



Carbon Reduction Plan

Supplier name: Fugro NV

Publication date: July 2022

This Carbon reduction plan is applicable to Fugro NV and all its subsidiaries.

Commitment to achieving Net Zero

Fugro NV is committed to achieving net zero emissions by 2035 covering emissions from its operations (scope 1 and 2 emissions). Moreover, Fugro is committed to achieving net zero within its value chain (scope 3 emissions) by 2050.

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.	
Fugro reports emissions data in line with the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard, and the Corporate Value Chain (Scope 3) Accounting and Reporting Standard under the 'Operational Control' approach. Fugro has reported vessel carbon emissions in its annual report and through CDP since 2018. Since 2019, also scope 1 emissions other than vessels, and scope 2 emission data have been collected and reported through CDP. 2020 is used as the baseline year, because the data quality of carbon emission data is constantly increasing following efforts to develop knowledge and awareness throughout the organisation and to improve reporting processes. Especially the completeness of scope 1 emissions from other sources than the vessels is improving. Fugro has reported only on CO ₂ , because this constitutes around 99% of Fugro's total greenhouse gas emissions.	
Fugro starts obtaining external assurance of its emissions data as of 2022.	
The first-time estimate of scope 3 emissions has been based on 2020 data.	
Baseline year emissions: 2020	
EMISSIONS	TOTAL (ktCO₂e)
Scope 1 – Vessels	180

Scope 1 – Other sources	25
Scope 2	12
Scope 3 (Includes all relevant scope 3 emission categories)	
1. Purchased goods and services	342
3. Fuel and energy-related activities	7
4. Upstream transportation and distribution (spend-based estimate)	25
5. Waste generated in operations (spend-based estimate)	1
6. Business travel (hybrid method using flight data)	9
7. Employee commuting (average data method)	7
9. Downstream transportation and distribution (not applicable)	0
Total Emissions	608
Revenue 2020 (EUR million)	1,386
Total emissions / revenue (ktCO ₂ per EUR million)	0.44

Current Emissions Reporting

Reporting Year: 2021	
EMISSIONS	TOTAL (ktCO₂e)
Scope 1 – Vessels	184
Scope 1 – Other sources (increased due to more complete data)	28
Scope 2	8
Scope 3 (Based on 2020 data; 2021 scope 3 estimate not yet available)	
1. Purchased goods and services	342
3. Fuel and energy-related activities	7
4. Upstream transportation and distribution (spend-based estimate)	25
5. Waste generated in operations (spend-based estimate)	1
6. Business travel (hybrid method using flight data)	9
7. Employee commuting (average data method)	7
9. Downstream transportation and distribution (not applicable)	0

Total Emissions	611
Revenue 2021 (EUR million)	1,462
Total emissions / revenue (ktCO ₂ per EUR million)	0.42

Emissions reduction targets

Fugro targets to become net-zero by 2035 covering all direct and indirect emissions from its operations (scope 1 and scope 2 emissions). To support this goal, Fugro has formally committed to setting science-based targets on its absolute CO₂ emission reduction in line with the Science Based Targets initiative (SBTi). The process of setting science-based targets and having them validated by SBTi takes approximately one to two years (2022-2023).

Fugro's current intermediate targets are to lower vessel emission intensity by 20% in 2025 compared to 2020, and to source 80% of electricity consumption by our offices, laboratories, workshops and other facilities from renewable energy by 2025. By the end of 2021 this was 43%, up from 31% in 2020.

Progress against these targets can be seen in the graphs below:

