

C0. Introduction

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C0.1

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**(C0.1) Give a general description and introduction to your organization.**

Amgen is committed to unlocking the potential of biology for patients suffering from serious illnesses by discovering, developing, manufacturing and delivering innovative human therapeutics. This approach begins by using tools like advanced human genetics to unravel the complexities of disease and understand the fundamentals of human biology. Our belief—and the core of our strategy—is that innovative, highly differentiated medicines that provide large clinical benefits in addressing serious diseases are medicines that will not only help patients, but also will help reduce the social and economic burden of disease in society today. Our strategy includes integrated activities intended to strengthen our competitive position in the industry.

Amgen focuses on areas of high unmet medical need and leverages its expertise to strive for solutions that improve health outcomes and dramatically improve people’s lives. A biotechnology pioneer, Amgen has grown to be one of the world’s leading independent biotechnology companies, has reached millions of patients around the world, and is developing a pipeline of medicines with breakaway potential.

As a Company committed to advancing human health, we recognize our responsibility to patients, employees, communities and shareholders to do our part to positively impact the health of our planet. We recognize the connection between environmental stresses and health and the impact climate change could have on our core business. Amgen has a longstanding objective to conduct its operations in an environmentally responsible manner, and we regularly set targets to challenge ourselves to improve. We have successfully advanced our environmental sustainability program since 2007, significantly reducing our environmental impact: a 33% reduction in carbon emissions, a 30% reduction in our water use and a 28% reduction in waste generated in the period from 2007 to 2020 – while increasing our global production capacity. In 2020, Amgen embarked on its latest environmental sustainability program. 2022 marked the third year of this program, whereby, by 2027, we are working to:

- Achieve carbon neutrality for Amgen-owned and operated facilities and operations.
- Reduce water consumption by 40% from a 2019 baseline.
- Reduce waste disposed by 75% from a 2019 baseline.

For more information, visit [www.amgen.com](http://www.amgen.com) and follow us on [www.twitter.com/amgen/](https://www.twitter.com/amgen/).

Note: Carbon neutrality goal refers to Scope 1 and 2 emissions. Reductions take into account only verified reduction projections, and do not take into account changes associated with the contraction or expansion of the Company and are measured against a 2019 baseline.

C0.2

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**(C0.2) State the start and end date of the year for which you are reporting data and indicate whether you will be providing emissions data for past reporting years.**

**Reporting year**

**Start date**

January 1 2022

**End date**

December 31 2022

**Indicate if you are providing emissions data for past reporting years**

Yes

**Select the number of past reporting years you will be providing Scope 1 emissions data for**

3 years

**Select the number of past reporting years you will be providing Scope 2 emissions data for**

3 years

**Select the number of past reporting years you will be providing Scope 3 emissions data for**

3 years

### C0.3

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**(C0.3) Select the countries/areas in which you operate.**

Algeria  
Argentina  
Australia  
Austria  
Belgium  
Brazil  
Bulgaria  
Canada  
China  
Colombia  
Croatia  
Czechia  
Denmark  
Egypt  
Finland  
France  
Germany  
Greece  
Hungary  
Iceland  
India  
Ireland  
Israel  
Italy  
Japan  
Jordan  
Lebanon  
Lithuania  
Malaysia  
Mexico  
Morocco  
Netherlands  
Norway  
Philippines  
Poland  
Portugal  
Puerto Rico  
Republic of Korea  
Romania  
Russian Federation  
Saudi Arabia  
Singapore  
Slovakia  
Slovenia  
South Africa  
Spain  
Sweden  
Switzerland  
Taiwan, China  
Thailand  
Turkey  
United Arab Emirates  
United Kingdom of Great Britain and Northern Ireland  
United States of America

### C0.4

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**(C0.4) Select the currency used for all financial information disclosed throughout your response.**

USD

### C0.5

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**(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.**

Operational control

### C0.8

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**(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?**

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, a Ticker symbol	AMGN

**C1. Governance**

**C1.1**

**(C1.1) Is there board-level oversight of climate-related issues within your organization?**

Yes

**C1.1a**

**(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.**

Position of individual or committee	Responsibilities for climate-related issues
Director on board	Sustainability and climate-related issues at Amgen are governed at the highest levels. Governance includes Board and Board Committee oversight, executive-level leadership engagement, and subject-matter expert leadership for sustainability and climate efforts across our business.  The Board and its applicable Committees provide guidance and oversight to management with respect to sustainability and climate matters. The Board of Directors (BoD) Corporate Responsibility and Compliance Committee assists the Board in overseeing our activities in areas that include environmental sustainability. The BoD Audit Committee provides oversight of our disclosure controls and procedures, including those that support our ESG reporting metrics.
Chief Executive Officer (CEO)	Climate and environmental sustainability related issues are reviewed with Amgen's Chief Executive Officer (CEO), who also serves as Chair of the Board of Directors, and the CEO's direct reports. The CEO and CEO direct reports monitor progress against goals and targets through our Environmental, Social and Governance (ESG) initiative's governance processes.
Board-level committee	The Corporate Responsibility and Compliance Committee (CRCC) assists the Board with oversight of Amgen's activities in areas that include environmental sustainability, including climate-related issues. Management regularly reports to the CRCC on the Company's sustainability strategies, including on climate and matters related to the Taskforce on Climate-related Financial Disclosures (TCFD) and the Science Based Targets Initiative (SBTi). For example, in 2022, the CRCC reviewed management's approach to certain TCFD-aligned activities, such as facility-specific climate risk assessments and enterprise-wide climate scenario analyses.
Board-level committee	The Compensation and Management Development Committee oversees human capital management, as well as executive talent management, development, and succession planning. This Committee also oversees our compensation policies and practices and incentive program administration and design, including Environmental, Social and Governance (ESG) related goals in our annual incentive plan applicable to all staff members, including all executives.
Board-level committee	The Audit Committee provides oversight of our disclosure processes including those in support of our ESG reporting metrics. Amgen's executive management provides regular updates to the Board and its applicable committees regarding the status and progress of the Company's ESG activities.

**C1.1b**

**(C1.1b) Provide further details on the board's oversight of climate-related issues.**

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Scheduled – some meetings	<p>Reviewing and guiding annual budgets</p> <p>Overseeing major capital expenditures</p> <p>Overseeing acquisitions, mergers, and divestitures</p> <p>Reviewing innovation/R&amp;D priorities</p> <p>Overseeing and guiding employee incentives</p> <p>Reviewing and guiding strategy</p> <p>Overseeing the setting of corporate targets</p> <p>Monitoring progress towards corporate targets</p> <p>Reviewing and guiding the risk management process</p> <p>Other, please specify (Monitoring developments in legal and external landscape)</p>	<Not Applicable>	<p>Amgen has a diverse and independent Board of Directors, elected annually by a majority of our stockholders. The Amgen Board of Directors and its applicable committees oversee Amgen's Environmental, Social and Governance (ESG) strategy.</p> <p>In 2022, the Board of Directors held 9 meetings in 2022 and all of the directors attended at least 75% of the total number of meetings of the Board and committees on which they served. At each regular meeting of the Board, each Committee Chair provides a report summarizing committee meetings to the full Board. In 2022, the Board or its Committees received updates on environmental sustainability milestones achieved, progress against Amgen's 2027 Environmental Sustainability Plan, the integration of sustainability into key business processes, industry benchmarking and trends, ESG governance at the Company, reporting and external communications, and ongoing initiatives, strategy, and risk management.</p>
Scheduled – some meetings	<p>Reviewing and guiding strategy</p> <p>Overseeing and guiding the development of a transition plan</p> <p>Monitoring the implementation of a transition plan</p> <p>Reviewing and guiding the risk management process</p>	<Not Applicable>	<p>The Corporate Responsibility and Compliance Committee (CRCC) oversees non-financial compliance and competition risks, including those associated with sustainability and climate-risk. For example, the CRCC assists the Board with providing oversight and guidance for Amgen's 2027 Sustainability Plan, which identifies the company's sustainability and climate risk priorities.</p> <p>The CRCC meets at least four times per year. In 2022, the CRCC met 5 times where the following topics were discussed: Updates on environmental sustainability milestones achieved, progress against Amgen's 2027 Environmental Sustainability plan, the integration of sustainability into key business processes, industry benchmarking and trends, ESG governance at the Company, reporting and external communications, and ongoing initiatives, strategy, and risk management.</p>
Scheduled – some meetings	<p>Overseeing and guiding employee incentives</p> <p>Monitoring progress towards corporate targets</p>	<Not Applicable>	<p>The Compensation and Management Development Committee oversees human capital management, as well as executive talent management, development, and succession planning. This Committee also oversees Amgen's compensation policies and practices, and incentive program administration and design, including the ESG related goal in our annual incentive plan applicable to all staff members. The Committee meets at least four times per year. In 2022, the Committee met 5 times.</p> <p>In March 2021, the Compensation and Management Development Committee added an ESG goal to our 2021 Company performance goals for our annual cash incentive plan. The environmental portion of the ESG goal required the development of annual auditable conservation targets, governance bodies, teams and processes to oversee activities to deliver on such targets. Building on our 2021 ESG goal, the Compensation and Management Development Committee approved, and the Company successfully executed on, an expanded ESG goal in 2022 to continue to support the timely achievement of our 2027 environmental sustainability targets. In 2022, the annual cash incentive plan ESG goal was weighted at 5% of the total Company performance goals. The Company reported on its 2022 ESG goal outcomes in its 2023 proxy statement.</p>
Scheduled – some meetings	<p>Reviewing and guiding the risk management process</p>	<Not Applicable>	<p>The Audit Committee provides oversight of our disclosure processes including those in support of our ESG reporting metrics. Further, this committee oversees internal controls over financial reporting, internal audits, independent registered public accountants, and recommends the level of financial risk-taking, such as capital risk, tax risk, sourcing risk, and financial compliance risk.</p> <p>The Audit Committee meets at least four times per year. In 2022, the Audit Committee met 10 times.</p>

C1.1d

**(C1.1d) Does your organization have at least one board member with competence on climate-related issues?**

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues	Primary reason for no board-level competence on climate-related issues	Explain why your organization does not have at least one board member with competence on climate-related issues and any plans to address board-level competence in the future
Row 1	Yes	Amgen has Board members with competence on climate-related issues, including through their service on public company boards in other industries (including petroleum, energy, science and technology, transportation, and aerospace industries). Additionally, many of our Board members have been high-level executives at multinational companies and have experience with physical and transitional risks associated with climate change.	<Not Applicable>	<Not Applicable>

**C1.2**

**(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.**

**Position or committee**

Chief Executive Officer (CEO)

**Climate-related responsibilities of this position**

Setting climate-related corporate targets

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Reports to the board directly

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

Climate and environmental sustainability issues are reviewed with Amgen's Chief Executive Officer (CEO) and CEO's direct reports at least on an annual basis. The CEO and CEO direct reports monitor progress against goals and targets, and provide guiding strategy and major plans of action. The CEO and CEO's direct reports are ultimately responsible for assessing and approving Amgen's 2027 Environmental Sustainability Plan strategy, including our target of achieving carbon neutrality in our operations.

**Position or committee**

Corporate responsibility committee

**Climate-related responsibilities of this position**

Monitoring progress against climate-related corporate targets

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Reports to the board directly

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

The Corporate Responsibility and Compliance Committee (CRCC) assists the Board with oversight of Amgen's ESG strategy and activities in areas that include environmental sustainability and other climate-related issues and management reviews these matters with the CRCC at least on an annual basis.

**Position or committee**

Other committee, please specify (Compensation and Management Development Committee )

**Climate-related responsibilities of this position**

Providing climate-related employee incentives

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Reports to the board directly

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

The Compensation and Management Development Committee oversees human capital management, as well as executive talent management, development, and succession planning. This committee also oversees our compensation policies and practices and incentive program administration and design, including the ESG related goal in our annual incentive plan applicable to all staff members. The Committee meets at least four times per year. In 2022, the Committee met 5 times.

In support of the achievement of our 2027 environmental sustainability plan, in March 2021, our Compensation and Management Development Committee added an ESG goal to our 2021 Company performance goals for our annual cash incentive plan. The environmental portion of the goal required the development of annual auditable conservation targets – including carbon targets, governance bodies, teams, and processes to oversee activities to deliver on such targets. Building on our 2021 ESG goal, the Compensation and Management Development Committee approved, and the Company successfully executed on, an expanded ESG goal in 2022 to continue to support the timely achievement of our 2027 environmental sustainability targets. In 2022, the annual cash incentive plan weighted our ESG performance at 5% of the total Company performance goals. The Company reported on its 2022 ESG goal outcomes in its 2023 proxy statement.

**Position or committee**

Other, please specify (Audit Committee )

**Climate-related responsibilities of this position**

Other, please specify (Oversight of Audit review for ESG related reporting and metrics)

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Reports to the board directly

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

The Audit Committee provides oversight of our disclosure processes in support of our ESG reporting metrics.

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**Position or committee**

Other, please specify (Environmental, Social and Governance Council)

**Climate-related responsibilities of this position**

Integrating climate-related issues into the strategy

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Corporate Sustainability/CSR reporting line

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

Topics reviewed by the ESG Council are reviewed with the Board as appropriate through the other reporting channels discussed in this report. Our cross-functional executive-level ESG Council sets and reviews the Company's ESG strategy and programs. The Council is chaired by the Senior Vice President of Corporate Affairs. The Senior Vice President of Corporate Affairs provides routine updates to the Corporate Responsibility and Compliance Committee.

For example, in 2022 the ESG Council reviewed topics including but not limited to: ESG Ratings and Climate-related disclosures, Science Based Target Initiative (SBTI), and Scope 3 Carbon Strategy.

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**Position or committee**

Other, please specify (Initiative Steering Committee (ISC))

**Climate-related responsibilities of this position**

Integrating climate-related issues into the strategy

Monitoring progress against climate-related corporate targets

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Corporate Sustainability/CSR reporting line

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

Topics reviewed by the Healthy Planet Initiative Steering Committee (ISC) are reviewed with the Board as appropriate through the other reporting channels discussed in this report. Amgen's Healthy Planet ISC coordinates the implementation of the strategy for the environmental sustainability pillar of the ESG framework and integrates our environmental sustainability strategy into the Company with the support of subject-matter-expert working teams. The Healthy Planet ISC members identify emerging sustainability and climate-related issues that could impact Amgen's business, employees, communities or stakeholders and, when appropriate, raise them with the ESG Council for discussion and analysis, as needed.

For example, in 2022 the Healthy Planet ISC reviewed topics including but not limited to: Environmental and Responsible Sourcing Goals, Sustainability and Scope 3 Carbon Strategy, Green Financing Framework and Green Bond, Science Based Target Initiative, Electric Vehicle Fleet Forecasting, Task Force for Climate Related Disclosure (TCFD), CDP Reporting, Engagement and Volunteer Strategy, Climate Position Statement.

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**Position or committee**

Other C-Suite Officer, please specify (Executive Vice President, Operations)

**Climate-related responsibilities of this position**

Monitoring progress against climate-related corporate targets

Assessing climate-related risks and opportunities

Managing climate-related risks and opportunities

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

CEO reporting line

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

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**Please explain**

Topics reviewed by the Executive Vice President, Operations are reviewed with the Board as appropriate through the other reporting channels discussed in this report. Amgen’s executive management provides regular updates to the Board and its committees regarding the status and progress of the Company’s ESG activities.

**Position or committee**

Business unit manager

**Climate-related responsibilities of this position**

- Integrating climate-related issues into the strategy
- Monitoring progress against climate-related corporate targets
- Managing value chain engagement on climate-related issues
- Assessing climate-related risks and opportunities
- Managing climate-related risks and opportunities

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Operations - COO reporting line

**Frequency of reporting to the board on climate-related issues via this reporting line**

Annually

**Please explain**

Topics reviewed by the Executive Vice President, Operations are reviewed with the Board as appropriate through the other reporting channels discussed in this report. The Vice President of Engineering is Amgen’s Business Unit Manager and is responsible for climate related opportunities and risks. The Vice President of Engineering is part of Amgen’s management and provides regular updates to the Board and its committees regarding the status and progress of the Company’s ESG activities.

**Position or committee**

Environment/ Sustainability manager

**Climate-related responsibilities of this position**

- Managing annual budgets for climate mitigation activities
- Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
- Integrating climate-related issues into the strategy
- Monitoring progress against climate-related corporate targets
- Managing value chain engagement on climate-related issues
- Assessing climate-related risks and opportunities
- Managing climate-related risks and opportunities

**Coverage of responsibilities**

<Not Applicable>

**Reporting line**

Other, please specify (Reporting to Business Unit Manager and Executive Vice President of Operations)

**Frequency of reporting to the board on climate-related issues via this reporting line**

Not reported to the board

**Please explain**

Topics reviewed by the Environmental Sustainability Manager are reviewed with the Board as appropriate through the other reporting channels discussed in this report. The Executive Director of Engineering manages environmental sustainability matters at Amgen. He provides oversight of the Environmental Sustainability 2027 Plan and progress towards corporate climate-related targets, in addition to managing the integration of climate-related issues into corporate strategy, value chain engagement, and carbon, water and waste operational assessments.

**C1.3**

**(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?**

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	<p>Our sustainability and climate-related activities are integrated into our business pursuits and overseen by our Board. Our 2027 environmental sustainability plan features ambitious targets on carbon emissions, water conservation, and waste reductions. The plan, our third since 2007, includes a goal of achieving carbon neutrality (scopes 1 and 2; see C0.1) for Amgen-owned and operated facilities and operations by 2027.</p> <p>Our Compensation and Management Development Committee approved an expanded ESG goal for our 2022 plan designed, in part, to hold ourselves accountable for our 2027 environmental sustainability goals. The environmental portion of the 2022 ESG goal included timely achievement of specific conservation targets for carbon, water, and waste disposed in 2022, measured as a percentage of our 2027 environmental plan goals, and the establishment of a Company approved strategy for engaging certain key suppliers to improve their Scope 3 carbon emissions.</p>

**C1.3a**

**(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).**

**Entitled to incentive**

Corporate executive team

**Type of incentive**

Monetary reward

**Incentive(s)**

Bonus - % of salary

**Performance indicator(s)**

Progress towards a climate-related target

**Incentive plan(s) this incentive is linked to**

Short-Term Incentive Plan

**Further details of incentive(s)**

The annual cash incentive plan applies to all employees, including the CEO and the Corporate Executive Team, the CEO's direct reports. For further details on Amgen's incentive structure, please see the 'Compensation Discussion and Analysis' section of our 2023 Proxy.

**Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan**

To challenge our execution on our environmental sustainability 2027 goals, we established a Company environmental goal in our annual incentive plan to develop processes and capabilities across the enterprise, including the Corporate Executive Team. The environmental goal has specific percentage reductions for carbon and includes a Company approved strategy for engaging certain key suppliers across the enterprise to improve their Scope 3 carbon emissions.

In 2022, the annual cash incentive plan weighted our ESG performance at 5%. The percentage of target earned for 2022 was 207.8%. The timely achievement of conservation targets that meet specific percentage reductions for each of the three goal components (total carbon reduction, total water reduction, and total waste reduction) in 2022 that advance towards our 2027 environmental sustainability goals as well as timely establishment of a Company approved strategy to engage certain key suppliers across the enterprise to improve their Scope 3 carbon emissions in support of our SBTI-approved Scope 3 supplier engagement target contributed to our achievement of the environmental sustainability portion of the 2022 ESG goal.

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**Entitled to incentive**

All employees

**Type of incentive**

Monetary reward

**Incentive(s)**

Bonus - % of salary

**Performance indicator(s)**

Progress towards a climate-related target

**Incentive plan(s) this incentive is linked to**

Short-Term Incentive Plan

**Further details of incentive(s)**

The annual cash incentive plan for ESG applies to all employees, including the CEO, Corporate Executive Team and Energy Manager(s). For further details on Amgen's incentive structure, please see the 'Compensation Discussion and Analysis' section of our 2023 Proxy.

**Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan**

To challenge our execution on our environmental sustainability 2027 goals, we first established in 2021 an ESG goal in our annual incentive plan to develop processes and capabilities across the enterprise. The environmental portion of the ESG goal has specific percentage reductions for carbon and includes the development of a Company approved strategy for engaging certain key suppliers across the enterprise to improve their Scope 3 carbon emissions.

In 2022, the annual cash incentive plan weighted our ESG performance at 5%. The percentage of target earned for 2022 was 207.8%. The timely achievement of conservation targets that meet specific percentage reductions for each of the three goal components (total carbon reduction, total water reduction, and total waste reduction) in 2022 that advance towards our 2027 environmental sustainability goals as well as timely establishment of a Company approved strategy to engage certain key suppliers across the enterprise to improve their Scope 3 carbon emissions in support of our SBTI-approved Scope 3 supplier engagement target contributed to the achievement of this goal.

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**Entitled to incentive**

Other, please specify (Operations Teams)

**Type of incentive**

Monetary reward

**Incentive(s)**

Other, please specify (BRAVO Award, internal company recognition with financial voucher)

**Performance indicator(s)**

Progress towards a climate-related target

Energy efficiency improvement

Reduction in total energy consumption

**Incentive plan(s) this incentive is linked to**

Short-Term Incentive Plan

**Further details of incentive(s)**

Amgen annually selects Excellence in Operations Award recipients, which can include teams or individuals. Since 2006, this program has recognized projects representing efforts which resulted in a robust process to deliver tangible, recurring and sustainable benefits. Environmental sustainability metrics are included in the scoring criteria, and consider efforts to increase energy efficiency, and to reduce energy use and carbon emissions.

**Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan**

Supporting efforts to increase energy efficiency and to reduce energy use and carbon emissions.

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**Entitled to incentive**

Other, please specify (Operations Teams)



**Type of incentive**

Non-monetary reward

**Incentive(s)**

Internal company award

**Performance indicator(s)**

Implementation of an emissions reduction initiative

Energy efficiency improvement

Reduction in total energy consumption

**Incentive plan(s) this incentive is linked to**

Short-Term Incentive Plan

**Further details of incentive(s)**

Amgen annually selects Operations award recipients for 'Best Plant Award' and 'Most Improved Plant Award'. The internal award program has recognized outstanding manufacturing plants and sites. The award program aligns with our strategic framework and Key Performance Indicators (KPIs), including Environmental Sustainability metrics associated with carbon, water and waste improvements.

**Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan**

Supporting efforts to increase energy efficiency and to reduce energy use and carbon emissions.

**C2. Risks and opportunities****C2.1****(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?**

Yes

**C2.1a****(C2.1a) How does your organization define short-, medium- and long-term time horizons?**

	From (years)	To (years)	Comment
Short-term	0	4	The definition of short-, medium- and long-term depends upon the specifics of the technical topic or risk, operational initiative, or strategy being considered. For climate-related issues, we are using 0 to 7 years as "short-term" because that is the length of time for which we set sustainability performance targets.
Medium-term	5	11	For climate-related issues, we are defining "medium-term" as being 7 to 14 years, as this corresponds with the next upcoming performance period for sustainability targets.
Long-term	12	27	To include the long-term aspects of risk screening for future climate scenarios (2030 & 2050) aligned to the TCFD framework, we are defining long-term as 14 to 21 years, as this represents a time frame two planning cycles ahead of our current sustainability performance targets.

**C2.1b****(C2.1b) How does your organization define substantive financial or strategic impact on your business?**

Amgen's Strategic Planning and Risk group within the Operations defines substantive financial impacts as described below, which should not be construed as a characterization regarding materiality from a U.S. public company reporting perspective. Such metrics are the starting point for assessing importance and further analysis that considers qualitative and other factors can influence the results of any substantive financial impact assessments:

- Insignificant: Potential revenue loss and/or additional expenses < \$500K in 12 months
- Minor: Potential revenue loss and/or additional expenses \$500K - \$1M in 12 months
- Moderate: Potential revenue loss and/or additional expenses \$1M - \$10M in 12 months
- Major: Potential revenue loss and/or additional expenses \$10M - \$20M in 12 months
- Severe: Potential revenue loss and/or additional expenses > \$20M in 12 months

Financial impacts to the business include market interruptions across the value chain, launch delays and disruptions to clinical trials. Climate impacts are a consideration when evaluating impacts to the business. For further discussion of risks and uncertainties that may have an adverse effect on our business, please see the Risk Factors section of our Annual Report on Form 10-K for the year ended December 31, 2022 filed with the Securities and Exchange Commission. <https://investors.amgen.com/static-files/cb90e5d6-72b9-4291-ba59-85281072b4be> and any Form 10-Qs filed subsequent to such Form 10-K.

**C2.2**

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**(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.**

**Value chain stage(s) covered**

Direct operations  
Upstream  
Downstream

**Risk management process**

Integrated into multi-disciplinary company-wide risk management process

**Frequency of assessment**

More than once a year

**Time horizon(s) covered**

Short-term  
Medium-term  
Long-term

**Description of process**

Situation: climate-related risks are managed globally by our Operations Strategic Planning and Risk group in collaboration with our Environmental Sustainability group, who sits in the Engineering Technical Authority Department. Designated Amgen site business resilience leaders and key operations stakeholders within Global Distribution, External Supply, Global Crisis Management, Environment, Health & Safety (EHS), Global Engineering, and Quality routinely document all relevant risks and mitigation plans within local registries. Business continuity and crisis management plans are developed and exercised to assure a shared site or organizational understanding of actions to take in the event of a disaster scenario. Risk registries and continuity plans are reviewed on an annual basis, with risks posing severe financial, reputational, operational, or regulatory impacts reviewed with the Board. Task: to align further with Task Force on Climate-related Financial Disclosures (TCFD) recommendations, in 2022, the global team started working with multiple functions at the site level to perform site-specific climate risk assessments and develop associated risk management strategies across different time horizons. Action: As part of this work, Amgen performed a climate risk assessment at one of its largest manufacturing facilities in Puerto Rico. Amgen followed TCFD guidelines to prioritize hazards, including non-tornadic and tornadic wind, stormwater and riverine flood, extreme temperature and seismic, among others, using the Representative Concentration Pathway (RCP)4.5 scenario across short-, medium- and long-term time horizons. A comprehensive risk assessment was performed for the greatest hazards, including wind and flood risks. Result: The risk assessment provided quantitative repair costs and downtime estimates. This work identified opportunities for the site to continue to effectively manage climate risk, including opportunities that can be deployed at other sites. The recommendations will be included in the site's business continuity plan and also potentially considered in connection with the ERM process.

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C2.2a

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**(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?**

	Relevance & Inclusion	Please explain
Current regulation	Relevant, always included	Amgen is subject to multiple climate-related regulations, that include a focus on our manufacturing facilities. For example, Amgen's facilities in California require increased reporting and inspection of equipment containing ozone depleting substances in accordance with Assembly Bill No. 32, and our European Sites are required to meet the requirements of the European Union Energy Efficiency Directive (EED). As part of our response to the EED, our facility in the Netherlands has achieved the required Energy Labels for each of its buildings, including a A++++ Energy Label for one of the buildings, the highest level in Directive.
Emerging regulation	Relevant, always included	New and proposed regulations regarding climate and emissions are monitored on a company-wide basis. We review and assess relevant existing greenhouse gas and climate risk regulations to further enhance our strategies to compliantly meet operational and regulatory needs. Amgen has developed a database of current and impending global, EU, country-wide and local carbon and climate change regulations. This database identifies associated requirements, applicability to Amgen, additional resources needed, roles and responsibilities, and timelines to maintain compliance. This approach allows us to plan and have resources to stay ahead of regulatory and disclosure requirements. For example, this approach is enabling Amgen to manage requirements and financial implications emanating from the EU's Green Deal and Fit for 55, the impending Corporate Sustainability Reporting Directive, and the proposed Security and Exchange Commission's regulations on reporting of climate-related risks. We also work track opportunities associated with emerging regulations, including, for example, how the tax incentives in the Inflation Reduction Act will provide positive financial impacts to Amgen's on-site solar installation projects across the USA. More generally, Amgen participates in multiple industry-specific task groups that focus on tracking and addressing climate-related regulations.
Technology	Relevant, always included	Amgen's company values are rooted in efficiency and innovation. Efficiency is important for Amgen to continue to deliver life-saving medicines to patients as quickly as possible while maintaining quality and safety. Technology is crucial to increase the efficiency of our operations. Amgen has created a streamlined, flexible and more economical plant blueprint for biomanufacturing that is also considerably more sustainable when compared with a conventional plant. This blueprint is called Amgen Ecovation™. This innovative approach has demonstrated Amgen's ability to reduce applicable plant energy consumption by greater than 70% when compared to legacy manufacturing processes. Furthermore, Amgen is substantially improving the efficiency of our processes and significantly reducing the cost of making products and reducing energy use year upon year, through new low carbon and emission-control technologies, advancements in software development and data analytics, innovative manufacturing technologies, smart and integrated facility design, greener fuels and the installation of on-site solar.
Legal	Relevant, always included	Amgen seeks to comply with climate-related requirements, e.g., carbon taxes, in applicable regions where it operates. Potential for governmental authority sanctions associated with non-compliance as well as climate-related litigation claims are considered in our risk assessments and our acquisition process. Non-compliance with legal requirements relating to carbon and climate can put Amgen at risk financially and reputationally. With the advent of legally binding disclosure requirements in Europe (such as the Corporate Sustainability Reporting Directive), and impending regulations in the U.S. (for example the Security and Exchange Commission's regulations on reporting of climate-related risks), Amgen is closely monitoring impacts to its business and operations.
Market	Relevant, always included	Amgen consistently monitors and proactively solicits our stakeholders' perspectives on Environment, Social, and Governance practices, including carbon neutrality, and Amgen's position within the market. Stakeholders in certain markets are seeking information on Amgen's approach to managing climate-risk, which Amgen is addressing through its evolving climate-risk disclosures.  The availability of suppliers and collaboration partners that can support our ESG goals, the effects of the organic growth of our business and potential acquisitions of other businesses on our ESG performance, and the availability and cost of technologies or resources, such as carbon credits, are all market factors that play a role in Amgen achieving its ESG goals. For example, impacts on the commodity market and supply chains caused by the armed conflict in Ukraine could limit the availability of electric vehicle components, impairing our ability to meet some of our environmental sustainability goals.  Amgen recognizes the connection between environmental stresses and health as reported by the World Health Organization. In 2022, we sponsored our second virtual Expert Voices roundtable with leading national news outlet Axios to hear how stakeholders are addressing health challenges related to climate change, and to better understand how Amgen can collaborate to make an impact. Amgen is also working with community-based organizations to improve health outcomes for underserved and disproportionately impacted communities.
Reputation	Relevant, always included	Amgen's Strategic Planning and Risk group within Operations classifies risk from insignificant to severe, based on various parameters, including loss of confidence from customers/health care professionals/patients, investors, and employees; media coverage; and negative visibility.  Stakeholders, including our investors and our employees, are increasingly focusing on our carbon and climate risk mitigation practices. If our ESG practices fail to meet these stakeholders' expectations, there could be a material adverse effect on our reputation. Achieving our ESG goals requires long-term investments and broad, coordinated activity, and we may be required to incur additional costs or allocate additional resources towards monitoring, reporting and implementing our ESG practices.  Our ESG report is made available on our website and describes our ESG goals and the progress we have made on the ESG issues deemed most important to our external and internal stakeholders. Furthermore, Amgen has been disclosing climate-related risks through its Climate CDP report for over a decade. In 2022, Amgen's Science-Based Targets Initiative (SBTI)-targets were approved. These targets include reducing absolute scope 1 and 2 GHG emissions 55% by 2027 from a 2019 base year; increasing sourcing of renewable electricity from 29% in 2019 to 100% by 2027; and continuing to annually source 100% renewable electricity at least through 2030. Amgen further committed to engage 73% of its suppliers by spend covering upstream purchased goods and services and capital goods to assist and encourage their establishment of science-based targets by 2027. This engagement will cover suppliers responsible for approximately 67% of our Scope 3 emissions, as measured in 2019.  As part of our SBTi targets, we are engaging with our suppliers to assist and encourage carbon reduction throughout our value chain, including by developing training, tools, and participating in collaboration alliances to help encourage our suppliers to reduce their global carbon dioxide emissions. For example, in 2022, Amgen joined Energize, a program designed to increase access to renewable energy for pharmaceutical suppliers. The program enables suppliers in the pharmaceutical and biotechnology industry to learn more about renewable energy procurement, thereby addressing their own operational Scope 2 greenhouse gas emissions through renewable energy procurement, to in turn reduce the participating companies' Scope 3 emissions.
Acute physical	Relevant, always included	Identification and characterization of risks from extreme weather events are assessed by the Company and also potentially considered in connection with our Enterprise Risk Management (ERM) process. For example, Amgen's Global Supply Chain group has established an inventory level to provide forward coverage for each product based on manufacturing site risk and volume requirements, and we have a strong track record in patient supply. Furthermore, in 2022, Amgen performed a risk assessment project to further our understanding of acute climate-related physical risk. Two operational sites, including our Thousand Oaks sites and our Puerto Rico site, and a site in development in Ohio were included in the risk assessment. The sites were selected due to their exposures to different potential acute climate hazards, including wildfires, hurricanes, tornadoes, and precipitation-related and riverine flooding. Potential hazards were considered across short-, medium- and long-term timeframes. As part of the risk assessment, recommendations for mitigation measures were identified that will inform future site-level and global management plans and site-level business continuity plans. The results of the risk assessments also formed the basis for a global risk assessment approach that began roll out across the enterprise in 2023. This work has also led to the potential development of a mechanism to further evaluate acute climate-related risks as part of Amgen's ERM process.
Chronic physical	Relevant, always included	Identification and characterization of operational risks from chronic climatic patterns are assessed by the Company and also potentially considered in connection with our Enterprise Risk Management (ERM) process. Operations continually reviews site selections and potential changes to network strategy to plan for severe weather events anticipated at high-risk locations. Many of our key facilities are located on islands, including Puerto Rico, Singapore and Ireland, which rely on essential port facilities that may be vulnerable to the chronic impacts of climate change, e.g. sea level rise. Any natural disaster may also result in prolonged interruption to our critical operational and business activities, with associated costs to remedy the effects of such natural disasters and fully resume operations, which may result in a material adverse effect on our product sales, business and results of operations. Amgen has detailed business continuity plans in place and performs periodic assessments of our natural disaster risk to help mitigate impacts.  Climate change could impact the availability of potable water. Our headquarters in Thousand Oaks is located in an arid region. Another site is in Singapore, one of the most water-stressed countries in the world. Amgen minimizes water consumption wherever possible. For example, our Singapore facility uses a suite of breakthrough biomanufacturing technologies enabling it to use a fraction of the energy and water in manufacturing as compared to that of a traditional conventional facility.

**C2.3**

**(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?**

Yes

**C2.3a**

**(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.**

**Identifier**

Risk 1

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Acute physical	Cyclone, hurricane, typhoon
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**Primary potential financial impact**

Increased direct costs

**Climate risk type mapped to traditional financial services industry risk classification**

<Not Applicable>

**Company-specific description**

Situation: An increased severity and frequency of extreme weather events could affect our manufacturing sites, potentially causing reduction/disruption in production capacity. Puerto Rico has been affected by droughts in mid-2020 and Hurricane Maria in 2017. These natural disasters may continue to affect properties and the electric grid and communications networks. The critical areas of our commercial manufacturing facilities were not significantly affected by Maria. However, electrical service restoration on the island was slow, and our facility operated with electrical power from backup generators until the grid was restored. Further instability of the electric grid could require us to increase generator use. Task: Amgen has taken precautions to limit the impacts of storm events: Amgen manufacturing sites have redundant power generation sources and maintain contracts to assure fuel replenishment for additional power generators to continue operations. Amgen's Puerto Rico facility also operates a highly efficient cogeneration plant to increase redundancy.

