



Pledge to Net Zero Annual Progress Report 2022

J Coffey Construction committed to **Pledge to Net Zero** on April 30th 2020. It was clear that with Government requiring to meet a Net Zero target by 2050, businesses would come under increasing pressure to adopt a carbon reduction approach to service provision or not be in a position to tender for future projects.

Much has evolved since the original commitment in terms of accurate data gathering and implemented best practice. Year on year we as an organisation, see the needs and expectations of our client base, to meet their objectives as well as our own. We recognise the position we as a business are in with regards to the limited flexibility of reducing our footprint, that is in the most part subject to the life cycle of the materials we use which to a degree is out of our control, nonetheless, on 'World Environmental Day' 2022, we publicly announced our commitment to using HVO D+ Bio-fuel on 94% of all out plant and equipment to replace diesel fuel, this was also supported by our waste contractor service provider, announcing that they were to use the same bio-fuel on all their fleet waste vehicles.

In support of our **Pledge to Net Zero** aspirations, we implemented the following but not limited to:

- Increased use of electronic plant.
- Procurement of next generation battery powered Hilti 'Huron' battery powered plant & equipment, which is more efficient.
- Increased use of LED telescopic lighting towers.
- Ongoing CPD accredited carbon reduction training & Tool Box Talks for operatives.
- In May 2022, In celebration of '*World Environmental Day*,' we uploaded on our website our commitment to using HVO D+ Bio-fuel to replace diesel on 94% of all our Plant
- We introduced a 'Green Skills' initiative in collaboration with the Supply Chain Sustainability School, to all staff with those who complete the three levels of 'Learning Pathways' to become Affiliated members of IEMA (Institute of Environmental Management Assessment)
- Our Sustainability Director Adrian Clamp, was interviewed by Green Element in front of an audience of company leads, advising on how J Coffey implemented their Carbon Reduction initiatives
- A similar presentation by our Sustainability Director was delivered to ninety plus principles and directors of Dukes Education.

J Coffey Construction have based their **Pledge to Net Zero** 15-year objective, based on the Science Based Target initiative (SBTi) based on a 2019 baseline year resulting in a 4.2% reduction in carbon emissions year on year till 2034

As at the time of writing this report, J Coffey Construction are able to report the following findings:

2019 baseline year carbon footprint was the following:

- **2019 TOTAL EMISSIONS:**
- 2019 Scopes 1+2 = 436.7 tCO₂e (Scope 1 = 420.9 tCO₂e, Scope 2 = 15.9 tCO₂e)
- 2019 Scope 3 = 35,898.5 tCO₂e (Inclusive of revised methodology for establishing employee commuting)
- 2019 Scope 3 intensity = 690.4 tCO₂e per site

- **2019 EMISSIONS (minus construction materials):**
- 2019 Scopes 1+2 = 436.7 tCO₂e (Scope 1 = 420.9 tCO₂e, Scope 2 = 15.9 tCO₂e)
- 2019 Scope 3 = 1,133.8 tCO₂e
- 2019 Scope 3 intensity = 21.8 tCO₂e per site

2021 carbon footprint was the following:

2021 TOTAL EMISSIONS:

- 2021 Scope 1+2 = 407.8 tCO₂e (Scope 1 = 391.7 tCO₂e, Scope 2 = 16.1 tCO₂e)
- 2021 Scope 3 = 42,013.5 tCO₂e (Inclusive of revised methodology for establishing employee commuting)
- 2021 Scope 3 intensity = 688.8 tCO₂e per site

2021 EMISSIONS (minus construction materials):

- 2021 Scope 1+2 = 407.8 tCO₂e (Scope 1 = 391.7 tCO₂e, Scope 2 = 16.1 tCO₂e)
- 2021 Scope 3 = 735.3 tCO₂e
- 2021 Scope 3 intensity = 12.1 tCO₂e per site

2022 carbon footprint was the following:

2022 TOTAL EMISSIONS:

- 2022 Scope 1+2 = 320.7 tCO₂e (Scope 1 = 300.4 tCO₂e, Scope 2 = 20.3 tCO₂e)
- 2022 Scope 3 = 21,647.1 tCO₂e
- 2022 Scope 3 intensity = 400.9 tCO₂e per site

2022 EMISSIONS (minus construction materials):

- 2022 Scope 1+2 = 320.7 tCO₂e (Scope 1 = 300.4 tCO₂e, Scope 2 = 20.3 tCO₂e)
- 2022 Scope 3 = 828.9 tCO₂e
- 2022 Scope 3 intensity = 15.4 tCO₂e per site

TO SUMMARISE:

Total absolute GHG emissions have decreased by 39.5% and 48.2% in 2022, compared to 2019 and 2021 respectively. Emissions have decreased across all categories (with the exception of business travel and site consumption).

The largest reduction was seen in emissions generated from construction waste, which fell by 62% between 2019 and 2022. O'Donovan's waste contractor has recently transitioned their fleet to HVO D+ Biofuel. This reduction is due to more waste being diverted from landfill (in 2019, ~30,000 tonnes of waste went to landfill compared to ~62 tonnes in 2022), and the use of Biodiesel HVO in O'Donovan's fleet from Q4 2022 onwards.

Emissions have also been normalised by the number of construction items purchased to take into account company growth. Total absolute GHG emissions per item purchased were 75.0 kgCO₂e in 2019, 65.0 kgCO₂e in 2021, and 35.8 kgCO₂e in 2022. This suggests that the carbon intensity of the construction materials J Coffey Construction are purchasing has significantly and consistently decreased between 2019 and 2022.

Taking out construction materials, total absolute emissions have decreased between 2019 and 2022 by 26.8%. The only two categories not to have decreased in emissions are site consumption and business travel, however

these are both the two smallest sources of J Coffey's emissions. All other categories (fuel, commuting and construction waste) have seen a decrease in emissions in 2022 compared to 2019.

J Coffey have also successfully achieved transitioning to the latest ISO 50001:2018 Energy management system standard from the old 2015 version scope of which covers Scope 1 & Scope 2 emissions

J Coffey have also become a signatory to the UN's 'Race to Net Zero'

<https://unfccc.int/climate-action/race-to-zero-campaign>

All of the above represents the organisations commitment to proactively engage and implement best practice in our operational delivery, to reduce our carbon footprint in support of our client base and their clients to positively impact on climate change and be the company of choice in leading the fight against Climate Change.

Adrian Clamp

Original signed

Adrian Clamp FCIOB CEnv.
Sustainability & Systems Director