



PPN 06/21 Carbon Emissions & Reduction Plan Report  
ECS Engineering Services Ltd.

Publication Date: 1<sup>st</sup> April 2022





## INTRODUCTION

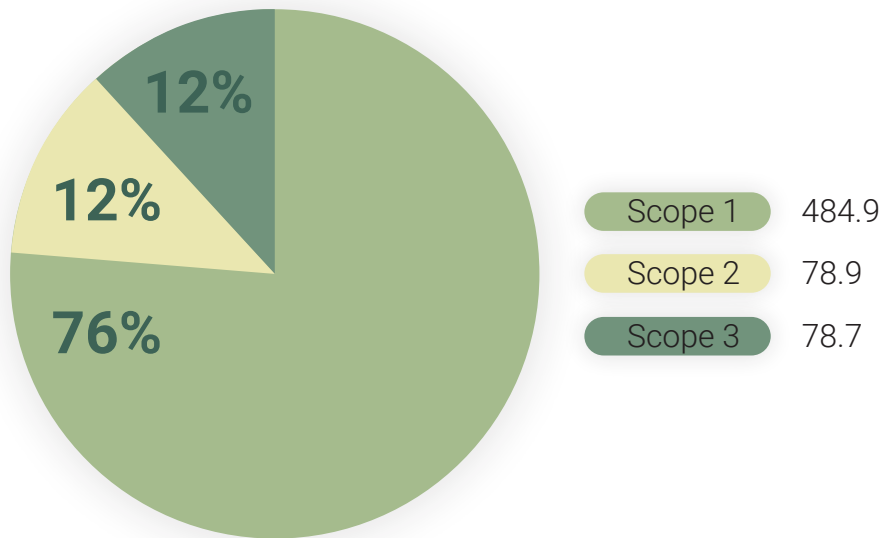
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The following page is a summary of the PPN 06/21 Carbon Emission & Reduction Plan Report for ECS Engineering Services Ltd for the year 2021. This report has been created utilising data provided by ECS Engineering Services Ltd, analysed by & the emissions calculated by the University of Derby.

## TOTAL EMISSIONS AND INTENSITY METRICS



## EMISSIONS BY SCOPE



SOURCE	SCOPE	tCO <sub>2</sub> e
Buildings - Gas	1	118.7
Buildings - F Gas	1	0
Vehicle Fleet	1	366.2
Electricity & Steam Heating/Cooling	2	78.9
Category 4 - Upstream Transportation & Distribution	3	30.8
Category 5 - Waste Generated in Operations	3	0.8
Category 6 - Business Travel	3	0.9
Category 7 - Employee Commuting	3	No Data Available
Category 9 - Downstream Transportation & Distribution	3	46.2
<b>OVERALL</b>		<b>642.5</b>

Note: All other scope 3 categories are excluded from this report.

# COMMITMENT TO ACHIEVING NET ZERO

ECS Engineering Services Ltd, is committed to achieving Net Zero emissions by 2050.

## BASELINE EMISSIONS FOOTPRINT

The Baseline emissions are a record of the greenhouse gases that were produced by ECS Engineering Service Ltd (ECS) for the year indicated and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which future emissions reduction can be measured.

Baseline Year: 2021

### ADDITIONAL DETAILS RELATING TO THE BASELINE EMISSIONS CALCULATIONS

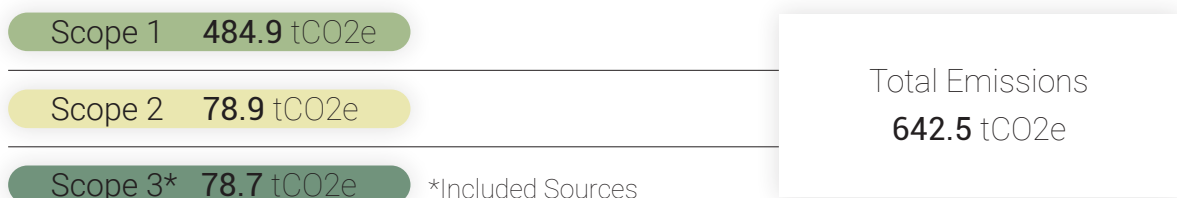
#### Exclusions:

At the time of collecting & analysing the data and preparing the Baseline Emissions Footprint, the data for Scope 3 Category 7 was not available. It is planned that this will be included in the updated PPN 06/21 Carbon Emission and Reduction Plan Report for the current emissions, calendar year 2022.

#### Assumptions:

Scope 3 Categories 4 & 9. We had no means to separate the data into the different categories and have made an assumption that the emission spilt is Category 4 – 40% and Category 9 – 60%. We are investigating if we can separate the data for the Current Emission Reporting period.

