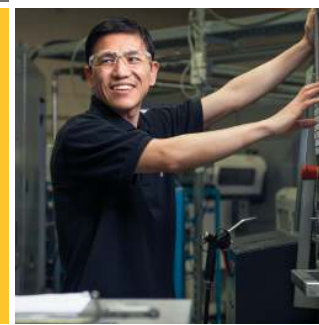




# CARBON FOOTPRINT REPORT

01 MAY 2019 - 31 OCTOBER 2020





## Carbon footprint report for CMP Products Limited 01 May 2019 to 31 October 2020

CMP Products has selected the base year from the 01 November 2019 to the 31 October 2020 (12 months) in order to match the Company's new financial period.

CMP Products Limited emitted 2,192,028 kgCO<sub>2</sub>e (Kilogrammes of carbon dioxide equivalent) for 2019/20 (across scope 1 and 2). This can be presented as 2,192 tCO<sub>2</sub>e (tonnes of carbon dioxide equivalent) with an intensity indicator of 7.56 tCO<sub>2</sub>e per total full-time equivalent employee (FTE) and 38.68 tCO<sub>2</sub>e per million GBP £.

When Scope 3 is added, this brings the total to 2,316 tCO<sub>2</sub>e.

**Table 1. UK GHG emissions and energy use data for period 01 November 2019 to 31 October 2020**

Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
<b>Scope 1</b>				
Natural gas	3,942,768 kWh	3,942,768	724,956.75	724.96
CO2	24 kg	-	23.59	0.02
Small car (diesel)	4,989 km	2,678	684.54	0.68
Van diesel (average up to 3.5 tonnes)	14,729 km	14,328	3,639.47	3.64
LPG	9,310 litre	-	14,480.49	14.48
R-407C	7 kg	-	11,531.00	11.53
<b>Total Scope 1</b>			<b>755,316</b>	<b>755</b>
<b>Scope 2</b>				
UK National Grid electricity	6,162,446 kWh	6,162,446	1,436,712.57	1,436.71
<b>Total Scope 1 &amp; 2</b>			<b>2,192,028</b>	<b>2,192</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1 &amp; 2</b>				<b>7.56</b>
<b>Total tCO<sub>2</sub>e per *£m Turnover on gross scope 1 &amp; 2</b>				<b>38.68</b>
<b>Scope 3</b>				
Transmission and distribution of UK national grid electricity	6,162,446 kWh	6,162,446	123,557.03	123.56
<b>Total Scope 3</b>			<b>123,557</b>	<b>124</b>
<b>Total Scope 1, 2 &amp; 3</b>			<b>2,315,585</b>	<b>2,316</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1, 2 &amp; 3</b>				<b>7.98</b>
<b>Total tCO<sub>2</sub>e per *£m Turnover on gross scope 1, 2 &amp; 3</b>				<b>40.86</b>
<b>Adjustments</b>				

\*Notes: For 01 November 2019 to 31 October 2020, the number of Full-time equivalent employees (FTE) was 290 and the Turnover was GBP £56,664,329

The data breakdown by each of the CMP sites for this period is reported tables 2.1 to 2.3.





### Carbon footprint detailed breakdown by site (Unit 1) – (01 November 2019 to 31 October 2020)

Unit 1 emitted 272,175 kgCO<sub>2</sub>e (Kilogrammes of carbon dioxide equivalent) for 2019/20 (across scope 1 and 2). This can be presented as 272 tCO<sub>2</sub>e (tonnes of carbon dioxide equivalent) with an intensity indicator of 9.72 tCO<sub>2</sub>e per total full-time equivalent employee (FTE).

When Scope 3 is added, this brings the total to 282 tCO<sub>2</sub>e.

**Table 2.1. Unit 1 GHG emissions and energy use data for period 01 November 2019 to 31 October 2020**

Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
Scope 1				
Natural gas	858,581 kWh	858,581	157,867.29	157.87
<b>Total Scope 1</b>			<b>157,867</b>	<b>158</b>
Scope 2				
UK National Grid electricity	490,296 kWh	490,296	114,307.56	114.31
<b>Total Scope 1 &amp; 2</b>			<b>272,175</b>	<b>272</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1 &amp; 2</b>				<b>9.72</b>
Scope 3				
Transmission and distribution of UK national grid electricity	490,296 kWh	490,296	9,830.43	9.83
<b>Total Scope 3</b>			<b>9,830</b>	<b>10</b>
<b>Total Scope 1, 2 &amp; 3</b>			<b>282,005</b>	<b>282</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1, 2 &amp; 3</b>				<b>10.07</b>
Adjustments				

\*Notes: For 01 November 2019 to 31 October 2020 the number of Full-time equivalent employees (FTE) was 28.

