

# Carbon Reduction Plan

**Supplier Name: 3M**

**Publication Date: February 2024**

## Commitment to achieving Net Zero

3M is committed to achieving carbon neutrality by 2050.

To achieve carbon neutrality by 2050, 3M aims to reduce Scope 1 and Scope 2 market-based GHG emissions by at least 50% by 2030, 80% by 2040 and achieve carbon neutrality in its operations by 2050. Our goal is in alignment with the IPCC 1.5°C pathways. In pursuit of this goal, we've reduced Scope 1 GHG emissions by 40.2% and achieved a 37.8% reduction in absolute Scope 1 and 2 market-based GHG emissions since 2019. In addition, 3M does report on Scope 3 subset categories (4,5,6, 7 and 9) as outlined by the NHS Supply Chain CRP. 3M uses The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition), ISO 14064-2 for collecting data and emissions calculations.

In the fourth quarter of 2023, 3M committed to near-term reduction targets for scopes 1, 2, and 3 greenhouse gas emissions. We look forward to progressing through the **Science Based Targets initiative** (SBTi) validation process in 2024. In addition, we'll release a transition plan by the end of 2025 with updated scenario analysis based on the best available science. This plan will set forth our strategy for building resilience and transitioning to a sustainable economy, including around carbon reduction.

### Working towards Net Zero

3M has been developing our Scope 3 GHG emission inventory since the World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) published the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard in September 2011. Before its release, 3M participated in the pilot of the standard, which includes requirements for calculating GHG emissions for 15 separate categories of emission sources, both upstream and downstream of our operations.

According to the GHG Protocol Scope 3 Calculation Guidance, a company that produces intermediate products with many potential downstream applications — each with a potentially different GHG emission profile — cannot reasonably estimate the downstream emissions associated with the various end uses of these products. The methodology does not exist to calculate full Scope 3 emissions for a company as complex as 3M, with 55,000-plus heavily diversified products across a variety of industries and potential end-use cases.

In the belief that every problem has a solution, we've embarked on a process to calculate these downstream Scope 3 GHG emissions. With decision-making based on science, in 2019 we developed methodologies to calculate our emissions for Scope 3 Categories 9–12.

As a science-based company, 3M makes the greatest impact by leveraging science, technology, and collaboration to deliver reduced emissions for our operations and customers. We've assessed our current footprint, facility pathways, product portfolio, and key levers and technological advances. With this extensive work, we've identified the "math with a path" for key sustainability goals and are actively managing them to achieve their respective milestones. Only limited gaps remain. To close them, we're focusing on emerging technologies and collaborative solutions, as well as product and portfolio improvements, rather than carbon offsets. 3M states in the 2023 CDP Climate change response. [www.cdp.net](http://www.cdp.net) that 3M did not originate or purchase any project-based carbon credits within the reporting period.

## Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions.

Baseline emissions are the reference point against which emissions reduction can be measured.

<b>Supplier Name: 3M</b>	
<b>Baseline Year: 2019</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
<p>Since 2002, the 3M Environmental, Health, and Safety (EHS) Laboratory has calculated 3M's greenhouse gas (GHG) inventory in accordance with the World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) GHG Protocol Corporate Accounting and Reporting Standard. 3M's actions to reduce our GHG emissions began in 2000. In 2015, 3M set a goal to assure GHG emissions are at least 50% below our 2002 baseline by 2025. Then, in 2021 3M made a new commitment aiming for 100% carbon neutrality in our operations by 2050: Reduce Scope 1 and 2 market-based GHG emissions from our 2019 baseline by at least 50% by 2030, 80% by 2040, and be 100% carbon neutral in our operations by 2050. 3M has been developing our Scope 3 GHG emissions inventory since the WRI and the WBCSD published the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard in September 2011. According to the GHG Protocol Scope 3 Calculation Guidance, a company that produces intermediate products with many potential downstream applications, each with a potentially different GHG emission profile, cannot reasonably estimate the downstream emissions associated with the various end uses of these products. 3M does not currently have a Scope 3 goal or baseline. The Scope 3 emissions for 2019 are 8,920,000 and include categories 1-8. The Scope 3 emissions for 2022 are 11,600,000 metric tons (CO<sub>2</sub>e) and include upstream and downstream emissions.</p>	
<b>Baseline year emissions: 2019</b>	
<b>EMISSIONS</b>	<b>TOTAL (Metric tons CO<sub>2</sub>e)</b>
<b>Scope 1</b>	4,050,000
<b>Scope 2</b>	1,320,000
<b>Scope 3 (Included Sources)</b>	N/A no baseline set for Scope 3 emissions

