

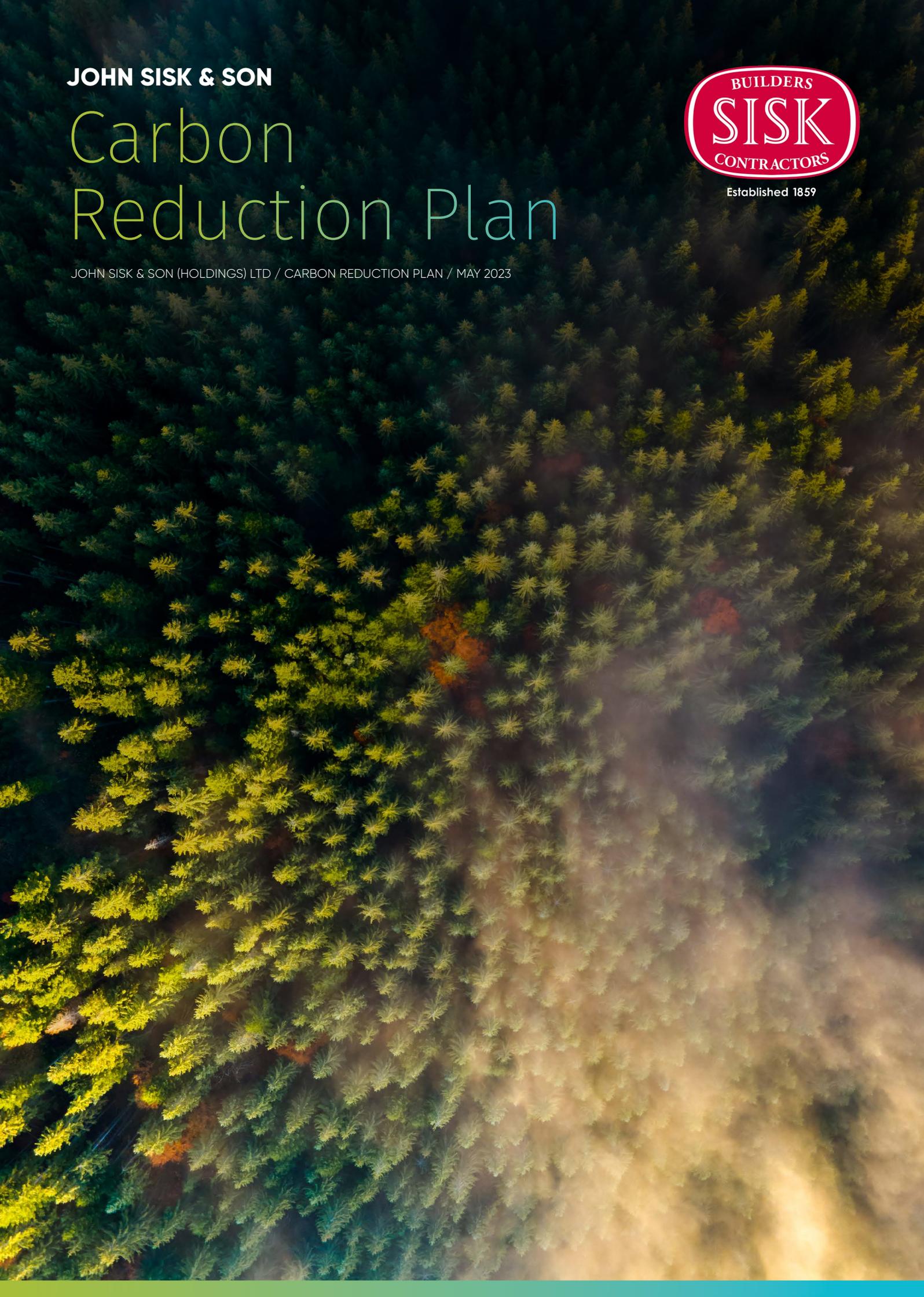
JOHN SISK & SON

Carbon Reduction Plan

JOHN SISK & SON (HOLDINGS) LTD / CARBON REDUCTION PLAN / MAY 2023



Established 1859



Carbon Reduction Plan

Published: May 2023

This document outlines the Carbon Reduction Plan for John Sisk & Son (Holdings) Limited in response to Public Procurement Notice (PPN) 06/21. This plan covers all Sisk operations as reported through the Achilles Carbon Reduce Programme, and which is reported in our 2030 Sustainability Roadmap, [Building today, Caring for tomorrow.](#)