In 2022, Amgen performed a risk assessment project to further our understanding of acute climate-related physical risk. The approach was constructed to facilitate integration into Amgen's existing Enterprise Risk Management (ERM) process and to meet the requirements of disclosure recommendations and laws, including TCFD. Two operational sites, our Puerto Rico and our Thousand Oaks sites, and a site in development in Ohio were included in the project. The sites were selected due to their exposures to different acute climate hazards. Hazards were considered across short-, medium- and long-term timeframes using the RCP 4.5 scenario. Action: Amgen performed a quantitative assessment of risk to its Puerto Rico operations. The assessment identified different natural hazards and climate change risks across the site, including high winds, flooding and extreme heat. Result: Consequences to the site included potential equipment damage and productivity loss. This work identified opportunities for the site to continue to effectively manage risk, including opportunities that can be deployed at other sites. The recommendations are being addressed in the site's business continuity plan and also potentially considered in connection with our ERM process. This risk assessment approach also serves as the foundation for similar risk assessments being performed across Amgen's portfolio starting in 2023.

**Time horizon**

Short-term

**Likelihood**

About as likely as not

**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

Yes, an estimated range

**Potential financial impact figure (currency)**

<Not Applicable>

**Potential financial impact figure – minimum (currency)**

1000000

**Potential financial impact figure – maximum (currency)**

20000000

**Explanation of financial impact figure**

These risk impact ranges (from \$1,000,000 to greater than \$20,000,000) are the standards for Amgen these types of risk assessments, and are evaluated every year by Amgen's Strategic Planning and Risk group within the Operations organization. The risk assessment process breaks down major risks like hurricanes, earthquakes, fires, etc. into specific sub-risk areas.

**Cost of response to risk**

160000

**Description of response and explanation of cost calculation**

This represents an approximation of the external consulting fees related to the portion of the risk assessment focusing on Amgen's Puerto Rico operations.

**Comment**

Environmental risks, including those potential risks from climate change, are considered at a functional level within the Engineering Technical Authority; Environment, Health & Safety; and the Operational Strategic Planning and Risk teams and at a site level within our operating sites. At the company level, Amgen has a Company-wide Enterprise Risk Management (ERM) program, to identify, assess, manage, report, and monitor enterprise level risks that may affect our ability to achieve the Company's objectives. Various functions with the operating sites make up a larger risk community within Amgen that elevates enterprise level risks for consideration in connection with the Amgen ERM process.

Amgen also leverages our corporate insurers and our global insurance broker who provide capital loss and business continuity insurance to manage enterprise risk. As part of the insurance package, facility-specific environmental risk hazards are quantified and building designs incorporate resilience to site-specific hazards (e.g., wind, flood, fire).

**Identifier**

Risk 2

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Acute physical	Wildfire
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**Primary potential financial impact**

Increased capital expenditures

**Climate risk type mapped to traditional financial services industry risk classification**

<Not Applicable>

**Company-specific description**

Situation: Amgen operates key R&D, manufacturing and product warehouse operations in Thousand Oaks, California, a region prone to seasonal wildfire risk. A substantial disruption in our ability to operate this manufacturing facility could materially and adversely affect our ability to supply our product candidates for use in our clinical trials, leading to delays in development of our product candidates. Temperature increases and lack of rainfall exacerbate drought conditions that extend the wildfire season, increasing likelihood and severity of a fire event. Task: Amgen has taken several precautions to limit the impacts of wildfires to its operations. For example, Thousand Oaks facility buildings are constructed with cement walls and fire-resistant roofs. In addition, Amgen has developed wildfire, red flag warning, and severe weather playbooks that staff are continually trained on. However, past wildfire incidents have occurred in areas near our operations that have disrupted normal business operations for very short periods. In 2022, Amgen performed a risk assessment to further our understanding of acute climate-related physical risk and from which to develop an enterprise-wide climate-risk management framework that meets the requirements of current and impending disclosure recommendations and laws. Two operational sites, including our Thousand Oaks sites, and a site in development were included in the risk assessment. The sites were selected due to their exposures to different acute climate hazards, including wildfires. Hazards were considered across short-, medium- and long-term timeframes using the RCP 4.5 scenario. Action: Starting in 2022, Amgen performed a qualitative assessment of climate-related risks at its Thousand Oaks facility, in alignment with TCFD. This assessment determined different natural hazards and climate change risks across the site, including wildfire risk, as well as wind, seismic, drought, riverine and stormwater flood and extreme heat hazards. Result: The results revealed additional insights regarding certain risks. The comprehensive risk assessment framework developed for the Puerto Rico facility and described above will be applied to other facilities and the results will be captured in the Company's risk management processes to further align with TCFD requirements.

**Time horizon**

Short-term

**Likelihood**

About as likely as not

**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

Yes, an estimated range

**Potential financial impact figure (currency)**

<Not Applicable>

**Potential financial impact figure – minimum (currency)**

1000000

**Potential financial impact figure – maximum (currency)**

20000000

**Explanation of financial impact figure**

These risk impact ranges (from \$1,000,000 to greater than \$20,000,000) are the standards for Amgen these types of risk assessments, and they are verified every year . The risk assessment process breaks down major risks like hurricanes, earthquakes, fires, etc. into specific sub-risks for each.

**Cost of response to risk**

33000

**Description of response and explanation of cost calculation**

This represents an approximation of the external consulting fees related to the portion of the risk assessment focusing for Amgen's Thousand Oaks operations.

**Comment**

Environmental risks, including those potential risks from climate change, are considered at a functional level within the Engineering Technical Authority; Environment, Health & Safety; and the Operational Strategic Planning and Risk teams and at a site level within our operating sites. Various functions with the operating sites make up a larger risk community within Amgen that elevates enterprise level risks for consideration in connection with the Amgen Enterprise Risk Management (ERM) process. Enterprise level risks are compared cross functionally and organized into an executive level profile for reporting purposes.

Amgen also leverages our corporate insurers and our global insurance broker who provide capital loss and business continuity insurance to manage enterprise risk. As part of the insurance package, facility-specific environmental risk hazards are quantified and building designs incorporate resilience to site-specific hazards (e.g., wind, flood, fire).

**Identifier**

Risk 3

**Where in the value chain does the risk driver occur?**

Upstream

**Risk type & Primary climate-related risk driver**

Acute physical	Other, please specify (Cyclone, hurricane, typhoon; Flood (coastal, fluvial, pluvial, groundwater); Heavy precipitation (rain, hail, snow/ice); Storm (including blizzards, dust, and sandstorms); Tornado; Wildfire)
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**Primary potential financial impact**

Increased indirect (operating) costs

**Climate risk type mapped to traditional financial services industry risk classification**

<Not Applicable>

**Company-specific description**

Amgen relies on external supply chains for business-critical materials, including certain raw materials, medical devices and components necessary for the manufacturing of our commercial and clinical products. There is a potential for disruption within our global supply chain due to extreme weather events. Our suppliers, vendors and business partners face similar risks as described in Risk 1 and Risk 2.

**Time horizon**

Short-term

**Likelihood**

About as likely as not

**Magnitude of impact**

Low

**Are you able to provide a potential financial impact figure?**

Yes, an estimated range

**Potential financial impact figure (currency)**

<Not Applicable>

**Potential financial impact figure – minimum (currency)**

500000

**Potential financial impact figure – maximum (currency)**

20000000

**Explanation of financial impact figure**

Based on Amgen's risk impact criteria, the minimum financial impact figure is <\$500K and the maximum figure is >\$20M. These figures depend on how many external suppliers are negatively impacted by severe weather in a given year.

**Cost of response to risk**

**Description of response and explanation of cost calculation**

Description of response and explanation of cost calculation of response to risk is considered confidential at this time.

**Comment**

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## C2.4

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**(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?**

Yes

### C2.4a

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**(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.**

**Identifier**

Opp1

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Resource efficiency

**Primary climate-related opportunity driver**

Use of more efficient production and distribution processes

**Primary potential financial impact**

Reduced indirect (operating) costs

**Company-specific description**

Situation: Amgen has created a streamlined, flexible and more economical plant blueprint for biomanufacturing that is also considerably more sustainable when compared with a conventional plant, which we call Amgen Ecovation™. This innovative approach has enabled Amgen to reduce applicable plant energy consumption by greater than 70% when compared to legacy manufacturing processes. We pioneered this approach with our biomanufacturing plant in Singapore. Based on the success of the Singapore plant, we have completed construction and started operations of another new biomanufacturing plant in Rhode Island of the same design and with the same outcomes. Task: The innovative approach was incorporated into the design and development; and now the execution at both of our new Amgen facilities under construction in Ohio and North Carolina. Action: Amgen performed project life cycle assessment and enhanced commissioning for both the mechanical systems and building envelope at both the Ohio and North Carolina plants. Energy models and mass balances were used to identify resource utilization and analyze design and operation for environmental sustainability opportunities. For example, the Ohio facility was designed to be fully electrified, to eliminate scope 1 carbon emissions and associated climate-related impacts. A ground mounted solar project is being installed to further reduce grid electricity consumption and associated scope 2 carbon emissions through on-site renewable energy production. The remaining electricity will be purchased from renewable sources. Electrochromic glass has also been incorporated into the facility design. Submeters have also been included on utilities systems to improve tracking of energy use, identify losses and repair leaks, and to optimize system performance. Submeter information is monitored in real time through an accessible dashboard. Result: The design of the Amgen Ohio and North Carolina plants are expected to decrease the associated footprint by over 3,100 metric tons of carbon emissions per year and exemplify Amgen's approach to innovative and sustainable manufacturing.

**Time horizon**

Short-term

**Likelihood**

More likely than not

**Magnitude of impact**

Medium-high

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**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

<Not Applicable>

**Potential financial impact figure – minimum (currency)**

<Not Applicable>

**Potential financial impact figure – maximum (currency)**

<Not Applicable>

**Explanation of financial impact figure**

We currently consider the potential financial impact confidential. Savings from the new optimized manufacturing facilities are realized from reductions in construction cost, reductions in energy and water consumption and reductions in staffing levels to operate the facility.

**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

Identification, development, and validation of a biomanufacturing facility is an extensive multi-year process with dependency on production volume and sales forecasts. We currently consider the cost to realize this opportunity confidential.

**Comment**

Amgen's application of Ecovation™ is aligned with our 2027 carbon neutrality goal. Amgen also has SBTi-approved targets that include reducing absolute scope 1 and 2 GHG emissions 55% by 2027 from a 2019 base year; and to increase annual sourcing of renewable electricity from 29% in 2019 to 100% by 2027, to then annually sourcing of 100% renewable electricity through 2030.

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**Identifier**

Opp2

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Resource efficiency

**Primary climate-related opportunity driver**

Use of more efficient production and distribution processes

**Primary potential financial impact**

Reduced indirect (operating) costs

**Company-specific description**

Situation: Drug discovery relies on large numbers of cold storage units to keep samples at optimal temperatures. While vital to advance life-changing new medicines, these units use significant energy. Task: Amgen signed up to the International Freezer Challenge, a joint program of My Green Lab and the International Institute for Sustainable Laboratories. Recognized by the United Nations Race to Zero campaign as a key measure of progress towards a zero-carbon future, My Green Lab (MGL) Certification is considered the gold standard for laboratory sustainability best practices and carbon reduction around the world. MGL is a scalable program that helps organizations achieve their sustainability goals. It offers science-based methods to dramatically reduce the environmental impact of laboratories without disrupting the critical work underway. Action: In 2022, Amgen competed against more than 1,200 labs from 27 countries. Labs received points for taking sustainable actions related to their cold storage units, including actions that promoted energy efficiency, sample accessibility, and sample integrity. Result: Amgen received the award for Top Organization in the Biotech/Pharma Sector. Amgen's Massachusetts Pivotal Biologics Lab was honored with the Large-Size Lab Award. Participating Amgen labs saved 2,263 kWh/day in the challenge.

**Time horizon**

Short-term

**Likelihood**

Virtually certain

**Magnitude of impact**

Medium-low

**Are you able to provide a potential financial impact figure?**

Yes, a single figure estimate

**Potential financial impact figure (currency)**

90850

**Potential financial impact figure – minimum (currency)**

<Not Applicable>

**Potential financial impact figure – maximum (currency)**

<Not Applicable>

**Explanation of financial impact figure**

Laboratories participating in the Challenge reduced their utility bills. Cost was insignificant since the initiative was implemented using internal resources.

**Cost to realize opportunity**

51500

**Strategy to realize opportunity and explanation of cost calculation**

Cost/kWh \* daily usage \* 365 = \$90,859/year

**Comment**

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**Identifier**

Opp3

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Energy source

**Primary climate-related opportunity driver**

Use of lower-emission sources of energy

**Primary potential financial impact**

Other, please specify (Not applicable)

**Company-specific description**

Situation: Amgen has committed to utilizing 100% electricity from renewable sources by 2027 as part of its SBTi commitments. In 2022, Amgen purchased approximately 76% renewable energy globally (the numbers generating this percentage having been externally verified). Task: To increase renewable energy use, Amgen is incorporating on-site photovoltaic (PV) electricity production as part of its energy strategy. Amgen has already installed photovoltaic (PV) panels at its Netherlands site that generates 23,000 kWh annually. Action: In addition, Amgen has evaluated the feasibility of the installation PV panels at over five additional sites in North America, Europe and Asia. These feasibility studies incorporated many considerations, including permitting and interconnectivity, technical advances, utility grid reliability, demand vs. output, return on investment, etc. Extensive modeling was performed to assist the feasibility study. Based on the results of the feasibility studies and modeling exercises, PV panels were installed at Amgen's Singapore facility in 2022. We expect additional PV panels will be installed at our Singapore facility in 2023, as well as at our Ohio and North Carolina facilities.

Result: The solar projects will reduce the plant electricity consumption by approximately 20% in Ohio, by 13 % in North Carolina, and by 7% at the Singapore facility (cumulative total). Associated greenhouse gas emissions reduction are projected to be in excess of 1,100 metric tons. Further feasibility studies are being performed for PVs at our Thousand Oaks and Puerto Rico facilities. These combined efforts will help Amgen meet its renewable energy targets of 100% by 2027.

**Time horizon**

Short-term

**Likelihood**

More likely than not

**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

Yes, an estimated range

**Potential financial impact figure (currency)**

&lt;Not Applicable&gt;

**Potential financial impact figure – minimum (currency)**

10000000

**Potential financial impact figure – maximum (currency)**

25000000

**Explanation of financial impact figure**

Although, on-site PV installation generally generates a negative NPV (the numbers above are negative financial impacts), Amgen has committed to source 100% electricity from renewable energy, with cost being a secondary consideration to environmental benefit.

**Cost to realize opportunity**

19000000

**Strategy to realize opportunity and explanation of cost calculation**

Estimates were made based on to-date actuals and forecasted project costs, based on Amgen's project controls methodologies.

**Comment**

Additional solar feasibility studies are underway for our Thousand Oaks and Puerto Rico facilities.

**Identifier**

Opp4

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Energy source

**Primary climate-related opportunity driver**

Use of lower-emission sources of energy

**Primary potential financial impact**

Returns on investment in low-emission technology

**Company-specific description**

Situation: Amgen's Puerto Rico facility is committed to reduce the carbon intensity of its energy mix to align with Amgen's 2027 carbon neutrality goal. The Puerto Rico Energy Public Policy Act set a goal in 2019 to transition away from imported fossil fuels and has goals to shift to 100 percent renewable energy by 2050. However, renewable energy production on the island has not progressed significantly to date and is currently low. Puerto Rico electricity infrastructure is historically and currently primarily from combustion of low-quality diesel fuel, making electrification somewhat of a challenge in the near term from a sustainability lens. Task: The Amgen Puerto Rico site is replacing use of high quality, low sulfur diesel with liquified natural gas (LNG), wherever possible, as an interim step. While Amgen's current use of high-quality diesel is superior to the Puerto Rico grid current use of low quality diesel, the conversion by Amgen to LNG will further reduce GHG emissions on the island. Action: The LNG project is currently in a detailed design phase. The project includes infrastructure and piping upgrades to accommodate LNG, including installing storage tanks, containment areas, vaporizer units, transfer pumps, ancillary equipment and new access road. Two existing Boilers will also be modified to accommodate LNG, using LNG as the primary fuel. A new Steam Chiller will be installed to reduce energy consumption. Result: The project will be completed in 2024. The sustainability impact will be approximately 17,000 metric tons CO2e per year once the project is complete and deliver 15% of Amgen's overall carbon reduction target. The site will also save \$445K/month in fuel costs as a result of this work, as well as approximately \$150k/month in energy cost.

**Time horizon**

Short-term



**Likelihood**

Virtually certain

**Magnitude of impact**

High

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

<Not Applicable>

**Potential financial impact figure – minimum (currency)**

<Not Applicable>

**Potential financial impact figure – maximum (currency)**

<Not Applicable>

**Explanation of financial impact figure**

We currently consider the potential financial impact confidential.

**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

We currently consider this information to be confidential.

**Comment**

This strategy was developed to help Amgen meet its 2027 goal. Identification, development and validation of projects supporting our Ecovation™ program is an extensive multi-year process to increase efficiencies and associated competitive advantage. We currently consider the cost to realize this opportunity confidential.

