



# Carbon Reduction Plan PPN 06/21

Mott MacDonald



Cabinet Office

## CARBON REDUCTION PLAN INFORMATION

This Carbon Reduction Plan has been developed to meet the reporting requirements set out in the UK Government supporting guidance for Procurement Policy Note 06/21. This plan includes our current carbon footprint and commitment to reducing emissions to achieve net-zero emissions.

This document is updated on an annual basis, is published on our external website and is approved by the executive board member sponsor of sustainability and climate change, demonstrating a clear commitment to emissions reduction at the highest level.

**Supplier name:** Mott MacDonald

**Publication date:** August 2024

## Commitment to achieving net-zero

Mott MacDonald Group Limited is committed to achieving net-zero emissions by 2040. Our net-zero target has been validated by the Science Based Targets initiative (SBTi) in line with their Corporate Net-Zero Standard.

## Baseline emissions footprint

Table 1 below provides our baseline emissions (2019) and Table 2 provides emissions for our most recent reporting year (2023). Both tables provide total emissions for Mott MacDonald Group, as well as the breakdown of emissions from our UK businesses: Mott MacDonald Limited (UK consulting business) and JN Bentley (UK contracting business). We monitor progress against our baseline using market-based<sup>1</sup> emissions.

**Table 1: Baseline year emissions (2019)**

Emissions Category	Emissions Source	Total Mott MacDonald Group Limited <sup>2</sup> (tCO <sub>2</sub> e)	Mott MacDonald Limited <sup>3</sup> (tCO <sub>2</sub> e)	JN Bentley <sup>4</sup> (tCO <sub>2</sub> e)
<b>Total carbon footprint (market-based)</b>		<b>296,091</b>	<b>57,761</b>	<b>151,743</b>
Scope 1	Natural gas	1,012	880	12
	Refrigerant gases	485	198	27
	Fuel for business owned vehicles	2,521	-	2,521
	Fuel for plant on site	9,766	-	9,766
Scope 2	Purchased electricity (market-based)	9,031	2,261	191
	Purchased electricity (location-based)	8,188	2,796	317
Scope 3	Category 1 – Purchased goods and services	183,278	33,540	102,991
	Category 2 – Capital goods	3,504	-	3,504
	Category 3 – Fuel and energy related activities	5,287	775	3,063
	Category 4 – Upstream transportation and distribution	24,588	- <sup>5</sup>	24,588
	Category 5 – Waste generated in operations	2,723	850	647
	Category 6 – Business travel	39,147	14,807	3,420
	Category 7 – Employee commuting	14,750	4,451	1,012
	Category 9 – Downstream transportation and distribution	This category is not relevant to our business.		

<sup>1</sup> Whilst location-based reporting uses national average grid factors, market-based reporting uses supplier specific and residual grid factors, therefore reflecting the impact of purchasing renewably sourced electricity.

<sup>2</sup> Mott MacDonald Group Limited is our global business

<sup>3</sup> Mott MacDonald Limited is our consulting business in the UK

<sup>4</sup> JN Bentley is our contracting business in the UK

<sup>5</sup> Emissions from this category are included within Category 1. We are working towards improving this calculation approach so that the categories can be reported separately where possible.

## Current emissions reporting

**Table 2: Current year emissions (2023)**

Emissions Category	Emissions Source	Mott MacDonald Group Limited (tCO <sub>2</sub> e)	Mott MacDonald Limited (tCO <sub>2</sub> e)	JN Bentley (tCO <sub>2</sub> e)
<b>Total carbon footprint (market-based)</b>		<b>236,897</b>	<b>49,613</b>	<b>123,217</b>
Scope 1	Natural gas	630	394	38
	Refrigerant gases	1,008	265	22
	Fuel for business owned vehicles	2,162	-	2,162
	Fuel for plant on site	6,679	-	6,679
Scope 2	Purchased electricity (market-based)	4,246	138	106
	Purchased electricity (location-based)	5,348	1,042	141
Scope 3	Category 1 – Purchased goods and services	164,680	36,752	86,519
	Category 2 – Capital goods	5,043	-	5,043
	Category 3 – Fuel and energy related activities	4,441	418	2,508
	Category 4 – Upstream transportation and distribution	16,814	- <sup>6</sup>	16,814
	Category 5 – Waste generated in operations	2,312	727	702
	Category 6 – Business travel	19,907	7,979	1,923
	Category 7 – Employee commuting	8,975	2,979	701
	Category 9 – Downstream transportation and distribution	This category is not relevant to our business.		

