



Carbon Reduction Plan

Mott MacDonald



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: May 2023 (minor update August 2023)

Commitment to achieving net-zero

Mott MacDonald Group Limited is committed to achieving net-zero emissions by 2040 and our 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 the baseline emissions for Mott MacDonald in 2019 and Table 2 provides emissions for Mott MacDonald in 2022. Both tables provide total emissions for Mott MacDonald Group in the first column as well as a 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 the market-based¹ method with figures reported below.

Table 1: Baseline year emissions (2019)

Emissions Category	Emissions Source	Total Mott MacDonald Group Limited ² (tCO ₂ e)	Mott MacDonald Limited ³ (tCO ₂ e)	JN Bentley ⁴ (tCO ₂ e)
Total carbon footprint (market-based)		281,779	53,240	147,919
Scope 1	Natural gas	1,057	933	22
	Refrigerant gases	603	193	-
	Fuel for business owned vehicles	2,521	-	2,521
	Fuel for plant on site	9,766	-	9,766
Scope 2	Purchased electricity (market-based)	7,389	2,367	4
	Purchased electricity (location-based)	7,173	2,911	213
Scope 3	Category 1 – Purchased goods and services	199,446	37,334	125,281
	Category 2 – Capital goods	5,879	-	5,879
	Category 3 – Fuel and energy related activities	4,807	809	2,890
	Category 4 – Upstream transportation and distribution	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.		
	Category 5 – Waste generated in operations	9,940	4,956	119
	Category 6 – Business travel	22,293	2,164	N/A
	Category 7 – Employee commuting	18,078	4,485	1,437
	Category 9 – Downstream transportation and distribution	This category is not relevant to our business.		
Outside of scopes	Biogenic emissions ⁵	-	-	-

¹ The market-based method calculates emissions from the electricity providers that we have selected rather than using a grid average emissions factor.

² Mott MacDonald Group Limited is our global business

³ Mott MacDonald Limited is our consulting business in the UK

⁴ JN Bentley is our contracting business in the UK

⁵ E.g., from the use of Hydrotreated Vegetable Oil (HVO) in plant equipment used on site

Current emissions reporting

Table 2: Current year emissions (2022)

Emissions Category	Emissions Source	Mott MacDonald Group Limited (tCO ₂ e)	Mott MacDonald Limited (tCO ₂ e)	JN Bentley (tCO ₂ e)
Total carbon footprint (market-based)		184,449	19,446	105,949
Scope 1	Natural gas	892	472	27
	Refrigerant gases	1,050	170	-
	Fuel for business owned vehicles	1,881	-	1,881
	Fuel for plant on site	3,996	-	3,996
Scope 2	Purchased electricity (market-based)	3,465	108	-
	Purchased electricity (location-based)	4,630	1,048	108
Scope 3	Category 1 – Purchased goods and services	136,281	13,060	88,877
	Category 2 – Capital goods	6,354	-	6,354
	Category 3 – Fuel and energy related activities	3,693	504	2,039
	Category 4 – Upstream transportation and distribution	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.		
	Category 5 – Waste generated in operations	1,474	747	67
	Category 6 – Business travel	15,131	1,585	2,036
	Category 7 – Employee commuting	10,232	2,799	673
	Category 9 – Downstream transportation and distribution	This category is not relevant to our business.		
<i>Outside of scopes</i>	<i>Biogenic emissions</i>	<i>4,729</i>	<i>83</i>	<i>4,645</i>

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.

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 purple lines show our actual emissions in the three 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 all our near and long-term targets is detailed within Table 3. More detail can be found here: [Climate change - Mott MacDonald](#).