**Identifier**

Opp5

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Resilience

**Primary climate-related opportunity driver**

Other, please specify (Increased health and wellbeing)

**Primary potential financial impact**

Other, please specify (Increased productivity)

**Company-specific description**

Situation: Amgen is implementing several approaches to maximize employee wellbeing in the face of climate change, including Fitwel certification of certain of its buildings and through its FlexSpace principles. Fitwel is a green building certification system that focuses on improving, enhancing, and safeguarding the health and well-being of commercial space occupants. Amgen is incorporating Fitwel into new buildings across multiple sites and has already received certification for seven buildings at our Thousand Oaks headquarters. Closely related, Amgen's FlexSpace approach encourages increased productivity and collaboration through a flexible work environment with shared office space. Task: Amgen sought certification of its San Francisco facility to maximize the comfort and wellbeing of its employees amidst changing conditions, e.g. increased extreme heat days. Action: Amgen's San Francisco site achieved 2 star rating. The building prioritizes indoor air quality by ensuring proper ventilation, filtering, and humidity control. The lab air change rate is 6 air changes per hour minimum; office is 4 air changes per hour minimum. The building prioritizes safety and security measures, such as adequate lighting, emergency preparedness plans, and secure entrances and exits. One of the biggest advantages of the shared space concept has been the consolidation of resources which increases the site's value per square foot. Result: By implementing Fitwel, the San Francisco site promotes a healthy and productive work environment. Amgen is now pursuing Fitwel at its North Carolina and Ohio facilities. Furthermore, applying FlexSpace principles has allowed employees to produce the same amount of work but in a smaller footprint. For example, one building has reduced our footprint from around 350,000 square feet to 245,000 square feet while still functionally housing the same work. This allowed us to remove excess cold storage units which resulted in large energy savings and associated cost. In addition, the smaller footprint led to a consolidation of office and lab spaces. This resulted in a reduced need for desks and monitors and more centralized office supplies, which is reflected in our pursuit of the TRUE Zero Waste Certification. In addition to workspaces with generous amounts of natural light and exterior views to the stunning natural landscape, the use of sustainable materials reinforces Amgen's culture and commitment to the environment and employee well-being.

**Time horizon**

Short-term

**Likelihood**

Virtually certain

**Magnitude of impact**

Medium-high

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

<Not Applicable>

**Potential financial impact figure – minimum (currency)**

<Not Applicable>

**Potential financial impact figure – maximum (currency)**

<Not Applicable>

**Explanation of financial impact figure**

We currently consider the potential financial impact confidential.

**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

We currently consider the cost to realize this opportunity confidential.

**Comment**

In response to the COVID pandemic, Amgen implemented a virtual-first way of working called FlexSpace; a new work model built on key principles, guidelines, tips, and tools that allows for a more flexible workplace and workforce. FlexSpace aligns with Fitwell principles, enabling our teams and staff to work at their best by choosing and using the workspace that best fits the task, embracing a culture of belonging and connectivity and ensuring a sense of wellbeing for all.

**C3. Business Strategy**

**C3.1**

**(C3.1) Does your organization’s strategy include a climate transition plan that aligns with a 1.5°C world?**

**Row 1**

**Climate transition plan**

Yes, we have a climate transition plan which aligns with a 1.5°C world

**Publicly available climate transition plan**

Yes

**Mechanism by which feedback is collected from shareholders on your climate transition plan**

We have a different feedback mechanism in place

**Description of feedback mechanism**

Amgen has engaged consistently in broad, direct, governance-focused stockholder outreach for over a decade. Amgen has several ambitious environmental sustainability goals during this timeframe, most recently setting a goal of carbon neutrality in its operations by 2027, a timeframe that is more aggressive than most peers. Furthermore, in 2022, Amgen’s SBTi-approved targets were approved. These targets include reducing absolute scope 1 and 2 GHG emissions 55% by 2027 from a 2019 base year; and increasing sourcing of renewable electricity from 29% in 2019 to 100% by 2027 and we aim to continue annually sourcing of 100% renewable electricity through 2030. Amgen further committed to engage with 73% of its suppliers by spend covering upstream purchased goods and services and capital goods to assist and encourage their establishment of science-based targets by 2027. This would represent suppliers responsible for approximately 67% of our Scope 3 emissions, as measured in 2019. These goals are discussed at the Board level on a regular basis and annual targets are set and monitored by different levels of management.

**Frequency of feedback collection**

More frequently than annually

**Attach any relevant documents which detail your climate transition plan (optional)**

See attachments

SBTi certificate.pdf

Amgen To Achieve Carbon Neutrality By 2027\_ Amgen.pdf

Amgen\_Sustainability\_2027\_Goals.pdf

**Explain why your organization does not have a climate transition plan that aligns with a 1.5°C world and any plans to develop one in the future**

<Not Applicable>

**Explain why climate-related risks and opportunities have not influenced your strategy**

<Not Applicable>

**C3.2**

**(C3.2) Does your organization use climate-related scenario analysis to inform its strategy?**

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its strategy	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Row 1	Yes, qualitative, but we plan to add quantitative in the next two years	<Not Applicable>	<Not Applicable>

**C3.2a**

**(C3.2a) Provide details of your organization’s use of climate-related scenario analysis.**

Climate-related scenario	Scenario analysis coverage	Temperature alignment of scenario	Parameters, assumptions, analytical choices
Physical climate scenarios	Facility	<Not Applicable>	In 2022, we applied an RCP 4.5 (moderate scenario) to screen physical risks for a number of climate hazards for our two largest operational sites, Thousand Oaks and Juncos in Puerto Rico, and the Amgen Ohio site currently in development. Amgen then performed a comprehensive, quantitative risk assessment for our site in Puerto Rico. This work has provided Amgen with critical data that will be used to inform a robust scenario analysis of other physical as well as transitional scenarios, a project that started in 2023. The results of the risk assessment are also informing the development of an enterprise-wide climate risk assessment approach which will be deployed starting in 2023.

**C3.2b**

**(C3.2b) Provide details of the focal questions your organization seeks to address by using climate-related scenario analysis, and summarize the results with respect to these questions.**

**Row 1**

**Focal questions**

Understand how key manufacturing and distribution sites are vulnerable to and might be impacted by physical climate change in the short-, mid- and long-term perspective.

**Results of the climate-related scenario analysis with respect to the focal questions**

Situation. Amgen continues to evaluate the short-, mid- and long-term climate-related risks that might impact business practices and operations. Amgen’s business resilience framework has four main components: prevent, defend, respond, and recover. Better understanding climate change will improve Amgen’s ability to “prevent” the associated risks through accurately assessing location vulnerabilities, conducting proactive business impact analysis, and implementing more effective mitigation measures. It will also help “defend” against climate risks through improving Amgen’s business continuity, disaster recovery, and emergency management planning. Task. In 2022, Amgen performed a risk assessment at three major manufacturing and distribution facilities. Amgen focused on physical climate scenario, RCP 4.5 - a moderate scenario in which emissions peak around 2040 and then decline, as the first step in more extensive scenario analysis. Two operational sites, including our Thousand Oaks sites and our Puerto Rico site, and a site in development in Ohio were included in the risk assessment. The sites were selected due to their exposures to different acute climate hazards, including wildfires, hurricanes, tornadoes, and precipitation-related and riverine flooding. Hazards were considered across short-, medium- and long-term timeframes. Action. The sites were selected due to their exposures to different acute climate hazards, including wildfires, hurricanes, tornadoes, and precipitation-related and riverine flooding. Amgen performed screening level, qualitative assessments at the three sites and a comprehensive, quantitative, risk assessment at the Puerto Rico site, using an approach that is aligned with TCFD recommendations. The work sought to address multiple questions, including: which assets are located in areas with potential climate-related hazards? What are the greatest risks? What is the rough order of magnitude of the value associated with the risk? What mitigation measures could be deployed to reduce risk? Results. The goal of this work was to generate a starting point for more comprehensive scenario analysis across Amgen’s sites. This more extensive scenario analysis work began in early 2023 and considers multiple physical and transition risks.

**C3.3**

**(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.**

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	<p>We have designed and implemented strategies to reduce our product packaging’s climate impacts. Our Global Packaging Sustainability Programs include circularity, fewer and more sustainable plastics, responsible sourcing, transport reduction and patient communications programs to help ensure customers appropriately dispose of packaging. As a core competency for our Packaging Sustainability strategies, our Green Packaging Assessment tool helps us to consider material selection, sustainability, cost and performance. We consider the risks to our business impact assessment and propose mitigation measures to optimize packaging design. Further, we conduct regular internal reviews of the Green Packaging Assessment Tool to integrate the latest scientific sustainability insights into packaging development.</p> <p>In 2022, Amgen achieved its ambition of using 100% Forest Stewardship Council (FSC) certified paper products in all secondary packaging. We also started to phase out use of PVC in secondary packaging in 2021. Amgen’s multi-year target includes 100% recyclable secondary packaging materials by 2027.</p> <p>In 2022, we performed a series of Life Cycle Assessments (LCAs) on alternative packaging materials and packaging designs, including but not limited to, switching from plastic foam to fiber-based inserts, transition from paper to electronic leaflets, removal of patient information booklets and packaging size reduction. These LCA studies helped us identify the environmental impacts for different scenarios, and make eco-conscious decisions. For example, by transitioning to a fiber-based tray from a plastic tray for a prefilled syringe product, we can reduce the carbon footprint of the package by 75%, reduce water usage by 71% and waste disposed by 100%. We plan to conduct LCAs on existing and new packaging to inform more sustainable designs for Amgen products.</p> <p>We are also starting to quantify the environmental impacts from our drug substance manufacturing processes. In 2022, we developed a Drug Substance Manufacturing Sustainability Metrics Calculator, with which we can analyze the energy, water, carbon, materials and waste impacts from our processes. We are looking to expand the methodology to full LCAs, apply it to representative drug products and make it part of our overall product sustainability strategy looking forward.</p>
Supply chain and/or value chain	Yes	<p>~90% of our emissions are generated within our value chain (see Section 6. Emissions Data of this survey). To address value chain emissions, we initiated engagement with key/strategic partners to share our sustainability journey and best practices. We have also enhanced our ability to analyze the impact of our engagement through the adoption a Carbon Action Module offered by our supply chain rating organization. In addition, we are a member of the Energize program that offers education and opportunities to our value chain for procurement of renewable electricity via power purchase agreements. Amgen also has SBTi-approved targets that include committing to engaging with 73% of our suppliers by spend covering upstream purchased goods and services and capital goods to assist and encourage their establishment of will have science-based targets by 2027. This would represent suppliers responsible for approximately 67% of our Scope 3 emissions, as measured in 2019. We prioritize climate and are committed to decarbonizing our value chain.</p>
Investment in R&D	Yes	<p>We invest in R&amp;D processes that reduce energy and materials consumption and improve efficiency, which effectively mitigate climate risks. Amgen has consistently been the recipient of Environmental Protection Agency Green Chemistry Challenge Award. Following awards in previous years, in 2022, Amgen received the Environmental Protection Agency’s Green Chemistry Challenge Award for improving the manufacturing of the Company’s medicine to treat certain non-small cell lung cancers. The improved manufacturing process substantially reduced waste and decreased manufacturing time by reducing the number of steps involved and eliminating an unnecessary purification step that had created large quantities of solvent waste. The team also identified a recycling process for a high-value waste stream that improved efficiency and reduced the amount of waste generated. These improvements are predicted to avoid waste by up to approximately 14,400 metric tons per year.</p>
Operations	Yes	<p>Climate-related impacts are factored into decisions about where to manufacture and store products. Risk of weather events, access to clean, potable water and risk of wildfires are some climate-related risks we evaluate when considering where to manufacture our products, or where and how much of our products to store in a given region.</p> <p>Amgen has created a streamlined, flexible, more environmentally sustainable and more economical philosophy for biomanufacturing, called Amgen Ecovation™. This innovative approach has reduced facility energy consumption by greater than 70%. We pioneered this approach with our biomanufacturing plant in Singapore. Based on the success of this plant, we have completed construction and started operations in Rhode Island of another biomanufacturing plant using Ecovation™ principles and technologies. This approach is also being incorporated into the design and construction of our new Amgen facilities in Ohio and North Carolina.</p> <p>Amgen has evaluated the feasibility of PV panels at over five sites in North America, Europe and Asia. The feasibility studies incorporated many considerations, including permitting and interconnectivity, technical advances, utility grid reliability, demand vs. output, and return on investment. Extensive modeling was performed to assist the feasibility study. Based on the results, PV panels were installed at our Singapore facility in 2022, with additional panels to be installed at there in 2023, as well as at our Ohio and North Carolina facilities. The solar projects will reduce the plant electricity consumption by ~20% in Ohio, by 13 % in North Carolina, and by 7% at the Singapore facility (cumulative total). Associated greenhouse gas emission reductions are projected to be greater than 1,100 metric tons. Further PV feasibility studies are being performed at our Thousand Oaks and Puerto Rico facilities. These combined efforts will assure that we meet our renewable energy targets of 100% by 2027.</p> <p>We updated our sustainability standard to target LEED Gold. Our San Francisco facility received LEED Gold in 2022. In previous years, Amgen received LEED certification for five buildings at our Thousand Oaks campus and for one building at the Puerto Rico facility. The new North Carolina and Ohio facilities were also designed to LEED Gold standards.</p>

**C3.4**

**(C3.4) Describe where and how climate-related risks and opportunities have influenced your financial planning.**

	Financial planning elements that have been influenced	Description of influence
Row 1	Direct costs Indirect costs Capital expenditures	In 2020, we announced a new seven-year environmental sustainability plan with goals for 2027 that include a commitment to achieve carbon neutrality in our internal operations. Task: To help achieve our goal of carbon neutrality by 2027, Amgen has introduced several monetary measures to incorporate sustainability and climate risk into financial decisions. Action: Amgen uses two forms of an internal price on carbon (IPoC) to encourage the design and implementation of projects that reduce energy use and carbon emissions. The first IPoC is an Investment Evaluator used by our Investment Lifecycle Management group to evaluate the purchase of innovative and efficient equipment that support further reductions in carbon. For this evaluation, we apply an internal price of carbon of \$1,600 USD per metric ton (mt) of CO2e emissions. The second IPoC is an Internal Fee. For large projects costing over \$500K that result in an increase in CO2e emissions by greater than 500 metric tons, we apply an internal fee of \$1,000 USD per metric ton. Proceeds from the internal carbon fee are then added to our overall Environmental Sustainability Budget to fund additional carbon reduction projects. To support the advancement of our 2027 goals, we also issued a \$750 million green bond in 2022 to fund eligible projects (as defined in Amgen's Green Financing Framework) in categories that include green buildings, eco-efficient operations and processes, eco-efficient products, and renewable energy. Results: These financial mechanisms have been designed to help drive specific environmental sustainability projects across our operations, such as working to expand use of innovative manufacturing technologies, design smart and integrated facilities, source renewable energy and install on-site solar, convert our fleet to electric vehicles, use drought tolerant landscaping and treat and reuse water, reduce and recycle single-use plastics, and reduce consumables packaging. These financial mechanisms have supported the implementation of Amgen Ecovation™ across sites in Singapore and in the U.S., and the integration of innovative and sustainable manufacturing into the upfront design, development, and execution of our new laboratory, manufacturing, and administrative buildings. Our newest Rhode Island facility, approved by the U.S. Food and Drug Administration in 2022, expands our manufacturing capacity while utilizing these innovative and sustainable manufacturing approaches and delivering environmental and operating efficiencies. Amgen Ecovation™ is also guiding the design and construction of another two new U.S. plants (in Ohio and North Carolina). For example, the North Carolina and Rhode Island facilities are expected to reduce energy use by at least 20% as compared to conventional manufacturing facilities.

**C3.5**

**(C3.5) In your organization's financial accounting, do you identify spending/revenue that is aligned with your organization's climate transition?**

	Identification of spending/revenue that is aligned with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
Row 1	Yes, we identify alignment with our climate transition plan	<Not Applicable>

**C3.5a**

**(C3.5a) Quantify the percentage share of your spending/revenue that is aligned with your organization's climate transition.**

**Financial Metric**

CAPEX

**Type of alignment being reported for this financial metric**

Alignment with our climate transition plan

**Taxonomy under which information is being reported**

<Not Applicable>

**Objective under which alignment is being reported**

<Not Applicable>

**Amount of selected financial metric that is aligned in the reporting year (unit currency as selected in C0.4)**

15000000

**Percentage share of selected financial metric aligned in the reporting year (%)**

1.7

**Percentage share of selected financial metric planned to align in 2025 (%)**

**Percentage share of selected financial metric planned to align in 2030 (%)**

**Describe the methodology used to identify spending/revenue that is aligned**

In 2022, we spent approximately \$880 million on capital expenditures. Of these capital expenditures, approximately \$15 million were specifically allocated for carbon reduction projects identified for achievement of our 2027 Environmental Sustainability Plan, a tenfold increase since 2021. Carbon reduction projects included on-site solar projects at our Singapore, Ohio and North Carolina facilities; the Puerto Rico fuel replacement project from diesel to LNG; and utilities optimization projects.

We consider capital spend for future years confidential.

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**Financial Metric**

OPEX

**Type of alignment being reported for this financial metric**

Alignment with our climate transition plan

**Taxonomy under which information is being reported**

<Not Applicable>

**Objective under which alignment is being reported**

<Not Applicable>

**Amount of selected financial metric that is aligned in the reporting year (unit currency as selected in C0.4)**

2700000

**Percentage share of selected financial metric aligned in the reporting year (%)**

0.02

**Percentage share of selected financial metric planned to align in 2025 (%)**

**Percentage share of selected financial metric planned to align in 2030 (%)**

**Describe the methodology used to identify spending/revenue that is aligned**

In 2022, we spent \$18,340 million on operating expense. Of this operational expenditure, we spent approximately \$2.7 million towards the achievement of our 2027 Environmental Sustainability Plan, or 0.015%.

We consider operating expenses for future years confidential.

