Greenhouse Gas Emissions Inventory
and Annual Streamlined
Energy & Carbon Report

2023

# Contents

# 1. Environment

We are committed to reducing our operations' environmental impact by improving our energy efficiency, reducing our natural resources consumption, and managing our waste to progressively decrease our carbon emissions.

In 2007 we planted 7,200 broadleaf trees and converted 3.2 hectares of arable land to natural woodland. This project has continued to thrive, improving biodiversity and establishing a natural habitat for wildlife to flourish and sequestering carbon from the atmosphere to offset our carbon footprint. **(ref Forestry Commission report "Forests, Carbon and Climate Change: the UK Contribution")**

The renewable and low carbon technologies installed in 2019 to electrify our building energy requirements and converted our grid supply arrangements to 100% green energy continued to perform well, establishing our energy-related emission at net zero.

In 2021 we electrified our transport fleet and removed this source of GHG emissions from our inventory. As the business has expanded and now employs a team of committed environmentalists, our new targets will be to support our wider staff and their families to adopt low to zero-carbon solutions in their commutes and other activity to widen our environmental impacts further.

## 2. Carbon emissions



**HI Group total TCO²e Emissions**
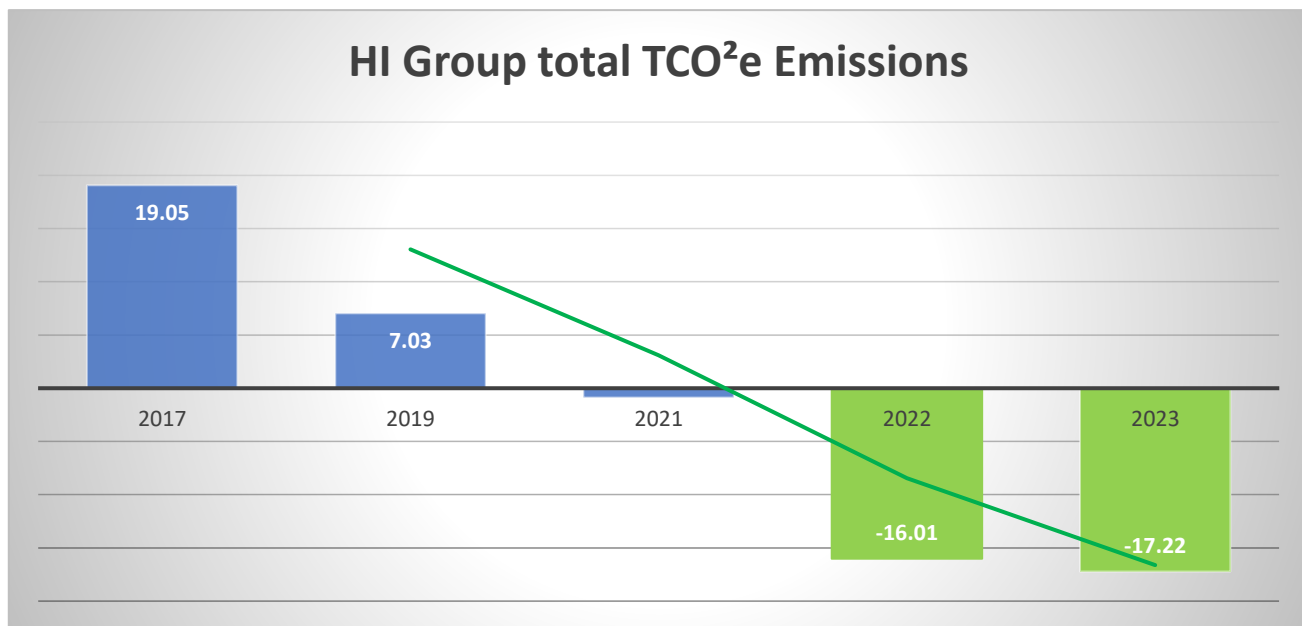
During 2023 our net emissions of CO2e were **-17.2 TCO²e** - a 190% reduction over the 2017 baseline.

With the impacts of the pandemic receding significantly, our electrification of fleet vehicles is a significant factor in achieving this result.

Having achieved a negative carbon footprint, we will continue to focus on reducing our overall carbon emissions across all business activities, encouraging supply chain participation in reducing scope 3 emissions impacts on our clients.

