

JOHN SISK & SON

Carbon Reduction Plan



Established 1859

JOHN SISK & SON (HOLDINGS) LTD / CARBON REDUCTION PLAN / MAY 2024

Carbon Reduction Plan

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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 set out 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, including 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 transmission and distribution (T&D) losses]; waste generated in operations [disposal to landfill]; and business travel [short and long haul air travel, ferry travel, grey fleet, national and international rail travel, car rental and taxis]. In 2021 we became a certified carbon neutral business by 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 emissions from 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 we do not own or sell the end products.

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



Baseline Emissions Footprint - Baseline Year 2019

Emissions	Total (tCO ₂ e)	ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme
Scope 1	8,308	ⓘ 8,308
Scope 2	2,637	ⓘ 2,637
Scope 3 (Including Sources)	561,857	ⓘ 3,560
	Our Scope 3 emissions breakdown is as follows:	
1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	541,701
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 and Hydrotreated Vegetable Oil (HVO)	4,047 ⓘ 159
4	Upstream transportation and distribution Including: road freight	8,909
5	Waste generated in operations Including: waste disposal to landfill, reuse, recycle, energy from waste (EfW) and water treatment	3,237 ⓘ 1,060
6	Business travel Including: air travel (short and long haul), ferry travel, rail travel (national and international), grey fleet, car rental, taxis and hotel accommodation	2,706 ⓘ 2,341
7	Employee commuting	1,258
8	Upstream leased assets	0
9	Downstream transportation and 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
Total Emissions	572,802	ⓘ 14,505

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 and 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.

Previous Emissions Reporting - Reporting Year 2020

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

Scope 1 6,361 ⓘ 6,361

Scope 2 1,961 ⓘ 1,961

Scope 3 559,647 ⓘ 3,031

(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
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 and HVO	3,972 ⓘ 69
4	Upstream transportation and distribution Including: road freight	13,900
5	Waste generated in operations Including: waste disposal to landfill, reuse, recycle, EfW and water treatment	3,265 ⓘ 1,449
6	Business travel Including: air travel (short and long haul), ferry travel, rail travel (national and international), grey fleet, car rental, taxis and hotel accommodation	1,627 ⓘ 1,514
7	Employee commuting	946
8	Upstream leased assets	0
9	Downstream transportation and 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 and 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 567,970 ⓘ 11,353

Previous Emissions Reporting - Reporting Year 2021

Emissions	Total (tCO ₂ e)	ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme
Scope 1	8,110	ⓘ 8,110
Scope 2	2,508	ⓘ 2,508
Scope 3 (Including Sources)	485,420	ⓘ 2,290
	Our Scope 3 emissions breakdown is as follows:	
1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	464,166
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 and HVO	7,004 ⓘ 151
4	Upstream transportation and distribution Including: road freight	10,769
5	Waste generated in operations Including: waste disposal to landfill, reuse, recycle, EfW and water treatment	1,378 ⓘ 543
6	Business travel Including: air travel (short and long haul), ferry travel, rail travel (national and international), grey fleet, car rental, taxis and hotel accommodation	1,754 ⓘ 1,597
7	Employee commuting	349
8	Upstream leased assets	0
9	Downstream transportation and 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
Total Emissions	496,038	ⓘ 12,907

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 and 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.

Previous Emissions Reporting - Reporting Year 2022

Emissions	Total (tCO ₂ e)	ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme
Scope 1	7,617	ⓘ 7,617
Scope 2	2,149	ⓘ 2,149
Scope 3 (Including Sources)	499,494	ⓘ 4,232
	Our Scope 3 emissions breakdown is as follows:	
1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	472,932
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 and HVO	5,900 ⓘ 162
4	Upstream transportation and distribution Including: road freight	13,280
5	Waste generated in operations Including: waste disposal to landfill, reuse, recycle, EfW and water treatment	2,756 ⓘ 1,789
6	Business travel Including: air travel (short and long haul), ferry travel, rail travel (national and international), grey fleet, car rental, taxis and hotel accommodation	2,514 ⓘ 2,282
7	Employee commuting	2,112
8	Upstream leased assets	0
9	Downstream transportation and 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
Total Emissions	509,261	ⓘ 13,999

Note: Our emissions for purchased goods and services are lower than previously reported due to a discrepancy in the embodied carbon data for the pre-cast concrete that we had procured. This was identified as part of our 2023 verification process and has been amended accordingly.