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## C4. Targets and performance

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### C4.1

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**(C4.1) Did you have an emissions target that was active in the reporting year?**

Absolute target

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#### C4.1a

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**(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.**

**Target reference number**

Abs 1

**Is this a science-based target?**

Yes, we consider this a science-based target, and the target is currently being reviewed by the Science Based Targets initiative

**Target ambition**

1.5°C aligned

**Year target was set**

2020

**Target coverage**

Company-wide

**Scope(s)**

Scope 1

Scope 2

**Scope 2 accounting method**

Market-based

**Scope 3 category(ies)**

<Not Applicable>

**Base year**

2019

**Base year Scope 1 emissions covered by target (metric tons CO2e)**

135954

**Base year Scope 2 emissions covered by target (metric tons CO2e)**

160360

**Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Base year total Scope 3 emissions covered by target (metric tons CO2e)**

<Not Applicable>

**Total base year emissions covered by target in all selected Scopes (metric tons CO2e)**

296314

**Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1**

100

**Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2**

100

**Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)**

<Not Applicable>

**Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)**

<Not Applicable>

**Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)**

<Not Applicable>

**Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes**

100

**Target year**

2027

**Targeted reduction from base year (%)**

100

**Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]**

0

**Scope 1 emissions in reporting year covered by target (metric tons CO2e)**

130263

**Scope 2 emissions in reporting year covered by target (metric tons CO2e)**

35074

**Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)**

<Not Applicable>

**Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)**

165365

**Does this target cover any land-related emissions?**

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

**% of target achieved relative to base year [auto-calculated]**

44.1926469893424

**Target status in reporting year**

Underway

**Please explain target coverage and identify any exclusions**

In 2020 we initiated our third multi-year environmental sustainability plan with the aspiration to achieve carbon neutrality in our operations by year end 2027. Our carbon neutrality encompasses 100 percent of Amgen's Scope 1 and Scope 2 (market-based) emissions. This includes emissions from our sales fleet; fugitive emissions from purchased and generated carbon dioxide and refrigerant losses; executive travel; and from energy usage in our operations. For energy use in our operations, we track invoiced energy usage from 88 percent of our worldwide facility space, based on total square feet and calculate emissions from fuel and supplied electricity emission factors. Energy and carbon data for the remaining 12 percent of facility space is estimated based on building energy intensity factors and country specific emission factors. This includes leased buildings where we have limited operational control over building infrastructure, including utilities.

**Plan for achieving target, and progress made to the end of the reporting year**

Strategy: Our plan to achieve the 2027 target is to eliminate and reduce energy usage through innovation and energy efficiency. Concurrent with energy reduction activities we have accelerated the purchase of clean, renewable electricity to reduce Scope 2 emissions. This year, our renewable energy purchasing was relatively flat compared to 2022, at 76% for 2022. For residual emissions that we are unable to eliminate by 2027, we anticipate the need for high quality carbon offsets. Our scope 1 and scope 2 emissions targets were approved by the SBTi in August 2022.

**List the emissions reduction initiatives which contributed most to achieving this target**

<Not Applicable>

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## C4.2

**(C4.2) Did you have any other climate-related targets that were active in the reporting year?**

Target(s) to increase low-carbon energy consumption or production

Other climate-related target(s)

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## C4.2a



**(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.**

**Target reference number**

Low 1

**Year target was set**

2022

**Target coverage**

Company-wide

**Target type: energy carrier**

Electricity

**Target type: activity**

Consumption

**Target type: energy source**

Renewable energy source(s) only

**Base year**

2019

**Consumption or production of selected energy carrier in base year (MWh)**

403889

**% share of low-carbon or renewable energy in base year**

29

**Target year**

2027

**% share of low-carbon or renewable energy in target year**

100

**% share of low-carbon or renewable energy in reporting year**

76

**% of target achieved relative to base year [auto-calculated]**

66.1971830985916

**Target status in reporting year**

Underway

**Is this target part of an emissions target?**

Yes, this target forms part of our SBTi commitments which were approved in 2022.

**Is this target part of an overarching initiative?**

Science Based Targets initiative

**Please explain target coverage and identify any exclusions**

This target covers all of Amgen's owned and operated assets.

**Plan for achieving target, and progress made to the end of the reporting year**

We have accelerated the purchase of clean, renewable electricity to reduce Scope 2 emissions. Our aim is for all Amgen facilities, wherever feasible, to procure 100% renewable energy by 2027. Amgen commits to increase annual sourcing of renewable electricity from 29% in 2019 to 100% by 2027, and we aim to continue annually sourcing of 100% renewable electricity through at least 2030. Ten of 14 Amgen non-commercial sites sourced 100% renewable electricity in 2022. Amgen is also in ongoing discussions with renewable energy suppliers and brokers to identify opportunities to participate in power purchase agreements of renewable energy.

**List the actions which contributed most to achieving this target**

<Not Applicable>

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**C4.2b**

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**(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.**

**Target reference number**

Oth 1

**Year target was set**

2020

**Target coverage**

Business activity

**Target type: absolute or intensity**

Absolute

**Target type: category & Metric (target numerator if reporting an intensity target)**

Low-carbon vehicles	Percentage of battery electric vehicles in company fleet
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**Target denominator (intensity targets only)**

<Not Applicable>

**Base year**

2019

**Figure or percentage in base year**

0

**Target year**

2027

**Figure or percentage in target year**

30

**Figure or percentage in reporting year**

17

**% of target achieved relative to base year [auto-calculated]**

56.6666666666667

**Target status in reporting year**

Underway

**Is this target part of an emissions target?**

Yes. This target is part of our overall carbon neutrality target for year-end 2027. Our target of 30% vehicle electrification will reduce Scope 1 emissions resulting from combustion of fuel in internal combustion engine vehicles.

**Is this target part of an overarching initiative?**

No, it's not part of an overarching initiative

**Please explain target coverage and identify any exclusions**

This target is part of our overall carbon neutrality target for year-end 2027. Coverage includes vehicles in our sales fleet.

**Plan for achieving target, and progress made to the end of the reporting year**

By 2027, we plan to convert 30% of our field fleet vehicles to battery electric vehicles (EV). In 2021, we launched an EV pilot program in the United States, the Netherlands and South Korea, enabling sales representatives and medical liaisons to upgrade their traditional fuel-operated vehicle to a new EV. In 2022, we expanded the program to the EU and Japan.

**List the actions which contributed most to achieving this target**

<Not Applicable>

**C4.3**

**(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.**

Yes

**C4.3a**

**(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.**

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	14	54818
To be implemented*	3	1038
Implementation commenced*	49	24827
Implemented*	13	120688
Not to be implemented	0	0

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

**Initiative category & Initiative type**

Low-carbon energy consumption	Other, please specify (Wind; Sun)
-------------------------------	-----------------------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

112721

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

1157000

**Payback period**

No payback

**Estimated lifetime of the initiative**

1-2 years

**Comment**

In 2022, we purchased 252,000 unbundled, renewable energy certificates for our North American operations (including our Thousand Oaks, Rhoades Island, Massachusetts, Louisville, and a portion - 59,601 MWh - of our Puerto Rico facility); 17,000 unbundled, renewable energy certificates for our Turkey operations; 5,000 unbundled, renewable energy certificates for our Netherland operations, and 5,300 MWh unbundled, renewable energy certificates for our Singapore operations. This is in addition to low carbon and renewable energy contracts with utility providers at our Ireland, Netherland, United Kingdom, British Columbia, Brazil and San Francisco operations.

**Initiative category & Initiative type**

Energy efficiency in production processes	Smart control system
---	----------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

1164

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

145000

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

<1 year

**Estimated lifetime of the initiative**

Ongoing

**Comment**

Amgen's Puerto Rico site has an ongoing utilities optimization project to identify opportunities to increase the efficiency of utility systems. As part of this project, the logic control covering five HVAC chillers at the facility were upgraded to maximize efficiency. There was no investment needed for the project, since Amgen's internal engineering team was responsible for reprogramming the logic control.

**Initiative category & Initiative type**

Energy efficiency in production processes	Process optimization
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**Estimated annual CO2e savings (metric tonnes CO2e)**

1164

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

103405

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

&gt;30 years

**Comment**

Amgen's Rhode Island facility decommissioned one of its cold rooms. Associated refrigeration equipment and room were shutdown, including two refrigeration circuits (consisting of a 40 amp compressor and 2 sets of fans and heaters). This resulted in savings of 940,042 kWh, along with reduction of unnecessary maintenance and less refrigerant to maintain.

**Initiative category & Initiative type**

Energy efficiency in production processes	Machine/equipment replacement
---	-------------------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

17.67

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

7241

**Investment required (unit currency – as specified in C0.4)**

30000

**Payback period**

4-10 years

**Estimated lifetime of the initiative**

21-30 years

**Comment**

Amgen's Rhode Island facility operates three boilers. The control systems were upgraded to improve smoother operations of the boilers and improve overall efficiency and carbon reduction. The upgrade to the boiler controls will also allow for possible further improvements that could not be done with the older controls. Along with the controls upgrade, the conductivity probe controls were upgraded to implement continuous surface blowdown to reduce boiler cycling, reduce chemical use, maintain efficient firing rate and reduce equipment wear. This will help reducing slugging the boiler with high volumes of cold water, which in turn reduce unnecessary heating and help reduce boiler water treatment chemicals. Energy savings include 23,960 kWh per year (electrical) and 2,237 therms per year (natural gas).

**Initiative category & Initiative type**

Energy efficiency in production processes	Process optimization
---	----------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

279.6

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

51601

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

6-10 years

**Comment**

An Amgen Turkey site installed an oxygen trim system in order to increase boiler efficiency, reducing natural gas needs by 52,653 therm/year.

**Initiative category & Initiative type**

Energy efficiency in production processes	Process optimization
---	----------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

166

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

30722

**Investment required (unit currency – as specified in C0.4)**

2145

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

3-5 years

**Comment**

An Amgen Turkey site identified significant steam leakages dues to defective CondenStops and replaced some of the steam traps with more efficient ones versions to prevent excess natural gas consumption and repaired others, leading to a reduction of 31,349.4 therms annually.

**Initiative category & Initiative type**

Energy efficiency in production processes	Process optimization
---	----------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

7.18

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

2033

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

1-3 years

**Estimated lifetime of the initiative**

3-5 years

**Comment**

Two vacuum pumps were replaced with more efficient pumps at an Amgen Turkey site. Existing vacuum pumps were rated at 15 kW and new vacuum pumps are rated as 0.75 kW, saving \$2,033.36 annually.

**Initiative category & Initiative type**

Energy efficiency in buildings	Lighting
--------------------------------	----------

**Estimated annual CO2e savings (metric tonnes CO2e)**

278

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

110226

**Investment required (unit currency – as specified in C0.4)**

60000

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

11-15 years

**Comment**

The lighting in our packaging facility at our Puerto Rico site was replaced with LEDs.

---

**Initiative category & Initiative type**

Company policy or behavioral change	Site consolidation/closure
-------------------------------------	----------------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

118

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

51781

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

Ongoing

**Comment**

A large building at Amgen's Thousand Oaks campus was sold in 2022 to consolidate space, resulting in a reduction of 458,789 kWh of electricity and 1,962 therms of natural gas.

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**Initiative category & Initiative type**

Waste reduction and material circularity	Waste reduction
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**Estimated annual CO2e savings (metric tonnes CO2e)**

3971

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 3 category 5: Waste generated in operations

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

2663

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

Ongoing

**Comment**

Amgen uses a Waste Hierarchy Scoring system to prioritize reduction, reuse and recovery programs and projects. Amgen's greenhouse gas emissions from Waste Generated in Operations (Scope 3 Category 5) decreased from 6,339 metric tonnes to 2,368 metric tonnes between 2021-2022. We reduced total waste disposed by 10%, through a variety of waste avoidance and diversion projects across our global facilities. Part of the emissions reduction is attributed to reduced non-routine waste generation (e.g., construction soil) as well. Many waste projects contributed to this reduction in waste disposal and associated carbon reductions. For example, we conducted onsite waste assessments to three major manufacturing sites in the U.S. in 2022 (Thousand Oaks, Rhode Island and Puerto Rico) that led to opportunities at the sites to eliminate waste or divert the waste streams from landfill. Our Rhode Island facility was able to use recycling or waste-to-energy solutions for five waste streams that originally were sent to landfill. Our Thousand Oaks site also reduced the number of powermix bags used in the manufacturing process by rinsing and reusing them. Our Puerto Rico site diverted a number of aqueous waste streams from landfill to wastewater treatment plant onsite. Best practices on waste management and waste diversion programs were documented and shared across the Amgen network.

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**Initiative category & Initiative type**

Transportation	Company fleet vehicle efficiency
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**Estimated annual CO2e savings (metric tonnes CO2e)**

1400

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

900000

**Payback period**

No payback

**Estimated lifetime of the initiative**

6-10 years

**Comment**

Approx. \$15,000,000 was allocated for field fleet electrification from 2019 to 2027. To date, 300 EVs were on the road in the U.S., EU, and JAPAC. Level 2 home chargers were also installed in staff homes to assure business continuity. No payback period is expected. A Total Cost of Ownership analysis is underway in 2023 to assess investment and saving opportunities.

**Initiative category & Initiative type**

Energy efficiency in production processes	Process optimization
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**Estimated annual CO2e savings (metric tonnes CO2e)**

109

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 2 (location-based)

Scope 2 (market-based)

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

51360

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

3-5 years

**Comment**

The reverse osmosis system at a building at Amgen's Thousand Oaks facility was replaced with new higher efficiency system. This led to an electricity reduction of 466.91 MWH/year.

**Initiative category & Initiative type**

Company policy or behavioral change	Supplier engagement
-------------------------------------	---------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

0

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 3 category 1: Purchased goods &amp; services

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

No payback

**Estimated lifetime of the initiative**

3-5 years

**Comment**

In 2022, we established an enterprise-wide framework to engage with our suppliers to assist and encourage carbon reductions throughout our value chain. Our first step was to look holistically across our value chain. We identified purchased goods and services and capital goods as our Scope 3 focus areas. Next, we established a SBTi Scope 3 supplier engagement target to engage with 73% of our suppliers by spend in key categories to assist and support their adoption of science-based targets by 2027. This engagement would cover suppliers responsible for approximately 67% of our Scope 3 emissions, as measured in 2019. We are working through our supplier sustainability program and with others in our sector to encourage, educate and support suppliers in setting reduction targets. This includes providing training tools and participating in collaboration alliances to help encourage our suppliers to reduce their carbon emissions. No savings are estimated in 2022 since Amgen implemented its first Scope 3 carbon strategy in August of 2022. Savings will be assessed starting in 2023.

**Initiative category & Initiative type**

Transportation	Employee commuting
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**Estimated annual CO2e savings (metric tonnes CO2e)**

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 3 category 7: Employee commuting

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

&lt;1 year

**Estimated lifetime of the initiative**

Ongoing

**Comment**

Amgen has a Commuter Program for its San Francisco; Cambridge, MA; and Thousand Oaks facilities to incentivize employees to reduce their environmental impact by utilizing alternative forms of transportation to commute to work. Amgen has committed to providing at least five means of support to help employees leave their cars at home, including designating a central point of contact for employee commuter questions and commuter incentives. Examples of these incentives include the following: monetary incentives for employees who bike, walk, carpool, or use public transit travel to the workplace; bike storage; carpool program; long haul shuttle program; teleworking program; free EV-charging stations; free last-mile service between transit stations and the workplace; and Emergency Ride Home Program for employees who regularly utilize an alternative mode of transportation. Employees log their commuting patterns in a Ride Amigos, a software platform that calculates associated greenhouse gas emissions savings.

**Initiative category & Initiative type**

Company policy or behavioral change	Other, please specify (Employee engagement)
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**Estimated annual CO2e savings (metric tonnes CO2e)**

0

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

Scope 3 category 5: Waste generated in operations

Scope 3 category 7: Employee commuting

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

No payback

**Estimated lifetime of the initiative**

Ongoing

**Comment**

Amgen is committed to educating staff on sustainability topics, providing a consistent message globally regarding its sustainability, carbon and climate ambitions. In April 2022, Amgen hosted global activities in honor of Earth Month with a focus on electric vehicles. In September 2022, Amgen participated in the International Coastal Cleanup initiative. Nearly 350 employees from 10 Amgen sites joined the effort to clean up a beach, park or river in their local communities. For their efforts, the California Coastal Commission recognized Amgen volunteers with an appreciation award for their outstanding public service in protecting and enhancing the beauty and natural resources of the California coast and shoreline for the benefit of present and future generations. Furthermore, we updated our mandatory environmental sustainability new employee onboarding presentation for our global manufacturing facilities. In addition to these internal efforts, Amgen offers all full-time employees a paid day dedicated to volunteering and enables staff to participate in sustainability training during the workday. CO2e emissions associated with these initiatives have not been calculated.

**Initiative category & Initiative type**

Company policy or behavioral change	Waste management
-------------------------------------	------------------

**Estimated annual CO2e savings (metric tonnes CO2e)**

0

**Scope(s) or Scope 3 category(ies) where emissions savings occur**

Scope 1

Scope 2 (location-based)

Scope 2 (market-based)

Scope 3 category 1: Purchased goods &amp; services

Scope 3 category 5: Waste generated in operations

Scope 3 category 7: Employee commuting

**Voluntary/Mandatory**

Voluntary



**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

0

**Payback period**

No payback

**Estimated lifetime of the initiative**

Ongoing

**Comment**

Multiple sites and functions (R&D, process development, manufacturing clinical supply, etc.) have established their own green teams. These green teams include representatives across the Amgen network who work together to develop strategies and implementation plans to increase energy efficiency and reduce carbon. For example, Amgen's San Francisco has built up an internal green team to identify ways that scientists can take action to become active contributors in minimizing the environmental impact of laboratory operations. The San Francisco green team cooperates with multiple functions related to sustainability, including external vendors like My Green Lab and JLL to identify the baseline for waste and energy utilization. Internally, the green team is working to coordinate with all members of the organization to implement sustainable practices, including our materials purchasing team and on-site delivery team to understand how packages are being delivered and how they can communicate with suppliers to source more sustainable packaging. They have also implemented a program to reuse packaging where possible for delivery between Amgen sites. In the labs, we are establishing roles and responsibilities for various lab members to assure each lab is consistent with sustainability activities. The green team has also developed sustainability training in Amgen's proprietary learning management system, which is complemented by an in-person orientation, and an employee handbook.