### Carbon footprint detailed breakdown by site (Unit 3) – (01 November 2019 to 31 October 2020)

Unit 3 emitted 528,782 kgCO<sub>2</sub>e (Kilogrammes of carbon dioxide equivalent) for 2019/20 (across scope 1 and 2). This can be presented as 529 tCO<sub>2</sub>e (tonnes of carbon dioxide equivalent) with an intensity indicator of 4.72 tCO<sub>2</sub>e per total full-time equivalent employee (FTE).

When Scope 3 is added, this brings the total to 559 tCO<sub>2</sub>e.

**Table 2.2. Unit 3 GHG emissions and energy use data for period 01 November 2019 to 31 October 2020**

Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
Scope 1				
Natural gas	943,272 kWh	943,272	173,439.42	173.44
Small car (diesel)	4,989 km	2,678	684.54	0.68
<b>Total Scope 1</b>			<b>174,124</b>	<b>174</b>
Scope 2				
UK National Grid electricity	1,521,221 kWh	1,521,221	354,657.56	354.66
<b>Total Scope 1 &amp; 2</b>			<b>528,782</b>	<b>529</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1 &amp; 2</b>				<b>4.72</b>
Scope 3				



Transmission and distribution of UK national grid electricity	1,521,221 kWh	1,521,221	30,500.49	30.50
<b>Total Scope 3</b>			<b>30,500</b>	<b>31</b>
<b>Total Scope 1, 2 &amp; 3</b>			<b>559,282</b>	<b>559</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1, 2 &amp; 3</b>				<b>4.99</b>
Adjustments				

\*Notes: For 01 November 2019 to 31 October 2020 the number of Full-time equivalent employees (FTE) was 112.

Unit 36 emitted 1,391,072 kgCO<sub>2</sub>e (Kilogrammes of carbon dioxide equivalent) for 2019/20 (across scope 1 and 2). This can be presented as 1,391 tCO<sub>2</sub>e (tonnes of carbon dioxide equivalent) with an intensity indicator of 9.27 tCO<sub>2</sub>e per total full-time equivalent employee (FTE).

When Scope 3 is added, this brings the total to 1,474 tCO<sub>2</sub>e.

**Table 2.3. Unit 36 GHG emissions and energy use data for period 01 November 2019 to 31 October 2020**

Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
<b>Scope 1</b>				
Natural gas	2,140,915 kWh	2,140,915	393,650.04	393.65
CO <sub>2</sub>	24 kg	-	23.59	0.02
Van diesel (average up to 3.5 tonnes)	14,729 km	14,328	3,639.47	3.64
LPG	9,310 litre	-	14,480.49	14.48
R-407C	7 kg	-	11,531.00	11.53
<b>Total Scope 1</b>			<b>423,325</b>	<b>423</b>
<b>Scope 2</b>				
UK National Grid electricity	4,150,928 kWh	4,150,928	967,747.45	967.75
<b>Total Scope 1 &amp; 2</b>			<b>1,391,072</b>	<b>1,391</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1 &amp; 2</b>				<b>9.27</b>
<b>Scope 3</b>				
Transmission and distribution of UK national grid electricity	4,150,928 kWh	4,150,928	83,226.11	83.23
<b>Total Scope 3</b>			<b>83,226</b>	<b>83</b>
<b>Total Scope 1, 2 &amp; 3</b>			<b>1,474,298</b>	<b>1,474</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1, 2 &amp; 3</b>				<b>9.83</b>
Adjustments				

\*Notes: For 01 November 2019 to 31 October 2020 the number of Full-time equivalent employees (FTE) was 150.



Due to COVID the Financial reporting period was extended to 18 months from 01 May 2019 to 30 November 2020. Hence, the carbon footprint for the 18-month period is as given in Table 3.

CMP Products Limited emitted 2,192,028 kgCO<sub>2</sub>e (Kilogrammes of carbon dioxide equivalent) for 2019/20 (across scope 1 and 2). This can be presented as 2,192 tCO<sub>2</sub>e (tonnes of carbon dioxide equivalent) with an intensity indicator of 7.56 tCO<sub>2</sub>e per total full-time equivalent employee (FTE) and 38.68 tCO<sub>2</sub>e per million GBP £.

