



Filkin & Co EHS Limited

Progress Towards Net Zero - 2021



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Final


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1 Introduction

Filkin are committed to playing their part in combating climate change by setting a science-based target (SBT). We are seeking to commit to more than the minimum 2.5% annual reduction (not to be achieved by carbon savings but by real savings). Companies, particularly those in developed countries are being encouraged to adopt targets with a 4.2% annual reduction to be aligned with limiting warming to 1.5°C.

Filkin are committed to a science based target of 5% annual reduction. We confirm the following:

- ◆ At present we have no buildings to include (we are home-based workers so a proportion of home bills will be included);
- ◆ Travel will be based on 2019 assessment (including UK and overseas travel);
- ◆ We will report on a yearly basis; and
- ◆ We will continue to promote and encourage others to pledge to net zero.

Please note: at present we are planning on treating 2020 as an anomaly year because our travel has drastically reduced.

2 2019 Carbon Footprint

In 2019 car use for Bryony Turner related to work was as given in Table 1.

Table 1: Car Usage In 2019

Dates of travel	Distance (miles)
08-Mar-19	48
15-Mar-19	214
26-Apr-19	228
May-19	84
Jun-19	363.4
Jul-19	262.2
Sep-20	291.2
Sep-20	144.4
Nov-20	208.6
Dec-20	262.2
TOTAL	2106

The vehicle used was a 2009 Mini petrol (1.4 litre engine). The emission factor (Defra, 2019)¹ chosen has been a “Supermini” with definition as:

¹ See: <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019>

This is a car that is larger than a city car, but smaller than a small family car. Examples include: Ford Fiesta, Renault CLIO, Volkswagen Polo, Citroën C2 and C3, Opel Corsa, Peugeot 208, and Toyota Yaris

The emission factor is 0.25006 kg CO2 equivalent per mile.

This equates to 526.6 kg CO2 equivalent (2019 Analysis).

3 2020 Carbon Footprint

In 2020 car use for Bryony Turner related to work was as given in Table 2.

Table 2: Car Usage In 2020

Dates of travel	Distance (miles)
09-Jan-20	27
29-Jan-20	81
12-Mar-20	244
TOTAL	352

The vehicle used was a 2009 Mini petrol (1.4 litre engine). The emission factor (Defra, 2020)² chosen has been a “Supermini” with definition as:

This is a car that is larger than a city car, but smaller than a small family car. Examples include: Ford Fiesta, Renault CLIO, Volkswagen Polo, Citroën C2 and C3, Opel Corsa, Peugeot 208, and Toyota Yaris

The emission factor is 0.24168 kg CO2 equivalent per mile.

This equates to 85.07 kg CO2 equivalent (2020 Analysis).

2020 CARBON FOOTPRINT HAS HAD A REDUCTION OF APPROXIMATELY 84% COMPARED TO 2019.

2020 with the COVID crisis has meant that travel has been drastically reduced; therefore, it is proposed to treat it as an anomaly year and focus is on additional data that should be incorporated into the carbon footprint calculation.

In the first instance the data to include is identified as the oil usage for the work associated with Bryony Turner. Approximate usage for the home of Bryony Turner was 928 litres during 2020.

On the basis that one room (out of 6 total) is used for work purposes this equates to 17% of oil.

For a total of 40 hours a week (168 hours total) this equates to 23.8% that would be 4% of the total (taking into account the 17% room allocation).

Allocation to work is therefore 37.12 litres of heating oil. The Defra, 2020 emission factor for “Burning Oil”²:

Main purpose is for heating/lighting on a domestic scale (also known as kerosene).

The emission factor is 2.54039 kg CO2 equivalent per litre

² See: <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2020>

The carbon footprint of oil usage related to Bryony Turner is therefore 94.3 kg CO2 equivalent in 2020.

4 2021 Carbon Footprint

In 2021 car use for Bryony Turner related to work was none.

2021 and 2020 with the COVID crisis has meant that travel has been drastically reduced; therefore, it is proposed to treat it as an anomaly year and focus is on additional data that should be incorporated into the carbon footprint calculation.

In the first instance the data to include is identified as the oil usage for the work associated with Bryony Turner. Approximate usage for the home of Bryony Turner was 1788 litres during 2020.

On the basis that one room (out of 6 total) is used for work purposes this equates to 17% of oil.

For a total of 40 hours a week (168 hours total) this equates to 23.8% that would be 4% of the total (taking into account the 17% room allocation).

Allocation to work is therefore 71.52 litres of heating oil. The Defra, 2021 emission factor for "Burning Oil"² :

