

Emissions Management and Reduction Plan

CEMARS

Carbon & Energy Management And Reduction Scheme

William Hare Group (UK) Limited



Person responsible: Brian Hughes. SH&E Director. WHL Group

Prepared by: Brian Hughes. SH&E Director. WHL Group

Dated: 01/01/2017

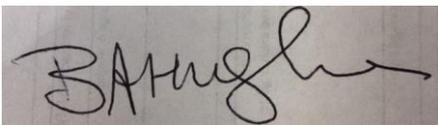
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1 Introduction

This report is the annual greenhouse gas (GHG) Emissions Management and Reduction Plan prepared for William Hare Group (UK) Limited and forms the manage step part of the organisation's application for CEMARS certification.¹

2 Rationale

We are a sustainable and responsible business that recognises that sustainability is a multi-faceted concept that has far-reaching implications for our operations in terms of our environmental, social and economic impacts. As detailed within our formal environmental, sustainability and sustainable procurement policies, we enforce high standards throughout our workforce and external partners to ensure we are a progressive, environmentally responsible organisation. As indicated in our a fore mentioned polies we recognise that the impacts of climate change through greenhouse gas emissions is a significant issue, in acknowledgment of this we consider carbon management as a priority. Monitoring our emissions is a vital component of achieving carbon efficiency and sustainable development, which in turn will enable an effective implementation of reduction projects. For the lifecycle of our activities, strategic choices throughout the company are made in order to meet our sustainability objectives. These priorities are not only documented within the sustainability policy statement, but are effectively disseminated through various channels of communication from simple reminders generated from newsletters, on-site posters, to more detailed tool-box talks, environmental bulletins and forums. By informing the relevant members of our team we endorse a best practice ethos throughout our operations in-house and with our clients and subcontract partners.

All WHL Group Ltd environment-related policies can be found on our internal Integrated Management System. SHEMPs, available on the company intranet.

WHL Group Ltd has set up its minimum carbon reduction commitments in line with the UK's national reduction targets. As much as practical we will endeavour to exceed those targets.

3 Top management commitment

Carbon management progress will be reported half yearly and annually reviewed by WHL Group SH&E Director/CEO during SH&E meetings. Minutes of those meetings will document the process and those will be available for interested parties as appropriate.

4 Person responsible

Brian Hughes, WHL Group Ltd SH&E Director, is responsible for overall emissions reduction performance and reporting to top management.

5 Awareness raising and training

Staff are made aware of the GHG emissions reduction commitments as part of induction and through company newsletters.

Key staff involved in preparing the Emissions Inventory Report and Emissions Management and Reduction Plan have attended training provided by the Institute of Environmental Management and Auditing (IEMA).

6 Significant emissions sources

¹ Throughout this document 'emissions' means 'GHG emissions'.