## 3. Energy management

Following the ongoing energy efficiency improvements and installation of renewable energy technology in 2019, the carbon emission associated with our Scope 1 & 2 energy consumption has fallen to **-2 TCO²e** as a result of the surplus zero-carbon energy we generated and exported to the grid.



HI Group Energy Emissions TCO²e by Year
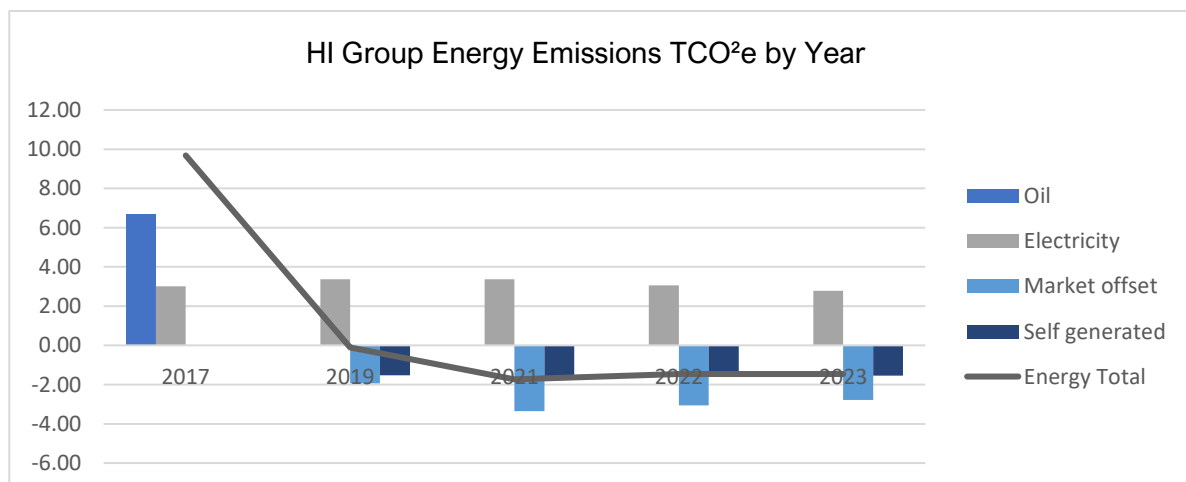
# 4. Transport management

As indicated in our 2020 plan, we have now electrified the company fleet and removed this source of emissions from our inventory. We continue to support a reduction in staff scope 3 emissions by encouraging rail over car and facilitating bike to work. Transport remains our most significant greenhouse gas emissions source, covering all scope 1 & 3 emissions in Road, Rail and Air travel.

During 2023 transport emissions were **1 TCO²e.**

Despite expanding our customer base and staffing levels, the continued use of online meetings and cloud collaboration tools has supported our growth in an environmentally responsible way.



HI Group Transport Emissions TCO²e by Year
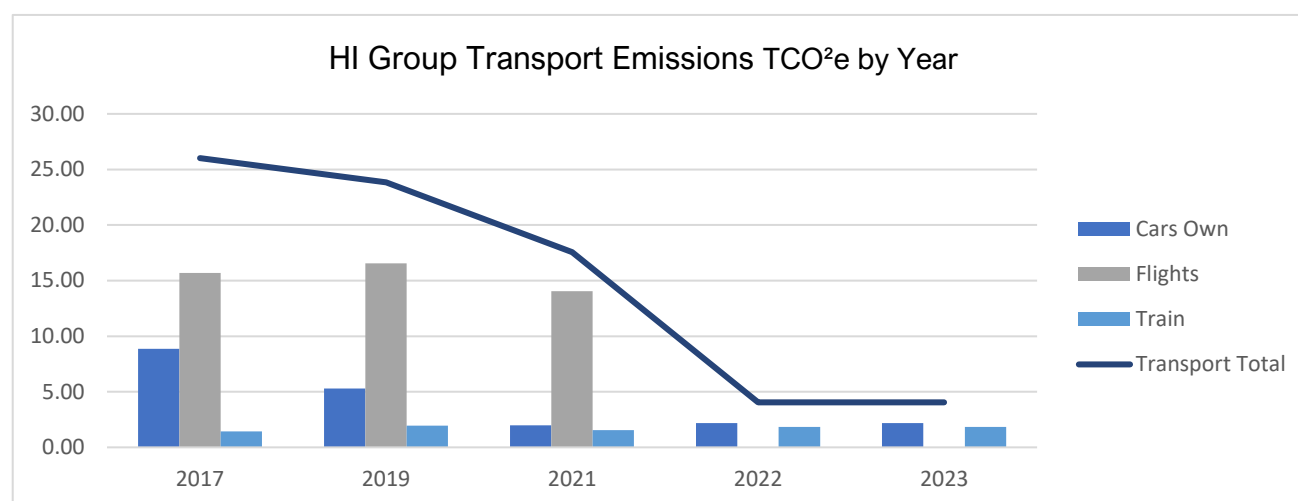
# 5. Waste and resources management