Commitment to Achieving Net Zero

Sisk is committed to achieving Net Zero emissions by 2030, this includes our Scope 1, 2 and those Scope 3 emissions upon which we have immediate influence; Fuel and energy related activities not included in Scope 1 and 2 [Sisk purchased electricity T&D losses]; Waste generated in operations [disposal to landfill]; and Business travel [air travel long and short haul; ferry travel; grey fleet; rail travel national and international; rental car and taxi]. In 2021 we became a certified carbon neutral business through measuring, managing and offsetting our unavoidable emissions through the Achilles Carbon Reduce Programme.



Baseline Emissions Footprint

Baseline Year: 2019

Additional Details relating to the Baseline Emissions calculations.

John Sisk & Son (Holdings) Limited selected 2019 as the baseline year for measuring carbon reductions against, with this being the first year that verification of our emissions was achieved through the Achilles Carbon Reduce Programme, in accordance with ISO 14064-1.

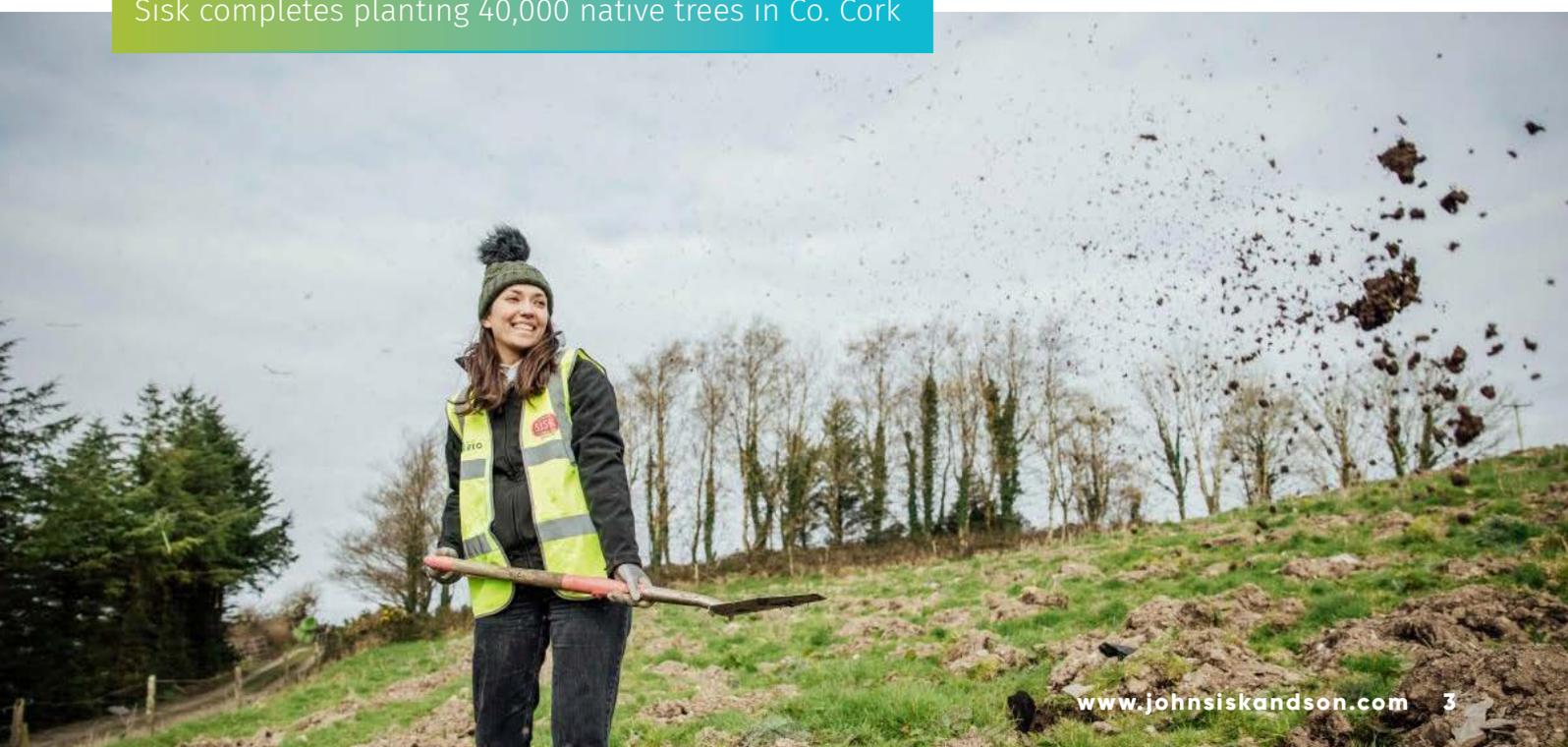
As required by the programme our emissions inventory includes scope 1, 2 and mandatory scope 3 emissions. Our selected scope 3 emissions are comprised from actual data, with this used to calculate: fuel and energy related activities, waste generated in operations, and business travel.

