

Greenhouse Gas Inventory

Audit Report

October 2021 - January 2022



Wessex Internet

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Company Overview

Wessex Internet are building a full fibre network that connects and serves even the most remote countryside communities.

Throughout Dorset, South Somerset, Hampshire and Wiltshire, Wessex Internet are proud to offer our customers broadband the way it should be - fast, reliable and affordable.

Wessex Internet are able deliver superfast broadband to places other companies are unable, or unwilling, to go.

The company mission is to ensure that rural communities aren't left behind forever.

The company metrics used for this audit period were taken from the four month period. (October 2021 - January 2022)

Turnover: £ 902,432

Office Space (M2): 945 M2

Full Time Equivalent (FTE): 114

Methodology & Accreditation

This carbon impact report has been compiled by **Balanced Energy**, measuring the greenhouse gas emissions caused directly and indirectly by the reporting company. The carbon footprint in this report has been measured in KgCO₂e.

The carbon footprint has been measured by an accredited person with an IEMA (Institute of Environmental Management Assessment) certification in carbon footprinting and carbon management.

The report follows the Greenhouse Gas Protocol - Corporate Accounting and Reporting Standard. Emissions have been calculated using the latest conversion factors provided by the UK Government, department of Business Energy and Industrial Strategy and through spend based global conversion factors.

The carbon reduction plan is inline with SBT (Science Based Targets) and meets the UK Governments PPN-0621 requirements for a carbon reduction plan on tendering for public contracts.

Quality Review and Verification

Balanced Energy is committed to delivering the highest standards and accuracy of carbon reporting and service.

As part of this process the company's 12 month baseline audit report will be verified and accredited under the **future Net Zero Standard**.

- The baseline carbon footprint will run from **1st October 2021 - 30th September 2022**. Once the 12-month baseline is recorded the carbon footprint will be passed for audit and be accredited under the future Net Zero Standard and the company's pledge to reduce emissions will be aligned with the UNFCCC (United Nations Framework Convention on Climate Change) Race to Zero campaign.

Company Contacts:

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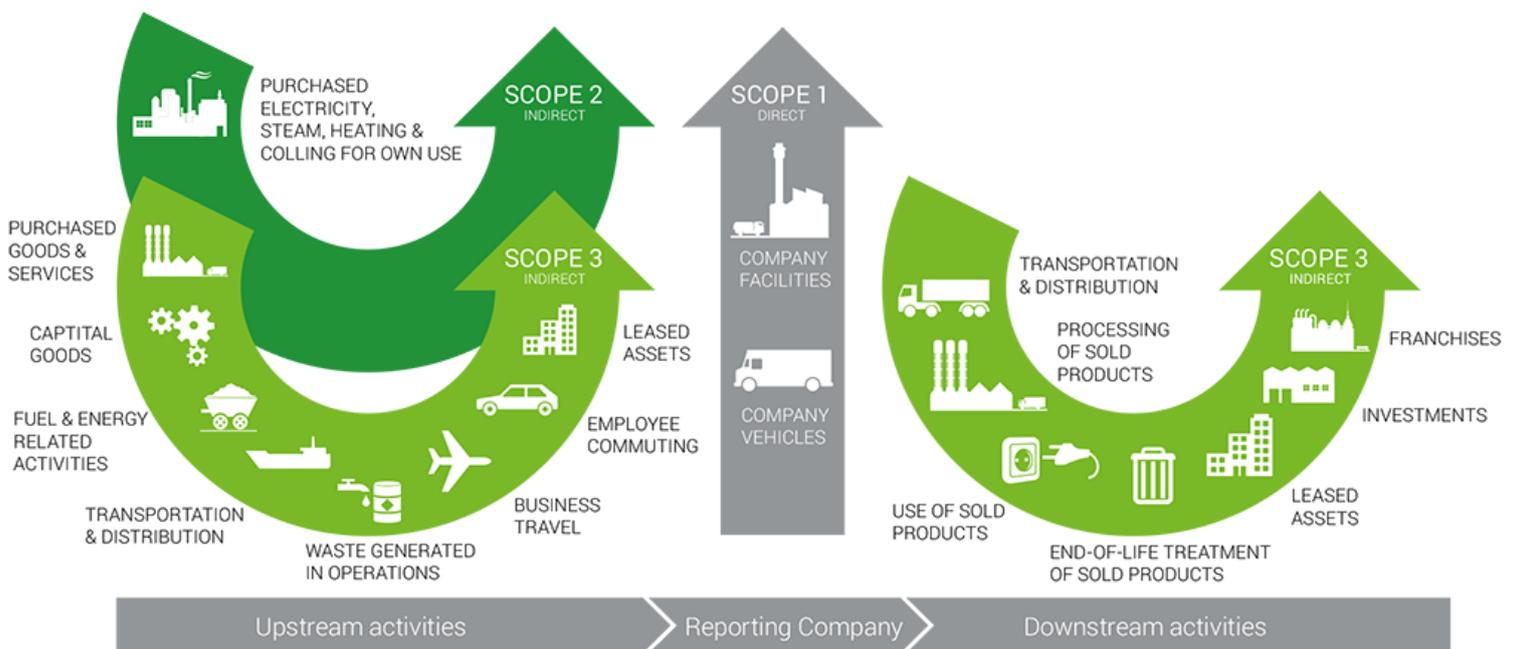
Customer: Wessex Internet

