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## **Net Zero 2050 Carbon Reduction Plan**

Version: 1.0

Last Review Date: 15/11/2021

### **VERSION**

<b>Version</b>	<b>Description</b>	<b>Date</b>	<b>Authorised by</b>
<b>0.1</b>	Initial Draft	14/11/2021	J MCGEOCH
<b>0.2</b>	Insertion of 2021 Figures and Targets	15/11/2021	M MCGEOCH
<b>1.0</b>	Published Plan	15/11/2021	M MCGEOCH

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## 1 Introduction

It is the responsibility of all users of MMCG Consultancy Services Ltd to read, understand and comply with this policy. This policy may be updated from time to time to comply with legal and policy requirements. Review and compliance will form part of MMCG annual certification of policy compliance.

## 2 Purpose

This Carbon Reduction Plan is intended to show that MMCG Consultancy Services Ltd and all its users, are committed to being Net Zero by 2050, in line with GHG (Green House Gas) Protocol, it is also in place to show the means of which we are going to achieve this.

SMEs (Small and Medium Sized Enterprises) account for 90% of all businesses, in order to achieve Net Zero by 2050, all SMEs must lower their carbon emissions.

“Setting a net zero target that requires reduction of emissions, aligned with pathways that limit warming to 1.5°C, and balancing any remaining emissions by use of carbon removal.”

Every employee and individual acting on behalf of MMCG Consultancy Services Ltd is responsible to follow this policy so that we can ensure that we remain an ethical and morally conscious organisation.

## 3 Policy

It is MMCG Consultancy Services employees (MMCG) who must act in an environmentally conscious manner.

MMCG has a duty, under the Paris Climate Agreement ([Paris Accords 2015](#)), to help in the reduction of carbon emissions, to ensure that the global temperature increase does not exceed 2°C, and if possible limit it to 1.5°C.

## 4 Scope

Members of MMCG and all other users (staff, students, visitors, contractors, and others) of the MMCG's facilities are bound by the provisions of its policies in addition to this Carbon Reduction Plan.

To become Net Zero by 2050, we must:

1. Actively seek out Eco-friendly alternatives within the business and our personal lives.
2. Push forward ideas of ways in which we can achieve a lower carbon footprint.
3. Follow government set out guidelines (such as the [GHG Protocol](#)).

## 5 GHG Protocol

The GHG Protocol Corporate Standard focuses only on the accounting and reporting of emissions Document Control Information.

To help delineate direct and indirect emission sources, improve transparency, and provide utility for different types of organizations and different types of climate policies and business goals, three “scopes” (scope 1, scope 2, and scope 3) are defined for GHG accounting and reporting purposes. Scopes 1 and 2 are carefully defined in this standard to ensure that two or more companies will not account for emissions in the same scope. This makes the scopes amenable for use in GHG programs where double counting matters. Companies shall separately account for and report on scopes 1 and 2 at a minimum.

## **SCOPE 1 – DIRECT**

Companies report GHG emissions from sources they own or control as scope 1. Direct GHG emissions are principally the result of the following types of activities undertaken by the company:

1. Generation of electricity, heat, or steam.
2. Physical or chemical processing.
3. Transportation of materials, products, waste, and employees with the use of company owned/controlled vehicles.
4. Fugitive emissions.

To achieve Net Zero by 2050, MMCG consultancy will monitor and report the use of its owned vehicles for business use, and where possible use more eco-friendly alternatives.

## **SCOPE 2 – INDIRECT**

Companies report the emissions from the generation of purchased electricity that is consumed in its owned or controlled equipment or operations.

Scope 2 emissions are a special category of indirect emissions.

Scope 2 accounts for GHG emissions from the generation of purchased electricity consumed by the company. Purchased electricity is defined as electricity that is purchased or otherwise brought into the organizational boundary of the company. Scope 2 emissions physically occur at the facility where electricity is generated.

