

Carbon Reduction Plan

Supplier name: Mastered Studios Ltd

Publication date: 23rd February 2022

Commitment to achieving Net Zero

Mastered Studios is committed to achieving Net Zero emissions by 2040

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: January to December 2021

Additional Details relating to the Baseline Emissions calculations.

This is our first year of assessing and reporting emissions. Our carbon footprint report is based on 100% home working and no physical meetings, as we are a remote software training company.

Scope 1: We believe we have no direct emissions, as we don't own any buildings or vehicles.

Scope 2: Whilst we own no building or premises, using Carbon Footprint Business Calculator, we estimate 0.5 tons per person based on emissions used in lighting and heating for domestic properties, used for 100% remote working.

Scope 3: In the period, we didn't have

- any capital goods purchases (our laptops were purchased in previous years);
- downstream / upstream transportation;
- or waste generation during operations; or
- investments.

We believe we have carbon emissions related to the use of cloud-based software services, video streaming, and internet media usage, which require data servers, which require hardware and energy to operate. We understand that Google purchase their energy from renewable sources, so we have reduced the calculation as our main enterprise tools are provided by Google Docs.

In terms of video meetings, using a figure of 0.1kg per hour per person, we estimate

- 20 people inc FT team and instructors
 - 15 hours per week on Zoom, or 780hrs per year
- = 1,560 kg or 1.5 tonnes

In terms of other SaaS services, like Xero and Slack, we have used a Stanford University calculation estimating that "100GB of Cloud Data results in a carbon footprint of 0.2 tonnes". We have worked to this figure and a usage of 400GB of cloud storage, yielding 0.8 tonnes more.

Finally, we needed to quantify the carbon footprint of our 3D design/development students who use hardware/laptops (less than 10% purchased in the baseline year), plus cloud-services and computing power. Our calculations are based on 50 students, 5 new laptop purchases and 240 hours of guided learning, creating emissions of 0.6 tonnes per student per year, or 30 tonnes total

Baseline year emissions:

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	0
Scope 2	4.5 tonnes (sources: 0.5 tonnes per 9 employees working 100% from home)
Scope 3 (Included Sources)	0.8 tonnes (sources: cloud based storage and applications) 1.5 tonnes (sources: video meetings) 30 tonnes (sources: students hardware/software usage)
Total Emissions	36.8 tonnes

Current Emissions Reporting - 2022

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	TBC
Scope 2	TBC
Scope 3 (Included Sources)	TBC
Total Emissions	TBC

Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

We project that carbon emissions will decrease over the next five years to 15 tCO₂e by 2030. This is a reduction of > 50%

Progress against these targets have not yet been graphed as we have just measured our baseline and set our targets.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented and included since the 2021 baseline.

- team is 100% remote
- no commuting required, all meetings are virtual
- no foreign travel, especially air travel
- no leased assets
- no buildings emissions

The measures will be in effect when performing the contract.

In the future we hope to implement further measures such as:

- advise team to switch to renewable energy for domestic use
- recommend refurbished technology/hardware to our students and staff
- provide financial incentives for team to switch to LED lighting at homes
- create a Green remote-office policy with tips on energy saving, reducing consumption and adopting a more ecological diet
- buy highly-verifiable carbon removal offsets, both natural solutions like tree planting, and also technological solutions like carbon air capture.
- ask our suppliers to develop their own carbon reduction plan
- benchmark our company versus the industry average
- optimise our website to be lower carbon, by reducing media load times for instance
- continue to shift towards cloud-based services which have a lower carbon footprint thanks to their resource sharing
- shift to cloud-based providers, like Xero and Google, that use renewable energy sources
- Join Tech Zero, a peer community for tech startups reducing their carbon footprint for further support and advice

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 the Mastered Studios:

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Date:

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>