Waste, water, and other emissions associated with our activities created 0.24 tCO²e in 2022. We will continue to reduce the volume of waste we produce and increase recycling.
In the year we:
- composted all food waste on-site, amounting to around 4% of the total waste generated.
- sorted and recycled 55% of the waste generated
- sent 41% of waste to landfill.

Our landfill waste is primarily unrecyclable packaging, where more comprehensive recycling is restricted by limited facilities within our local authority area.

# 6. Sequestration

In 2007 we created the woodland project to sequester our surplus carbon emissions and reduce our net greenhouse gas profile. Using the woodland carbon calculator UK Woodland Carbon Code, we have been able to calculate our sequestration impacts, which shows over 100 TCO²e sequestered over that period.

Adopting these standards over the project's life, we will sequester 1,294 TCO²e (around 12 TCO²e per year).

The Woodland Carbon Code is the UK government-backed standard for woodland carbon projects and was launched in 2011. As our project pre-dates this framework, it cannot be officially registered under this code, and our declared sequestration is self-assessed.

However, we continue to proactively collaborate with the forestry commission to promote the Woodland Carbon Code's benefits and ensure our project remains aligned to these standards.

## 7. Carbon report

| Type of Emission | Activity | 2017 (Base year) | | 2023 | |
|---|---|---|---|---|---|
| | | TCO²e | activity | TCO²e | activity |
| Scope 1 (direct) | Oil combustion (liters) | 6.68 | 2,100 | 0.00 | 0.0 |
| | Vehicle Fleet (miles) | 8.88 | 31,500 | 0.00 | 58,000 |
| | Refrigerants (F-Gas's) | 0.00 | 0 | 0.00 | |
| | | | | | |
| Scope 2 (direct) | Grid Electricity (location) kWh's | 3.00 | 11,750 | 2,79 | 14,421 |
| | | | | | |
| Scope 3 (Indirect) | Air travel (kilometers) | 15.7 | 86,854 | 0.00 | 0.0 |
| | Rail travel (kilometers) | 1.44 | 35,000 | 1.85 | 45,000 |
| | Grey fleet | 0.00 | 0.0 | 0.00 | 0.0 |
| | Water (cubic meters) | 0.11 | 325 | 0.21 | 230 |
| | Waste (tonnes) | 0.06 | 0.96 | 0.03 | 0.96 |
| Gross TCO²e pre offset | | 36.05 | | 4.03 | |
| Offsets | Market-based grid electricity | 0.00 | | (2.79) | |
| | Self-Generated electricity export | 0.00 | | (1.54) | |
| | Sequestration – Tree plantation | (17.00) | | (17.00) | |
| | Other | 0.00 | | 0.00 | |
| Net TCO²e | | 19.05 | | (17.22) | |

**Intensity ratios**

| Employees | 13 | 9.53 | (1.09) |
|---|---|---|---|
| Building M² | 332 | 0.082 | (0.043) |

**Assessment parameters**

| Baseline year | 2017 |
|---|---|
| Reporting Organisation | HI Group |
| Person Responsible | R.Burton - Director |
| Reporting period covered | Annual full year to 31st Dec 2023 |
| Organisation boundaries | Facilities over which HI Group has operational control |

| | |
|---|---|
| **Methodology used** | GHG protocols Corporate standards and SECR Reporting guidelines |
| **Emissions factors used** | UK Government conversion factors for Company set |
| **Exclusions** | None |
| **Included Scope 3 emissions** | Waste, Water & Transport |
| **Scope 2 emissions** | Combined Location & market-based emissions factors, with self-generated offset |
| **Sequestration** | Woodland Carbon Code - carbon calculator |