Current Emissions Reporting - Reporting Year 2023

Emissions	Total (tCO ₂ e)	ⓘ Mandatory emissions as required through the Achilles Carbon Reduce Programme
Scope 1	7,639	ⓘ 7,639
Scope 2	2,191	ⓘ 2,191
Scope 3 (Including Sources)	789,555	ⓘ 3,709
	Our Scope 3 emissions breakdown is as follows:	
1	Purchased goods and services Including: water supply, purchased goods and services (Sisk and supply chain)	761,476
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 and HVO	5,950 ⓘ 164
4	Upstream transportation and distribution Including: road freight	14,380
5	Waste generated in operations Including: waste disposal to landfill, reuse, recycle, EfW and water treatment	3,030 ⓘ 1,640
6	Business travel Including: air travel (short and long haul), ferry travel, rail travel (national and international), grey fleet, car rental, taxis and hotel accommodation	2,449 ⓘ 1,905
7	Employee commuting	2,270
8	Upstream leased assets	0
9	Downstream transportation and 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
Total Emissions	799,385	ⓘ 13,539

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

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9. Downstream transportation and 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.

Emission Reduction Targets

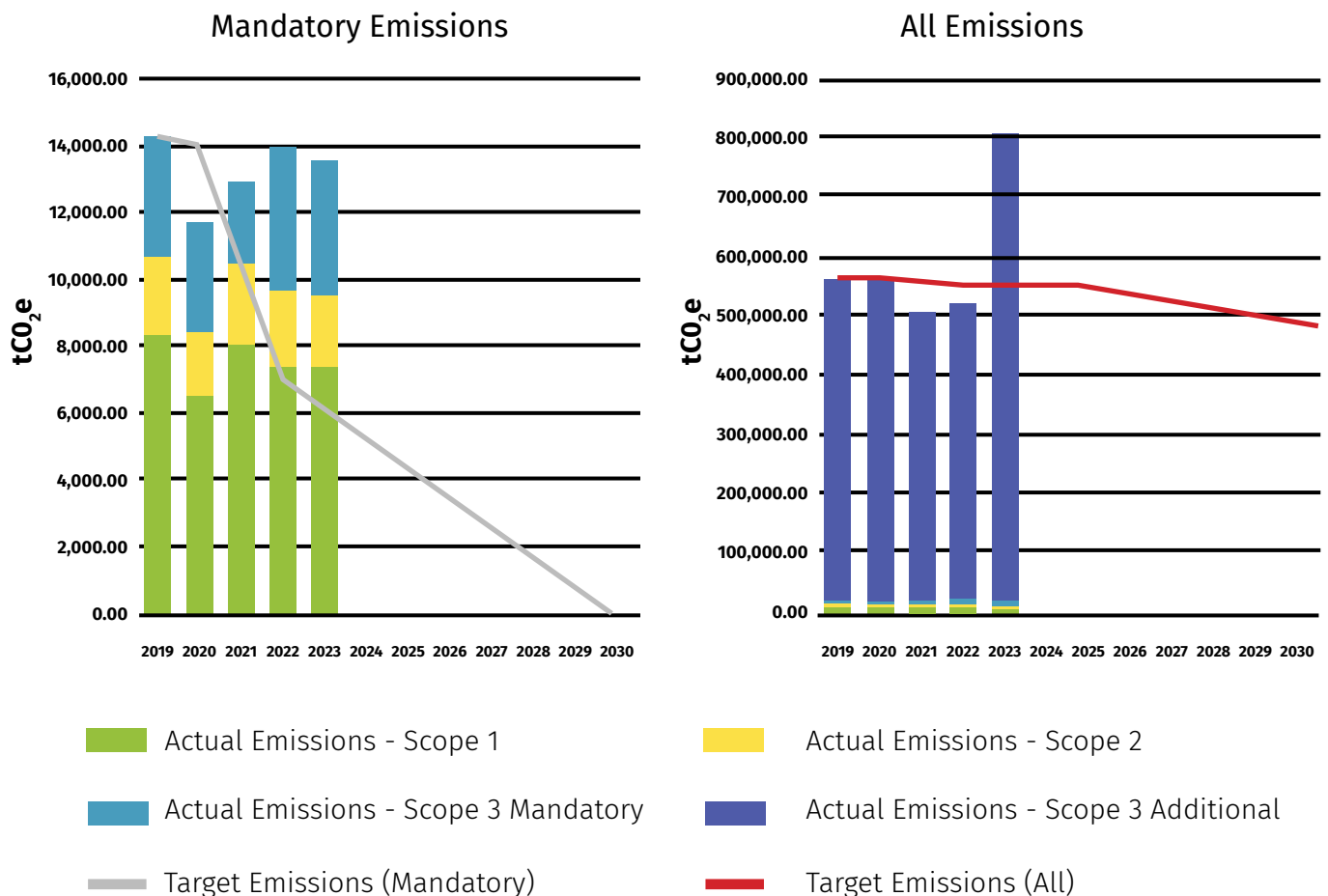
In December 2020, we published our 2030 Sustainability Roadmap: Building today, Caring for tomorrow, outlining our ambition to achieve carbon neutrality by 2030. Over the last year we have had our carbon emissions target approved by the Science Based Targets initiative (SBTi) in line with a 1.5°C global warming scenario and are committed to achieving net zero.