<b>Total Emissions</b>	<b>5,370,000</b>
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### Current Emissions Reporting

<b>Supplier Name: 3M</b>	
<b>Reporting Year: 2022</b>	
<b>EMISSIONS</b>	<b>TOTAL (Metric tons CO2e)</b>
<b>Scope 1</b>	2,420,000
<b>Scope 2</b>	925,000
<b>Total Scope 1 and 2 Emissions</b>	<b>3,350,000</b>
<b>Scope 3 (Included Sources)</b>	
<b>Scope 3, Category 1</b>	7,810,000
<b>Scope 3, Category 2</b>	474,000
<b>Scope 3, Category 3</b>	439,000
<b>Scope 3, Category 4</b>	1,490,000
<b>Scope 3, Category 5</b>	199,000
<b>Scope 3, Category 6</b>	31,500
<b>Scope 3, Category 7</b>	261,000
<b>Scope 3, Category 8</b>	N/A included in Scope 1 and 2, because they are under 3M operational control
<b>Scope 3, Category 9</b>	936,000
<b>Scope 3, Category 13</b>	<1,000
<b>Total Scope 3 Emissions</b>	<b>11,600,000 (including biogenic sources)</b>

## **Emissions Reduction Targets**

3M is committed to reducing Scope 1 and 2 market-based GHG emissions from our 2019 baseline by at least 50% by 2030, 80% by 2040, and be 100% carbon neutral in our operations by 2050.

Currently 3M reduces GHG emissions through methods such as improving the efficiency of manufacturing processes and equipment, upgrading technologies, reducing energy demand, increasing use of renewable electricity, managing our product portfolio, and implementing and maintaining emission control technologies. As of 2022, 3M improved energy efficiency, indexed to net sales, by 13.1% toward a goal of 30% by 2025 (2015 baseline year).

3M has reduced Scope 1 GHG emissions by 85.6% since 2002, providing a direct and immediate reduction of our carbon emissions. During this same time frame, we achieved a 78.8% reduction in absolute Scope 1 and 2 location-based GHG emissions. Since 2019, we've reduced Scope 1 GHG emissions by 40.2% and achieved a 37.8% reduction in absolute Scope 1 and 2 market-based GHG emissions.

In 2019, we achieved our 2025 goal by surpassing 25% renewable electricity. As part of our strategic focus on empowering Science for Climate (see p8), we increased our interim target from 25% to 50% renewable electricity by 2025, toward our ultimate goal of 100% renewable electricity globally by 2050. At the end of 2022, 3M achieved its 2025 renewable energy goal, reaching 51.9% renewable electricity use across at its global sites.

3M is a partner of the U.S. Department of Energy (DOE) Better Plants®, part of the DOE's Better Buildings Initiative designed to drive leadership in energy innovation and is a Better Plants Challenge Energy and Water Goal Achiever. In 2021, and again in 2022, 3M has participated in the Better Buildings Low Carbon Pilot to participate with other industry leaders to demonstrate real world pathways in achieving low carbon plants and pledged to be part of the DOE's Better Climate Challenge to reduce portfolio-wide GHG emissions (scope 1 and 2) by at least 50% within 10 years.

Since 2021, 3M has participated with more than 20 other global companies in investing in TPG Rise Climate, a multi-billion dollar climate impact investing fund that deploys mission-driven capital at scale. TPG Rise Climate is focusing investments on clean energy, enabling solutions, decarbonized transport, greening industrials, and agricultural and natural solutions.

## **Supply Chain and Customer Impact**

3M understands that our sustainability impacts extend beyond our own operations. We participate in a global, complex supply chain, purchasing raw materials and services from small and large companies all over the world. Each step in our supply chain is an opportunity to gain alignment with our Promise to improve lives by helping solve the world's greatest challenges.

We expect our suppliers to be transparent about their environmental and social practices, provide ideas for improvement, and work with us to transform our shared value chain. 3M's Supplier Responsibility Code outlines 3M's foundational social and environmental expectations of suppliers: <http://multimedia.3m.com/mws/media/1204567O/3m-supplier-responsibility-code-eng.pdf>.

