



Established 1859

# Carbon Reduction Plan

John Sisk & Son (Holdings) Ltd | January 2022

## Carbon Reduction Plan

**Published: January 2022**

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 (Purchased goods and services [water supply]; Fuel and energy related activities [electricity T&D losses and client supplied electricity]; Waste generated in operations; and Business travel). 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 year does not currently include scope 3 emissions from purchased goods and services (material purchases), upstream transportation and distribution, or employee commuting. Work is currently ongoing to capture actual data, and where not available estimate the relative emissions from these sources to include in our baseline and subsequent reporting years. This work is due to be completed and externally verified by Q2 2022, whereby this plan will be updated respectively.

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.

### Green Apple Awards 2020



## Baseline Emissions Footprint - Baseline Year 2019

| Emissions                             | Total (tCO <sub>2</sub> e)  |          |
|---------------------------------------|---|----------|
| <b>Scope 1</b>                        | 8,305.36  |          |
| <b>Scope 2</b>                        | 2,415.16  |          |
| <b>Scope 3</b><br>(Including Sources) | 3,593.86  |          |
|                                       | Our Scope 3 emissions breakdown is as follows:  |          |
| 1                                     | Purchased goods and services<br>Including: water supply   | 18.09*   |
| 2                                     | Capital goods   | 0        |
| 3                                     | Fuel and energy related activities<br>Including: Electricity T&D losses; client supplied electricity                                | 212.53   |
| 4                                     | Upstream transportation and distribution  | 0*       |
| 5                                     | Waste generated in operations<br>Including: Waste disposal  | 1,097.59 |
| 6                                     | Business travel<br>Including: Air travel (short haul); Ferry travel; Rail travel (international & national); Grey fleet; Rental car | 2,265.65 |
| 7                                     | Employee Commuting  | 0*       |
| 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        |
| <b>Total Emissions</b>                | 14,314.38   |          |

**\*Data for purchased goods and services, upstream transportation and distribution, and employee commuting are in the process of being collated and externally verified for our baseline year and subsequent reporting years.**

**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.

## Current Emissions Reporting - Reporting Year 2020

| Emissions                             | Total (tCO <sub>2</sub> e)  |          |
|---------------------------------------|---|----------|
| <b>Scope 1</b>                        | 6,479.42  |          |
| <b>Scope 2</b>                        | 1,961.17  |          |
| <b>Scope 3</b><br>(Including Sources) | 3,264.06  |          |
|                                       | Our Scope 3 emissions breakdown is as follows:  |          |
| 1                                     | Purchased goods and services<br>Including: water supply   | 30.35*   |
| 2                                     | Capital goods   | 0        |
| 3                                     | Fuel and energy related activities<br>Including: Electricity T&D losses; client supplied electricity                                | 213.31   |
| 4                                     | Upstream transportation and distribution  | 0*       |
| 5                                     | Waste generated in operations<br>Including: Waste disposal  | 1,511.06 |
| 6                                     | Business travel<br>Including: Air travel (short haul); Ferry travel; Rail travel (international & national); Grey fleet; Rental car | 1,509.34 |
| 7                                     | Employee Commuting  | 0*       |
| 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        |

**\*Data for purchased goods and services, upstream transportation and distribution, and employee commuting are in the process of being collated and externally verified for our baseline year and subsequent reporting years.**

**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.

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|                        |           |
|------------------------|-----------|
| <b>Total Emissions</b> | 11,704.65 |
|------------------------|-----------|

