Environmental Report

The J.J. Ugland Companies

Ugland Marine Services AS - 2022

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1. Introduction

The objective of the report is to give status of Environmental elements for UMS's performance during 2022.

2. Vessels

2.1 Key performance indicators 2022

Area	Indicator text	Resp.	Goal 2022	Q1-ytd	Q2-ytd	Q3-ytd	2022
Environment 1	Number of oil spill to sea. (Fleet)	TO	0	0	0	1	1
Environment 2	Bulk: Landed sludge vs. burned onboard	TO	90 %	95 %	89 %	92 %	92 %
Environment 3	"Juanita": Fuel Consumption (kg/Hour baseline 2020)	GAL	≤0,5%	0,5 %	-3,9 %	-6,0 %	-5,8 %
Environment 4	"Juanita": % time in port connection to shore power	GAL	65 %	60,4 %	22,6 %	41 %	51,0 %
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 %

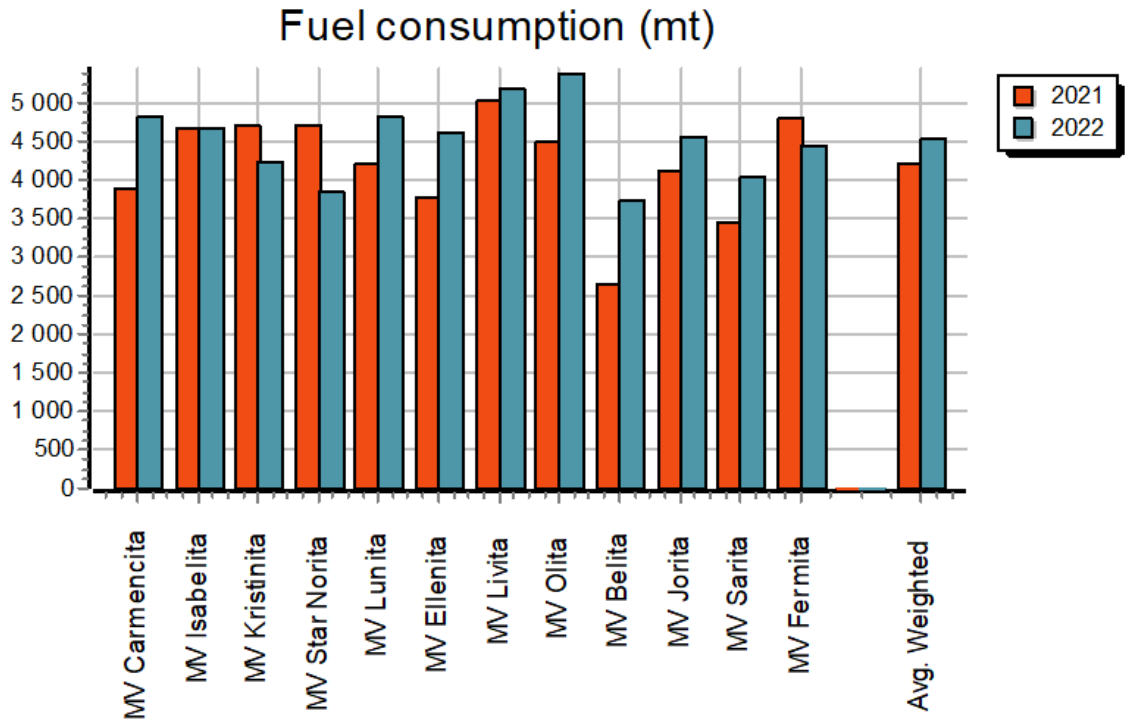
2.2 Oil spills

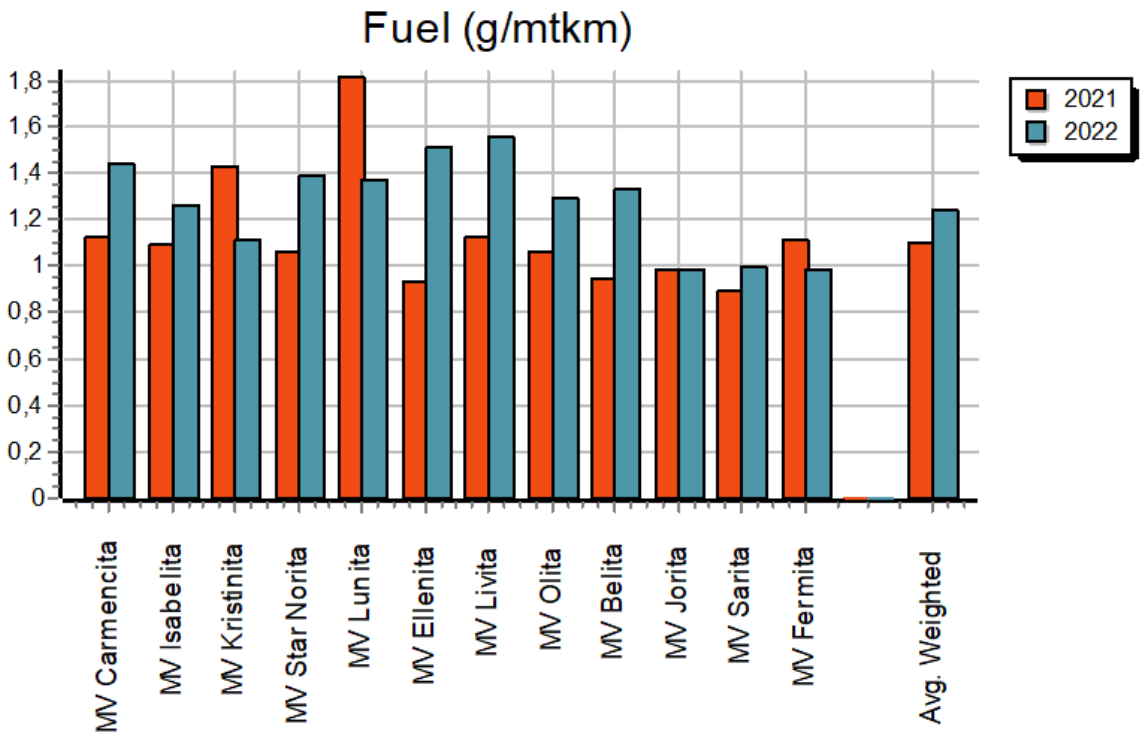
1 incident of oil spill to sea reported during 2022

2.3 Environmental programs 2022 – Vessels

No.	Text	Objectives	Programs	Actions
1	The Government's Action Plan for Green Shipping	Comply with IMO climate requirements	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	EEXI process -Reducing GHG	1. Ref. Project Action Register EEXI. 2. Implementation of EPL (Engine Power Limitation). 3. Evaluate other EEXI saving options. 4. New vessel Technical file for non-compliant EEXI vessels. 5. OMM (Onboard Management Manual) to be provided. 6. Ammendment / edit of MoM and MSM needs to be done.