Customer Contact: Bill Atkinson

Customer Email: bill.atkinson@wessexinternet.com

GHG Protocol Framework

CO₂ CH₄ N₂O HFCs PFCs SF₆



Source: Greenhouse Gas Protocol

Carbon Neutrality: Zero emissions in scope 1 & 2

Net Zero: Zero emissions in all scopes (1, 2 & 3) in all relevant business activities.

Defining the Reporting Boundaries

We are using an operational control* approach to define the organisations carbon footprint. This audit reports includes additional activities that are not mandatory under SECR guidelines. These activities have been included to give a truer reflection of the organisations carbon footprint and journey to carbon net zero. We have identified two boundaries to Wessex Internet's net zero roadmap.

Boundary 1 contains the measurement of scope 1, 2 & 3 baseline emissions generated as a result from the operation of Wessex Internet's company facilities, plant and fleet.

Boundary 2 To create an LCA (Life Cycle Analysis) of Wessex Internets fibre service, from ground to customer.

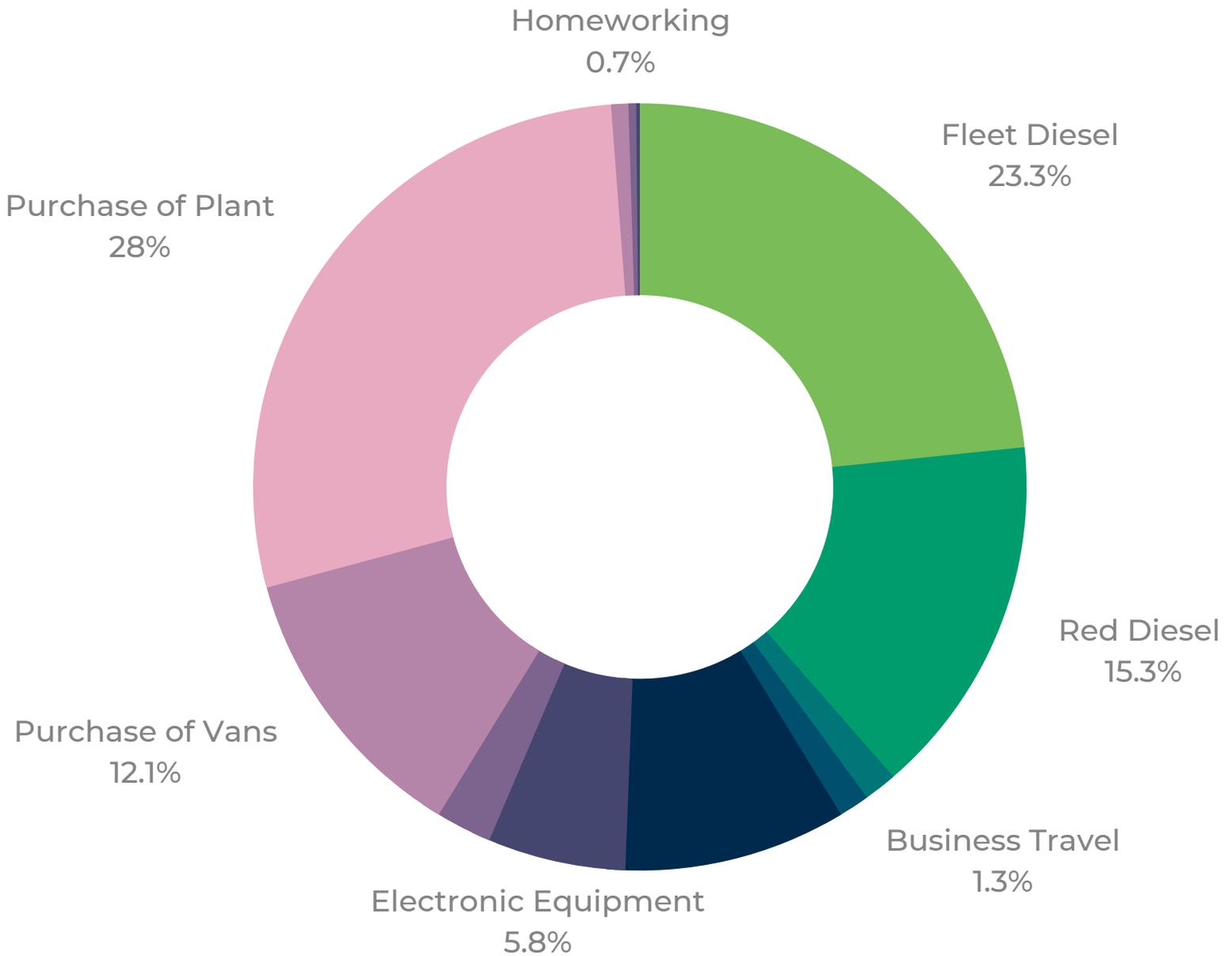
We have identified two stages within these boundaries.

PHASE 1: To measure and include all big ticket carbon items and create a target led strategy to reduce emissions within the boundary of Wessex internet's controlled operations.

