## Simple carbon footprint

Dr Duncan East Head of Sustainability E : <u>duncane@marwell.org.uk</u> W : marwellwildlife.org.uk

# Definitions

- Direct emissions
  - Resulting from activity with equipment under your control
- Indirect emissions
  - Resulting from activity of others providing services to you



# Definitions

• Scope 1

Direct emissions from your equipment

• Scope 2

Emissions from the provision of electricity, heat or cooling from a third party

• Scope 3

All other emissions from others providing services to you



# Boundaries





		Scope 1	Heating fuel						
			Building	Building 1	Building 2	Building 3	Building 4		
			Heating fuel	Mains gas	LPG	Oil	Woodchip		
			Quantity (kWh / m3 / litres / tonnes)	Ŭ					
			Data source (meter readings, invoices, delivery notes)						
			CO <sub>2</sub> conversion factor	2.021	1.557	2.758	57.153		
			Carbon Dioxide (tonnes)	0.00	0.00	0.00	0.00		0.0
			Process fuel use						
			Process	Water boilers	Steam	Welding	Cooking		
			Heating fuel	Mains gas	Mains gas	Butane	Mains gas		
			Quantity (m3 / litres / Kg / tonnes)						
			Data source (meter readings, invoices, delivery notes)						
			CO <sub>2</sub> conversion factor	2.021	2.021	3.033	2.021		
	Scope 1		Carbon Dioxide (tonnes)	0.00	0.00	0.00	0.00		0.0
			Transport and fuel use						
			Туре	Site vehicles	Eleet vehicles	Elect vehicles	Petrol driven		
			1,900				equipment		
			Fuel type	Diesel	Petrol	Diesel	Petrol		
			Quantity (litres, distance)						
			Data source (receipts, vehicle logs)						
			CO <sub>2</sub> conversion factor	2.512	2.194	2.512	2.194		
			Carbon Dioxide (tonnes)	0.00	0.00	0.00	0.00		0.0
			Fugitive refridgerent emissions	A/C top up	top up	Refrigeration top up			
			Refridgerent type for top up	R410A	R404A	R452A			
			Top up volume from service records						
			CO <sub>2</sub> conversion factor	2088	3922	2140			
	l l		Carbon Dioxide (tonnes)	0.00	0.00	0.00			0.0
		Scope 2	Electricity - Market based approach ie Green Tariff energy						
			Building or zone	Meter 1	Meter 2	Meter 3	Meter 4		
			kWh (meter reads or invoice)						
			Generation CO <sub>2</sub> per kWh	0.0000	0.0000	0.0000	0.0000		
	Scope 2		Carbon dioxide (tonnes)	0	0	0	0		0.0
			Electricity - location based approach ie grid average emission	ns					
			Building or zone	Meter 1	Meter 2	Meter 3	Meter 4		
			kwh (meter reads or invoice)	0	0	0	0		
<b>M</b>			Generation CO <sub>2</sub> per kWh	0.2123	0.2123	0.2123	0.2123		
	marwell		Carbon dioxide (tonnes)	0	0	0	0		0.0
	Wildlife							Market heard	0.0
								warket based	0.0

Location based 0.0



#### Sales Invoice

Balance Due £976.08

Shawfield, Laughton Lodge, Laughton, East Sussex, BN8 6BY Tel: 01323 340041, Email: accounts@sewf.co.uk VAT Number VAT GB 881 4819 92

Invoice Address:
Marwell Wildlife
Colden Common
Thompson's Lane
Winchester
Hampshire
SO21 1JH

Dellare Address

Marwell Wildlife	Invoice Date :	04/12/2020
Jane Smith	Payment Terms :	Net 30
Colden Common	Due Date :	03/01/2021
Winchester	Sales Order :	SO-100605
Hampshire SO21 1JH	Delivery Note :	13756

#	Description	Unit	Qty	Unit Price	VAT %	VAT	Amount	
1	Forestry Wood Chip ISO P32 G30 CAT A less than or equal to 30 percent MC Air Dried BSL0002350 0012	m3	30.00 m3	27.32	5.00	40.98	819.60	
2	HAULAGE WAITING CHARGE - vehicle arrived at 7am but then had to wait a further 90 minutes due to vehicles blocking the entrance.	each	1.00	110.00	5.00	5.50	110.00	
				Total \	/ATable Amou	unt	929.60	
				Reduced Rate (5%)				