2b	Environmental Programs - Bulk	Reduce fuel consumption to comply with IMO requirements	CII process -Reducing GHG	1. Ref. Project Action Register SEEMP III. 2. Implementation of measures to reduce CII index. 3. Decission to be made to define desired CII ratings. 4. NAVTOR installed to register CII. 5. Fuel oil counters to be installed . 6. Office recources to be appointed for day to day follow up. 7. Ammendment / edit of MoM and MSM needs to be done.
3a	Environmental Programs - PSV	Reduce fuel consumption.	Hull Inspection/Mapping (Annually). Srubbing of hull to be evaluated pending inspection result. Plan and purpose ref. SEEMP (ECOsubea offering).	1. Hull inspection planned 2022. 2. Follow up pending Hull Inspection. Planned week 19. 3. SEEMP III.
3b	Environmental Programs - PSV	Reduce fuel consumption.	Propeller Cleaning VUVI requested to test propeller cleaning. Equinor as observer	1. Propeller polishing planned 2022. 2. Follow up pending propeller Inspection. 3. SEEMP III.
3c	Environmental Programs - PSV	Reduce fuel consumption.	Biofuel testing. Request from Equinor to use Juanita as test vessel for biofuel.	1. Procedure for testing to be established. 2. If test to be done, date to be agreed. 3. Follow up/status test pending. 4. SEEMP III.
3d	Environmental Programs - PSV	Reduce fuel consumption.	Various Various fuel reducing measures	1. Transit - Planning. 2. Shore power supply connection. 3. Stand by - Redusing running machinery. 4. Reducing ballast during summer month?? (draft restriction). 5. Fuel Incentive Program.
4	Environmental Programs - HLV	Reduce fuel consumption	1.Shore connection where available/save energi 2.Deck Lighting.Change to LED light -save energi	1.Vessel request for quay with shoreconnection. 2.When deck lights to be changed,LED lights to be used.