For over 120 years, we have been dedicated to science and exploration, taking on global challenges and developing solutions for our customers. As a company, we are guided by our Purpose, Promise, and Principles in the pursuit of creating unique and differentiated value for customers, shareholders, and our stakeholders.

All of our businesses are connected by our fundamental strengths — technology, manufacturing, global capabilities, and brand — which allow us to invent, manufacture, and sell products across

our vast global network. Our goal to help customers reduce their GHG emissions and our results are described on pages 109-113 of our Global Impact Report. Examples of our customer-inspired innovation include- 3M™ Micropore™ S surgical tape, designed to deliver reliable initial and long-term (48 hours) adhesion to skin, gauze and medical-grade tubing with a solvent-less adhesive. 3M™ Tegaderm™ Dressings with 30% reduction in packaging and 100% recyclable and 3M™ Bair Hugger™ Temperature Management System transportation, packaging changes that have resulted in a reduction of 495 tons of CO<sub>2</sub> equivalent as measured through LCA (Life Cycle Assessment, software). This is equivalent to the annual carbon footprint of ca 90 people in the UK<sup>1</sup>

We have established key sustainability metrics to measure and manage climate risk that go beyond compliance to thinking holistically about our operations and products. We report on historical periods to allow for trend analysis with a clear description of the methodologies we use to calculate or estimate limitations and assumptions.

<sup>1</sup>Ourworldindata.org calculates the average carbon footprint per person in the UK is 5.5 tonnes of CO<sub>2</sub> equivalent per person.

## Carbon Reduction Projects

As of 2022, 3M improved energy efficiency, indexed to net sales, by 13.1% toward a goal of 30% by 2025 (2015 baseline year). See Figs 1-3 with 2022 actual numbers added beneath each chart. Goals include continuously improving results, leveraging engineering expertise and advances, driving site-level efficiency improvements, maintaining top management support, and protecting 3M's reputation. In 2022, we continued to follow our updated 3M Corporate Energy Policy — which includes our commitment to renewable energy — by leveraging our internal engineering manual: Energy Design Requirements and Guidelines. This manual helps us apply lessons across our global operations to maximize energy efficiency in capital project designs.

In 2019, we achieved our 2025 goal by surpassing 25% renewable electricity. As part of our strategic focus on empowering Science for Climate, we increased our interim target from 25% to 50% renewable electricity by 2025, toward our ultimate goal of 100% renewable electricity globally by 2050. As of the end of 2022, we have 62 sites that are powered by 100% renewable electricity, comprising 51.9% of our electricity use.

3M is a member of RE100, a global renewable energy leadership initiative led by The Climate Group in partnership with CDP (formerly the Carbon Disclosure Project). 3M is one of more than 20 global companies investing in the TPG Rise Climate Fund, a multibillion-dollar climate impact investing fund that deploys mission-driven capital at scale.

All sites actively seek alternative energy sources including active combined heat and power, solar, wind and other projects like utilized steam.

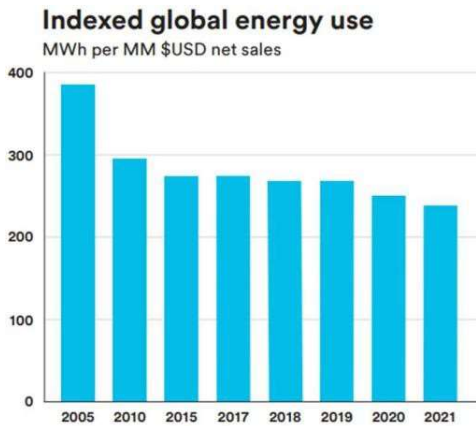


Fig: 1 Indexed global energy use (2021).  
2022 value 239 MWh per MM \$USD net sales