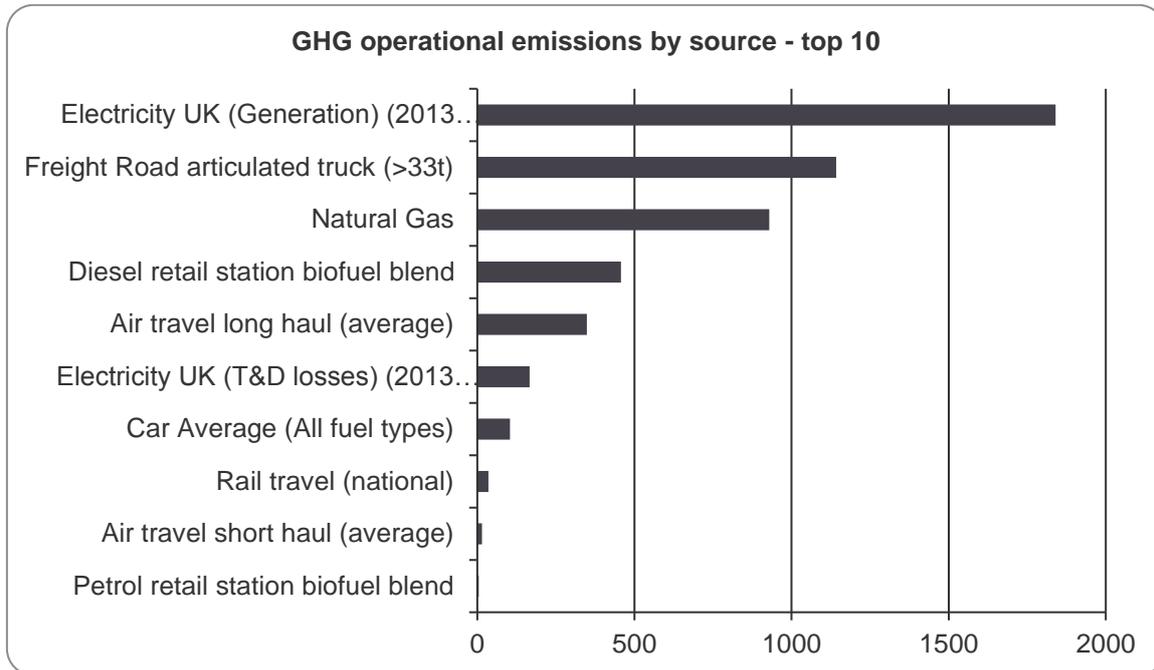


Figure 1: GHG emissions by source.

The Emissions Inventory Report identifies the most significant contributing source as electricity use, followed by road freight, natural gas, shipping freight.

Those account for nearly 85% of the total emissions and therefore most emissions reduction efforts will concentrate on those sources.

Electricity is used as a fundamental part of the fabrication process with high usage from mechanised processes, CNC controls and lighting.

Natural gas is used for heating at all facilities apart from Cellbeam/Cellshield.

Green teams are being set up at all sites. There is also a company suggestion scheme with generous rewards for all innovation.

Information gathering is generally quite good; however there is always room for improvement.

Team work and innovative thinking will be fundamental to delivery of reductions and driving the company into a 'greener' future.

Reduction target of 1.0% per annum overall will be set against the baseline year 2010 and will be relative to business activities via means of turnover.

7 Targets for emissions reduction

The organisation is committed to managing and reducing its emissions in accordance with the Programme requirements. Table 1: provides details of the emission reduction targets to be implemented. These are 'SMART' targets (specific, measurable, achievable, realistic, time-constrained).

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The five-year target for emission reduction is to reduce the purchase electricity emissions and purchased natural gas emissions by 1.0% annually.

Purchased electricity and gas are specifically targeted as they have been identified as two of the three major emissions and as emissions over which WHL has a degree of influence and control.

Table 1: Emission reduction targets.

Emissions reduction initiative	Target	Baseline (tCO ₂ e)	Target date	Metrics/ KPI	Responsibility	Rationale
Reduce purchased electricity emissions	1.00%	2593	31/12/2021	Total purchased electricity per year	Maintenance Manager	Achievable through implementation of ESOS recommendations
Reduce purchased natural gas emissions	1.00%	1400	31/12/2021	Total purchased Natural gas per year	Maintenance Manager	Achievable through implementation of ESOS recommendations

8 Specific emissions reduction projects

In order to achieve the reduction targets identified in Table 1: specific projects have been evaluated to achieve these targets. These are detailed below.

Table 2: Projects to reduce emissions.

Objective	Actions	Responsibility	Completion date
Reduced electricity use.	Implementation of ESOS recommendations	Maintenance Mgr and SH&E Director	On-going
Reduced natural gas use.	Implementation of ESOS recommendations	Maintenance Mgr and SH&E Director	On-going

Table 3: highlights emission sources that contributed to poor data quality in the Emissions Inventory Report and describes the actions that will be taken to improve the data quality in future inventories.

Table 3: Projects to improve data quality.

Project details
N/A

The emissions inventory identified various emissions liabilities. Table 4 details the actions that will be taken to prevent GHG emissions from these potential emissions sources.

Table 4: Projects to prevent emissions and reduce liabilities

Project details
N/A

9 Unintended environmental impacts

N/A

10 Key performance indicators

- tCO₂e per £M gross turnover

11 Monitoring and reporting

The monitoring and reporting on a monthly basis will be undertaken by each factory manager and the SH&E director. Company progress on reducing GHG emissions will be reported half yearly to senior management by the SH&E.

12 Emissions reduction calculations

See reduction calculator.

13 Performance against plan

See reduction calculator.