



Foreland Shipping Limited
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Foreland Shipping Limited

Carbon Reduction Plan

Publication date: 22nd June 2022

Commitment to achieving Net Zero

Foreland Shipping Limited (FSL) is committed to achieving Net Zero emissions by 2050.

Emissions reduction targets – Existing Ships

COVID limitations in 2020 and 2021 have reduced the tCO₂e emissions by around 10%. We expect these to return to pre-covid levels by 2023 before reducing as a result of our carbon reduction strategies.

Each ship will be provided with an enhanced Ship Energy Efficiency Management Plan (SEEMP) by the end of 2022. This approved document is a ship specific plan to improve the energy efficiency in a cost-effective manner. We expect this to reduce emissions by 1-2%.

Each ship has been surveyed for emissions and the Energy Efficiency Existing Ship Index (EEXI) rating calculated and externally verified. We will ensure that the rating will be within limits of the international maximum EEXI for the ship type by 1st January 2023. We expect this to reduce emissions by 1-2%.

We will work with the UK Ministry of Defence who have shared Operational Control to manage the routing and loading of our ships to optimise the total transport work undertaken in a given calendar year as measured by the Carbon Intensity Index (CII). The CII of the ships will be compared with the applicable international benchmark on an annual basis from 2023 when the grade boundaries are set. We expect this to reduce controllable emissions by 5-7%. In 2021 we managed to achieve a reduction of 3.8%

We project that carbon emissions will decrease over the next eight years to 89,000 tCO₂e by 2030. This is a reduction of 7%.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2021 baseline. The carbon emission reduction achieved by these schemes equate to **367** tCO₂e, a 0.5% reduction against the 2020 baseline and the measures will be in effect when performing the contract.

Action	Description	CO2 Saving	Status
Change the ships to LED lighting.	LED lights replacing filament and fluorescent tube lamps throughout the ship on a fail and replace basis.	0.5%	Ongoing

AW Ship Management is responsible for the environmental management of the ships and holds the quality standard ISO 14001: Environmental Management.

In the future we hope to implement further measures for existing ships such as:

Measure	Description
Automated Performance Monitoring	Install whole ship performance monitoring equipment to provide feedback on emissions, mechanical condition, and trends to improve performance.
Shore Power	Modify the ships to accept electrical power from the national grid in ports where the facility is available, and the electricity generated has a lower carbon footprint than that generated on board.
Review the Engine Settings for economic speed range	Work with the UK Ministry of Defence to optimise economic speeds and set up/modify the mechanical plant accordingly.
Integrate Cargo Planning with Voyage Planning	Work with the UK Ministry of Defence who have shared Operational Control to integrate cargo planning with voyage planning to provide management information for the optimisation of load

At the end of the operational life of the ships they will either be re-used in another trade or disposed of in accordance with The International Maritime Organisation Convention for the Safe and Environmentally Sound Recycling of Ships. We have modelled the scenario that all Foreland ships will be disposed of by 2050.

Future ships will be procured based on functionality and installation of suitable emergent and novel technologies to reduce tCO₂e as and when they become available.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2020			
Additional Details relating to the Baseline Emissions calculations.			
DNV GL (accreditation number D-VS-16026-01-00) verified the tCO ₂ e on all FSL ships for the year 2020 in accordance with EU Regulation 2015/757. This has become the chosen baseline.			
Baseline year emissions:			
EMISSIONS	TOTAL (tCO₂e)		
Scope 1	(Hurst Point 24,748 tCO ₂ e, Hartland Point 23,965 tCO ₂ e, Eddystone 24,513 tCO ₂ e, Anvil Point 22,727 tCO ₂ e) Total 95,953 tCO₂e		
Scope 2	Office electricity 2.6 tCO₂e (based on the Equity Share of Office Costs)		
Scope 3 (Included Sources)	4.Upstream transportation and distribution	Transportation between technical warehouse and ships.	4.3 tCO ₂ e
	5. Waste generated in operations	Transport of waste to approved disposal sites in the UK	2.6 tCO ₂ e
	6. Business Travel	Transportation of employees (not in owned vehicle)	1.8 tCO ₂ e
	7. Employee Commuting	Transport of employees between their homes and worksites	43.6 tCO ₂ e
	9. Downstream transportation and distribution	Transportation and distribution of products sold by the reporting company in the reporting year	Nil – included in Scope 1.
Total Emissions	96,008 tCO₂e		

Current Emissions Reporting

Reporting Year: 2021			
DNV GL (accreditation number D-VS-16026-01-00) verified the tCO ₂ e on all FSL ships for the year 2021 in accordance with EU Regulation 2015/757.			
EMISSIONS	TOTAL (tCO₂e)		
Scope 1	(Hurst Point 24,616 tCO ₂ e, Hartland Point 23,426 tCO ₂ e, Eddystone 20,813 tCO ₂ e, Anvil Point 23,426 tCO ₂ e) Total 92,281 tCO₂e		
Scope 2	Office electricity 2.6 tCO₂e		
Scope 3 (Included Sources)	4.Upstream transportation and distribution	Transportation between technical warehouse and ships.	4.5 tCO ₂ e
	5. Waste generated in operations	Transport of waste to approved disposal sites in the UK	2.2 tCO ₂ e
	6. Business Travel	Transportation of employees (not in owned vehicle)	2.2 tCO ₂ e
	7. Employee Commuting	Transport of employees between their homes and worksites	47.3 tCO ₂ e
	9. Downstream transportation and distribution	Transportation and distribution of products sold by the reporting company in the reporting year	Nil – included in Scope 1.
Total Emissions	92,340 tCO₂e		

Declaration and Sign Off

This plan has been completed in accordance with HM Government Procurement Policy Note 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors.

Signed on behalf of the Foreland Shipping Limited



Stuart Williams
Managing Director
Foreland Shipping Limited
22nd June 2022