**C4.3c****(C4.3c) What methods do you use to drive investment in emissions reduction activities?**

Method	Comment
Other (Dedicated budget for energy efficiency; Dedicated budget for other emissions reduction activities; Internal finance mechanisms)	In 2020, we announced Amgen's commitment to invest more than \$200 million to achieve our 2027 environmental plan, including our commitment to achieve for carbon neutrality in our operations, as well as achieving our waste and water goals. This forecasted spend is independent from other company budgets and is associated with its own cost center and capital spend line item. Forecasted spend is tracked monthly.
Other (Dedicated budget for energy efficiency; Dedicated budget for low-carbon product R&D; Dedicated budget for other emissions reduction activities)	In February 2022, Amgen issued its inaugural \$750 million green bond, with a 3.00% semi-annual coupon and maturing in 2029, to advance our environmental goals (the "Green Bond"). Projects funded by the proceeds of such bond offering must meet certain sustainability criteria for eligibility. As of September 30, 2022, Amgen has allocated \$463 million of the net proceeds from our green bond towards eligible projects, or roughly 62% of the net proceeds total. Approved projects to date include eco-efficient operations and processes, such as Amgen Ecovation™ manufacturing processes at our Rhode Island and Thousand Oaks facilities, wastewater upgrades and water reuse technologies; electric vehicle infrastructure; and green building approaches and certifications. We have received an Independent Accountant's Report from Ernst & Young LLP providing assurance of management's assertion that \$463 million of the net proceeds from the green bond issuance were allocated to eligible projects.
Internal price on carbon	Amgen uses two forms of an internal price on carbon (IpoC) to encourage the design and implementation of projects that reduce energy use and carbon emissions. The first form of an IpoC is an Investment Evaluator used by our Investment Lifecycle Management group to evaluate the purchase of innovative and efficient equipment that support further reductions in carbon. For this evaluation, we apply an internal price of carbon of \$1,600 USD per metric ton (mt) of CO <sub>2</sub> e emissions. In other words, sustainability projects that cost more than traditional projects but are less \$1,600 per mt of CO <sub>2</sub> e emissions reduced are considered reasonable for design since they support Amgen's 2027 goal. Based on historical projects, we determined that approximately \$1600 /mt is required to drive innovative and energy efficiency scope into internal projects.  The second form of an IpoC is an Internal Fee. All Amgen Capital Projects over \$500K require a sustainability estimate of impact, including impact for carbon, waste and water. For projects that result in an increase in CO <sub>2</sub> e emissions by greater than 500 metric tons, we apply an internal fee of \$1,000 USD per metric ton. Proceeds from the internal carbon fee are then added to our overall environmental sustainability budget to fund additional reduction projects. This process enables Amgen to offset our growth and associated increase in carbon footprint using the proceeds from the sustainability fee. In 2022, no projects exceeded the carbon fee threshold. An example of a project to which an Internal Fee was applied in previous years was a utilities expansion project at Amgen's facility in Ireland, which resulted in a "fee" of \$700K.
Financial optimization calculations	For each capital project requiring approval, Amgen's Investment Lifecycle Management group calculates the associated Net Present Value. The sustainability attributes of the project are factored into the calculation even if the project isn't solely driven by sustainability and ultimately contribute to the decision-making process.
Employee engagement	Amgen has an environmental sustainability Ambassador program with representatives from different non-commercial facilities and functions and support from management. The Ambassador program provides a forum for Ambassador representatives to align so that the environmental sustainability is further integrated purposefully, cohesively and efficiently across the company, reinforcing culture, and making progress towards carbon and climate-related goals. The program provides the support and tools for Ambassadors to inspire, educate, and integrate best practices and embed sustainability culture with their teams; helps teams identify and collaboratively address barriers to achieving sustainability program objectives; promote and effective operations; and assure necessary resources are provided to support implementation of the sustainability program across the enterprise.
Internal incentives/recognition programs	For Earth Day 2022, Amgen launched our #HealthyPlanet Recognition Program. The program recognizes Amgen employees who go above and beyond to create programs and activities that support our sustainability goals. Employees can earn rewards from activities such as organizing van/carpools for staff coming to an Amgen site, implementing a sustainability policy for a department, or training employees to use equipment more efficiently in ways that measurably reduce energy, water, or waste for the Company. In 2022, we rewarded 241 staff members for their contributions. In addition, the #HealthyPlanet Recognition Program replaced an annual award competition, the Global Environmental Champions award, that had been in place for over ten years in favor of real-time recognition by peers to drive broader adoption of sustainability improvements. In the past, we would have seen 15-20 submissions for the annual award compared to over 240 in the first year of the new program.
Compliance with regulatory requirements/standards	Amgen has developed a database of current and impending global, EU, country-wide a local carbon and climate change regulations. This database identifies associated requirements, applicability to Amgen, roles and responsibilities and timelines to help maintain compliance. The database is enabling Amgen to plan and provide the resources needed to comply with these regulations and standards.

**C4.5****(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?**

No

**C5. Emissions methodology**

C5.1

**(C5.1) Is this your first year of reporting emissions data to CDP?**

No

C5.1a

**(C5.1a) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?**

**Row 1**

**Has there been a structural change?**

Yes, a divestment

**Name of organization(s) acquired, divested from, or merged with**

Amgen sold our shares in Gensenta, a subsidiary in Turkey, to Eczacıbaşı, resulting in the divestiture of two sites, Yenibosna and Sekerpinar.

**Details of structural change(s), including completion dates**

The divestiture took place on November 2, 2022 and resulted in the divestment of two sites which will result in an estimate change of 11,000 metrics ton CO2e.

C5.1b

**(C5.1b) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?**

	Change(s) in methodology, boundary, and/or reporting year definition?	Details of methodology, boundary, and/or reporting year definition change(s)
Row 1	Yes, a change in methodology	In 2022, our Scope 3 Upstream and Downstream underwent Limited Assurance by a 3rd party. In Scope 3 Category 3 Fuel and Energy Related Activities, Energy Attribute Credits (EACs) were not counted towards a reduction in carbon emissions. In Scope 3 Category 7 Employee Commuting, carbon emissions from teleworking were expanding to include cooling (A/C) at home. In Categories 1 and 2, carbon emissions were allocated to capital goods, more than 2021, based on spend category descriptors.

C5.1c

**(C5.1c) Have your organization's base year emissions and past years' emissions been recalculated as a result of any changes or errors reported in C5.1a and/or C5.1b?**

	Base year recalculation	Scope(s) recalculated	Base year emissions recalculation policy, including significance threshold	Past years' recalculation
Row 1	No, because the impact does not meet our significance threshold	<Not Applicable>	The divestiture identified in 5.1a do not meet our significance threshold.	No

C5.2

**(C5.2) Provide your base year and base year emissions.**

**Scope 1**

**Base year start**

January 1 2007

**Base year end**

December 31 2007

**Base year emissions (metric tons CO2e)**

144342

**Comment**

Scope 1 emissions in base year are composed of emissions from fuel combustion in onsite equipment, North American sales fleet vehicles and from executive air travel. Scope 1 emissions from fugitive emissions, such as from refrigerant losses and purchased/generated carbon dioxide, were not included in the base year 2007.

**Scope 2 (location-based)**

**Base year start**

January 1 2007

**Base year end**

December 31 2007

**Base year emissions (metric tons CO2e)**

289649

**Comment**

Scope 2 location-based emissions in base year are calculated using the average emissions intensity of grids on which our energy (purchased electricity and steam) occurred.

### Scope 2 (market-based)

**Base year start**

January 1 2007

**Base year end**

December 31 2007

**Base year emissions (metric tons CO2e)**

289649

**Comment**

Market-based emissions were not calculated for 2007, therefore location-based emissions are used as a proxy.

### Scope 3 category 1: Purchased goods and services

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

2323917

**Comment**

We used our spend data to determine emissions related to purchased goods and services using the Greenhouse Gas Protocol: Quantis Scope 3 Evaluator.

### Scope 3 category 2: Capital goods

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

258132

**Comment**

We used our spend data to determine emissions related to capital goods using the Greenhouse Gas Protocol: Quantis Scope 3 Evaluator.

### Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

52554

**Comment**

Facility fuel, electricity and steam consumption is obtained from suppliers. Fleet fuel consumption is obtained from pump purchases. For some international fleets, fuel usage is extrapolated based on known information. We then apply DEFRA well-to-tank and transmission and distribution emission factors to fuel and energy usage to determine Scope 3 emissions from Fuel-and-Energy-related activities.

### Scope 3 category 4: Upstream transportation and distribution

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

22572

**Comment**

We request supplier (transporter) specific information related to the transport of Amgen materials. Approximately 50 percent of emissions data reported was provided by our suppliers or value chain partners. The remaining 50 percent was calculated using activity data estimates.

### Scope 3 category 5: Waste generated in operations

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

3454

**Comment**

Amgen uses data obtained from vendors on the amount of waste generated at Amgen to calculate carbon from waste generated in operations.

### Scope 3 category 6: Business travel

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

56478

**Comment**

Emissions are calculated by Amgen's contracted travel management company using guidelines produced by DEFRA's GHG Conversion Factors. This method evaluates flights based on airport locations and calculates emissions based upon the actual distance flown. The following criteria are used to determine the factors used in the calculation: Total distance of a flight segment, based on origin and destination airports and class of flights (e.g., economy, premium economy, business).

### Scope 3 category 7: Employee commuting

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

56210

**Comment**

Carbon emissions from employee commuting are calculated using emissions factors from the Global Fuel Economy Initiative (GFEI) and multiplied by staff days worked and the distance driven (national daily averages).

### Scope 3 category 8: Upstream leased assets

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

A majority of emissions from upstream leased assets are included in our Scope 1 and Scope 2 data. Emissions from operation of upstream leases assets, not included in our Scope 1 and Scope 2 emissions, are determined to be <0.1% of our total CO2e emissions and are considered immaterial.

### Scope 3 category 9: Downstream transportation and distribution

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

52991

**Comment**

We analyzed our product distribution and determined downstream transportation emissions by estimating in-country miles traveled, truck utilization and fuel efficiency and then applied U.S. EPA Center For Corporate Climate Leadership Emission Factors for Greenhouse Gas Inventories (9 March 2018) emission factors for fuel consumption. Emissions from the storage of products were determined based on information from owned-distribution centers and then estimating proportional emission from storage of products in downstream distribution centers, pharmacies, hospitals, clinics, and nursing homes. In addition, we estimated the distance traveled by patients to and from pharmacies, hospitals and clinics based on units of product sold to determine emissions from patient travel.

### Scope 3 category 10: Processing of sold products

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Amgen products are typically not sold as an intermediate product. Additional processing is not required for our sold products.

### Scope 3 category 11: Use of sold products

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Emissions resulting from the use of our sold products is not a material source of greenhouse gas emissions (<0.1%).

### Scope 3 category 12: End of life treatment of sold products

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

3047

**Comment**

We retrieved the 2019 sales and delivery data for our operations globally, as well as the master packaging list in order to estimate total weight of our packaging material of our sold products. Packaging materials are conservatively assumed to be waste with the exception of a percentage of reusable shipment containers and pallets. Waste material fates are then assumed to be distributed equally (50/50) between incineration (without energy recovery) and landfill. DEFRA emission factors were used to calculate carbon dioxide emissions per metric ton of waste.

### Scope 3 category 13: Downstream leased assets

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Emissions from assets owned by Amgen and leased to another entity are <0.1% of Amgen's total CO2e emissions. Amgen does not typically own assets that are leased to another entity.

### Scope 3 category 14: Franchises

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Amgen does not operate Franchises.

### Scope 3 category 15: Investments

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Not relevant in reporting year 2019. In 2019 we did not have greenhouse gas emissions associated with investments. NOTE: In 2019, Amgen announced intentions to obtain an 20.5% equity share in BeiGene. Scope 3 emissions related to this investment have been reported in subsequent years.

### Scope 3: Other (upstream)

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Amgen did not have/report emissions in Scope 3: Other (upstream) in base year 2019.

### Scope 3: Other (downstream)

**Base year start**

January 1 2019

**Base year end**

December 31 2019

**Base year emissions (metric tons CO2e)**

0

**Comment**

Amgen did not have/report emissions in Scope 3: Other (downstream) in base year 2019.

## C5.3

---

### (C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019  
Energy Information Administration 1605(b)  
IEA CO2 Emissions from Fuel Combustion  
IPCC Guidelines for National Greenhouse Gas Inventories, 2006  
The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)  
The Greenhouse Gas Protocol: Scope 2 Guidance  
US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources  
US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources  
US EPA Emissions & Generation Resource Integrated Database (eGRID)  
Other, please specify (Global Fuel Economy Initiative (GFEI))

## C6. Emissions data

---

### C6.1

---

#### (C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

##### Reporting year

###### Gross global Scope 1 emissions (metric tons CO2e)

130291

###### Start date

January 1 2022

###### End date

December 31 2022

###### Comment

##### Past year 1

###### Gross global Scope 1 emissions (metric tons CO2e)

133084

###### Start date

January 1 2021

###### End date

December 31 2021

###### Comment

##### Past year 2

###### Gross global Scope 1 emissions (metric tons CO2e)

138957

###### Start date

January 1 2020

###### End date

December 31 2020

###### Comment

##### Past year 3

###### Gross global Scope 1 emissions (metric tons CO2e)

135954

###### Start date

January 1 2019

###### End date

December 31 2019

###### Comment

### C6.2

---

**(C6.2) Describe your organization's approach to reporting Scope 2 emissions.**

**Row 1**

**Scope 2, location-based**

We are reporting a Scope 2, location-based figure

**Scope 2, market-based**

We are reporting a Scope 2, market-based figure

**Comment**

We are reporting a location-based and market-based figure for CDP. Both location-based and market-based emissions are reported on Amgen.com <https://wwwext.amgen.com/responsibility/reporting-and-metrics/summary-of-data/>

**C6.3**

---

**(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?**

**Reporting year**

**Scope 2, location-based**

153212

**Scope 2, market-based (if applicable)**

35117

**Start date**

January 1 2022

**End date**

December 31 2022

**Comment**

**Past year 1**

**Scope 2, location-based**

155549

**Scope 2, market-based (if applicable)**

58137

**Start date**

January 1 2021

**End date**

December 31 2021

**Comment**

**Past year 2**

**Scope 2, location-based**

138529

**Scope 2, market-based (if applicable)**

136036

**Start date**

January 1 2020

**End date**

December 31 2020

**Comment**

**Past year 3**

**Scope 2, location-based**

173922

**Scope 2, market-based (if applicable)**

160360

**Start date**

January 1 2019

**End date**

December 31 2019

**Comment**

**C6.4**

---

**(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?**

No

**(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.****Purchased goods and services****Evaluation status**

Relevant, calculated

**Emissions in reporting year (metric tons CO<sub>2</sub>e)**

1760140

**Emissions calculation methodology**

Spend-based method

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

0

**Please explain**

We used the spend-based method to estimate carbon emissions related to our purchased goods and services. The Greenhouse Gas Protocol Quantis Scope 3 Evaluator is used to estimate carbon emissions from selected spend categories that are not already incorporated in other categories such as waste generated in operations, transportation and distribution, business travel, employee commuting, etc.

**Capital goods****Evaluation status**

Relevant, calculated

**Emissions in reporting year (metric tons CO<sub>2</sub>e)**

909175

**Emissions calculation methodology**

Spend-based method

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

0

**Please explain**

We used the spend-based method to estimate carbon emissions related to our capital goods. The Greenhouse Gas Protocol Quantis Scope 3 Evaluator is used to estimate carbon emissions.

**Fuel-and-energy-related activities (not included in Scope 1 or 2)****Evaluation status**

Relevant, calculated

**Emissions in reporting year (metric tons CO<sub>2</sub>e)**

76584

**Emissions calculation methodology**

Supplier-specific method

Average data method

Other, please specify

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

95

**Please explain**

Facility fuel, electricity, and steam consumption is obtained from suppliers. We then apply DEFRA well-to-tank and transmission and distribution emission factors to fuel and energy usage to estimate carbon emissions. Additional carbon emissions from fuel consumption of fleet vehicles and airplanes are also evaluated, using DEFRA well-to-tank and transmission and distribution emission factors. These are additional carbon emissions not accounted for in Scopes 1 and 2. Energy Attribute Certificates (EACs) do not count towards avoided carbon within Scope 3.

**Upstream transportation and distribution****Evaluation status**

Relevant, calculated

**Emissions in reporting year (metric tons CO<sub>2</sub>e)**

54548

**Emissions calculation methodology**

Supplier-specific method

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

100

**Please explain**

We requested supplier-specific carbon reports related to the transportation and distribution of Amgen materials and sold products via air freight, rail, ocean vessel, and road transport. We included our top 12 paid logistic providers to estimate carbon emissions, globally.



## Waste generated in operations

### Evaluation status

Relevant, calculated

### Emissions in reporting year (metric tons CO<sub>2</sub>e)

2368

### Emissions calculation methodology

Waste-type-specific method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

### Please explain

Amgen used data obtained from vendors on the amount of waste generated at facilities to calculate carbon from waste generated in operations. For fleet vehicles, fuel usage, electricity consumption, and vehicle miles travelled is used to estimate additional carbon. We then apply DEFRA well-to-tank and transmission and distribution emission factors to fuel and energy usage to determine Scope 3 emissions from Fuel-and-Energy-related activities.

## Business travel

### Evaluation status

Relevant, calculated

### Emissions in reporting year (metric tons CO<sub>2</sub>e)

31328

### Emissions calculation methodology

Supplier-specific method

Average data method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

65

### Please explain

We used information from our travel management company, rental car agencies, hotel overnight stays, and employee reimbursements for business travel to estimate carbon emissions, globally. Amgen's contracted travel management company uses DEFRA's GHG Conversion Factors to estimate carbon emissions from air and rail travel in their carbon reports. Carbon emissions from air travel is evaluated by total distance of a flight segment, which is based on origin and destination airports and class of flights (economy, premium economy, business, and first). Our rental car agencies provide total vehicle miles travelled and the IEA global average emission factor for passenger vehicles is used to estimate carbon emissions. Carbon emissions from overnight trips are based on reimbursement data which includes the number of nights stayed and location of the hotel. The DEFRA GHG Conversion Factors for Hotel Stays by country and room per night are used. Reimbursement data for business mileage from employees using personal vehicles are assessed and carbon emissions are calculated using emissions factors from the Global Fuel Economy Initiative (GFEI). Lastly, carbon emissions from taxi reimbursements and personal vehicle usage for business trips are assessed.