Our externally verified emissions inventory for our baseline and reporting years also includes our scope 3 emissions from purchased goods and services [material purchases, subcontract services and water supply], Fuel and energy related activities not included in Scope 1 and 2 [Client supplied electricity including T&D losses, and subcontract fuel], upstream transportation and distribution [road freight], waste generated in operations and water treatment, business travel [hotel accommodation] and employee commuting. Work is currently ongoing to capture further actual data, and where not available estimates of the relative emissions from these sources have been included in our baseline and subsequent reporting years.

For clarity 'downstream transportation and distribution' has not been included in our inventory as this category is not applicable to our operations due to Sisk providing project management and construction services, and do not own or sell the end products.

The figures below are for the whole of John Sisk & Son (Holdings) Limited for completeness.

Sisk completes planting 40,000 native trees in Co. Cork



Baseline Emissions Footprint - Baseline Year 2019

Emissions Total (tCO₂e) ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme

Scope 1 8,307.81 ⓘ 8,307.81

Scope 2 2,637.43 ⓘ 2,637.43

Scope 3 561,856.85 ⓘ 3,559.50

(Including Sources)

Our Scope 3 emissions breakdown is as follows:

1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	541,700.91
2	Capital goods	0
3	Fuel and energy related activities not included in Scope 1 and 2 Including: Electricity T&D losses; client supplied electricity; supply chain gas oil & HVO	4,046.90 ⓘ 158.47
4	Upstream transportation and distribution Including: road freight	8,908.59
5	Waste generated in operations Including: disposal to landfill, reuse, recycle, EfW; water treatment	3,236.81 ⓘ 1,060.37
6	Business travel Including: Air travel (short and long haul); Ferry travel; Rail travel (international & national); Grey fleet; Rental car; Taxi; Hotel accommodation	2,705.64 ⓘ 2,340.66
7	Employee Commuting	1,258.00
8	Upstream leased assets	0
9	Downstream transportation & distribution	0
10	Processing of sold products	0
11	Use of sold products	0
12	End-of-life treatment of sold products	0
13	Downstream leased assets	0
14	Franchises	0
15	Investments	0

The below Scope 3 categories have been assessed and determined as not applicable due to our operations, they have been reported as 0 above:

2. Capital goods – Sisk purchases a small quantity of construction equipment which has been assessed and determined as de minimis.

8. Upstream leased assets – Sisk do not lease assets which are operated by the company.

9. Downstream transportation & distribution – Sisk provide project management and construction services and do not sell end products.