PHASE 2: To accurately quantify the lifecycle of a fibre broadband service.

* Definition of operational control listed in appendix.

Carbon Footprint October 2021 - January 2022



Carbon Footprint

**385,595.57 Kg
CO₂e**

Carbon Footprint

October 2021 - January 2022

Greenhouse gas emissions by source activity

Activity	CO2e Output Kg CO2e	% of footprint
Electricity	0	0
T& D Losses	150.244	0.04
Diesel - Fleet	90,011.75	23.3
Diesel - Plant & Machinery	58,910.21	15.2
Business Travel	4,954.04	1.2
Recycling	445.38	0.12
Waste to Landfill	5,347.67	1.39
Employee Commuting	35,887.33	9.3
Homeworking	2,773.52	0.72
Purchase of Electrical equipment	22,250.75	5.77
Purchase of Workwear	9,000.25	2.33
Purchase of Vans	46,538.00	12.07
Purchase of Plant Machinery	108,095.43	28.03
Biomass	1,230.97	0.32

Carbon Footprint
385,595.57 Kg
CO2e

Carbon Footprint

October 2021 - January 2022

Data quality and method.

The data for this GHG Inventory was provided by Bill Atkinson of Wessex Internet. Data was formulated using activity data from energy bills, fuel records, waste reports, expense mileage claims. To calculate emissions using spend based method we were provided purchase ledger and asset register.