## Employee commuting

### Evaluation status

Relevant, calculated

### Emissions in reporting year (metric tons CO<sub>2</sub>e)

33623

### Emissions calculation methodology

Average data method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

5

### Please explain

Carbon emissions from employee commuting are calculated using emissions factors from the Global Fuel Economy Initiative (GFEI) and multiplied by staff days worked and the distance driven that is based on government data around the world. The total number of staff commuting to work is based on headcount data at the sites from unique badge check-ins, globally. Carbon emissions are also estimated from staff working from home, which includes carbon emissions from office equipment, heating, and cooling.

## Upstream leased assets

### Evaluation status

Not relevant, explanation provided

### Emissions in reporting year (metric tons CO<sub>2</sub>e)

<Not Applicable>

### Emissions calculation methodology

<Not Applicable>

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

### Please explain

Not applicable. Carbon emissions from leased assets (commercial offices) are incorporated in Scopes 1 and 2.

## Downstream transportation and distribution

### Evaluation status

Relevant, calculated

### Emissions in reporting year (metric tons CO2e)

317171

### Emissions calculation methodology

Average data method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

### Please explain

We analyzed our product distribution using global sales order and delivery data, mode of transportation, information on storage required for our products upstream in Amgen-owned distribution centers, and number of patients exposed to Amgen sold products.

First, we captured the total number of deliveries around the globe to estimate additional transportation and distribution of our sold products downstream. Amgen has no control of distribution of sold products downstream or information on additional transportation, distribution, or storage once our sold product arrives to the customer. The mode of transportation downstream, therefore, is assumed to be the same as Scope 3 Category 4 Upstream Transportation and Distribution using data from our paid logistic providers. Three modes of transport are primarily used at for shipment of our sold products: truck, ocean vessel, and air freight.

To estimate carbon emissions from truck deliveries, we estimate in-country miles traveled, truck utilization, and fuel efficiency and then applied U.S. EPA Center for Corporate Climate Leadership Emission Factors for Greenhouse Gas Inventories (April 1, 2022) emission factors for fuel consumption. To estimate carbon emissions from ocean vessel and air freight, we use DEFRA emission factors for freighting goods based average weight and transportation distance of our sold products.

Carbon emissions from downstream storage of Amgen's sold products are estimated using energy and refrigerant losses information from Amgen's warehouses. We assume an additional 50% of refrigeration will be required downstream and use the verified Scope 1 carbon emissions from Amgen's warehouses to estimate the additional carbon emissions downstream. Amgen's sold products are distributed downstream from our customers which includes distributors, retail pharmacies, sales partners, wholesalers, distributors hospitals, clinics, and nursing homes.

Lastly, we estimated the distance traveled by patients to/from pharmacies, hospitals, and clinics in personal passenger vehicles around the globe used government statistics for average commuter distances, age of vehicle, and fuel efficiency. The number of patients commuting is based on data that includes total patients exposed to Amgen's drug products.

## Processing of sold products

### Evaluation status

Not relevant, explanation provided

### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

### Emissions calculation methodology

<Not Applicable>

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

### Please explain

Not applicable. Amgen products are typically not sold as an intermediate product. Additional processing is not required for our sold products.

## Use of sold products

### Evaluation status

Not relevant, explanation provided

### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

### Emissions calculation methodology

<Not Applicable>

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

### Please explain

Not applicable. GHG emissions are not emitted during the use of Amgen's drug products.

## End of life treatment of sold products

### Evaluation status

Relevant, calculated

### Emissions in reporting year (metric tons CO2e)

794

### Emissions calculation methodology

Average data method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

### Please explain

Global packaging data for sales orders and site transfers is used to estimate the additional packaging waste that will be disposed downstream and associated carbon emissions. This data covers large shipments, but Amgen also ships samples for clinical trials. We use gross weight of packages to estimate total waste generated downstream at the end of life at hospitals, clinics, pharmacies, retailers, warehouses, distributors, nursing homes, etc. The DEFRA emission factor for commercial and industrial waste was used to estimate carbon emissions from waste generated downstream. Amgen's secondary packaging are > 80% recyclable by design. In practice, in hospitals and clinics, packaging might still be disposed as hazardous materials and packaging may not be recycled, so we assume a 50/50 split between incineration and landfill.

## Downstream leased assets

### Evaluation status

Not relevant, calculated

### Emissions in reporting year (metric tons CO2e)

0

### Emissions calculation methodology

Asset-specific method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

### Please explain

Not relevant. Emissions from assets owned by Amgen and leased to another entity are <0.1% of Amgen's total carbon emissions. Amgen does not typically own assets that are leased to another entity.

## Franchises

### Evaluation status

Not relevant, explanation provided

### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

### Emissions calculation methodology

<Not Applicable>

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

### Please explain

Amgen does not operate franchises.

## Investments

### Evaluation status

Relevant, calculated

### Emissions in reporting year (metric tons CO2e)

10000

### Emissions calculation methodology

Investment-specific method

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

### Please explain

As of December 31, 2021, our ownership interest in BeiGene was approximately 18.2%. Our Scope 3 emissions associated with our equity share were calculated based on BeiGene's reported Scope 1 and Scope 2 emissions from their 2021 ESG report. Additionally, our ownership interest in Neumora Therapeutics was 24.9%. However, no carbon ESG reports are available to estimate carbon emissions.

## Other (upstream)

### Evaluation status

Not relevant, explanation provided

### Emissions in reporting year (metric tons CO2e)

<Not Applicable>

### Emissions calculation methodology

<Not Applicable>

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

### Please explain

Not relevant. All carbon emissions are covered under Categories 1-15.

**Other (downstream)**

**Evaluation status**

Not relevant, explanation provided

**Emissions in reporting year (metric tons CO2e)**

<Not Applicable>

**Emissions calculation methodology**

<Not Applicable>

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

<Not Applicable>

**Please explain**

Not relevant. All carbon emissions are covered under Categories 1-15.

C6.5a

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**(C6.5a) Disclose or restate your Scope 3 emissions data for previous years.**

**Past year 1**

**Start date**

January 1 2021

**End date**

December 31 2021

**Scope 3: Purchased goods and services (metric tons CO2e)**

2570263

**Scope 3: Capital goods (metric tons CO2e)**

348135

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)**

44161

**Scope 3: Upstream transportation and distribution (metric tons CO2e)**

58576

**Scope 3: Waste generated in operations (metric tons CO2e)**

6339

**Scope 3: Business travel (metric tons CO2e)**

4153

**Scope 3: Employee commuting (metric tons CO2e)**

32843

**Scope 3: Upstream leased assets (metric tons CO2e)**

0

**Scope 3: Downstream transportation and distribution (metric tons CO2e)**

446206

**Scope 3: Processing of sold products (metric tons CO2e)**

0

**Scope 3: Use of sold products (metric tons CO2e)**

0

**Scope 3: End of life treatment of sold products (metric tons CO2e)**

2136

**Scope 3: Downstream leased assets (metric tons CO2e)**

0

**Scope 3: Franchises (metric tons CO2e)**

0

**Scope 3: Investments (metric tons CO2e)**

7013

**Scope 3: Other (upstream) (metric tons CO2e)**

0

**Scope 3: Other (downstream) (metric tons CO2e)**

0

**Comment**

**Past year 2**

**Start date**

January 1 2020

**End date**

December 31 2020

**Scope 3: Purchased goods and services (metric tons CO2e)**

2316146

**Scope 3: Capital goods (metric tons CO2e)**

210000

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)**

44784

**Scope 3: Upstream transportation and distribution (metric tons CO2e)**

21011

**Scope 3: Waste generated in operations (metric tons CO2e)**

7559

**Scope 3: Business travel (metric tons CO2e)**

13004

**Scope 3: Employee commuting (metric tons CO2e)**

14168

**Scope 3: Upstream leased assets (metric tons CO2e)**

0

**Scope 3: Downstream transportation and distribution (metric tons CO2e)**

134276

**Scope 3: Processing of sold products (metric tons CO2e)**

0

**Scope 3: Use of sold products (metric tons CO2e)**

0

**Scope 3: End of life treatment of sold products (metric tons CO2e)**

208

**Scope 3: Downstream leased assets (metric tons CO2e)**

0

**Scope 3: Franchises (metric tons CO2e)**

0

**Scope 3: Investments (metric tons CO2e)**

1850

**Scope 3: Other (upstream) (metric tons CO2e)**

0

**Scope 3: Other (downstream) (metric tons CO2e)**

0

**Comment**

**Past year 3**

**Start date**

January 1 2019

**End date**

December 31 2019

**Scope 3: Purchased goods and services (metric tons CO2e)**

2323917

**Scope 3: Capital goods (metric tons CO2e)**

258132

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)**

52554

**Scope 3: Upstream transportation and distribution (metric tons CO2e)**

22572

**Scope 3: Waste generated in operations (metric tons CO2e)**

3454

**Scope 3: Business travel (metric tons CO2e)**

56478

**Scope 3: Employee commuting (metric tons CO2e)**

56210

**Scope 3: Upstream leased assets (metric tons CO2e)**

0

**Scope 3: Downstream transportation and distribution (metric tons CO2e)**

52991

**Scope 3: Processing of sold products (metric tons CO2e)**

0

**Scope 3: Use of sold products (metric tons CO2e)**

0

**Scope 3: End of life treatment of sold products (metric tons CO2e)**

0

**Scope 3: Downstream leased assets (metric tons CO2e)**

0

**Scope 3: Franchises (metric tons CO2e)**

0

**Scope 3: Investments (metric tons CO2e)**

3047

**Scope 3: Other (upstream) (metric tons CO2e)**

0

**Scope 3: Other (downstream) (metric tons CO2e)**

0

**Comment**

C6.7

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**(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?**

No

C6.10

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(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

**Intensity figure**

0.00000629

**Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)**

165365

**Metric denominator**

unit total revenue

**Metric denominator: Unit total**

2632300000

**Scope 2 figure used**

Market-based

**% change from previous year**

15

**Direction of change**

Decreased

**Reason(s) for change**

Change in renewable energy consumption  
Other emissions reduction activities

**Please explain**

Energy efficiency and innovation projects described in C4.3b, and continued increase in renewable electricity procurement decreased scope 1 and scope 2 emissions.

## C7. Emissions breakdowns

### C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

### C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	124864	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	3.75	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	1.11	IPCC Fifth Assessment Report (AR5 – 100 year)
HFCs	2728	IPCC Fifth Assessment Report (AR5 – 100 year)

### C7.2

**(C7.2) Break down your total gross global Scope 1 emissions by country/area/region.**

Country/area/region	Scope 1 emissions (metric tons CO2e)
United States of America	55026.84
Puerto Rico	42603
Netherlands	518
United Kingdom of Great Britain and Northern Ireland	137.93
Ireland	4615.73
Turkey	3957.97
Brazil	267
Canada	1159.51
Singapore	1392.87
Other, please specify (International Air Space)	4033
Other, please specify (Sales Fleet - International (excludes U.S.))	13138
Other, please specify (Sales Fleet - U.S.)	16079
Algeria	2.8
Argentina	20.54
Australia	496.11
Austria	14.49
Belgium	196.01
Bulgaria	61.82
China	92.08
Colombia	40.32
Croatia	37.61
Czechia	96.78
Denmark	77.81
Egypt	6.3
Finland	114.25
France	909.94
Germany	1455.11
Greece	116.72
Hungary	215.73
Iceland	322.61
India	2.01
Israel	0.5
Italy	1335.68
Japan	2705.31
Jordan	0
Lebanon	0
Lithuania	0
Mexico	329.07
Morocco	2.6
Norway	4
Poland	270.44
Portugal	18.08
Romania	64.18
Russian Federation	561.69
Saudi Arabia	8.8
Slovakia	5.8
Slovenia	91.8
South Africa	6
Republic of Korea	46.47
Spain	1693.82
Sweden	43.09
Switzerland	47.3
Taiwan, China	20.9
Thailand	7.6
United Arab Emirates	7.8
Malaysia	0.4
Philippines	0.2

**C7.3**

**(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.**

- By facility
- By activity

**C7.3b**



**(C7.3b) Break down your total gross global Scope 1 emissions by business facility.**

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
West Greenwich, Rhode Island	16581	41.657301	-71.569281
Cambridge, Massachusetts	9	42.366826	-71.089727
Thousand Oaks, California	19871	34.191608	-118.920062
Louisville, Kentucky	185	38.20956	-85.533516
San Francisco, California	1826	37.663442	-122.392067
Juncos, Puerto Rico	42603	18.23702	-65.905113
Woburn, Massachusetts	0	42.50878	-71.13269
Dun Laoghaire, Ireland	4502	53.271119	-6.149951
Breda, Netherlands	517	51.588607	4.827929
Cambridge, United Kingdom	1	52.235541	0.142873
Uxbridge, United Kingdom	0	51.555846	-0.480252
Burnaby, British Columbia	633	49.255059	-122.931961
Sao Paulo, Brazil	262	-23.618546	-46.774746
Yenibosna, Turkey	1434	41.004486	28.821531
Sekerpinar, Turkey	492	40.853176	29.371495
Singapore, Singapore	1385	1.285921	103.626587
International air space	4033		
Sales Fleet - International (excludes U.S.)	13138		
Sales Fleet - U.S., only	16079		
Global Administrative Spaces	1712.1		

**C7.3c**

**(C7.3c) Break down your total gross global Scope 1 emissions by business activity.**

Activity	Scope 1 emissions (metric tons CO2e)
Natural gas used in boilers and furnaces	47332
Diesel used in cogeneration turbine, boilers, generators	42895.39
Propane used in boilers	75.41
Jet fuel used for executive travel	4033
Gasoline used by Sales Fleet vehicles	18561
Diesel used by Sales Fleet vehicles	10656
Alternative fuels used by Sales Fleet vehicles (e.g., ethanol)	0
Fugitive (refrigerant loss)	2728
CO2 emitted from manufacturing and wastewater treatment	360
CO2 purchased and cell respiration	2300

**C7.5**

**(C7.5) Break down your total gross global Scope 2 emissions by country/area/region.**

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America	58594	2898
Puerto Rico	70163	27888
Netherlands	2157	88
United Kingdom of Great Britain and Northern Ireland	188.04	30.51
Canada	65.22	65.22
Ireland	7556.74	13.52
Singapore	6030	77
Brazil	555	6
Turkey	3879.45	27.96
China	706.22	706.22
Algeria	16.9	16.9
Argentina	93.88	93.88
Australia	59.9	59.9
Austria	16.2	16.2
Belgium	71.63	71.63
Bulgaria	25.8	25.8
Colombia	31.5	31.5
Croatia	3.5	3.5
Czechia	63.9	63.9
Denmark	121.28	121.28
Egypt	38.8	38.8
Finland	11.6	11.6
France	27.8	27.8
Germany	1160.88	1160.88
Greece	108	108
Hungary	18.9	18.9
Iceland	1.1	1.1
India	15.8	15.8
Israel	2.7	2.7
Italy	99.2	99.2
Japan	235.6	235.6
Jordan	0	0
Lebanon	0	0
Lithuania	0	0
Mexico	78.5	78.5
Morocco	21.9	21.9
Norway	3.7	3.7
Poland	118.15	118.15
Portugal	52.6	52.6
Republic of Korea	269.6	269.6
Romania	38.9	38.9
Russian Federation	79.37	79.37
Saudi Arabia	66.3	66.3
Slovakia	9.9	9.9
Slovenia	14.3	14.3
South Africa	68.8	68.8
Spain	39.6	39.6
Sweden	8.5	8.5
Switzerland	14.1	14.1
Taiwan, China	142.2	142.2
Thailand	43.6	43.6
United Arab Emirates	48	48
Malaysia	3.1	3.1
Philippines	1.8	1.8

**C7.6**

**(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.**

- By facility
- By activity

**C7.6b**

**(C7.6b) Break down your total gross global Scope 2 emissions by business facility.**

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Cambridge, Massachusetts	9268	324
Thousand Oaks, California	28222	0
San Francisco, California	2705	28
West Greenwich, Rhode Island	13788	0
Louisville, Kentucky	2065	0
Dun Laoghaire, Ireland	7543	0
Breda, Netherlands	2069	0
Cambridge, United Kingdom	158	0
Juncos, Puerto Rico	70163	27888
Burnaby, British Columbia	19	19
Sao Paulo, Brazil	555	6
Yenibosna, Turkey	3520	0
Sekerpinar, Turkey	332	0
Singapore, Singapore	5993	39
Admin Spaces	6269	6269
Electricity for sales fleet charging	543	543

**C7.6c**

**(C7.6c) Break down your total gross global Scope 2 emissions by business activity.**

Activity	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Electricity used for lighting and power	147002	34281
Purchased steam used for heating and cooling	5698	324.35
Electricity used for sales fleet	543	543