When Scope 3 is added, this brings the total to 2,316 tCO<sub>2</sub>e.

**Table 3. UK GHG emissions and energy use data for period 01 May 2019 to 31 October 2020**

Emissions source	Units	kWh	Carbon (kgCO <sub>2</sub> e)	Carbon (tCO <sub>2</sub> e)
<b>Scope 1</b>				
Natural gas	4,767,845 kWh	4,767,845	876,647.16	876.65
CO <sub>2</sub>	36 kg	-	36.02	0.03
LPG	14,598 litre	97,844	22,532.12	22.53
R-407C	16 kg	-	27,940.50	27.94
Small car (diesel)	4,989 km	2,678	684.54	0.68
Van diesel (average up to 3.5 tonnes)	14,729 km	14,328	3,639.47	3.64
<b>Total Scope 1</b>			<b>931,480</b>	<b>931</b>
<b>Scope 2</b>				
UK National Grid electricity	9,382,024 kWh	9,382,024	2,259,636.66	2,259.63
<b>Total Scope 1 &amp; 2</b>			<b>3,191,116</b>	<b>3,191</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1 &amp; 2</b>				<b>6.87</b>
<b>Total tCO<sub>2</sub>e per *£m Turnover on gross scope 1 &amp; 2</b>				<b>37.54</b>
<b>Scope 3</b>				
Transmission and distribution of UK national grid electricity	9,382,024 kWh	9,382,024	193,421.87	193.42
<b>Total Scope 3</b>			<b>193,422</b>	<b>193</b>
<b>Total Scope 1, 2 &amp; 3</b>			<b>3,384,538</b>	<b>3,385</b>
<b>Total tCO<sub>2</sub>e per *FTE on gross scope 1, 2 &amp; 3</b>				<b>7.30</b>
<b>Total tCO<sub>2</sub>e per *£m Turnover on gross scope 1, 2 &amp; 3</b>				<b>39.82</b>
<b>Adjustments</b>				

\*Notes: For 01 May 2019 to 31 October 2020 the number of Full-time equivalent employees (FTE) was 300 and the Turnover was GBP £84,996,494.



### Energy efficiency measures taken

- CMP Products Limited has achieved the objective of reducing the average monthly electricity consumption against total hours worked across the 3 Cramlington sites (Unit 1, Unit 3 and Unit 36). The objective for this financial year was a 5% reduction of 12.2 kWh which was the result of the previous financial year. CMP Products achieved a reduction of 5%, achieving 11.6 kWh. In order to achieve this result, the company has:
  - o CMP has implemented a Life Cycle Assessment process for product design.
  - o CMP products has invested in videoconference systems that have been installed in conference rooms, overseas offices and individual laptops.
  - o CMP has promoted the introduction of home working during the Covid-19 pandemic.
  - o CMP has implemented a paperless system (digital marketing, Integrated Management System in IFS, QC inspections in IFS, etc).
  - o CMP is continuously reviewing the costs of shipping products as well as the different types of methods for shipping (air freight, etc).
  - o CMP has introduced cardboard packaging against wood crates, which have been reduced to a minimum.
  - o CMP Products has implemented an Integrated Management System including ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 in November 2019.
  - o The roof of Unit 36 has been insulated during this FY.

### Energy efficiency planned

- CMP Products Limited plans to calculate and report the base line energy usage and carbon footprint reports on a yearly basis.
- CMP has defined new environmental objectives for the FY2020/21.
- CMP is planning to install electricity smart meters and other energy improvement systems & processes.
- CMP will carry out an ESOS survey to the 3 sites located in Cramlington, UK.
- CMP has planned a waste reduction strategy.
- CMP is looking to recirculate the used water from the operation processes in Unit 36.
- CMP is looking to standardise the bought out consumables (i.e. oils, etc).
- CMP will introduce a waste oil recycling system.
- CMP will introduce Total Preventative Maintenance (TPM) which will support the equipment efficiency improvement.
- CMP is planning to introduce a cycle to work scheme.