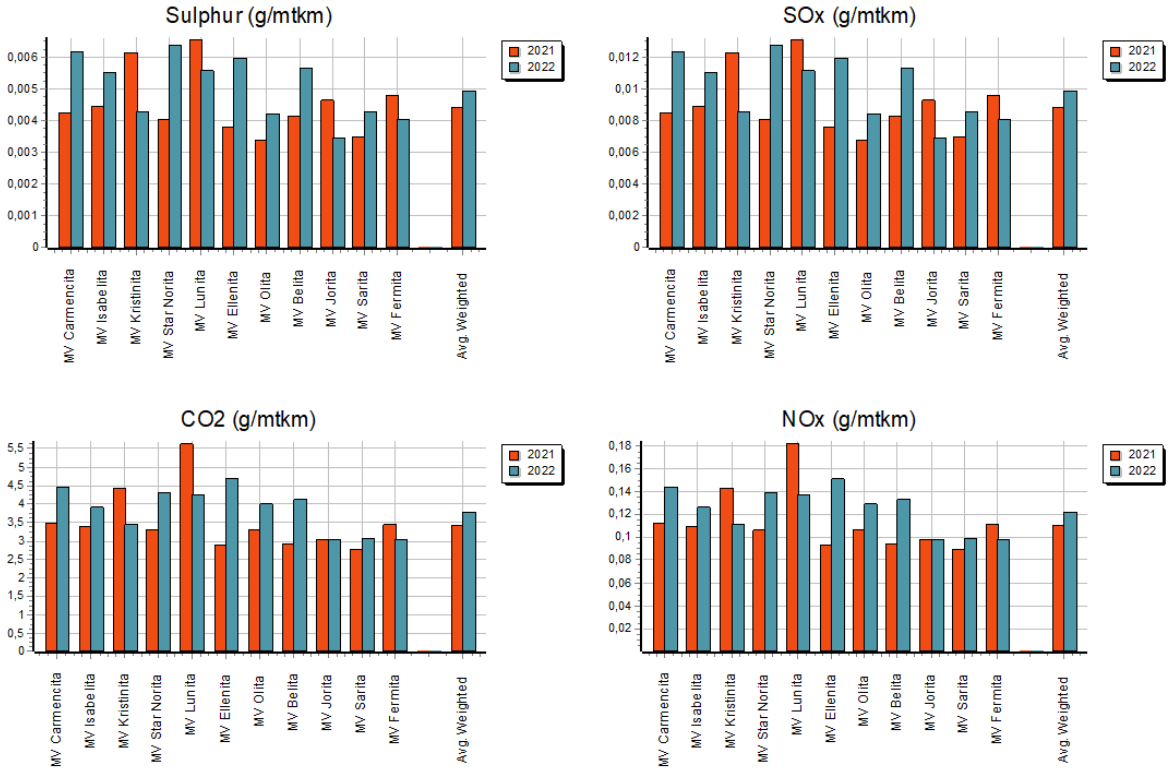
2.4 Consumption monitoring – Bulk



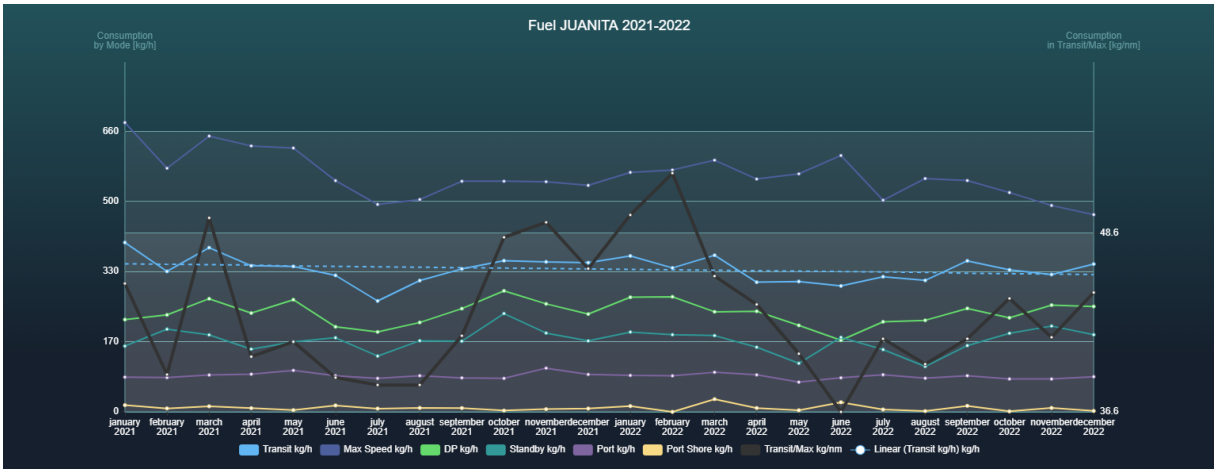


2.5 Emission monitoring – Bulk

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



2.6 Consumption monitoring – PSV



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 2022 – Office

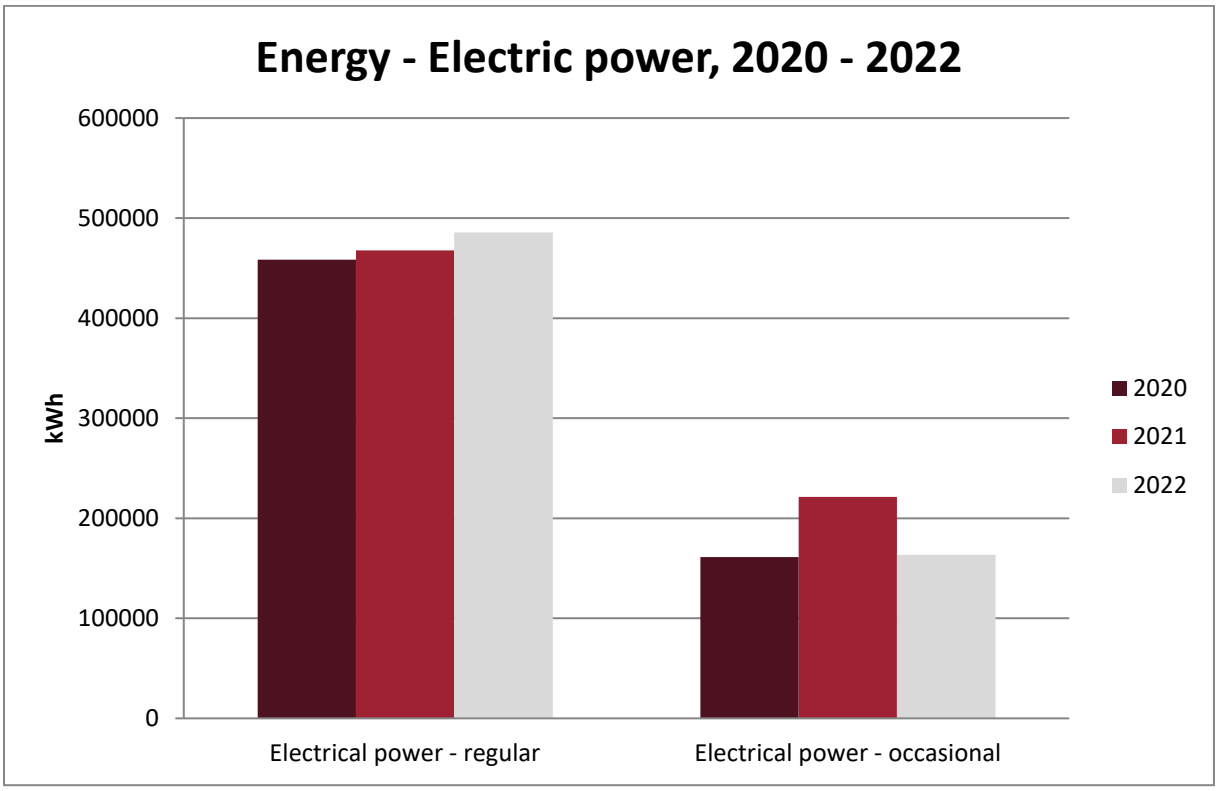
No.	Text	Objectives	Programs	Action(s)
5	Environmental Programs Grimstad	Improve local environment	1. Digitize newspaper and magazines. 2. Digitizing filing archive. 3. Evalute environmental friendly cleaning products	1. News papers now in electronic subscription only 2. Pending "open" office 3. Pending "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 energy monitoring

