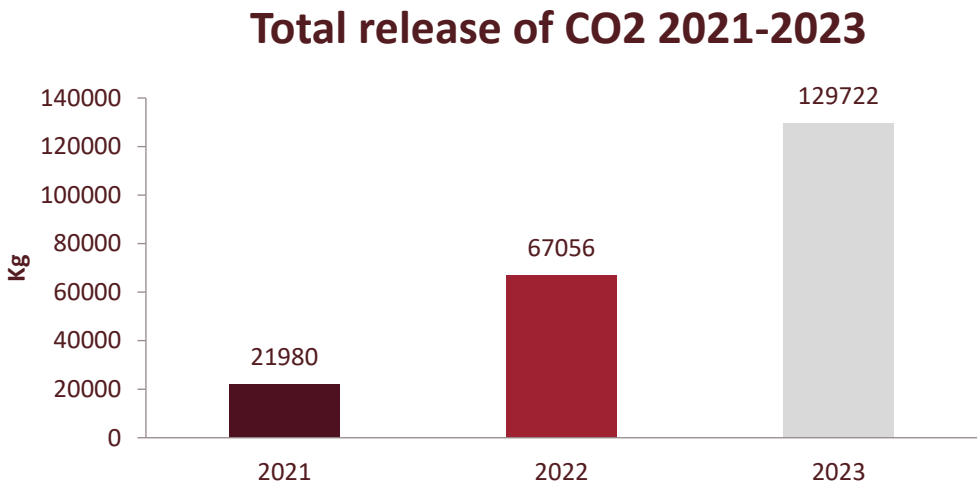
The considerable increase in 2023 printing/writing paper can be attributed to the disposal of paper originals/copies as a result of digitizing files (Environmental Program-1). We can see that the positive trend of reducing magazines and newspapers continues as a result of online reading. In addition, the low consumption of other paper (toilet paper/paper towels) in 2021 was related to home officing.

Water Consumption



The use of main water is steady, but we can see decrease in 2020 and 2021, this can be attributed to the period with “home-office”. The very low consumption of garden water in 2021 is related to weather and sufficient rainfall.

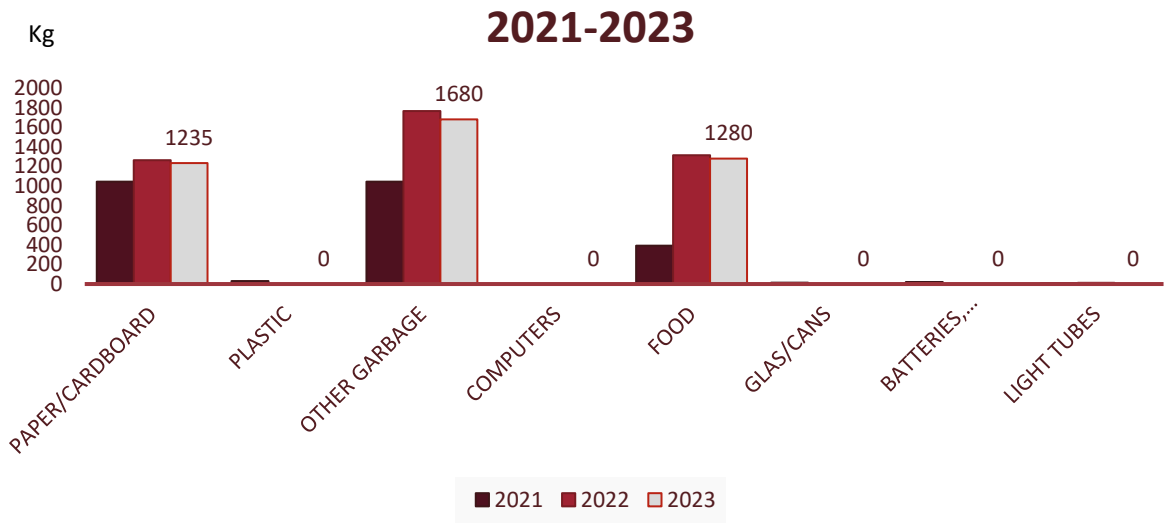
CO2



Releases to air is related to the effect of employees travel activities, where CO2 emissions are accounted for. Office staff are recommended not to use air transport for business trips to the Oslo area and are encouraged to use the public long-distance bus and or train transportation. A significant portion of the total CO2 releases are caused by air flights linked to the overall activity of the company.