### BASELINE YEAR EMISSIONS



#### Scope:

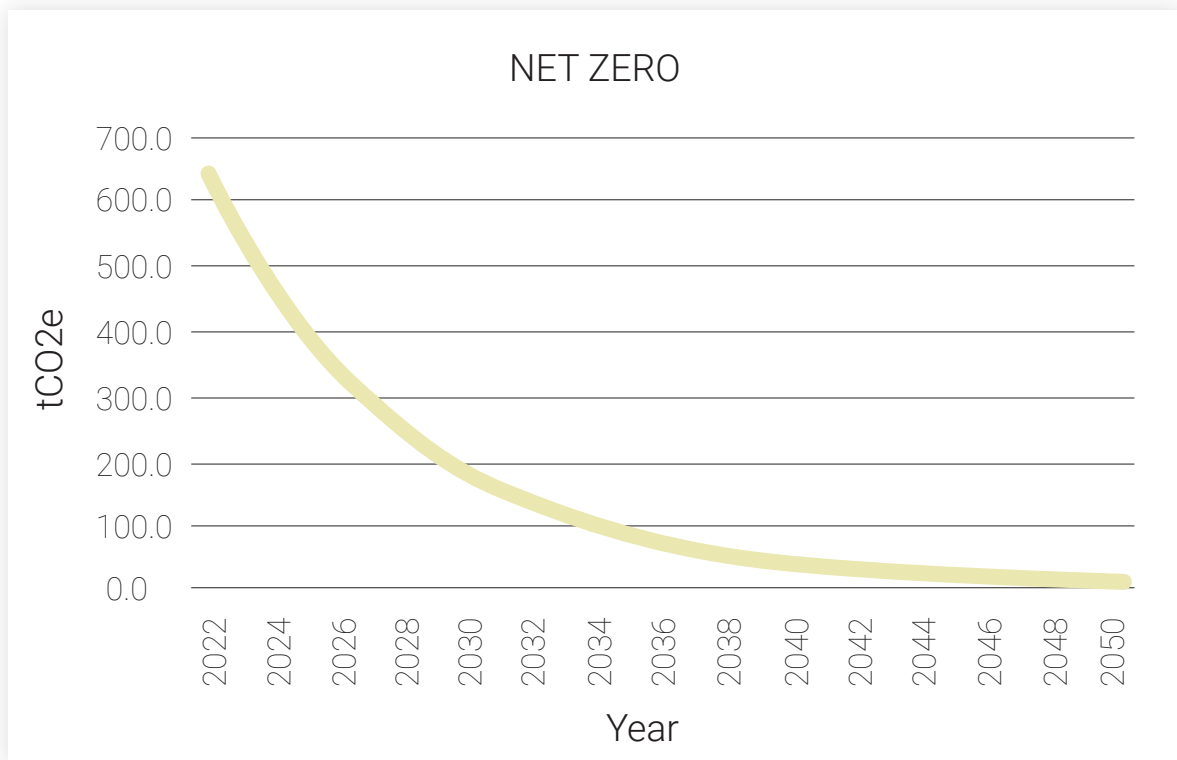
- Category 4 - Upstream Transportation & Distribution
- Category 5 - Waste Generated in Operations
- Category 6 - Business Travel
- Category 7 - Employee Commuting
- Category 9 - Downstream Transportation & Distribution

## EMISSION REDUCTION TARGETS

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 242.3 tCO<sub>2</sub>e by 2028. This is a reduction of 62% against the Baseline emissions.

The graph below plots the required reduction to meet the Net Zero target year of 2050. As we implement our Carbon Reduction plans, detailed below, year-on-year progress against the target will be tracked in the graph.



# CARBON REDUCTION PROJECTS

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## COMPLETED CARBON REDUCTION INITIATIVES

We initiated Carbon Reduction initiatives as a result of the Baseline Carbon Footprint produced by the University of Derby but these were delivered after the Baseline period. The initiatives are detailed below in the Future Carbon Reduction Initiatives section.

## FUTURE CARBON REDUCTION INITIATIVES

We have project initiatives in various stages, from feasibility study through to delivered, and these are detailed below. We expect the feasibility studies to be completed by the Tender submission date and included in our updated PPN 06/21 Current Emissions Reporting for calendar year 2022.

- 1 - Engaged an external consultant, Auditel, to advise on PPN 06/21 and the benefits of aligning the business with the BSi PAS 2060 standard.
- 2 - Replacement of the company vehicle fleet with EV or hybrid vehicles.

FEASABILITY STUDY	PROJECTED ANNUAL CARBON SAVING (tCO <sub>2</sub> e)
Action 1: Option 1 Move from diesel to Plug-in hybrid on business travel	83.3
Action 2: Option 2 Move from diesel to Battery EV on business travel	139.3
Action 3: Shifting vans with lower mileage to electric options	64.7
Action 4: Shifting vans with moderate mileage to electric options	86.5
Action 5: Shifting vans with high mileage to electric options	75.7

### 3 - Installing Solar PV Panels at the Company Offices

IN PROGRESS -  
AWAITING DNO PERMISSION FOR INSTALLATION

PROJECTED ANNUAL  
CARBON SAVING

Action 6:  
Install Solar PV Panels

20% of scope 2  
emissions

### 4 - Installation of LED lighting

DELIVERED JANUARY 2022

PROJECTED ANNUAL CARBON SAVING

Action 7:  
Installation of LED lighting

The emission savings are being calculated as part of our Current Emissions Reporting. We project a reduction of 50% in emissions for lighting the workshop area.

### 5 - Change to working practices

DELIVERED Q4 2022

PROJECTED ANNUAL CARBON SAVING

Action 8:  
Change to Working  
Practices - WFH Friday, No  
night-shift working

We have seen a decrease in our monthly electricity & gas usage. The analysis and calculations are ongoing to accurately quantify this.

From the above initiatives, we project an overall tCO<sub>2</sub>e reduction of:

**326.3 - 382.5**  
tCO<sub>2</sub>e

*(depending on the business travel option)*

## DECLARATION AND SIGN OFF

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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 standard<sup>1</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>2</sup>.

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<sup>3</sup>.

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

Signed on behalf of the supplier:

Steve Crapper  
Precontract Director at ECS Engineering Sservices Ltd.



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Date: 1<sup>st</sup> April 2022

<sup>1</sup><https://ghgprotocol.org/corporate-standard>

<sup>2</sup><https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

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