“For many companies, purchased electricity represents one of the largest sources of GHG emissions and the most significant opportunity to reduce these emissions.”

In order to reduce Scope 2 emissions, MMCG Consultancy will be investing in energy efficient technologies and energy conservation.

We will do this by switching to less GHG intensive sources of electricity, and where possible use renewable sources.

MMCG employees, where possible will be energy conscious, to aid in the conservation of energy.

## **SCOPE 3 – OTHER INDIRECT GHG EMISSIONS**

Scope 3 is an optional reporting category that allows for the treatment of all other indirect emissions. Scope 3 emissions are a consequence of the activities of the company but occur from sources not owned or controlled by the company. Some examples of scope 3 activities are extraction and production of purchased materials; transportation of purchased fuels; and use of sold products and services. Scope 3 is an optional reporting category that allows for the treatment of all other indirect emissions. Scope 3 emissions are a consequence of the activities of the company but occur from sources not owned or controlled by the company. Some examples of scope 3 activities are extraction and production of purchased materials; transportation of purchased fuels; and use of sold products and services.

Consistent with the scope 2 definition, emissions from the generation of purchased electricity that is consumed during transmission and distribution are reported in scope 2 by the company that owns or controls the T&D operation. End consumers of the purchased electricity do not report indirect emissions associated with T&D losses in scope 2 because they do not own or control the T&D operation where the electricity is consumed (T&D loss).

## 6 Your Responsibilities

You must ensure that you read, understand, and comply with this policy.

Other than what is stated in Chapter 5, MMCG employees will actively try to reduce their own Carbon Footprint at home, and on contract.

## 7 Document Control Information

Owner: J MCGEOCH

Approval Date: 15 Nov 2021

Approved By: M MCGEOCH

Date of Last review: See front sheet.

Date of next review: This policy will be in place for one year following approval of a review and amendments. An earlier review may take place in exceptional circumstances, such as a change in legislation and/or being insufficient for purpose.

## 8 ANNUAL REPORT 2020/2021

### SCOPE 1 – DIRECT

MMCG Consultancy Services Ltd report the following GHG emissions from sources they own or control as scope 1.

#### Report 2021

1. Generation of electricity, heat, or steam; Net zero
2. Physical or chemical processing; N/A to business
3. Transportation of materials, products, waste, and employees with the use of company owned/controlled vehicles; **2,563KG CO<sub>2</sub> (9000 miles at 1.78g/KM)**
4. Fugitive emissions. N/A to business

Targets 2022: 1,700KG CO<sub>2</sub> (6000 miles)

Targets 2023: Net Zero- Electric vehicles only

### SCOPE 2 INDIRECT

Values Calculated using [Greenhouse gas reporting: conversion factors 2020 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/greenhouse-gas-reporting-conversion-factors-2020)

Natural gas	tonnes	2533.00	2528.26	3.40	1.33
	cubic metres	2.02266	2.01888	0.00271	0.00107
	kWh (Net CV)	0.20374	0.20336	0.00027	0.00011
	kWh (Gross CV)	0.18387	0.18352	0.00025	0.00010

This provides a gas CO<sub>2</sub> figure of: **3640KgCO<sub>2</sub>**

Activity	Country	Unit	Year	kg CO <sub>2</sub> e	kg CO <sub>2</sub>	kg CH <sub>4</sub>	kg N <sub>2</sub> O
Electricity generated	Electricity: UK	kWh	2020	0.23314	0.23104	0.00072	0.00138

This provides an electricity CO<sub>2</sub> figure of: **2128KgCO<sub>2</sub>**

**Total: 5768 KgCO<sub>2</sub>**

Target 2022: 5,500KG CO<sub>2</sub>

Target 2023: 5,250KG CO<sub>2</sub>

### SCOPE 3 – OTHER INDIRECT GHG EMISSIONS

MMCG Consultancy Services Ltd has nothing to report under scope 3.

Approval Date: 15 Nov 2021

Approved By: M MCGEOCH