Amount Payable

£976.08

Please make payment direct to our bank account as detailed below

Bank:	HSBC
Account Name:	South East Wood Fuels Ltd



## CALOR

#### DELIVERY NOTE 33884209

TripNo : 02770471 Vehicle: 21088 Driver : P JACOBS Date : 29/01/2021 Time : 09:52

CUSTOMER OPERATIONS CENTRE CADLAND ROAD CHARLESTON INDUSTRIAL FAWLEY

SO45 3NY

Phone : 0345 609 6208 Delivery Point: 64308725 Order No:

MARWELL WILDLIFE EDUCATION CENTRE COLDEN COMMON OWSLEBURY WINCHESTER SO21 1JH

Product: PROPANE UN: 1978 Delivery No.: 76

#### TOTAL VOL. DELIVERED: 1266 LITRES

TOTALISER	BEFORE	:	5176234
TOTALISER	AFTER	:	5177500

#### TANK READINGS AFTER DELIVERY

#### TANK 01: FULL

## Scope 1 - Heating



#### Scope 1

Heating fuel

Building	Building 1	Building 2	Building 3	Building 4	
Heating fuel	Mains gas	LPG	Oil	Woodchip	
Quantity (kWh / m3 / litres / tonnes) Data source (meter readings, invoices, delivery notes)	10000	5000	20000	100	
CO <sub>2e</sub> conversion factor	2.021	1.557	2.758	57.153	
Carbon Dioxide (tonnes)	20.21	7.79	55.16	5.72	88.9
Process fuel use					
Process	Water boilers	Steam generator	Welding	Cooking	
Heating fuel	Mains gas	Mains gas	Butane	Mains gas	
Quantity (m3 / litres / Kg / tonnes)	1000	500	37	500	
Data source (meter readings, invoices, delivery notes)					
CO <sub>2e</sub> conversion factor	2.021	2.021	3.033	2.021	
Carbon Dioxide (tonnes)	2.02	1.01	0.11	1.01	4.2





#### Scope 1

Transport and fuel use					
Туре	Site vehicles	Fleet vehicles	Fleet vehicles	Petrol driven equipment	
Fuel type	Diesel	Petrol	Diesel	Petrol	
Quantity (litres, distance)	5000	10000	10000	500	
Data source (receipts, vehicle logs)					
CO <sub>2e</sub> conversion factor	2.512	2.194	2.512	2.194	
Carbon Dioxide (tonnes)	12.56	21.94	25.12	1.10	60.7



## Scope 1 – Refrigeration

#### INTERNAL UNIT VRF MAINTENANCE DATA SHEET

Server Room , 52900244, , Ark Gift Shop

Filter checked (Yes/No)	YES	
Fan Motor checked (Yes/No)	YES	
Facia checked (Yes/No/NA)	YES	
Coil checked (Yes/No)	YES	
Internal Drain Pump checked (Yes/No)	YES	
External Drain Pump checked (Yes/No/NA)	N/A	
Controller checked (Yes/No)	YES	
Air On Temp °c	20	°c
Air Off Temp °c	5.6	°c
Refrigerant Leak Check (Yes/No/NA)	YES	
Electrical Connections Tight (Yes/No/NA)	YES	
Evaporator Cleaned (Yes/No/NA)	YES	
Condensate Drip/Tray/Drains Cleaned (Yes/No/NA)	YES	
Filters Cleaned (Yes/No/NA)	YES	
COMMENTS	·	
Cooling only		



#### Scope 1

Fugitive refridgerent emissions	A/C top up	Refrigeration top up	Refrigeration top up	
Refridgerent type for top up	R410A	R404A	R452A	
Top up volume from service records	1	1	1	
CO <sub>2e</sub> conversion factor	2088	3922	2140	
Carbon Dioxide (tonnes)	2.09	3.92	2.14	8.2







	Current 4-Week Period	Previous 4-Week Period	% Diff
Total Consumption (kWh)	16,701.0	17,028.4	-1.92
Day Average (kWh)	596.5	608.2	-1.92
Day Maximum (kWh)	680.1	760.3	-10.54
MD (kW)	71.9	64.8	10.96