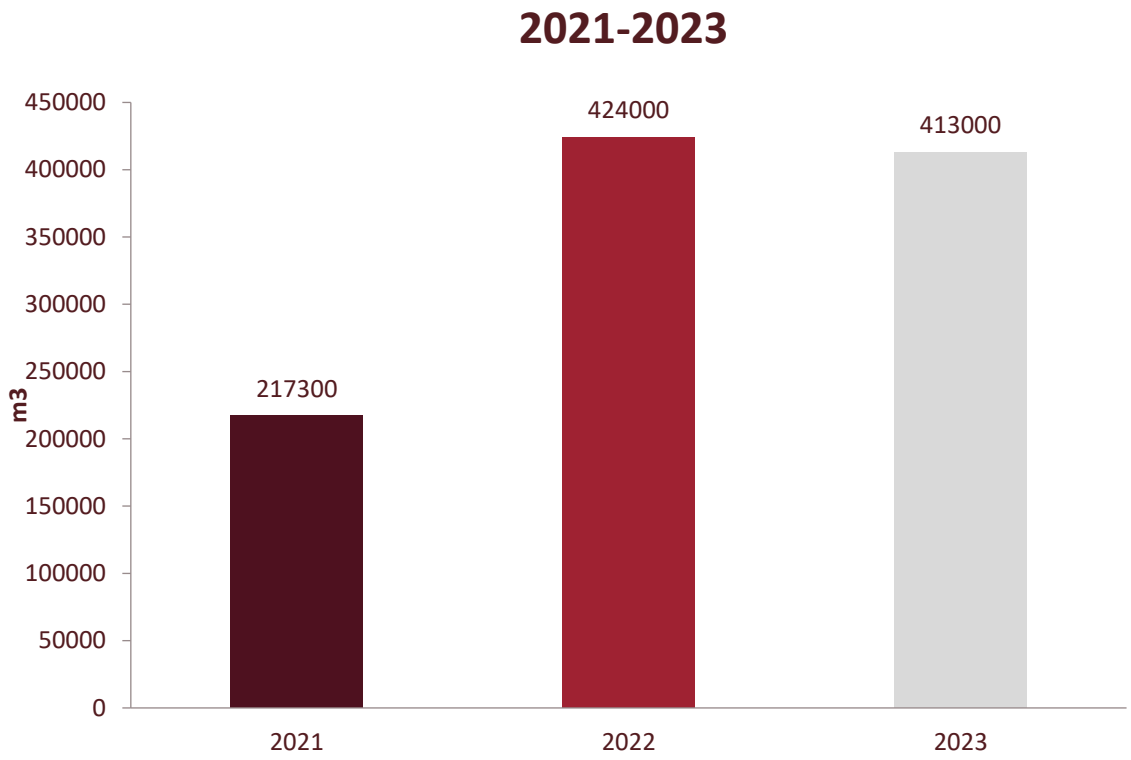
The strong decrease in emissions in 2021 is related to COVID-19 and the travel restriction/ban. During the same period, we have not participated in any ship-naming ceremonies, and or delivery of new ships. Docking of ships has been monitored digitally form Norway with local representatives on site. Full normal operations from 2023.

Releases to Land



The use of various materials has decreased in 2020 and 2021, this can be attributed to the prolonged periods with “home-office”.

Releases to sea



The amount of sewage is traditionally stable, but in 2021 we can see a decrease related to the prolonged periods with “home-office”.

3.3. Global Reporting Initiative (GRI-G4)

Category: Environmental

GRI – G4 EN3 - Energy Consumption within the Organization						
		2019	2020	2021	2022	2023
a)	Total fuel consumption from non-renewable sources (TJ)	2225 (15vsl)	2119 (14vsl)	2119 (14vsl)	1897 (14vsl)	2342,9 (14vsl)
b)	Total fuel consumption from renewable sources	None	None	None	None	None
c)	Total electricity consumption (office) (TJ)	2,6	-	-	2,3	2,1
d	Total energy sold	N/A	N/A	N/A	N/A	N/A
e)	Total energy consumption (ship and shore) (TJ)	2228	2066	2119	1900	2345
f)	Methodology: Continuous reporting of actual values					

GRI – G4 EN6 - Reduction of Energy Consumption						
		2019	2020	2021	2022	2023
a)	Reduction of energy consumption (Baseline 2010)	647 TJ	647TJ	869TJ		530
b)	Type(s) of energy (ships/office)	Fuel oil/Electricity	Fuel oil/Electricity	Fuel oil/Electricity	Fuel oil/Electricity	Fuel oil/Electricity
c)	Baseline for calculation	2010-2019	2010-2020	2010-2021	2010-2022	2010-2023
d	Methodology: Continuous reporting of actual values					

GRI – G4 EN8 – Total water withdrawal by source						
		2019	2020	2021	2022	2023
a)	Total water withdrawn from municipal water supply (mT)	446	xx	250	423	413
b)	Methodology: Continuous reporting of actual values					

GRI – G4 EN23 – Total volume of Waste						
		2019	2020	2021	2022	2023
a)	Total volume of hazardous and non-hazardous waste (ship) (M3)	740	696	954	853	913
b)	Source: Disposed directly by the Organisation and actual values reported.					

	GRI – G4 EN24 – Significant spills					
		2019	2020	2021	2022	2023
a)	Total number and volume of significant spills	NIL	NIL	NIL	0.2 cbm.	NIL
b)	Location and material	N/A	N/A	N/A	Oil contaminated Garbage	N/A
c)	Impact of significant spills	N/A	N/A	N/A	N/A	N/A