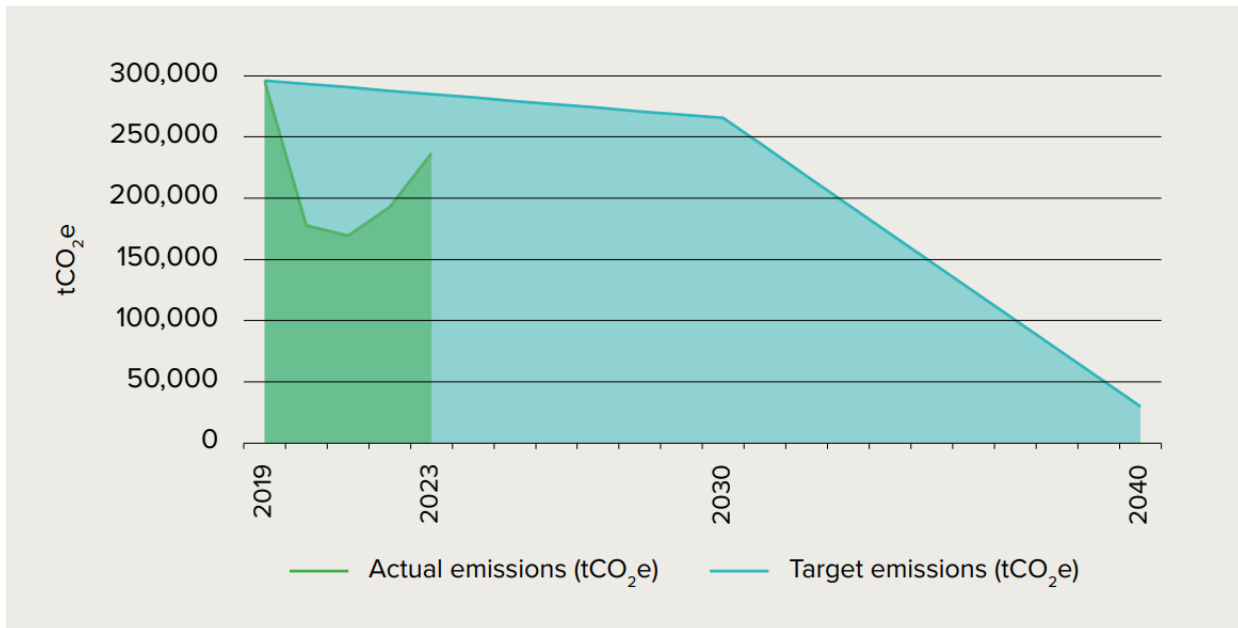
## Emission reduction targets

Mott MacDonald Group Limited commits to reach net-zero greenhouse emissions across the value chain by 2040 from a 2019 base year. The SBTi have approved our near and long-term science-based emissions reduction targets (detailed within Table 3). To achieve our targets, we have developed a Group carbon reduction plan to drive deep reductions and will update this annually as required.

## Progress against targets

Our annual progress can be seen in Figure 1. The blue lines show our committed 2030 and 2040 absolute reduction targets, while the green lines show our actual emissions in the years since 2019 (our base year). Note that Figure 1 shows our trajectory to 2040. This includes our total scope 1, 2 and 3 emissions, all of which are covered by our absolute reduction target in the long-term. The graph shows that our actual emissions have been consistently below our targeted emissions since 2020. Further information on our breakdown of progress against our near and long-term targets is detailed within Table 3. More detail can be found here: [Climate change - Mott MacDonald](#).

<sup>6</sup> Emissions from this category are included within Category 1. We are working towards improving this calculation approach so that the categories can be reported separately where possible.