Date Current	kWh Current	Date Previous	kWh Previous	% Diff
03/10/21	616.9	05/09/21	726.5	-15.09
04/10/21	549.4	06/09/21	708.0	-22.40
05/10/21	558.5	07/09/21	686.5	-18.65
06/10/21	589.7	08/09/21	683.0	-13.65
07/10/21	609.1	09/09/21	619.3	-1.65
08/10/21	644.4	10/09/21	654.9	-1.60
09/10/21	665.8	11/09/21	724.7	-8.13
10/10/21	650.1	12/09/21	650.6	-0.08
11/10/21	510.1	13/09/21	579.7	-12.01
12/10/21	483.2	14/09/21	577.4	-16.32
13/10/21	490.5	15/09/21	600.2	-18.28
14/10/21	547.3	16/09/21	574.6	-4.74
15/10/21	620.7	17/09/21	613.8	1.13
16/10/21	668.1	18/09/21	496.2	34.64
17/10/21	632.5	19/09/21	639.4	-1.09
18/10/21	551.2	20/09/21	553.9	-0.49
19/10/21	589.0	21/09/21	501.1	17.53
20/10/21	584.9	22/09/21	530.6	10.24
21/10/21	532.4	23/09/21	587.2	-9.33
22/10/21	582.8	24/09/21	644.2	-9.53
23/10/21	618.4	25/09/21	760.3	-18.66
24/10/21	576.6	26/09/21	692.8	-16.77
25/10/21	617.2	27/09/21	527.3	17.05
26/10/21	618.5	28/09/21	545.1	13.47
27/10/21	624.1	29/09/21	530.4	17.68
28/10/21	668.4	30/09/21	523.4	27.71
29/10/21	680.1	01/10/21	517.1	31.53
30/10/21	621.8	02/10/21	580.9	7.04
Current 4-Weeks	16,701.0	Previous 4-Weeks	17,028.4	-1.92

## Scope 2 – Electricity

Marwell Zoo Owslebury Winchester	Charge for the period	£1263.29
SO21 1JH	Invoice N D Account I Full amount wil Debit on or after:	Io. 700005637738 Date 9 August 2021 Number 1010 6907 Il be taken by Direct 23rd August 2021

If you'd like to speak to us just call: 0845 230 6 102

CCL Accounting Document

Period	: From 1st July 2021 to 31st July 2021
Site	: The Ark Gift Shop, Thompsons Lane

				Amount
Availability Charge		50 kVA @	2.6900p/day	£41.70
Data Collector Charge				£16.52
Standing Charge		31 Days @	22.3000p	£6.91
Energy Charges	On Reak	5,782.3 kWh @	14.0400p	£811.83
	Off Peak	1,720.0 kWh @	10.2200p	£175.78
Maximum Demand		18.80 kW		
		Sub-To	tal	£1,052.74
		VAT at	20.00%	£210.55
		Total		£1,263.29



Report Time Zone: (UTC+00:00) Dublin, Edinburgh, Lisbon, London (With Daylight Saving)

Scop	e 2					
	Electricity - Market based approach i energy	ie Green Tariff				
	Building or zone	Meter 1	Meter 2	Meter 3	Meter 4	
	kWh (meter reads or invoice)	250000	200000	150000	100000	
	Generation CO <sub>2e</sub> per kWh	0.0000	0.0000	0.0000	0.0000	
	Carbon dioxide (tonnes)	0	0	0	0	0.0
	Electricity - location based approach emissions	ie grid average				
	Building or zone	Meter 1	Meter 2	Meter 3	Meter 4	
	kWh (meter reads or invoice)	250000	200000	150000	100000	
	Generation CO <sub>2e</sub> per kWh	0.2123	0.2123	0.2123	0.2123	
	Carbon dioxide (tonnes)	53	42	32	21	148.6



#### Research and analysis

## Greenhouse gas reporting: conversion factors 2021

These emission conversion factors are for use by UK and international organisations to report on 2021 greenhouse gas emissions.

#### From: Department for Business, Energy & Industrial Strategy Published 2 June 2021

#### Documents

<b>Conversion</b> factors	2021: condensed set
(for most users)	

XLSM, 776KB

This file may not be suitable for users of assistive technology.

Request an accessible format.

#### <u>Conversion factors 2021: full set (for</u> <u>advanced users)</u>

XLSM, 968KB

This file may not be suitable for users of assistive technology.

Request an accessible format.