To calculate homeworking we have used the Ecoact homeworking white paper.

We have made some assumptions on waste based on the weight of the weekly collection from the council and the amount of tip recycled by Wessex Internet's waste partner RV Maidment. We have assumed they recycle 80% of mixed waste as per website.

To work out the carbon impact of the purchase of plant machinery we have used a global conversion factor, as no appropriate factor was found under BEIS/DEFRA factors. Therefore we have converted spend cost from pounds to dollars. The conversion was based on exchange rate of £0.76 per \$1.00, taken on the 21st March 2022.

All other sources and links can be found in appendix.

Net Zero Strategy Map

We believe a Net Zero Strategy must incorporate these 3 fundamental pillars. Providing a robust, transparent framework to a Net Zero journey.

CULTURE & BEHAVIOUR

Leadership.

Inspiration.

Training, Education & Awareness.

Innovation.

Be open to change.

Reduce & Mitigate.

Action.

COLLABORATION

Quantify/Measure

Share success.

Share best practice.

Engage with partners &
Stakeholders.

Engage with experts.

CAPITAL INVESTMENT

Ensure sustainability is a
core input into your
business plan.

Commercial planning.

Set targets.

Link Carbon & Cash.

NET ZERO

Carbon Reduction Plan

At this stage we can only create a carbon reduction plan based on 4 months measurement of emissions. Even from this short period of emission data, according to this report, there are clear areas that can be focussed on where emissions can be reduced. The priority is to substitute the use of diesel with low carbon alternatives such as HVO. This would yield carbon savings of **146,872 Kg of CO₂e** if all diesel was converted for this 4 month footprint.

During the creation of this report Wessex internet approached their vehicle manufacturer, who has informed them, the use HVO in their engines will void the warranties. Therefore, Wessex Internet are committed to phasing in the use of alternative fuels to diesel as soon as the manufacturers of their fleet adopt the use of HVO as a viable fuel to power their engines.

Wessex Internet are a rapidly expanding company, the below intensity metrics are a good indication to demonstrate carbon efficiency and reductions in a growing business.

Metric	CO ₂ e Output Kg CO ₂ e	
Per £1000 Turnover	20.29	
Per Capita	3,382.42	

High Level Actions

- Investigate the use of HVO to replace Diesel in fleet & Plant.
- Gradual electrification of fleet.

Pledge & Declaration

Our company recognises the importance of making a full and lasting commitment to reducing the greenhouse gas emissions from our activities, in support of the wider commitment of the world to limit global temperature increases and the impact on the planet.

We commit to the following:

1. For our company to achieve Net Zero in line with the Science Based targets set out by the UNFCCC i.e., to achieve Net Zero no later than 2050 and target a 50% reduction in emissions by 2030.
2. To set realistic short- and long-term targets that are designed to achieve our Net Zero commitments.
3. To report the total Greenhouse Gas emissions of our business regularly and for our performance to be part of the Community's annual reporting back to the UNFCCC.

Signed on Behalf of **Wessex Internet**

Signed on Behalf of **Balanced Energy**

Name:
Position:
Date:

Name: Ashley Webber
Position: Director
Date: 22/03/2022

Appendix

GHG Corporate Standard.

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

UK Government - BEIS GHG Conversion Factors.

<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021>

Balanced Energy.

<https://www.balanced-energy.co.uk/>

IEMA.

<https://www.iema.net/>

future Net Zero Standard.

<https://www.futurenetzero.com/the-fnz-standard/>

United Nations Framework Convention on Climate Change. Race to Zero Campaign.

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

*An operational control approach to GHG emissions boundary is defined as: “Your organisation has operational control over an operation if it, or one of its subsidiaries, has the full authority to introduce and implement its operating policies at the operation”.

Report Created by Ashley Webber of Balanced Energy

22/03/2022



www.balanced-energy.co.uk