10. Processing of sold products – Sisk provide project management and construction services and do not sell end products.

11. Use of sold products – Sisk provide project management and construction services and do not sell end products.

12. End-of-life treatment of sold products – Sisk provide project management and construction services and do not sell end products.

13. Downstream leased assets – Sisk owns and leases a small number of assets which are operated by the lessee which have been assessed and determined as de minimis.

14. Franchises – Sisk does not operate any franchises.

15. Investments – Sisk does not have any investments which require reporting under this category.

Total Emissions 572,802.09 ⓘ 14,504.74

Previous Emissions Reporting - Reporting Year 2020

Emissions **Total (tCO₂e)** ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme

Scope 1 6,361.17 ⓘ 6,361.17

Scope 2 1,961.17 ⓘ 1,961.17

Scope 3 559,647.37 ⓘ 3,030.95

(Including Sources)

Our Scope 3 emissions breakdown is as follows:

1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	535,938.06
2	Capital goods	0
3	Fuel and energy related activities not included in Scope 1 and 2 Including: Electricity T&D losses; client supplied electricity; supply chain gas oil & HVO	3,971.67 ⓘ 68.59
4	Upstream transportation and distribution Including: road freight	13,899.73
5	Waste generated in operations Including: Waste disposal to landfill, reuse, recycle, EfW; water treatment	3,264.91 ⓘ 1,448.60
6	Business travel Including: Air travel (short and long haul); Ferry travel; Rail travel (international & national); Grey fleet; Rental car; Taxi; Hotel accommodation	1,627.00 ⓘ 1,513.76
7	Employee Commuting	946.00
8	Upstream leased assets	0
9	Downstream transportation & distribution	0
10	Processing of sold products	0
11	Use of sold products	0
12	End-of-life treatment of sold products	0
13	Downstream leased assets	0
14	Franchises	0
15	Investments	0

The below Scope 3 categories have been assessed and determined as not applicable due to our operations, they have been reported as 0 above:

2. Capital goods – Sisk purchases a small quantity of construction equipment which has been assessed and determined as de minimis.

8. Upstream leased assets – Sisk do not lease assets which are operated by the company.

9. Downstream transportation & distribution – Sisk provide project management and construction services and do not sell end products.

10. Processing of sold products – Sisk provide project management and construction services and do not sell end products.

11. Use of sold products – Sisk provide project management and construction services and do not sell end products.

12. End-of-life treatment of sold products – Sisk provide project management and construction services and do not sell end products.

13. Downstream leased assets – Sisk owns and leases a small number of assets which are operated by the lessee which have been assessed and determined as de minimis.

14. Franchises – Sisk does not operate any franchises.

15. Investments – Sisk does not have any investments which require reporting under this category.

Total Emissions 567,969.71 ⓘ 11,353.29

Previous Emissions Reporting - Reporting Year 2021

Emissions **Total (tCO₂e)** ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme

Scope 1 8,109.99 ⓘ 8,109.99

Scope 2 2,507.45 ⓘ 2,507.45

Scope 3 485,420.09 ⓘ 2,289.95

(Including Sources)

Our Scope 3 emissions breakdown is as follows:

1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	464,165.79
2	Capital goods	0
3	Fuel and energy related activities not included in Scope 1 and 2 Including: Electricity T&D losses; client supplied electricity; supply chain gas oil & HVO	7,003.61 ⓘ 150.69
4	Upstream transportation and distribution Including: road freight	10,769.35
5	Waste generated in operations Including: Waste disposal to landfill, reuse, recycle, EFW; water treatment	1,378.17 ⓘ 542.46
6	Business travel Including: Air travel (short and long haul); Ferry travel; Rail travel (international & national); Grey fleet; Rental car; Taxi; Hotel accommodation	1,753.93 ⓘ 1,596.80
7	Employee Commuting	349.24
8	Upstream leased assets	0
9	Downstream transportation & distribution	0
10	Processing of sold products	0
11	Use of sold products	0
12	End-of-life treatment of sold products	0
13	Downstream leased assets	0
14	Franchises	0
15	Investments	0

The below Scope 3 categories have been assessed and determined as not applicable due to our operations, they have been reported as 0 above:

2. Capital goods – Sisk purchases a small quantity of construction equipment which has been assessed and determined as de minimis.