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

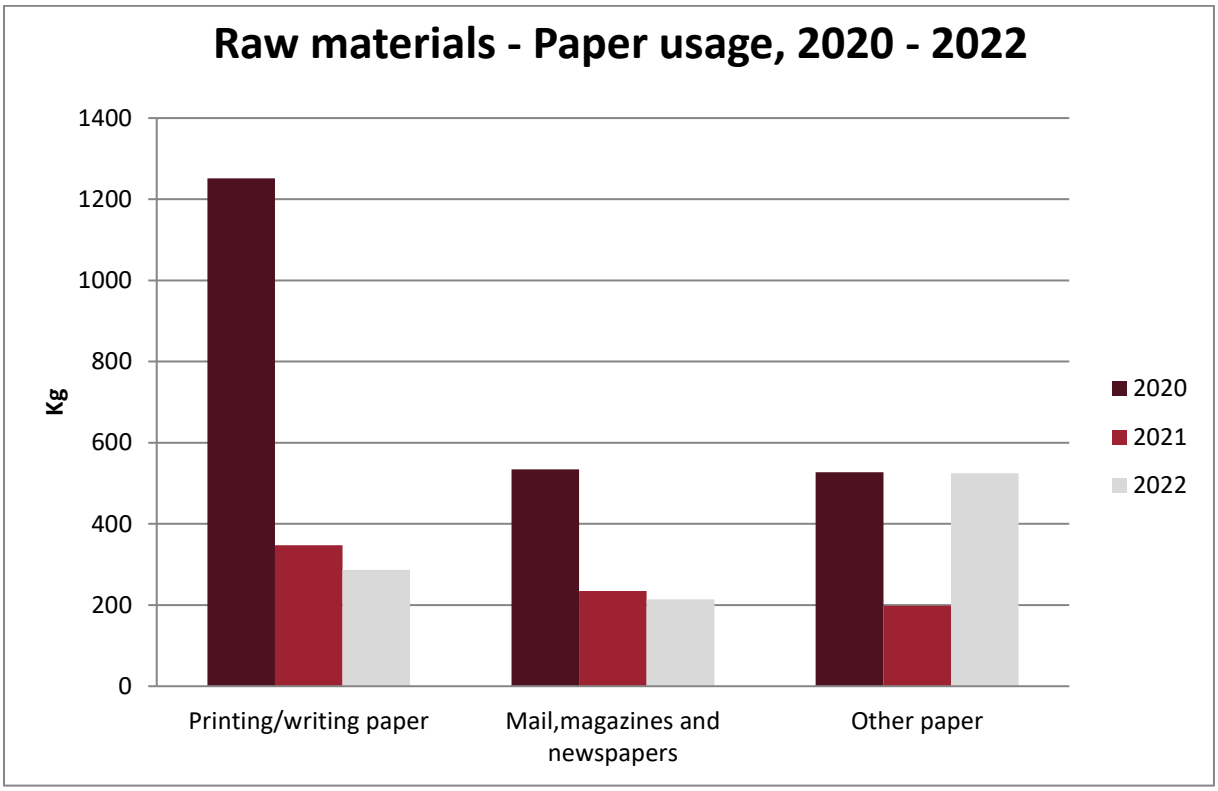
Consumed raw materials are mainly paper and tap water. Office equipment and utensils contribute to a lesser degree.

