



Syntech Biofuel

Carbon Reduction Plan: 2023 - 2040

Baseline Year: January to December 2023

Target: Net Zero by 2040

Reference: PPN06/21

Executive Summary

This Carbon Reduction Plan outlines the strategies and actions that Syntech Biofuel will undertake to achieve net-zero carbon emissions by 2040. Although we believe, due to the circular nature of our production process and business, we already achieve significantly lower emissions outputs than traditional fuel producers, we recognise that there are further improvements that can be made with novel solutions and innovation. The plan is in alignment with PPN06/21 and uses the baseline year of January to December 2023 which we have engaged Envirosense Ltd to carry out for benchmarking and future reporting. As a company certified with ISO 9001 ISO 14001 and ISO 45001, we are committed to continuously improving our environmental and occupational health and safety performance.

Objectives

1. Reduce carbon emissions across all scopes to achieve a 50% reduction by 2030.
2. Achieve net-zero carbon emissions by 2040.
3. Continuously monitor and report on carbon emissions to track progress against targets.

Scope and Boundaries

- Scope 1: Direct emissions from owned or controlled sources.
 - Scope 2: Indirect emissions from the generation of purchased electricity, heat, or cooling.
 - Scope 3: Indirect emissions from the value chain, including upstream and downstream transportation and waste disposal.
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Strategies and Actions

Scope 1: Direct Emissions

1. **Energy Efficiency**
 - We have engaged Envirosense Ltd to conduct an energy audit to identify opportunities for energy efficiency improvements.
 - Implement energy-saving measures, such as upgrading to more efficient equipment and optimising processes.

2. Transition to Renewable Energy

- We are circa 90% self-sufficient in energy provided from utilising our own biofuel to energise the production units and heat the offices and laboratory.
- Explore and evaluate the use of other renewable energy sources, such as solar or wind power, to meet our operational needs.

3. Vehicle Fleet

- All site vehicles, forklifts and telehandlers run on B100 Syntech ASB Biofuel to deliver up to 92% emissions reductions.
- Encourage staff to transition to electric or hybrid vehicles for company-owned transportation.

Scope 2: Indirect Emissions

1. Green Energy Procurement

- Purchase renewable energy certificates (RECs) or enter into Power Purchase Agreements (PPAs) to offset any emissions from purchased electricity.

2. Energy Efficiency

- Reduce consumption of all energy imported and purchased from the National Grid.
- Implement policies to reduce energy consumption, such as turning off lights and equipment when not in use.

Scope 3: Value Chain Emissions

1. Supply Chain Management

- Work with suppliers to reduce emissions within the supply chain, such as optimising transportation routes and improving packaging efficiency.
- Supply Syntech ASB Biofuel to our waste oil collectors to improve our scope 3 provenance trail.
- Supply Syntech ASB biofuel to logistics companies delivering to our end users to improve our scope 3 provenance trail.

2. Waste Management

- Implement a waste reduction and recycling program to minimise landfill waste.
- Explore opportunities for increased waste-to-energy conversion to further reduce emissions.

3. Employee Engagement

- Educate and engage employees on carbon reduction strategies and encourage them to contribute to the company's sustainability goals.

Monitoring and Reporting

- Data Collection: Implement a robust data collection system to monitor and record carbon emissions across all scopes.
- Reporting: Conduct annual carbon footprint assessments and report progress against targets in accordance with PPN06/21 and ISO 14001 requirements.

Review and Continuous Improvement

- Annual Review: Conduct an annual review of the Carbon Reduction Plan to evaluate progress and identify areas for improvement.
 - Certification Maintenance: Maintain ISO 9001 ISO 14001 and ISO 45001 certifications through continuous improvement and compliance with international standards.
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Conclusion

Syntech Biofuel is committed to leading the transition to a low-carbon economy by implementing the above strategies and actions to achieve net-zero carbon emissions by 2040. Through continuous monitoring, reporting, and improvement, we aim to set a benchmark for sustainable biofuel production in the UK.

Approved by:

Mike Olone, Director of Environment and Sustainability, Syntech Biofuel

Monday 15th April 2024

Note 1: This Carbon Reduction Plan is a high-level overview and should be followed by detailed action plans, timelines, and responsible parties for each strategy and action item.

Note 2: This Carbon Reduction Plan is specifically designed to align with UK emission reporting standards as outlined in PPN 06/21. Additionally, Syntech Biofuel is in the process of developing a comprehensive emissions report that encompasses a broader geographical scope, including Europe and the rest of the world. This detailed report will utilise SBTi calculations to provide a thorough breakdown of our emissions. Although this will require some time to prepare, once completed, it will be published on our website alongside our standard UK emission reporting.

We are currently in an elaborate and accurate calculations of our emissions and as this is a time consuming process for us for the first time, hence we have mentioned the following emissions for the purpose of this submission. These figures will vary once we have received a comprehensive GHG calculated emissions and subsequently updated on our website. All stakeholders will be informed of the same.

Scope 1			
Incoming UCO	1472664	1472.664447	tCO2e
Produced Biodiesel	1163182	1163.182223	tCO2e
Scope 2			
Electrical emissions	11873	kgCO2eq	
Scope 3			
Waste Water	0.48077	kgCO2e/cbm	
Potassium Hydroxide Usage	36763.41	kg CO2e	
Transported material, wet	4.736569	kg CO2,eq / ton	



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 will be reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting .

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) Standard .

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of Syntech Biofuel:

Syntech Biofuel
Unit 9 Kingsnorth Industrial Estate
Gamma Road
Grain ME3 9ND

Mike Olone


Date: April 15th 2024

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

<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

<https://ghgprotocol.org/standards/scope-3-standard>