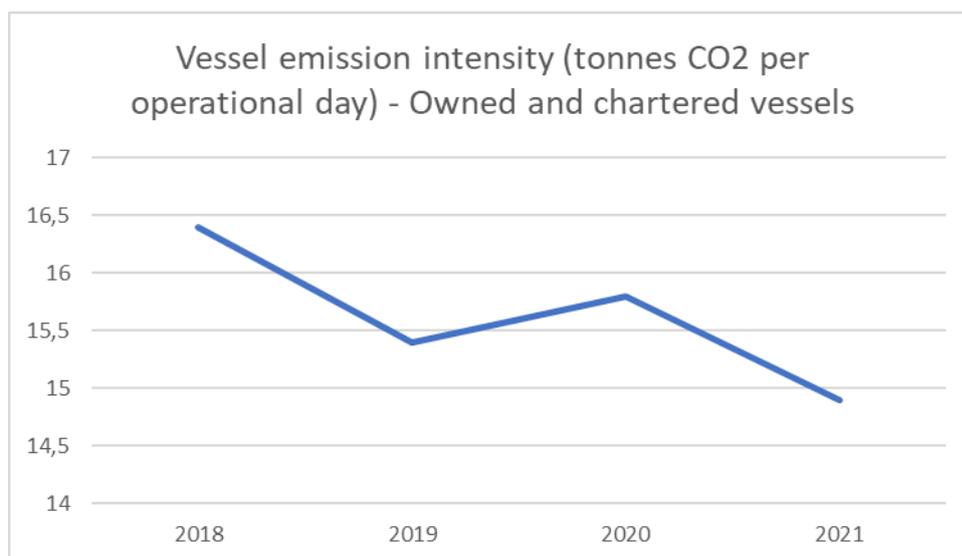


Figure 1: Vessel emission intensity per operational day 2018-2021

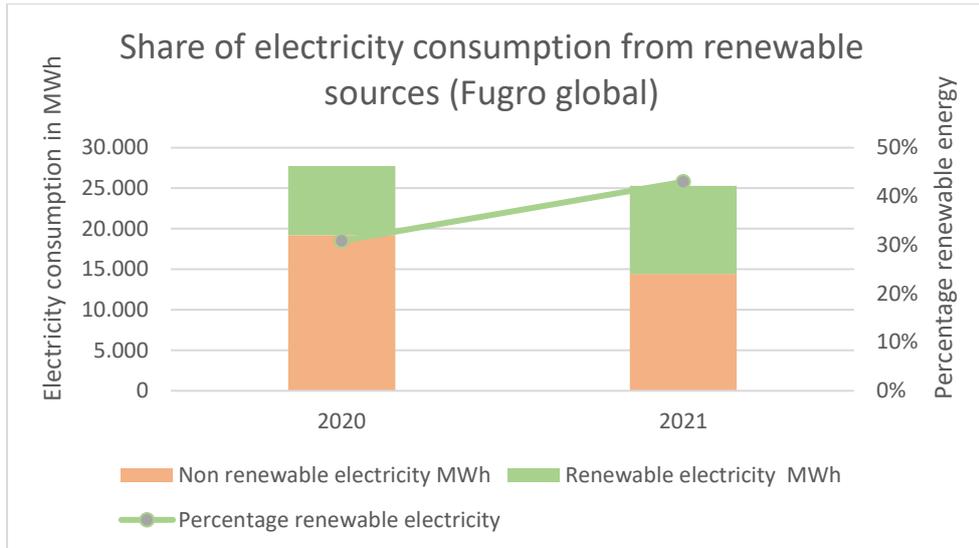


Figure 2: Share of electricity consumption from renewable sources 2020-2021

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2020 baseline.

Vessel emission reduction

Fugro focuses most effort on the reduction of vessel emissions, as these represent more than 80% of Fugro’s total scope 1 and scope 2 emissions.

Reducing vessel emissions requires significant multi-year investments. Fugro’s net-zero fleet in 2035 will consist of low or zero-emission fuelled vessels and uncrewed surface vessels (USVs). To that end, Fugro’s long-term investments entail the conversion of vessels to run on the low carbon emission fuel methanol, replacement of older vessels, and the further development and utilisation of uncrewed surface vessels and remote operations centres. The use of uncrewed surface vessels leads to a more than 80% reduction on CO₂ emissions compared to surveys executed with a traditional crewed survey vessel. Fugro plans to have the first methanol conversion for its survey vessel Fugro Pioneer to be completed early 2023. In the medium term, Fugro also invests in hybrid propulsion systems for its vessels to improve fuel efficiency. In the short term, Fugro continues to improve its vessels’ energy efficiency through optimisation tools for fuel-efficient operations ranging from relatively simple solutions such as less heat absorbent deck paints and LED-lighting, to using route optimisation tools and the economic speed model. In addition, Fugro offers its clients biofuel as a short-term solution. Supported by these measures, in 2021, Fugro further reduced the emission intensity of its own vessels by 3% to 14.8 tonnes/operational day.



Figure 3: Vessel emission reduction plan

Besides owned vessels, Fugro uses chartered vessels for its operations. Since 2018, Fugro monitors CO₂ emissions from chartered vessels. In 2021, Fugro’s vessel selection vetting procedure has been strengthened with a CO₂ index.

Other scope 1 emission reduction

Fugro increasingly uses electrified and hybrid assets in its land site characterisation business.

Scope 2 emission reduction

For 2025, Fugro targets at least 80% renewable energy consumption for its offices and other facilities worldwide. This will be achieved through transition to renewable energy suppliers and by seeking alternatives in those countries where green energy is not yet readily available. During 2020, many Fugro offices were able to switch to renewable energy. These offices, such as the UK offices, had their first full year of 100% renewable electricity in 2021. As a result, in 2021 about 43% of Fugro’s electricity consumption was from renewable sources. In the region Europe-Africa 74% of all electricity consumed was renewable, in the Americas this was 59%. Asia Pacific and Middle East & India prove to be more challenging due to absence of local renewable options on the grid. Fugro is looking for solutions in these regions.

Scope 3 emission reduction

In 2021, Fugro has conducted a spend-based analysis of its scope 3 emissions. Based on 2020 procurement data, and using widely accepted databases and conversion factors, Fugro’s 2020 scope 3 emissions were estimated at the equivalent of 391 kilotonnes CO₂. The majority of scope 3 emissions relates to purchased goods and services. This analysis will be used to develop plans and targets to drive Fugro’s efforts on lowering its scope 3 emission reductions, as part of setting science-based emission reduction targets.



Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 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 standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

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) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:

Name: Peter Burger

Role: Global Director Safety & Sustainability

Signature:

A handwritten signature in blue ink, appearing to read "Peter Burger", with a long horizontal flourish extending to the right.

Date: 12 July 2022

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³<https://ghgprotocol.org/standards/scope-3-standard>