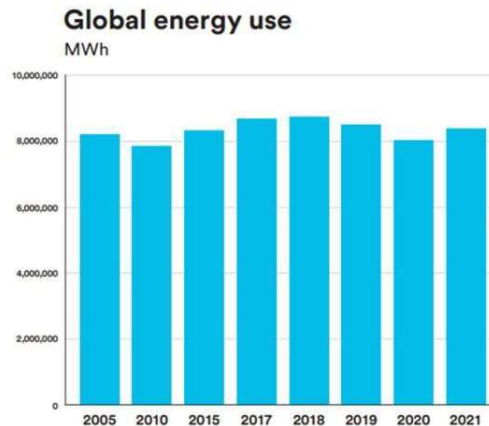


Fig: 2 Global energy use (2021).  
2022 value 8,190,000 MWh

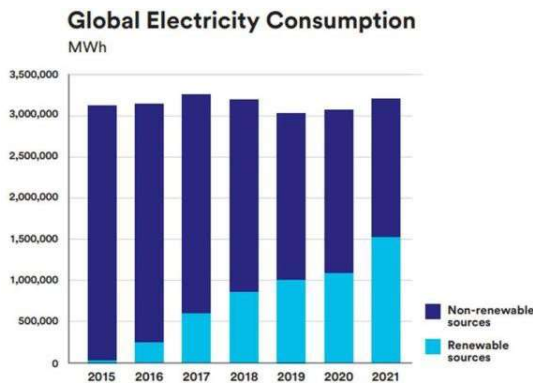


Fig: 3 Global Electricity Consumption (2021)  
2022 value 3,100,000 MWh.  
This is broken down by Nonrenewable sources 1,490,000 MWh and Renewable sources 1,610,000 MWh.

### Direct (Scope 1) and indirect (Scope 2) greenhouse gas emissions

3M has reduced Scope 1 GHG emissions by 85.6% since 2002, providing a direct and immediate reduction of our carbon emissions. During this same time frame, we achieved a 78.8% reduction in absolute Scope 1 and 2 location-based GHG emissions. Since 2019, we've reduced Scope 1 GHG emissions by 40.2% and achieved a 37.8% reduction in absolute Scope 1 and 2 market-based GHG emissions. See fig. 4 for 'path with the math' on scope 1 and 2 emissions.

Since 2002, the 3M Environmental, Health, and Safety (EHS) Laboratory has calculated 3M's GHG inventory in accordance with the World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) GHG Protocol Corporate Accounting and Reporting Standard. The 3M EHS Laboratory maintains an accreditation to ANSI/ ISO/IEC 17025 through A2LA — a signatory to the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA).

## Scope 1 and 2 total (metric tons CO<sub>2</sub>e)

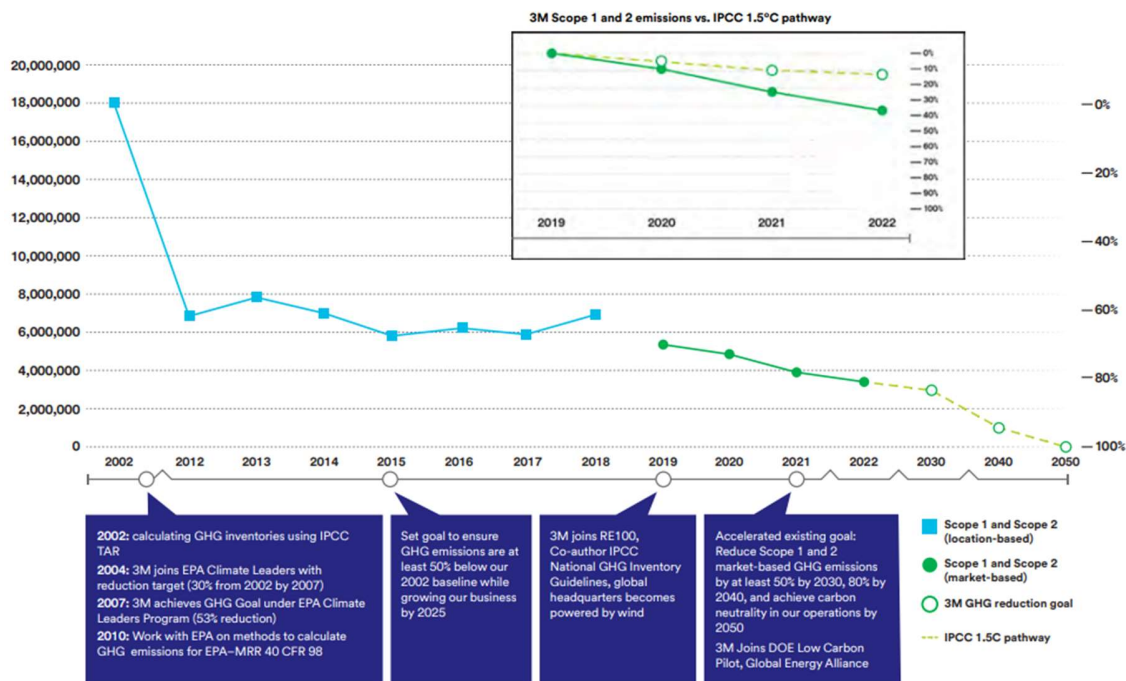


Fig 4 Path with the Math for Scope 1 and Scope 2 emissions.