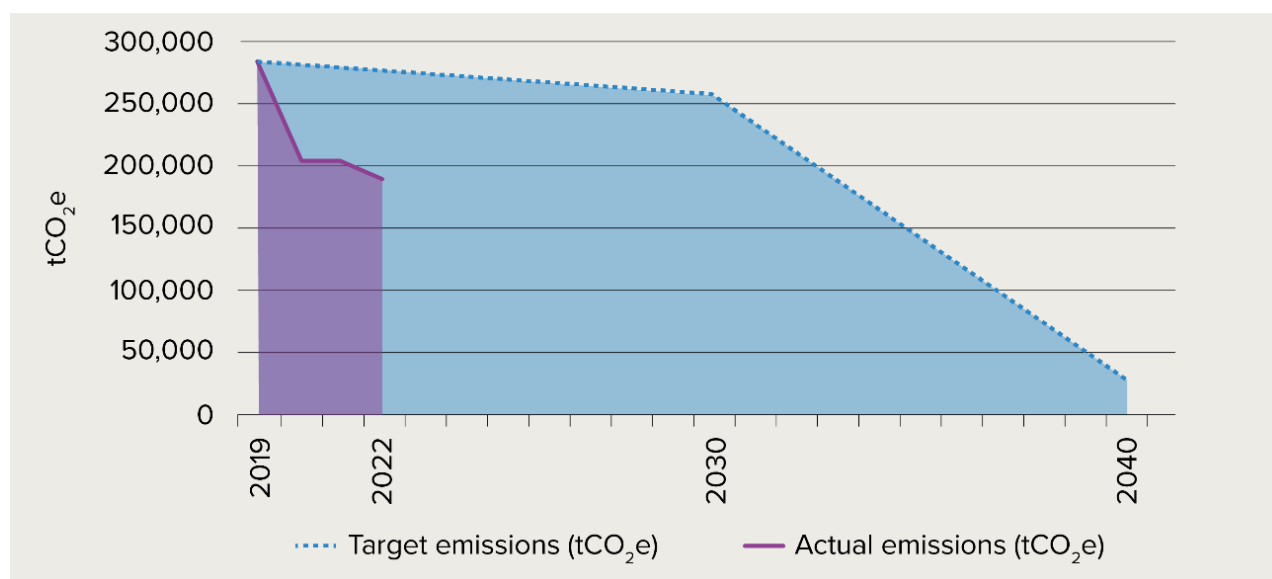


Figure 1: Projected vs actual emissions

Mott MacDonald achieved a total 33% reduction in our global carbon emissions in 2022 compared to a 2019 baseline (this equates to a reduction of 92,602 tCO₂e)⁶. Whilst this reduction in emissions is supported by the actions we have taken as part of our Group carbon reduction plan (for example, switching to lower carbon sources of energy has been a key action area in this timeframe), our carbon footprint has also been significantly impacted by changes to business-as-usual following the global Covid-19 pandemic. Despite beginning a recovery to normal business operations, we remain well below our target trajectory.

Table 3: Progress against science-based targets

Target timeframe	Target	Progress to date 2022 reporting year	Further information
Long-term	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: 25% reduction Scope 3: 34% reduction	Combined 33% reduction since the 2019 base year. See graph below for year-on-year progress.
Near-term	Mott MacDonald Group Limited commits to reduce absolute scope 1 and 2 GHG emissions 46.2% by 2030 from a 2019 base year*.	25% reduction	Combined 39% reduction since the 2019 base year. See graph below for year-on-year progress.
	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.	45% reduction	
	Mott MacDonald Group Limited also commits that 70% of its suppliers by spend covering purchased goods and services, capital goods, and upstream transportation and distribution will have science-based targets by 2027.	12% of suppliers by spend have science-based targets	N/A