Electric power



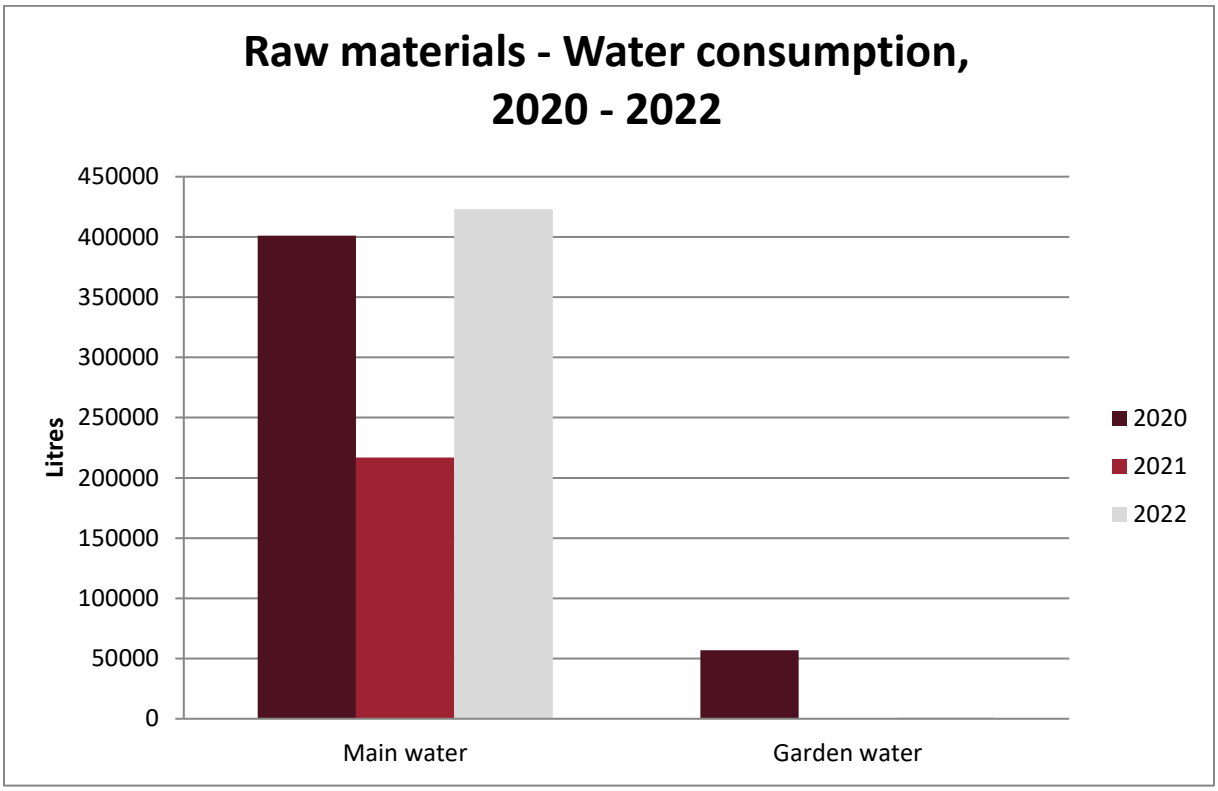
There are small variations in the regular use of electric power. Occasional power is only for heating, and during 2020 and 2021, we had long periods of "home office". We kept the temperature in the office steady since the duration of this period was uncertain. The main reason for increased power consumption (occasional) is primarily due to lower outer temperatures.

Paper usage



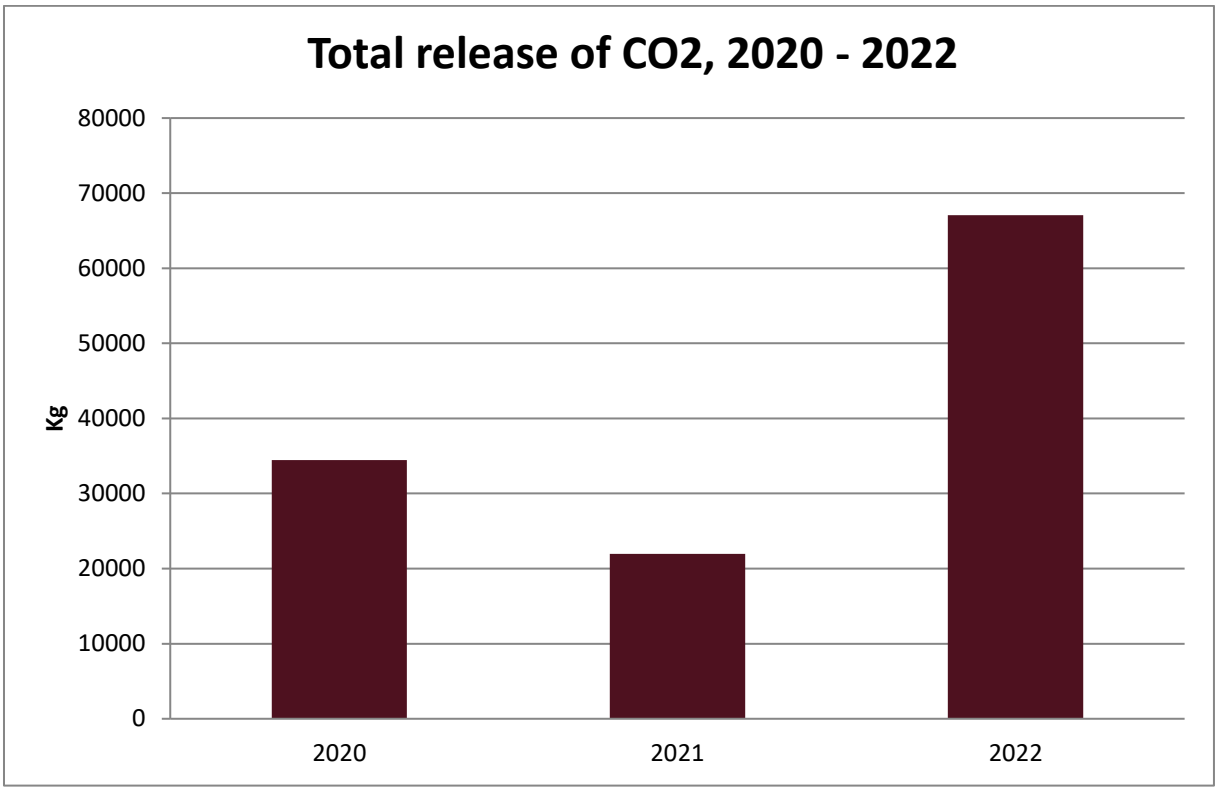
The considerable increase in 2020 printing/writing paper can be attributed to the disposal of paper originals/copies as a result of digitising files (Environmental Program-1). We can see that the positive trend of reducing magazines and newspapers continues as a result of online reading. Other paper consumption is back to pre-Covid amounts, due to less use of "home office".