8. Upstream leased assets – Sisk do not lease assets which are operated by the company.

9. Downstream transportation & distribution – Sisk provide project management and construction services and do not sell end products.

10. Processing of sold products – Sisk provide project management and construction services and do not sell end products.

11. Use of sold products – Sisk provide project management and construction services and do not sell end products.

12. End-of-life treatment of sold products – Sisk provide project management and construction services and do not sell end products.

13. Downstream leased assets – Sisk owns and leases a small number of assets which are operated by the lessee which have been assessed and determined as de minimis.

14. Franchises – Sisk does not operate any franchises.

15. Investments – Sisk does not have any investments which require reporting under this category.

Total Emissions 496,037.53 ⓘ 12,907.39

Current Emissions Reporting - Reporting Year 2022

Emissions **Total (tCO₂e)** ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme

Scope 1 7,617.32 ⓘ 7,617.32

Scope 2 2,149.33 ⓘ 2,149.33

Scope 3 539,029.42 ⓘ 4,232.15

(Including Sources)

Our Scope 3 emissions breakdown is as follows:

1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	512,467.61
2	Capital goods	0
3	Fuel and energy related activities not included in Scope 1 and 2 Including: Electricity T&D losses; client supplied electricity; supply chain gas oil & HVO	5,900.16 ⓘ 161.90
4	Upstream transportation and distribution Including: road freight	13,280.10
5	Waste generated in operations Including: Waste disposal to landfill, reuse, recycle, EFW; water treatment	2,756.22 ⓘ 1,788.58
6	Business travel Including: Air travel (short and long haul); Ferry travel; Rail travel (international & national); Grey fleet; Rental car; Taxi; Hotel accommodation	2,513.50 ⓘ 2,281.67
7	Employee Commuting	2,111.83
8	Upstream leased assets	0
9	Downstream transportation & distribution	0
10	Processing of sold products	0
11	Use of sold products	0
12	End-of-life treatment of sold products	0
13	Downstream leased assets	0
14	Franchises	0
15	Investments	0

The below Scope 3 categories have been assessed and determined as not applicable due to our operations, they have been reported as 0 above:

2. Capital goods – Sisk purchases a small quantity of construction equipment which has been assessed and determined as de minimis.

8. Upstream leased assets – Sisk do not lease assets which are operated by the company.

9. Downstream transportation & distribution – Sisk provide project management and construction services and do not sell end products.

10. Processing of sold products – Sisk provide project management and construction services and do not sell end products.

11. Use of sold products – Sisk provide project management and construction services and do not sell end products.

12. End-of-life treatment of sold products – Sisk provide project management and construction services and do not sell end products.

13. Downstream leased assets – Sisk owns and leases a small number of assets which are operated by the lessee which have been assessed and determined as de minimis.

14. Franchises – Sisk does not operate any franchises.

15. Investments – Sisk does not have any investments which require reporting under this category.

Total Emissions 548,796.07 ⓘ 13,998.80

Emission Reduction Targets

In December 2020, Sisk published their 2030 Sustainability Roadmap: Building today, Caring for tomorrow, outlining our ambition to achieve carbon neutrality by 2030 without the need to offset. We are also committed to setting targets through the Science Based Targets initiative (SBTi) and are in the process of having these being independently validated by the SBTi.

Our 2030 Sustainability Roadmap sets ambitious targets on tackling climate change and air pollution, committing to 21 targets, including 50% of our vehicle fleet being electric by 2024 and achieving a CDP A rating for Climate Change for our 2022 inventory submission.