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. Over the last year we achieved an A- score placing us within 'Leadership' level.

We project that our mandatory carbon emissions will decrease to **3,098 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 tCO₂e by 2026, a reduction of 5% on our 2019 baseline.

Progress against these targets can be seen in the graphs below. It should be noted that in 2023, we experienced company growth of circa 50%, which is the reason behind the increase in our Scope 3 Additional emissions seen in the All emissions graph - whilst we have continued to achieve reductions in our carbon intensity. This increase is predominately in the purchased goods and services category, where as a result of business growth and securing additional projects, we have procured more materials than in previous years.

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 the below highlighting a selection of these. The carbon emissions reduction achieved by these initiatives equate to **966 tCO₂e**, which is a **7%** 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 to procure Hydrotreated Vegetable Oil (HVO) we were able to guarantee supply to enable us to mandate its use across all our UK projects from September 2021 and Ireland from January 2023. We successfully completed the transition to HVO in the UK, with 1,334,534 litres used saving over 3,600 tCO₂e in 2023.

Battery-Powered Equipment

Over the last two years we have started to integrate battery-powered equipment into our operations, including the deployment of an electric telehandler. Capable of carrying a 2.5 tonne load and powered by a 24 kWh battery pack this machine has matched its fuel counterpart in performance whilst reducing carbon emissions. Over 1,500 hours of operation, we have seen a reduction of 22 tCO₂e, whilst also reducing noise pollution. In addition, we are experimenting with battery-powered tower cranes and continue to develop our strategy in this regard.



Additional initiatives include:

- Ensuring compliance with our management system which is certified to ISO 14001 (Environment) and ISO 50001 (Energy)
- Guaranteeing the purchase of renewable electricity for all electricity use by Sisk
- Continued installation of smart meters on all new Sisk sites
- Continued to ensure connections to the grid at the earliest opportunity on projects where possible
- Trialling the use of energy control systems in particular to monitor and target reduction in out of hours energy consumption on projects
- Continued integration of electric vehicles (EV) into our fleet of over 500 vehicles - our UK company car list is now exclusively EV or Plug in Hybrid EV (PHEV) options only
- Trialled the use of electric vans within our Rail commercial fleet
- Continued installation of charging infrastructure at Sisk premises and construction sites
- Continued our Waste 6 Programme targeting the reduction of our six largest waste streams generated
- Expanding the scope of our carbon reporting to include further Scope 3 emissions, including subcontract purchased materials and services
- Joined Concrete Zero and Steel Zero initiative, set by The Climate Group committing to net zero concrete and steel by 2050 with ambitious interim targets
- Developed an in house sustainable design and carbon management team to support our clients with Life Cycle Assessments and reduce the embodied carbon of our projects

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

- Developing and implementing mechanisms to encourage the decarbonisation of our grey fleet
- Continually enhancing our energy management procedures including the further development and roll out of our Exemplar Project Standard
- Developing and delivering an action plan to achieve our first zero emissions site
- Developing a programme of engagement with our supply chain to encourage the measurement, reporting and reduction of their Scope 1 and 2 emissions (our Scope 3) and to reduce waste, with particular focus on 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 a training programme for our supply chain on ensuring the efficient operation of plant and equipment
- Embedding work conducted on the redesign of temporary electrics across all projects
- Further developing our management system to achieve 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 Protocol Corporate Reporting 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 2024



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>