Water consumption



The use of main water is steady, but the 2021 figures are related to the use of "home office". The very low consumption of garden water in 2021 and 2022, are mainly due to weather and sufficient rain fall.

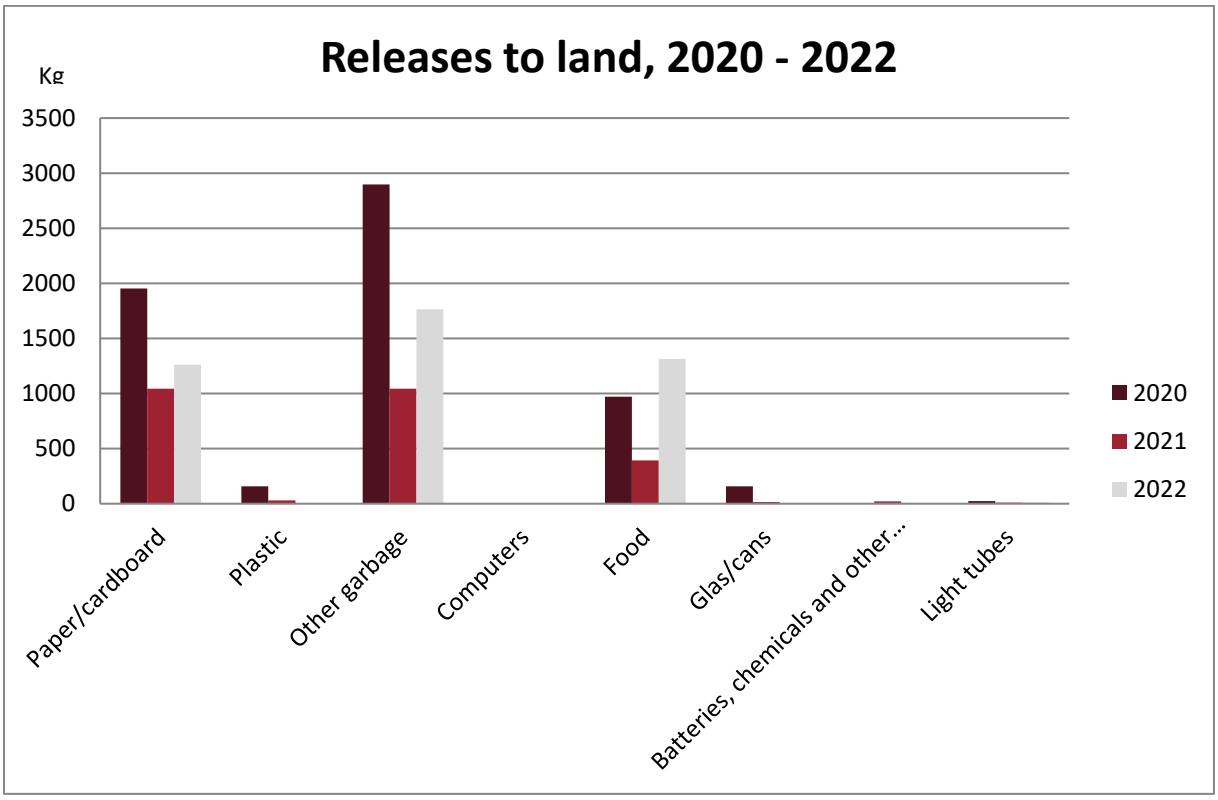
Co2



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.