#### **Related content**

An introduction to the UK's greenhouse gas inventory

Greenhouse gas reporting: conversion factors 2019

Air emissions risk assessment for your environmental permit

Government conversion factors for company reporting of greenhouse gas emissions

Greenhouse gas reporting: conversion factors 2018

#### Collection

Government conversion factors for company reporting of greenhouse gas

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



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2 Intro	oduction															
3 Index 5 6	Next publication date: 01/06/2021 Fact Version: 1.0 Year	r set: Full set : 2020	Department for Business, Energy & Industrial Strategy	Department for Environment Food & Rural Affa	irs											
7																
8	UK Government GHG Conversion Welcome to the UK Government Convers organisations reporting on UK operations users do this at their own risk	on Factors for Company on Factors for greenhouse g Therefore, the scope of the	r <b>Reporting</b> gas (GHG) reporting. Thes e factors is defined such t	e factors are suitable hat it is relevant to en	for use by UK-based on nissions reporting. The	rganisations of all sizes e factors may also be us	and internation sed for other pu	nal rposes, but								
9	For new users of the conversion factors, e	ensure that you have first rea	ad the government's 'Env	vironmental reporting	guidelines' and the in	formation on the rest o	of this sheet. The	en follow the								
10	informative text at the top of each tab to	report your emissions acros	s Scopes 1, 2 and 3. It is n	ot necessary to read t	he 'What's new' guida	ance.										
10	If you have used the conversion factors b	efore, ensure you have read	the 'What's new' guidan	ice to understand the	changes that have bee	en made to the factors o	over the last yea	ar. Following								
	the 'What's new' guidance will ensure the	it reporting is consistent and	d comparable year on yea	ar. Please note - activi	ty-specific 'What's nev	w' information is repea	ted in the releva	ant activity								
11	tabs.															
12	For information about how the conversio	1 factors have been derived,	l, please refer to the acco	mpanying 'Methodolo	gy paper' to the conve	ersion factors.										
13	Please note - factors that are: (a)	ot available, will be marked	d with an empty, light sha	aded cell:												
14	(D)	lave an invalid combination	i of criteria, will be marke	ed with an empty, dare	cshaded cell:											
15	After the three introductory workshoets	each workshoot procents th	o omission fortors for a s	ingle type of omission	s rolossing activity /f	or oxample, using alog	ricity or driving	apassongor								
	vehicle). These emissions-releasing activ	ities are categorised into thr	ree groups known as scop	pes. Each activity is list	ed as either Scope 1, S	Scope 2 or Scope 3. Sco	pe 1, Scope 2 an	d Scope 3 are								
16	colour coded. Refer to the ' <u>Index</u> ' tab for	inks to each sheet.														
	<ul> <li>Scope 1 (direct emissions) emissions and</li> </ul>	e those from activities own	ed or controlled by your o	organisation. Example	s of Scope 1 emission	s include emissions fro	m combustion ir	n owned or								
17	controlled boilers, furnaces and vehicles;	and emissions from chemica	al production in owned o	or controlled process e	quipment.											
	<ul> <li>Scope 2 (energy indirect) emissions are</li> </ul>	those released into the atm	nosphere that are associa	ated with your consum	ption of purchased el	lectricity, heat, steam a	nd cooling. The	se indirect								
18	emissions are a consequence of your orga	nisation's energy use, but o	occur at sources you do no	ot own or control.												
19	<ul> <li>Scope 3 (other indirect) emissions are a emissions are business travel by means n</li> </ul>	consequence of your action	ns that occur at sources y	ou do not own or cont disposal materials or f	rol and are not classed	d as Scope 2 emissions. n nurchases Deciding if	Examples of Sco emissions from	ope 3 a vehicle								
	office or factory that you use are Scope 1	or Scope 3 may depend on h	iow you define your oper	ational boundaries. So	cope 3 emissions can b	be from activities that a	re upstream or (	downstream								
	of your organisation. More information o	n Scope 3 and other aspects	of reporting can be foun	d in the <u>Greenhouse G</u>	Gas Protocol Corporate	e Standard.										
20																
04	How are individual worksheets in this	spreadsheet organised?														
	Introduction What's new In	dex Fuels Bioenergy	Refrigerant & other	Passenger vehicles	Delivery vehicles	SECR kWh pass & del	ivery vehs	JK electricity	Overseas electricity	UK elec	tricity for EVs	SECR kWh UK	electricity for EVs	🕂		·
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	Activity	Fuel	Unit	kg CO <sub>2</sub> e	kg CO <sub>2</sub>	kg CH₄	kg N <sub>2</sub> O									
			tonnes	2533.00	2528.26	3.40	1.3	3								
			litres	0.44327	0.44245	0.00059	0.000	23								
		CNG	kWh (Net CV)	0.20374	0.20336	0.00027	0.000	)11								
			kWh (Gross CV)	0.18387	0.18352	0.00025	0.000	010								
			tonnes	2542.41	2537.68	3.40	1.3	3								
		ING	litres	1.15041	1.14827	0.00154	0.000	60								
		LING	kWh (Net CV)	0.20449	0.20411	0.00027	0.000	)11								
			kWh (Gross CV)	0.18455	0.18421	0.00025	0.000	010								
			tonnes	2938.81	2934.82	2.14	1.8	6								
		IPG	litres	1.55537	1.55325	0.00113	0.000	99								
			kWh (Net CV)	0.23030	0.22999	0.00017	0.000	)15								
	Gaseous fuels		kWh (Gross CV)	0.21448	0.21419	0.00016	0.000	)14								
			tonnes	2533.00	2528.26	3.40	1.3	3								
		Natural gas	cubic metres	2.02266	2.01888	0.00271	0.001	.07								
			kWh (Net CV)	0.20374	0.20336	0.00027	0.000	011								
			kWh (Gross CV)	0.18387	0.18352	0.00025	0.000	010								
			tonnes	2542.41	2537.68	3.40	1.3	3								
		Natural gas (100% mineral blend)	cubic metres	2.03017	2.02640	0.002/1	0.001	.07								
			kWh (Net CV)	0.20449	0.20411	0.00027	0.000	011								
			KWN (Gross CV)	0.18455	0.18421	0.00025	0.000	010								
			litroc	2601.11	2598.56	1.1/	1.3	9								
		Other petroleum gas	kW/b (Not CV)	0.95279	0.20024	0.00043	0.000	11								
			kWh (Gross CV)	0.18486	0.18468	0.0009	0.000	)10								
			(01053 CV)	0.10400	0.10400	0.00000	0.000									
Þ	Introduction What	t's new Index Fuels Bioenergy Refrige	rant & other Passeng	er vehicles Deliv	ery vehicles SEC	R kWh pass & deliver	y vehs UK el	ectricity O	verseas electricity	UK ele	ctricity for EVs	SECR kWh Uk	< electricity for EVs	🕂	: •	Þ