Every year, 3M calculates our GHG inventory according to approved internal procedures that are updated as needed to correspond with current calculation methodologies. However, whenever a methodology change is implemented, 3M will, wherever possible, recalculate the prior year's GHG inventories to assure that past and current-year GHG inventories are comparable. Where this is not possible, 3M will either call this out or assure that the difference is not material. These quality system elements and procedures, coupled with a robust internal and third-party review of our emissions, help 3M's GHG inventory to be aligned with the core principles of relevance, completeness, consistency, accuracy, and transparency. GHG emission reductions are achieved through a variety of methods: improving process and equipment efficiency, upgrading equipment, reducing our demand for energy use, increasing our use of renewable electricity, and implementing and maintaining emission control technologies. These methods, and more, are integral to the company's overall success and assist us with the challenge of helping to address global climate change concerns.

The impacts of global climate change on our planet and its people have never been clearer. Extreme weather events, rising sea levels, urban heat islands, elevated pollution levels, poor air quality, and scarce resources have underscored how urgently corporations must act to try to slow these harmful effects to both our natural and built ecosystems. Our Strategic Sustainability Framework directs our efforts to areas where 3M can make the biggest impact. Within the Science for Climate pillar of this framework, we will continue to focus on innovating to decarbonize industry, accelerating global climate solutions, and improving our environmental footprint. We'll continue to drive ambitious climate solutions in our operations, in our products, and in communities around the world. In our operations, as we look to achieve our long-term goal of achieving carbon neutrality by 2050, we will continue to evaluate how we can apply our science in the near future to stay on track.

Similarly, as we approach our goal of using 100% renewable electricity at all global sites, we will also evaluate what other ways we can expand our renewable energy to maintain our

progress. We will explore options for reducing our dependence on natural gas to help further reduce our CO<sub>2</sub> emissions, continue to update our standards, and evaluate tracking systems that will improve our capabilities for monitoring progress toward our goals. For our customers, we will develop and launch products to help them reach their sustainability goals by improving energy efficiency, increasing renewable electricity, and reducing emissions in alignment with our goal to help them reduce their GHGs by 250 million tons of CO<sub>2</sub> equivalent emissions through our products by 2025.

### 3M Sustainability Framework

3M is committed to innovate to decarbonize industry, accelerate climate solutions and improve our environmental footprint. This commitment is part of the Science for Climate pillar of our Strategic Sustainability Framework. In our communities, we will continue to collaborate with key stakeholders and groups that we determine can help us maximize the effectiveness of our efforts and help drive climate solutions globally to help improve every life. The 3M Strategic Sustainability Framework:

#### Science for Circular

Design solutions that do more with less material, advancing a global circular economy.

#### Science for Climate

Innovate to decarbonize industry, accelerate global climate solutions and improve our environmental footprint.

#### Science for Community

Create a more positive world through science and inspire people to join us.

For more information: [2023 Global Impact Report](#)

### 3M Healthcare spin-off from 3M first half 2024.

In July 2022, 3M announced its intent to spin off its Health Care business, resulting in two world-class public companies well positioned to pursue their respective growth plans. The new company will be a leading global diversified healthcare technology company focused on wound care, healthcare IT, oral care, and biopharma filtration. We would like to confirm that following the Healthcare Spinoff all products supplied will continue to meet all applicable environmental and ethical requirements. The new Health Care company, Solventum, is committed to maintaining the highest standards of ethics and compliance in our business practices, including compliance with all applicable laws and regulations.

### Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with the U.K. PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plan. Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol Corporate Reporting and Accounting Standard 13 and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and Scope 2 emissions have been reported in accordance with the Streamlined Energy and Carbon Report (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 GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard.

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:

A handwritten signature in black ink, appearing to read "M. O. Stinson". The signature is written in a cursive style with a large initial "M".

Date: 27/02/2024