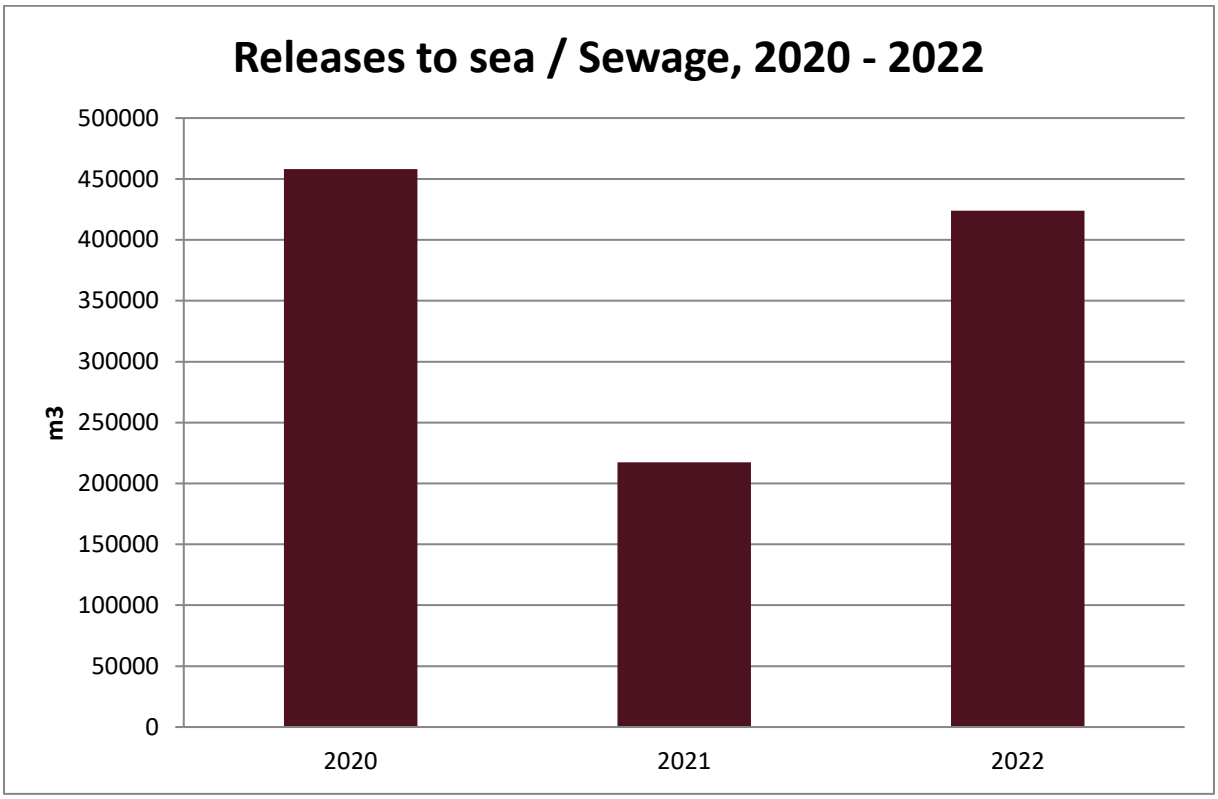
The strong decrease in emissions in 2020 and 2021 is related to COVID-19 and the travel restriction/ban. During the same period, we have not participated in any ship-naming ceremonies, and or delivery of new ships. Docking of ships has been monitored digitally form Norway with local representatives on site. We monitored a rise in 2022, due to a higher focus on vessel visits from all departments, however emissions are still below a “normal” year pre Covid.

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". For 2022 increased usage of materials reflecting the normalisation of office use post Covid.

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". For 2022 increased figures reflecting the normalisation of office use post Covid.