Ready

■ ■ − − + 140%

Market based 161.9

**Location based 310.5** 





## Winchester Sustainable Business Network

### Post COP26 Roundup and Carbon Action Net Zero and Target Setting

Eva Koszorus

**Business Development Manager** 

**Planet Mark** 







**Discussion** WWW IN



1. Understand Net Zero

2. Set your targets and start measuring

3. Get stuck in!



### The Planet Mark Zero Carbon Tour

Travelling all across the UK in the 'Carbon Battle Bus' to COP26 taking the zero carbon message to towns, cities, companies and communities.

- Raise awareness for COP26, the UNbacked Race to Zero and #TogetherForOurPlanet campaigns.
- 2) Gather "Carbon Stories" to inspire others.
- 3) Helping companies to set credible net zero carbon targets and plans to achieve them.







## Who Are Planet Mark?

#### What We Do

Planet Mark is a sustainability certification which recognises continuous improvement, encourages action and builds an **empowered** community of like-minded individuals who make a world of difference in every type of organisation.

#### How

Our simple three step process takes organisations on a journey to sustainability action:

#### ) 1. Measure

We help you collate carbon and social value data to measure your impact.

) 2. Engage

Our engagement experts unlock your team's passion to take action.

#### 3. Communicate

We help you communicate your achievements authentically and effectively with the world.

	-,
We are Planet Mark	🥚 Measure
Certified	
Continiou	123 tCO_e Total carbon footprint.
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Tour company togo	E23,000 Total Social Value.
	We are committed to reducing our carbon
	emissions yearly so that together, we can all halt climate change.
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	FTE employees. We engage our employees and wider
	stakeholders to unlock their talent and knowledge to drive year on year progress in sustainability.
	🕘 Communicate
Empowering change for a brighter future. The Planet Mark is a sustainability certification for every type of organisation, for products and for real estate. Our certification recognises continuous improvement, encourages action and	
builds an empowered community of like-minded individuals who make a world of difference.	7

# Carbo argon

# Autority of the second second

on the world. Interview of the world.



## **Scopes of emission**

There are 3 Scopes of Emissions:

#### Scope 1

Fuel you burn yourself (e.g. oil heaters and fuel in owned company vehicles).

#### Scope 2

Energy you consume (e.g. electricity).

#### Scope 3

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Everything else! (e.g. waste, commuting, supply chain and so on).