## Emission Reduction Targets

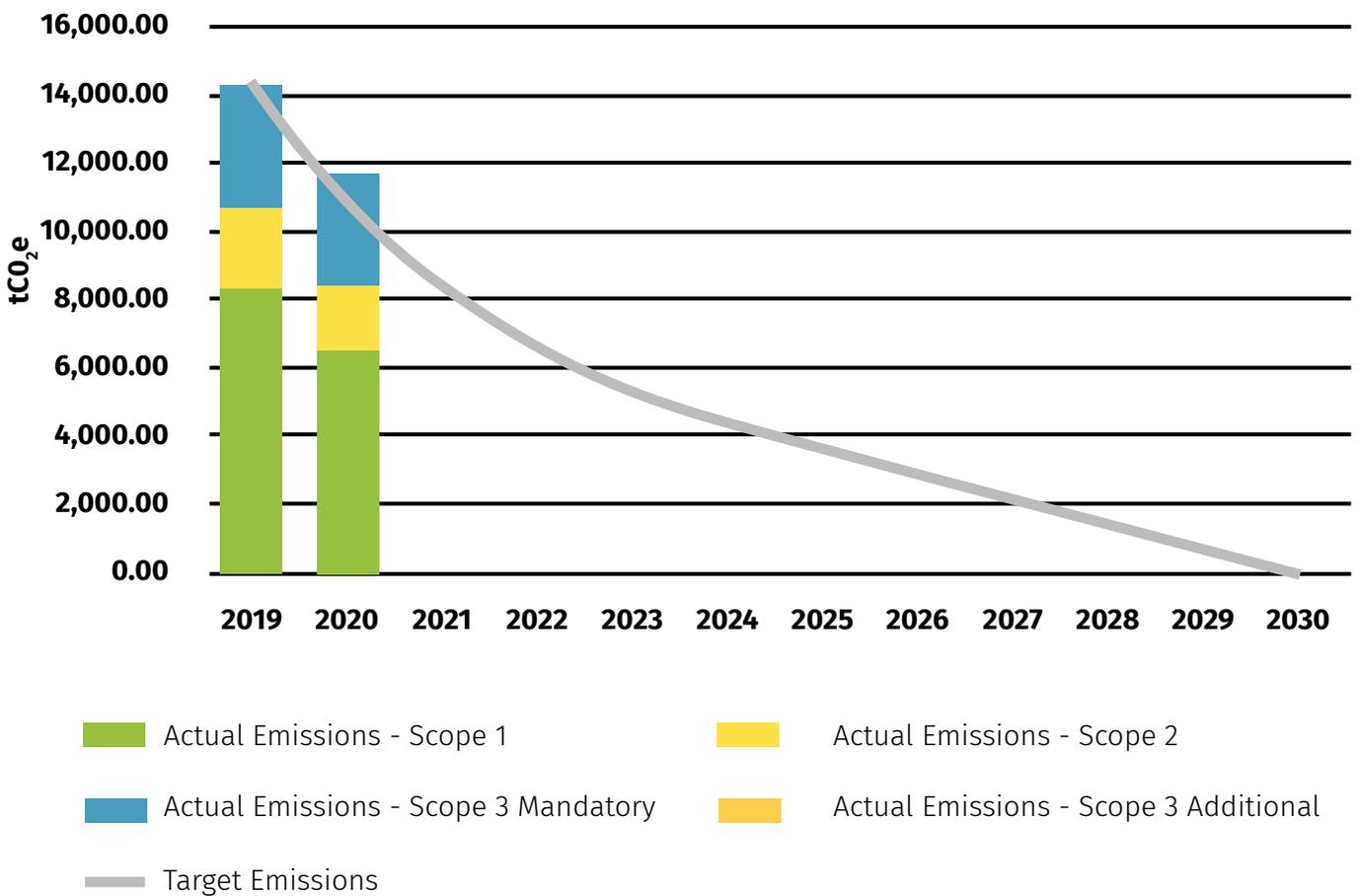
In December 2020, Sisk published its new 2030 Sustainability Roadmap: Building today, Caring for tomorrow, outlining our ambition to achieve carbon neutrality by 2030 without the need to offset. We are also committed to setting targets through the Science Based Targets initiative (SBTi) and are in the 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 by 2022.

We project that our carbon emissions will decrease to **2,851 tCO<sub>2</sub>e** by 2026. This is a reduction of **80% on our 2019 baseline**.

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

## Carbon Reduction Projection vs Actual



## Carbon Reduction Projects

The following environmental management measures and projects have been completed or implemented since our 2019 baseline. The carbon emission reductions achieved by these initiatives equates to **2,609.72 tCO<sub>2</sub>e**, which is a **18.23%** reduction against our 2019 baseline.

### Continued use of low carbon fuels

Our Northstowe scheme in Cambridgeshire has successfully used over 1.5 million litres of Hydrotreated Vegetable Oil (HVO) as an alternative to gasoil to fuel the earthworks plant and equipment needed to build the 5km of highway and create future development areas. This innovative approach saved over 4,550 tCO<sub>2</sub>e over the length of the contract, a 91% reduction on what would have been generated otherwise. The approach also resulted in an 80% reduction in harmful particulate matter and a 50% reduction in sulphur oxide emissions.

### Decarbonising plant at Wembley, London

Our Wembley Regeneration site team carried out a month long trial of the Faresin 636 Electric Telehandler. Undertaken in real time the trial sought to compare the operational performance of the electric alternative to the diesel powered units on site. The trial was positive and the electric unit proved to be as effective as its diesel alternative while consuming less energy with zero emissions at point of use. More units will now be used on our projects.

|               | DIESEL                  | ELECTRICAL            |
|---------------|-------------------------|-----------------------|
| ENERGY        | 2,119 kWh               | 240 kWh               |
| CO2 EMISSIONS | 560 kgCO <sub>2</sub> e | 0 kgCO <sub>2</sub> e |
| NOX EMISSIONS | 11 kgNOx                | 0 kgNOx               |



### Construction plant and telematics

2019 also saw the increased use of telematics on site plant, to effectively monitor and manage fuel consumption. The use of telematics for fuel management allows us to identify and avoid the excessive use of fuel. In doing so we can maximise energy efficiency, enhance productivity, and reduce emissions and pollution for the benefit of the health of our employees, the environment, and the communities we work in. We will work with our supply chain to gradually introduce telematics to all the plant operating on our projects. We will collectively use the data provided to identify challenges and drive decisions.

### Additional initiatives included:

- Working in compliance with ISO 14001 (Environmental) and ISO 50001 (Energy) management systems
- Committed to 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
- Continued installation of charging infrastructure at Sisk premises to encourage uptake of electric vehicles
- Worked collaboratively with University College Dublin initiating a feasibility study into the viability of super capacitor batteries as an alternative to diesel generators
- Continued our Waste 6 Programme targeting reducing 6 largest waste streams generated

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

## 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 standard<sup>1</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>2</sup>.

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<sup>3</sup>.

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  
January 2022



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

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

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