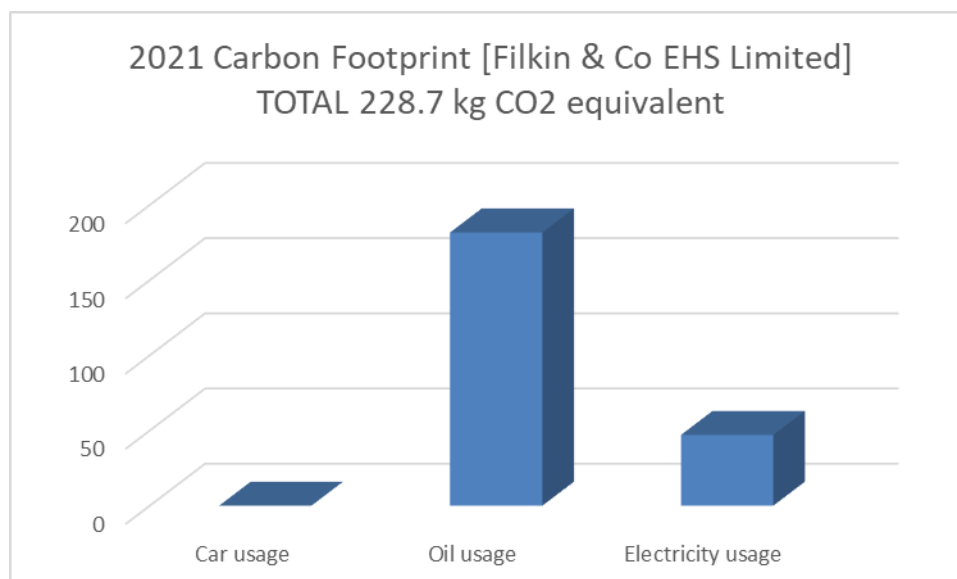
Main purpose is for heating/lighting on a domestic scale (also known as kerosene).

The emission factor is 2.54014 kg CO2 equivalent per litre

The carbon footprint of oil usage related to Bryony Turner is therefore 181.67 kg CO2 equivalent in 2021.

Electricity is also included for Bryony Turner in 2021. On the basis of an average of 424 kWh per month (estimated average based on bills) and using the emission factor for electricity and transmission this equates to

The carbon footprint of electricity usage related to Bryony Turner is therefore 47.04 kg CO2 equivalent in 2021.



5 Carbon Footprint Scope

The following Table 3 outlines the scope development for the Filkin & Co EHS Limited Carbon Footprint Programme.

Table 3: Carbon Footprint Scope of Filkin & Co EHS Limited

Activity	B Turner driving	B Turner heating oil	S Filkin driving	S Filkin heating	B Turner electricity	S Filkin electricity
2019	✓					
2020	✓	✓				
2021	✓	✓			✓	
2022	✓	✓	✓		✓	✓
2023	✓	✓	✓	✓	✓	✓

Each time a scope is added a base year will be introduced for that subject.

6 Pledge to Net Zero Responses

Required

1. Name of organisation: Required to answer. Single line text.

Filkin & Co EHS Limited

2. Your name: Required to answer. Single line text.

Bryony Turner

3. Please provide your email so we can contact you for any clarification: Required to answer. Single line text.

bryony@filkin-ehs.co.uk

4. Name of the senior person signing off your carbon footprint, if different from you.: Single line text.

Bryony Turner

5. What is your carbon target? Required to answer. Multi Line Text.

5% reduction per year (based on previous year content, with additional items added each year).

6. Is this carbon target a: Required to answer. Single choice.
 - Well below 2°C SBTI target
 - 1.5°C SBTI target
 - Don't know

7. What is your baseline year and footprint? Please include: • Baseline year • Baseline carbon footprint Scope 1 +2 (in tonnes CO2e) • Baseline Scope 3 (in tonnes CO2e) Required to answer. Multi Line Text.

2019 = 526.6 kg CO2 equivalent (Just based on driving, additional items to be added each year)

8. What is your latest annual carbon footprint? Please include: • The time period this covers • Scope 1 + 2 (in tonnes CO2e) • Scope 3 (in tonnes CO2e) Required to answer. Multi Line Text.

2020 = 179.4 6 kg CO2 equivalent (Just based on driving and oil for heating use). 2020 will be treated as an anomaly year.

9. Where is this footprint publically reported? Please provide a weblink. Required to answer. Single line text.

Reported on Twitter @Filkin_EHS and published on website <http://www.filkin-ehs.co.uk/media.html>

10. If you wish to provide comments on your footprint and progress in reducing your greenhouse gas emissions, please do so here.. Multi Line Text.

As a small consultancy our aim is to increase the measurements made on a gradual basis as information becomes available.

11. In the box below, please link to one piece of research/thought-leadership you've published in the last year on practical steps to delivering an economy in line with climate science and in support of net zero carbon, OR details of mentoring and support you've provided for smaller signatory companies in setting targets, reporting and meeting the requirements of the pledge. Required to answer. Multi Line Text.

We have undertaken carbon footprints for a number of organisations, small and large; the majority of our work is on a confidential basis. In addition, Bryony Turner has volunteered with the Zero Carbon Shropshire initiative and contributed to the resulting plan, see: <https://zerocarbonshropshire.org/zcsplan/>

Bryony is working with an Academic partner to understand the carbon footprint of Tree Guards (polymer and bio based) and has supported calculation of tree planting offsets..

12. Pledge to Net Zero is aiming to align with the UNFCCC's Race To Zero campaign. Organisations need to have committed to a 1.5°C target and to also share their plan to deliver this target. If you meet the above requirement and would like to be part of the Race To Zero please indicate so below.. Single choice.

Yes, I would like my organisation to be part of Race to Zero. We have set a 1.5°C aligned climate target and include a link to our carbon action plan below.

13. If you have signed up to Race To Zero as above, please include a link to your carbon action plan in the box below (or alternatively, send as an attachment to sarah.ridgeon@socenv.org.uk). Please note your plan will be kept confidential.. Single line text.

More information would be required, propose to issue this report in the first instance.