#### **GREENHOUSE GAS EMISSIONS: SCOPE 1, 2 & 3**



COMPANY

W

1. PURCHASEI GOODS AND SERVICES

5. WASTE GENERATED



#### What do we mean by 'Net Zero Carbon Emissions'?



#### e.g.

- Renewable Energy
- EV Fleet
- Energy Efficiency

#### e.g.

- Supplier Engagement
- Waste Reduction
- Travel Hierarchies

#### e.g.

- Natural Solutions
- Limited Technologies



## Net Zero vs True Zero



Years from today



## Carbon offsets.

Carbon offset schemes allow companies to invest in international environmental projects that balance out their own carbon footprints.

• Gold Standard (International, additional) Verified Carbon Standards.

#### Two types:

#### 1) Carbon Avoidance

Avoidance of carbon emissions going into the atmosphere (e.g. wind, solar).

#### 2) Carbon Removal

Removal through carbon sequestration. UK Woodland Code (trees, peatland restoration) or through technology.





## Carbon neutral vs. net zero carbon

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		Net zero carbon – best practice
Defined by	PAS 2060 standard	Standard developing
Measurement: Scope 1 and 2	Required	Required
Measurement: Scope 3	Not required	Required
Carbon reduction target: Scope 1 and 2	Reduction plan required	Zero (Reduce as close to zero as possible)
Carbon reduction target: Scope 3	Not required	Reduce as close to zero as possible
Offsetting/GHGR	Buy offsets equivalent to total carbon footprint	Residual emissions (scope 3) compensated by GHG removals



## **Definitions of terms.**

schemes. To be net zero carbon a business can also be carbon neutral.



## Measurement, Carbon cl and an surge Carbon clinic. practical pathways t sequences particular particular set and set, empowering businesses to have a n. e POSITIVE impact on eventd



## **Total carbon footprint.** Location BASED

Reporting year: 1 November 2019 - 31 October 2020

#### **Reporting Boundary:**

UK operations (45 sites)

#### Emissions measured:

Electricity, T&D losses, natural gas, homeworking energy (not included in total carbon footprint), gas oil, refrigerants, water, waste, fleet, business travel, paper use

#### Highlights:

Carbon footprint (tCO<sub>2</sub>e): 1.085.6 Per employee (tCO<sub>2</sub>e): 0.5 Next reduction target: 5% Data quality score:

18 out of 20

Carbon footprint by emission source for year ending 2020, tCO2e



Note: Your carbon footprint is reported two ways; one is using the location based method of calculating Scope 2 electricity emissions and the other the market based method. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen (or their lack of choice).

All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.

## Vertrzero carbon goal – example pathways



## Planet Mark – Official partners of the UN-backed Race to Zero Campaign

# Pledge

Pledge at head of organisational level to reach net zero as soon as possible before 2050.

#### Plan

Within 12 months of joining, set an interim target representing your fair share of 50% reduction by 2030.

#### Proceed

Take immediate, meaningful action toward achieving net zero within first 12 months of joining.



#### Publish

Report progress annually by publishing against your targets on a public platform.





## Make Your Net Zero Carbon Commitment.

Join the official Planet Mark UN-backed Race to Zero Commitment pledge wall here:

#### www.zerocarbontour.com

For sector-specific routes for SME's, financial institutions, universities, cities and regions you should also sign up here:

https://racetozero.unfccc.int/join-the-race/



Take part

#### Join our movement for CHAMGE



For press enquiries piezos email pressoffice@planetmark.com

#### Make the Zero Carbon Commitment

Our organisation recognises the thread of the alimate analysis and is committing to take immediate action, pledging to Make our absolute greenhouse gas emissions before 2030 Achieve net zero emissions before 2080

Disclose our progress on a yearly basis

In doing so, we are proud to join the UN-booked Race to Zero company and join governments, businesses, othes, regions and universities around the world that share the same mission.

Zero Corbon Commitment FAG

View the committed organizations

First name		Last nome		
Emei		Role		
Company nome				
Website		Number of employees	~	
Address line 1		Address line 2		
City		Courty		
Post code		Country	~	
Company identifier	~	Company identifier number		
Main seator			~	
Yearly revenue	~	Currency	~	
We commit to ophieving net set	o emission:	s before	~	



# Take ACTION

Mobilise your people to cut your operational carbon
 Engage your supply chain to reduce your Scope 3
 Monitor and communicate your progress

www.ZeroCarbonTour.com

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Join us to go net zero:

www.planetmark.com

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## Empowering change for a BRIGHTER future.