We project that our mandatory carbon emissions will decrease to **3,098.21 tCO₂e** by 2026. This is a reduction of **79%** on our 2019 baseline. Our total carbon emissions across all emissions will decrease to 544,290.40 tCO₂e by 2026, a reduction of 4.98% on our 2019 baseline.

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

Carbon Reduction Projection vs Actual



Carbon Reduction Projects

A number of environmental management measures and projects have been completed or implemented since our 2019 baseline year, with below highlighting a selection of these. The carbon emission reductions achieved by these initiatives equates to **505.94 tCO₂e**, this is a **3.5%** reduction of our mandatory emissions, as shown in the graph above, against our 2019 baseline.

Mandated use of Hydrotreated Vegetable Oil

Through working with our supply chain partners with Hydrotreated Vegetable Oil (HVO) we were able to guarantee supply to enable us to mandate the use of HVO across all our UK projects in September 2021 and Ireland in January 2023. We successfully completed the transition to HVO in the UK during 2022, with 1,350,816 litres used saving approximately 2,917.67tCO₂e.

Battery Powered Telehandlers

In 2022 we purchased a battery powered telehandler, the first of its kind in Ireland. In the year to March 31st 2023 the telehandler ran for over 900 hours, compared to an average of 1,280 for a combustion engine telehandler. This compares favourably as combustion engine telehandlers idle for up to 40% of the working day and consume fuel while doing so. Our electric telehandler consumed no power when idling. Additionally the emissions (scope 2) from an electric telehandler were 1.79kgCO₂e using the location based method. This compares to 18.76kgCO₂e of emissions (scope 1) for a diesel powered telehandler.



Additional initiatives included:

- Working in compliance with ISO 14001 (Environmental) and ISO 50001 (Energy) management systems
- Committed to, and working through validation with the SBTi to set targets to limit warming to 1.5°C
- Guaranteed the purchase of renewable electricity for all electricity use by Sisk
- Continued installation of smart meters on all new Sisk sites
- Continue to ensure connections to the grid at the earliest opportunity on projects where possible
- Trialling the use of energy control systems on projects
- Continued integration of electric vehicles into our fleet of over 500 vehicles by updating car list to include electric vehicle options at every grade, with UK car list now exclusively EV or Plug in Hybrid EV (PHEV) options only
- Trialled the use of electric vans with our Rail commercial fleet
- Continued installation of charging infrastructure at Sisk premises to encourage uptake of electric vehicles
- Continued our Waste 6 Programme targeting reducing 6 largest waste streams generated
- Detailed feasibility study in progress on Corporate Power Purchase Agreements
- Expanded scope of carbon reporting to include further Scope 3 emissions, including subcontract purchased materials and services
- Mandated the use of Hydrotreated Vegetable Oil (HVO) across UK and Ireland, with this offer extended to our supply chain partners

As we work towards 2030, we will continue to explore and implement further measures to reduce our carbon emissions as part of our 2030 Sustainability Roadmap, such as:

- Achieving validation of our carbon reduction targets through the SBTi
- Developing and implementing mechanisms to encourage the decarbonisation of our grey fleet
- Enhancing our Energy Management procedures ensuring we consider carbon earlier in the project lifecycle, during the work winning and pre-construction stages
- Developing and delivering an action plan to achieve the first zero emissions site
- Developing a programme of engagement with our supply chain to encourage the measuring, reporting and reduction of their scope 1 and 2 carbon emissions (our scope 3) and to challenge and reduce unnecessary waste, e.g. packaging and single use plastics
- Embedding the use of supply chain material take-back and recycling schemes into business as usual
- Reviewing and updating design procedures to embed Zero Avoidable Waste Principles
- Developing and launching an efficient operation of plant and equipment training programme to our supply chain
- Project in progress to redesign temporary electrics
- Developing a Carbon Engineering Team to support our clients with Life Cycle Assessments and reducing the embodied carbon of our projects
- Developing a Carbon Management System aligned to the PAS 2080 standard

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 John Sisk & Son (Holdings) Limited

Wayne Metcalfe

Director - Health, Safety, Sustainability & Quality
May 2023



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>