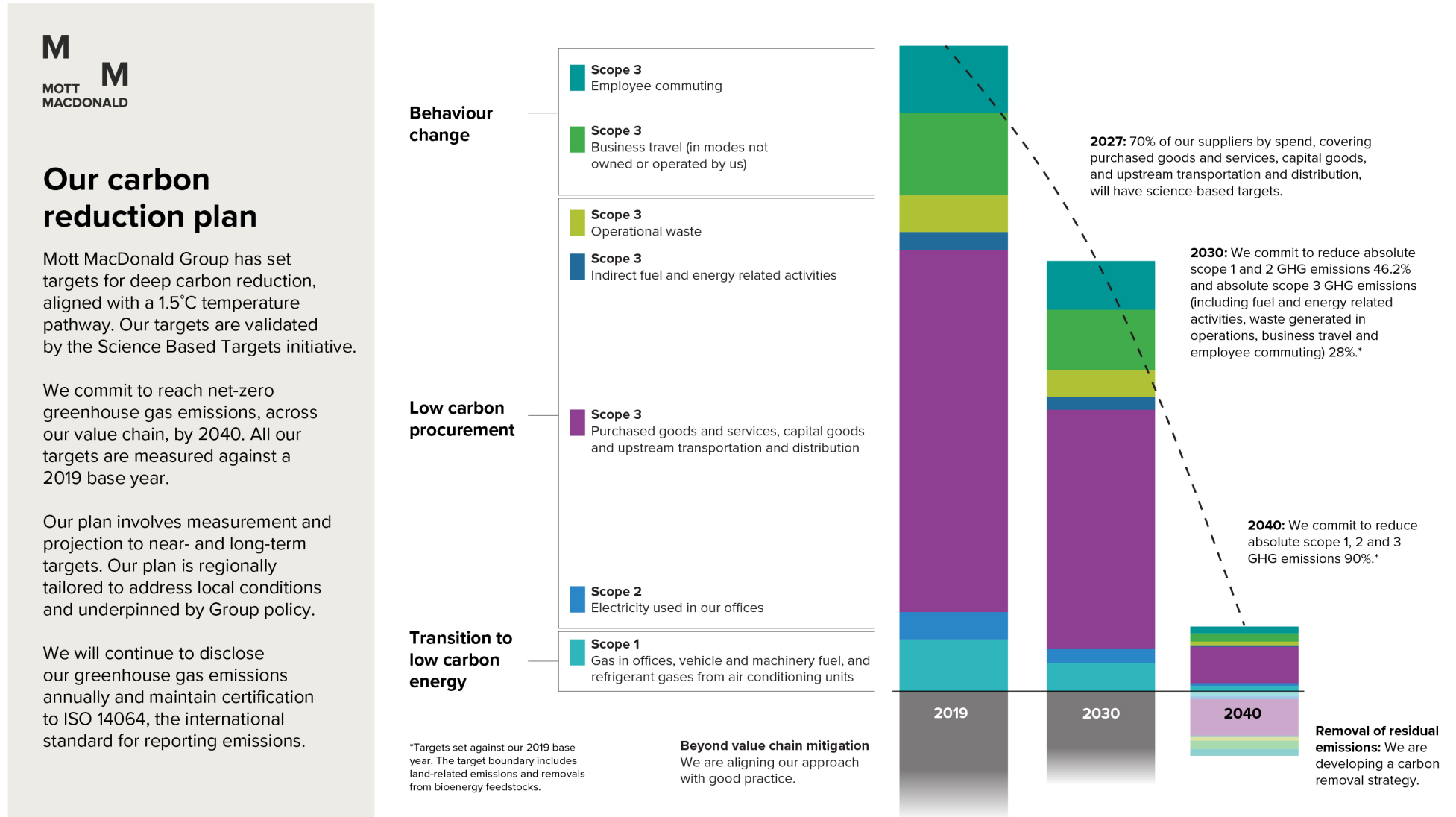
*The target boundary includes land-related emissions and removals from bioenergy feedstocks

⁶ Including 'outside of scopes' emissions from bioenergy

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 where possible and drive energy efficiency, working with our regional carbon reduction leads and our global property management teams. We will also continue to work with our contracting business to explore the potential of maintaining and/or increasing the use of lower carbon fuels (such as HVO) to power plant equipment on sites.

Low carbon procurement

A key element of delivering on our near-term science-based target will be 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.

Behaviour change

Our science-based targets require deep carbon abatement at pace. A step change in behaviour is required to manage our demand for carbon-intensive activities such as business travel and commuting. Therefore, we will look to support the implementation of initiatives, policies and/or directives to facilitate behaviour change across the company.

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.

- Updated or near-term targets and validated our long-term net-zero target in line with the Science Based Targets initiative (SBTi) Net-Zero Standard
- Continued to reduce our carbon emissions in line with our science-based targets
- Certified ISO 14001: Environmental Management
- Certified ISO 14064: Greenhouse Gases – Part 3
- Certified PAS 2080: Carbon Management in Infrastructure
- Signed up to United Nation's Race to Zero: Business Ambition for 1.5°C
- Signed up to Built Environment (including Engineers) Declare Climate and Biodiversity Emergency
- Signed up to Advancing Net-Zero with the World Green Buildings Council
- Signed up to Pledge to Net-Zero
- Joined Clean Skies for Tomorrow Coalition
- Support given to Part Z: A proposed amendments to UK Building Regulations 2010
- Each Office Manager must prepare and annually update an Environmental Impact Assessment and a Local Environmental Practice Plan (LEPP), which sets local objectives and targets for the reduction of resource use and waste management in the office.
- We are committed to removing avoidable single-use plastics from our business where there are viable and sustainable market alternatives
- Started to replace the use of diesel with low carbon hydrotreated vegetable oil (HVO) on JN Bentley construction sites.
- Became a member of the World Economic Forum Alliance of CEO Climate Leaders

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 standard⁷ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting⁸

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) Standard⁹

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:



Date: 18/05/2023

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Mott MacDonald

⁷ <https://ghgprotocol.org/corporate-standard>

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

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