### Notes about methodology:

- CMP Products Limited has adopted an operational control approach to establishing the boundary. The methodology adopted in line with the Greenhouse Gas Protocol<sup>1</sup> and the BEIS Environmental Reporting Guidelines<sup>2</sup>. The calculations were completed on the SmartCarbon<sup>TM</sup> Calculator<sup>3</sup> using the UK Government emissions factors<sup>4</sup>.
- CO<sub>2</sub>e is the universal unit of measurement to indicate the global warming potential (GWP) of Greenhouse Gases (GHGs), expressed in terms of the GWP of one unit of carbon dioxide. There are seven main GHGs that contribute to climate change, as covered by the Kyoto Protocol: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF<sub>6</sub>) and nitrogen trifluoride (NF<sub>3</sub>). Different activities emit different gases. Using CO<sub>2</sub>e allows all greenhouse gases to be measured on a like-for-like basis.



- For National grid electricity consumption, THE ORGANISATION has included factors for the transmission and distribution of electricity (T&D) losses, which occur between the power station and site(s). The emissions from T&D has been accounted for in Scope 3. As with other Scope 3 impacts, reporting T&D is voluntary but is recommended standard practice by UK Government<sup>2</sup>.

#### Estimations:

- No estimations have been reported.

#### Exclusions:

- CMP Products Limited has not included the carbon emissions from Scope 3.
- CMP Products Limited has not included the carbon emissions from the overseas offices.
- Due to the Covid-19 pandemic, CMP Products didn't have any business travel in this period. CMP employees used videoconference software to connect and meet customers instead.

#### Carbon Footprint Verification:

This verification exercise has been undertaken by an independent third party business (Open Dorr Management Systems) in accordance with the principles contained within 'ISO 14064-3: 2019 Specification with guidance for the verification and validation of greenhouse gas statements', namely: impartiality, evidence-based approach, fair presentation, documentation and conservativeness.

#### GHG Verification Statement:

It is the opinion of the Verifier that CMP Products Ltd have developed their Scope 1 and 2 GHG emissions inventory in accordance with its own procedures (based on the GHG Protocol) and through the use of the SmartCarbon Calculator. Limitations in utility data traceability in the baseline year has been addressed in Year 1 (FY19) reporting.

A pre-defined verification process was undertaken by Open Dorr Management Systems and the GHG emissions for FY19 reported through the SmartCarbon Calculator were accurate. There were no residual material issues.

GHG emissions data has been confirmed as (in kgCO<sub>2</sub>e):

Reporting Period	Scope 1	Scope 2	Total (Scope 1 + 2)
FY 2019/20	755,316 kgCO <sub>2</sub> e	1,436,713 kgCO <sub>2</sub> e	2,192,028 kgCO <sub>2</sub> e

**Definitions:**

**Carbon footprint** - The total set of greenhouse gas emissions (GHG) caused directly and indirectly by an individual event, organisation, or product expressed as Carbon Dioxide Equivalent (CO<sub>2</sub>e). (Source: Greenhouse Gas Protocol).

**Scope 1** (direct emissions) emissions are those from activities owned or controlled by your organisation. Examples of Scope 1 emissions include emissions from combustion in owned or controlled boilers, furnaces and vehicles; and emissions from chemical production in owned or controlled process equipment.

**Scope 2** (energy indirect) emissions are those released into the atmosphere that are associated with your consumption of purchased electricity, heat, steam and cooling. These indirect emissions are a consequence of your organisation's energy use, but occur at sources you do not own or control.

**Scope 3** (other indirect) emissions are a consequence of your actions that occur at sources you do not own or control and are not classed as Scope 2 emissions. Examples of Scope 3 emissions are business travel by means not owned or controlled by your organisation, waste disposal, materials or fuels your organisation purchases. Deciding if emissions from a vehicle, office or factory that you use are Scope 1 or Scope 3 may depend on how you define your operational boundaries. Scope 3 emissions can be from activities that are upstream or downstream of your organisation. More information on Scope 3 and other aspects of reporting can be found in the Greenhouse Gas Protocol Corporate Standard.

**References:**

1. The GHG Protocol Corporate Accounting and Reporting Standard. Revised Edition (2015) World Resource Institute and World Business Council for Sustainable Development.
2. Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance (March 2019) UK Government Department for Business, Environment and Industrial Strategy.
3. [SmartCarbon Calculator: https://www.smartcarboncalculator.com/](https://www.smartcarboncalculator.com/)
4. Greenhouse gas reporting: conversion factors - Full set (for advanced users). More at this link: <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

**Authors**

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