**Figure 1: Target trajectory vs actual emissions**

Mott MacDonald achieved a total 20% reduction in our global carbon emissions in 2023 compared to a 2019 baseline (this equates to a reduction of ~59,000 tCO<sub>2</sub>e). The reduction in scope 1 and 2 emissions is due to our ongoing programme to procure renewable electricity for our offices and low carbon fuels for our construction plant. The decrease in scope 3 emissions has been achieved by reducing business travel and office commuting.

**Table 3: Progress against science-based targets**

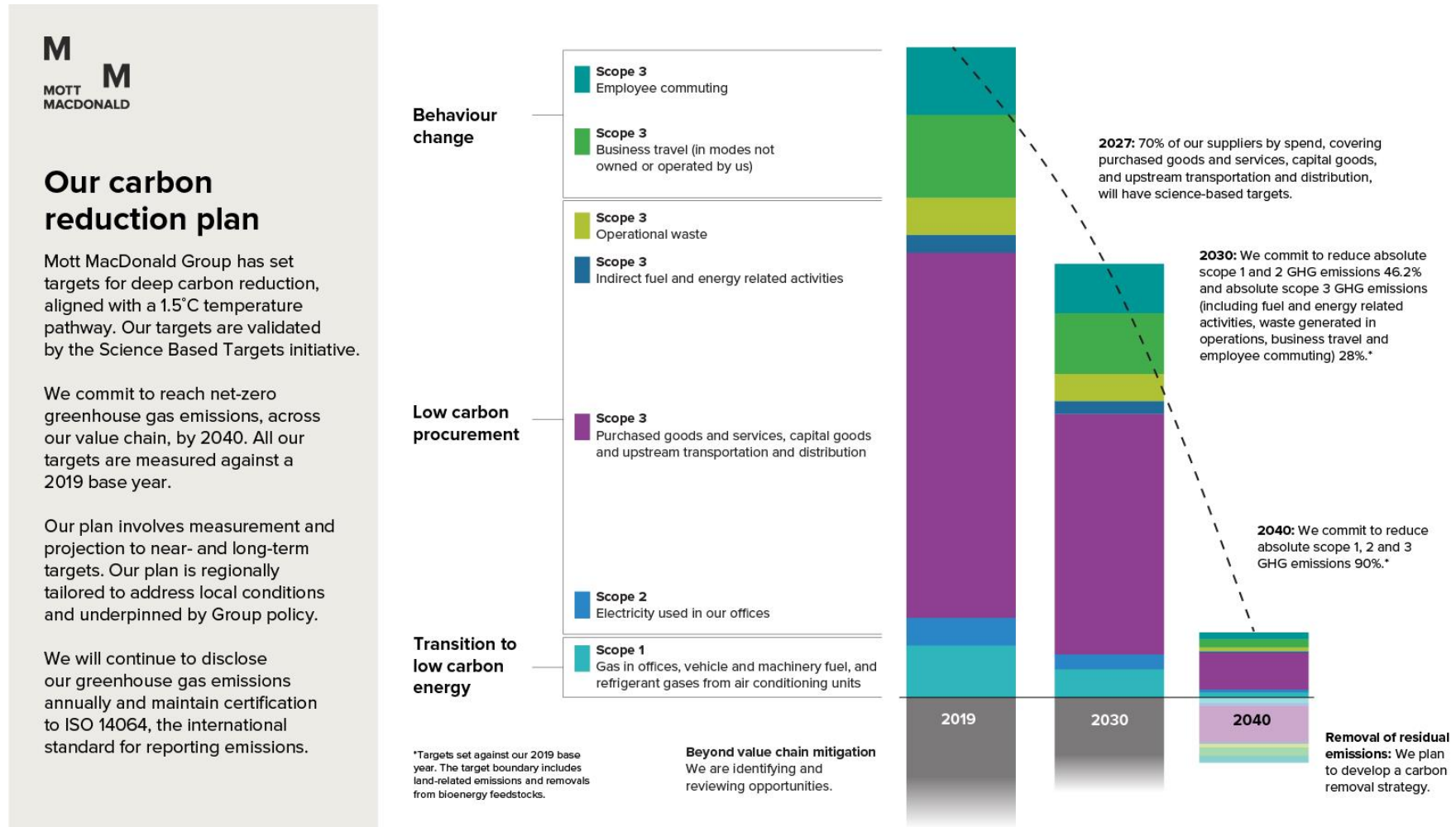
Target timeframe	Target	Progress to date 2022 reporting year	Further information
<b>Long-term</b>	Mott MacDonald Group Limited commits to reduce absolute scope 1, 2 and 3 GHG emissions 90% by 2040 from a 2019 base year*.	Scope 1&2: 35% reduction Scope 3: 19% reduction	Combined 20% reduction since the 2019 base year.
<b>Near-term</b>	Mott MacDonald Group Limited commits to reduce absolute scope 1 and 2 GHG emissions 46.2% by 2030 from a 2019 base year*.  Mott MacDonald Group Limited also commits to reduce absolute scope 3 GHG emissions from fuel and energy related activities, waste generated in operations, business travel, and employee commuting 28% within the same timeframe.	35% reduction  42% reduction	Combined 41% reduction since the 2019 base year.

\*The target boundary includes land-related emissions and removals from bioenergy feedstocks

## Carbon reduction projects

### Future carbon reduction initiatives

We have developed a Group carbon reduction plan to set out how we will deliver our carbon reduction commitments. The actions within our plan are summarised within the following infographic, and further detail is provided in the paragraphs below.



**Transition to low carbon energy:** We will continue to procure renewable energy for our offices, driven by our regional targets to achieve 100% renewable electricity and drive energy efficiency. We will also continue to work with our contracting business to explore the potential of using lower carbon fuels (such as HVO) to power plant equipment on sites. Our contracting business is also generating energy efficiency improvements through switching to higher energy performance rated site cabins (e.g. A/B Energy Performance Certificate (EPC) ratings).

**Low carbon procurement:** A key element of delivering on our near-term science-based target is to engage more closely with our suppliers on carbon reduction. Given the scale of our purchased goods and services emissions, this will also become increasingly important as we move towards reducing our emissions in line with our long-term carbon reduction target.

**Travel policy and behaviours:** Our science-based targets require deep carbon abatement at pace. A step change in behaviour is required to manage our demand for business travel and commuting. Therefore, we are investigating and implementing initiatives, policies and/or directives to facilitate lower carbon travel across the company.

**PAS 2080:** Mott MacDonald has been certified to PAS 2080 as a designer (the international specification for carbon management in buildings and infrastructure) since 2017. We have set up a working group within our contracting business, JNB, to pave the way towards also becoming a PAS 2080 certified constructor. Embedding and following the principles of PAS 2080 in decision making is a key element of the net-zero plan for our contracting business.

## Completed carbon reduction initiatives

The following environmental management measures and projects have been completed or implemented since the 2019 baseline and the measures will be in effect when performing the contract.

- **Data optimisation:** In 2023 we developed an in-house solution to optimise our data collection and calculation processes. The digital solution has enabled quarterly calculation of our carbon footprint, in turn allowing us to monitor emissions more regularly. More regular emissions tracking will help inform the actions and decisions required to reduce carbon emissions in line with our target trajectory.
- **Climate change policy:** In 2023 we published our first climate change policy. This policy replaces our position papers on net-zero greenhouse gas (GHG) emissions and resilience to the physical impact of climate change, demonstrating how we are moving from ambition to action on climate change mitigation and resilience. The policy includes our commitment to the reduction of our emissions, building resilience to the physical impacts of climate change, and managing and disclosing our climate-related risks.
- **Carbon reduction targets:** In 2023 we updated our near-term targets and validated our long-term net-zero target in line with the Science Based Targets initiative (SBTi) Net-Zero Standard.
- **Carbon reduction plans:** In 2023, we developed tailored internal carbon reduction plans for each of our business regions.
- **Certifications:** We obtain the following certifications:
  - Our Environmental Management System is designed in accordance with ISO 14001: Environmental Management. A sub-set of our global offices hold certification to the specification.
  - ISO 14064: Greenhouse Gases
  - PAS 2080: Carbon Management in Buildings and Infrastructure

## Declaration and sign off

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>7</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>8</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>9</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:



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Denise Bower  
Group External Engagement Director

Date: 20th August 2024  
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<sup>7</sup> <https://ghgprotocol.org/corporate-standard>

<sup>8</sup> <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

<sup>9</sup> <https://ghgprotocol.org/standards/scope-3-standard>