**C7.7**

**(C7.7) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?**

Not relevant as we do not have any subsidiaries

**C7.9**

**(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?**

Decreased

**C7.9a**

**(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.**

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	40121	Decreased	36	A decrease of 112,721 metric tons CO2e was achieved in 2022, from 72,600 metric tons CO2e in 2021, a difference of 40,121 or 36%. This was due to an increase in the purchase of unbundled renewable energy certifications for a majority of our North American operations and a new green tariff in the Netherlands.
Other emissions reduction activities	2194	Decreased	39	Emission reduction initiatives resulted in a decrease of 5,664 metric tons metric tons CO2e in 2021 and 7,858 metric tons CO2e in 2022, a difference of 2,194 metric tons CO2e or 39%, due to the implementation of energy reduction projects described in section C4.3b, including but not limited to energy efficiency in production processes, site consolidation, LED lighting updates and changes in behaviors.
Divestment	11000	Decreased	4	Divestiture of Gensenta İlaç Sanayi ve Ticaret A.Ş.
Acquisitions	0	No change	0	Acquisitions did not impact carbon increases or reductions in the reporting year.
Mergers	0	No change	0	no change
Change in output	8785	Decreased	38	Reduction in operations of the cogeneration system due to equipment malfunction.
Change in methodology	543	Increased	0	Scope 2 emissions associated with electric vehicle charging stations were included in the scope 2 emissions calculations starting in 2022.
Change in boundary	0	No change	0	
Change in physical operating conditions	0	No change	0	
Unidentified	0	No change	0	
Other	0	No change	0	

## C7.9b

**(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?**

Market-based

## C8. Energy

### C8.1

**(C8.1) What percentage of your total operational spend in the reporting year was on energy?**

More than 0% but less than or equal to 5%

### C8.2

**(C8.2) Select which energy-related activities your organization has undertaken.**

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	Yes
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

### C8.2a

**(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.**

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	587594	587594
Consumption of purchased or acquired electricity	<Not Applicable>	317335	74330	391665
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	0	25161	25161
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	28	<Not Applicable>	28
Total energy consumption	<Not Applicable>	317360	687084	1004447

**C8.2b**

**(C8.2b) Select the applications of your organization's consumption of fuel.**

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of heat	Yes
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	Yes

**C8.2c**

**(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.**

**Sustainable biomass**

**Heating value**

Please select

**Total fuel MWh consumed by the organization**

0

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

0

**MWh fuel consumed for self-generation of steam**

<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

0

**Comment**

Not applicable

**Other biomass**

**Heating value**

Please select

**Total fuel MWh consumed by the organization**

0

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

0

**MWh fuel consumed for self-generation of steam**

<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

**Comment**

Not applicable

**Other renewable fuels (e.g. renewable hydrogen)**

**Heating value**

Please select

**Total fuel MWh consumed by the organization**

0

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

0

**MWh fuel consumed for self-generation of steam**

<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

0

**Comment**

Not applicable

**Coal**

**Heating value**

**Total fuel MWh consumed by the organization**

**MWh fuel consumed for self-generation of electricity**

**MWh fuel consumed for self-generation of heat**

**MWh fuel consumed for self-generation of steam**

<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

**Comment**

Not applicable

**Oil**

**Heating value**

HHV

**Total fuel MWh consumed by the organization**

208579

**MWh fuel consumed for self-generation of electricity**

13806

**MWh fuel consumed for self-generation of heat**

39258

**MWh fuel consumed for self-generation of steam**

<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

155515

**Comment**

A majority of fuel oil is consumed at our manufacturing facility in Juncos, Puerto Rico in its cogeneration plant. The associated fuel consumed for the generation of steam and electricity has been included in co-generation. The amount of fuel listed above for self-generation of electricity was generated by Amgen's backup generators. In accordance with C8.2c Guidance, energy from the consumption of diesel fuel in our sales fleet (i.e., transportation) is reported as self-generation of heat.

**Gas****Heating value**

HHV

**Total fuel MWh consumed by the organization**

267898

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

267898

**MWh fuel consumed for self-generation of steam**

&lt;Not Applicable&gt;

**MWh fuel consumed for self-generation of cooling**

&lt;Not Applicable&gt;

**MWh fuel consumed for self- cogeneration or self-trigeneration**

0

**Comment**

Gas includes natural gas and propane. A majority of natural gas consumption is at our North American facilities, therefore the higher heating value is used.

**Other non-renewable fuels (e.g. non-renewable hydrogen)****Heating value**

HHV

**Total fuel MWh consumed by the organization**

94467

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

94467

**MWh fuel consumed for self-generation of steam**

&lt;Not Applicable&gt;

**MWh fuel consumed for self-generation of cooling**

&lt;Not Applicable&gt;

**MWh fuel consumed for self- cogeneration or self-trigeneration**

0

**Comment**

Motor gasoline, ethanol and jet-kerosene are included. In accordance with C8.2c Guidance, energy from the consumption of fuels for transportation (sales fleet and executive travel) are included in the generation of heat column.

**Total fuel****Heating value**

HHV

**Total fuel MWh consumed by the organization**

570944

**MWh fuel consumed for self-generation of electricity**

13806

**MWh fuel consumed for self-generation of heat**

401623

**MWh fuel consumed for self-generation of steam**

&lt;Not Applicable&gt;

**MWh fuel consumed for self-generation of cooling**

&lt;Not Applicable&gt;

**MWh fuel consumed for self- cogeneration or self-trigeneration**

155515

**Comment****C8.2d**

(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	3113	3113	28	0
Heat	0	0	0	0
Steam	152403	152403	0	0
Cooling	0	0	0	0

---

**(C8.2e) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero or near-zero emission factor in the market-based Scope 2 figure reported in C6.3.**

**Country/area of low-carbon energy consumption**

United States of America

**Sourcing method**

Unbundled procurement of energy attribute certificates (EACs)

**Energy carrier**

Electricity

**Low-carbon technology type**

Wind

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

252000

**Tracking instrument used**

US-REC

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Unbundled renewable energy certificates generated from wind projects in the United States.

---

**Country/area of low-carbon energy consumption**

Ireland

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Sources not specified in the contract.)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

25580

**Tracking instrument used**

Contract

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

Ireland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Renewable electricity is provided by local Utility via a Green Power Purchase Agreement.

---

**Country/area of low-carbon energy consumption**

Turkey

**Sourcing method**

Unbundled procurement of energy attribute certificates (EACs)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Wind, solar)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

8896

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

Turkey

**Are you able to report the commissioning or re-powering year of the energy generation facility?**



Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Renewable energy certificates generated from Wind and Solar projects.

---

**Country/area of low-carbon energy consumption**

United States of America

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Approximately 98 percent of energy mix is provided from renewable sources (e.g., solar, wind, large hydro).)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

11174

**Tracking instrument used**

Contract

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Renewable electricity is provided by local Communicate Choice Aggregate for our San Francisco facility.

---

**Country/area of low-carbon energy consumption**

Brazil

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Utility provides 100 percent renewable electricity, with 20 percent provided by biomass.)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

5320

**Tracking instrument used**

Contract

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Contract with local utility for 100 percent renewable electricity. Contract states that 20 percent of renewable electricity is provided by biomass.

---

**Country/area of low-carbon energy consumption**

Netherlands

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Wind, solar)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

3856

**Tracking instrument used**

Contract

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

Netherlands

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

---

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Contract with local utility for 100 percent renewable electricity.

---

**Country/area of low-carbon energy consumption**

Canada

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (97% hydropower and 3% unspecified renewables)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

2648

**Tracking instrument used**

Contract

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

Canada

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Renewable electricity is provided by local Utility via a Green Power Purchase Agreement.

---

**Country/area of low-carbon energy consumption**

Singapore

**Sourcing method**

Unbundled procurement of energy attribute certificates (EACs)

**Energy carrier**

Electricity

**Low-carbon technology type**

Solar

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

5300

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

Singapore

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Renewable energy certificates generated from Singapore Rooftop Solar projects.

---

**Country/area of low-carbon energy consumption**

United Kingdom of Great Britain and Northern Ireland

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Utility Offering: Renewable Standard - 100% renewable electricity from a blend of generation sources)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

815

**Tracking instrument used**

Contract

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

United Kingdom of Great Britain and Northern Ireland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

---

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Renewable electricity is provided by local Utility via a Green Power Purchase Agreement.

---

**Country/area of low-carbon energy consumption**

Netherlands

**Sourcing method**

Unbundled procurement of energy attribute certificates (EACs)

**Energy carrier**

Electricity

**Low-carbon technology type**

Renewable energy mix, please specify (Wind, solar)

**Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)**

1746

**Tracking instrument used**

GO

**Country/area of origin (generation) of the low-carbon energy or energy attribute**

Netherlands

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2022

**Comment**

Unbundled renewable energy certificates generated from Wind and Solar projects in the Netherlands

---

## C8.2g

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**(C8.2g) Provide a breakdown by country/area of your non-fuel energy consumption in the reporting year.**

**Country/area**

Brazil

**Consumption of purchased electricity (MWh)**

5320

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

<Not Applicable>

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

5320

---

**Country/area**

Canada

**Consumption of purchased electricity (MWh)**

2647

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

<Not Applicable>

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

2647

---

**Country/area**

Ireland

---

**Consumption of purchased electricity (MWh)**

25580

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

<Not Applicable>

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

25580

---

**Country/area**

Netherlands

**Consumption of purchased electricity (MWh)**

5602

**Consumption of self-generated electricity (MWh)**

28

**Is this electricity consumption excluded from your RE100 commitment?**

<Not Applicable>

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

5630

---

**Country/area**

Puerto Rico

**Consumption of purchased electricity (MWh)**

59601

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

<Not Applicable>

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

59601

---

**Country/area**

Singapore

**Consumption of purchased electricity (MWh)**

5300

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

<Not Applicable>

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

5300

---

**Country/area**

Turkey

**Consumption of purchased electricity (MWh)**

8896

**Consumption of self-generated electricity (MWh)**

0

---

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

8896

---

Country/area

United Kingdom of Great Britain and Northern Ireland

Consumption of purchased electricity (MWh)

815

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

815

---

Country/area

United States of America

Consumption of purchased electricity (MWh)

203573

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

203573

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## C9. Additional metrics

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### C9.1

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(C9.1) Provide any additional climate-related metrics relevant to your business.

**Description**

Other, please specify (not applicable)

**Metric value**

**Metric numerator**

not applicable

**Metric denominator (intensity metric only)**

not applicable

**% change from previous year**

0

**Direction of change**

No change

**Please explain**

not applicable

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## C10. Verification

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### C10.1

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**(C10.1) Indicate the verification/assurance status that applies to your reported emissions.**

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

### C10.1a

---

**(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.**

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Reasonable assurance

**Attach the statement**

Amgen ES Assurance Statement 2022 Final Rev 2.pdf

**Page/ section reference**

Page 4

**Relevant standard**

ISO14064-3

**Proportion of reported emissions verified (%)**

100

---

### C10.1b

---

**(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.**

**Scope 2 approach**

Scope 2 location-based

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Reasonable assurance

**Attach the statement**

Amgen ES Assurance Statement 2022 Final Rev 2.pdf

**Page/ section reference**

Page 4

**Relevant standard**

ISO14064-3

**Proportion of reported emissions verified (%)**

100

---

**Scope 2 approach**

Scope 2 market-based

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Reasonable assurance

**Attach the statement**

Amgen ES Assurance Statement 2022 Final Rev 2.pdf

**Page/ section reference**

Page 4

**Relevant standard**

ISO14064-3

**Proportion of reported emissions verified (%)**

100

---

**C10.1c**

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**(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.**

**Scope 3 category**

Scope 3: Purchased goods and services

Scope 3: Capital goods

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)

Scope 3: Upstream transportation and distribution

Scope 3: Waste generated in operations

Scope 3: Business travel

Scope 3: Employee commuting

Scope 3: Downstream transportation and distribution

Scope 3: End-of-life treatment of sold products

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Limited assurance

**Attach the statement**

Amgen ES Assurance Statement 2022 Final Rev 2.pdf

**Page/section reference**

Page 4

**Relevant standard**

ISO14064-3

**Proportion of reported emissions verified (%)**

100

---

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

Yes

C10.2a

(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C6. Emissions data	Emissions reduction activities	Our third-party verifier performed work in accordance with their standard procedures and guidelines for external Assurance of Sustainability Reports and International Standard on Assurance Engagements (ISAE) 3000 Revised, Assurance Engagements Other than Audits or Reviews of Historical Financial Information (effective for assurance reports dated on or after Dec. 15, 2015), issued by the International Auditing and Assurance Standards Board. A materiality threshold of ±5-percent was set for the assurance process.	Amgen engaged with a third-party verifier to provide limited assurance of its methodology for determining the avoided GHG emissions associated with cogeneration system (CoGen) installed at the Amgen facility located in Juncos, Puerto Rico Cogen Assurance Statement.pdf

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

Yes

C11.1a

(C11.1a) Select the carbon pricing regulation(s) which impacts your operations.

- BC carbon tax
- California CaT - ETS
- Ireland carbon tax
- Other carbon tax, please specify (UK Climate Change Levy)

C11.1b



(C11.1b) Complete the following table for each of the emissions trading schemes you are regulated by.

**California CaT - ETS**

**% of Scope 1 emissions covered by the ETS**

0

**% of Scope 2 emissions covered by the ETS**

0

**Period start date**

January 1 2022

**Period end date**

December 31 2022

**Allowances allocated**

8768

**Allowances purchased**

0

**Verified Scope 1 emissions in metric tons CO2e**

19871

**Verified Scope 2 emissions in metric tons CO2e**

0

**Details of ownership**

Facilities we own and operate

**Comment**

Currently, Amgen's facility located in Thousand Oaks, California, is deemed a General Market Participant - Previously Covered under the California Air Resources Board (CARB) Cap-and-Trade Program. Please note that the reported allowances were allocated in the Year 2014 as compliance instruments and have not been sold or exchanged and hence, still remain in our active account balance. A General Market Participant is defined by the regulation as an organization which does not meet the requirements of a Covered Entity or an Opt-in Covered Entity and that intends to purchase, hold, sell, or voluntarily retire compliance instruments.

C11.1c

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(C11.1c) Complete the following table for each of the tax systems you are regulated by.

**BC carbon tax**

**Period start date**

January 1 2022

**Period end date**

December 31 2022

**% of total Scope 1 emissions covered by tax**

100

**Total cost of tax paid**

28429.95

**Comment**

Carbon Tax applied to natural gas consumption at our Burnaby, British Columbia facility in Canada.

**Ireland carbon tax**

**Period start date**

January 1 2022

**Period end date**

December 31 2022

**% of total Scope 1 emissions covered by tax**

100

**Total cost of tax paid**

148443.61

**Comment**

Carbon Tax applied to natural gas consumption at our Dun Laoghaire facility

**Other carbon tax, please specify**

**Period start date**

January 1 2022

**Period end date**

December 31 2022

**% of total Scope 1 emissions covered by tax**

0

**Total cost of tax paid**

6315.21

**Comment**

Climate Change Levy applied to electricity consumption at our Cambridge facility in Great Britain. Note fees are in pound sterling.

**C11.1d**

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(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

Amgen has developed a database of current and impending global, EU, country-wide a local carbon and climate change regulations. This database identifies associated requirements, applicability to Amgen, roles and responsibilities and timelines to help maintain compliance. Amgen is also participating in multiple industry-specific task groups that focus on tracking and addressing climate-related regulations.

**C11.2**

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(C11.2) Has your organization canceled any project-based carbon credits within the reporting year?

No

**C11.3**

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(C11.3) Does your organization use an internal price on carbon?

Yes

**C11.3a**

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(C11.3a) Provide details of how your organization uses an internal price on carbon.

**Type of internal carbon price**

---

Other, please specify (Investment Evaluator)

**How the price is determined**

Cost of required measures to achieve emissions reduction targets

**Objective(s) for implementing this internal carbon price**

Change internal behavior  
Drive energy efficiency  
Drive low-carbon investment

**Scope(s) covered**

Scope 1  
Scope 2

**Pricing approach used – spatial variance**

Uniform

**Pricing approach used – temporal variance**

Evolutionary

**Indicate how you expect the price to change over time**

Our current approach is to apply a uniform price to all geographies, business units and types of decisions. Our internal price of carbon is based on Scope 1 and Scope 2 (location-based emissions) and is expected to evolve over time.

Our internal price of carbon is expected to evolve over time.

**Actual price(s) used – minimum (currency as specified in C0.4 per metric ton CO2e)**

1600

**Actual price(s) used – maximum (currency as specified in C0.4 per metric ton CO2e)**

1600

**Business decision-making processes this internal carbon price is applied to**

Capital expenditure

**Mandatory enforcement of this internal carbon price within these business decision-making processes**

Yes, for all decision-making processes

**Explain how this internal carbon price has contributed to the implementation of your organization's climate commitments and/or climate transition plan**

We apply an internal price of carbon (IPoC) of \$1,600 USD per metric ton of CO2e emissions for capital projects to offset potential price differentials associated with energy-efficient equipment and projects. Based on historical experience, we determined that an internal carbon price of approximately \$1600 /mt is at a level to encourage innovation and energy efficiency for internal projects..

Our Investment Lifecycle Management (ILM) group conducts monthly meetings with senior management to review projects and obtain funding approval for capital purchases (that are not limited to sustainability projects). Capital projects seeking funding must include an environmental sustainability assessment in their funding request. Part of the environmental sustainability assessment is to calculate anticipated carbon emissions and then apply our IPoC to evaluate the purchase of innovative and efficient equipment that support further reductions in carbon.

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**Type of internal carbon price**

Internal fee

**How the price is determined**

Cost of required measures to achieve emissions reduction targets

**Objective(s) for implementing this internal carbon price**

Change internal behavior  
Drive energy efficiency

**Scope(s) covered**

Scope 1  
Scope 2

**Pricing approach used – spatial variance**

Uniform

**Pricing approach used – temporal variance**

Evolutionary

**Indicate how you expect the price to change over time**

Uniform pricing: Our current approach is to apply a uniform price to all geographies, business units and types of decisions. Our internal price of carbon is based on Scope 1 and Scope 2 (location-based emissions) and is expected to evolve over time.

Our internal price of carbon is expected to evolve over time.

**Actual price(s) used – minimum (currency as specified in C0.4 per metric ton CO2e)**

1000

**Actual price(s) used – maximum (currency as specified in C0.4 per metric ton CO2e)**

1000

**Business decision-making processes this internal carbon price is applied to**

Capital expenditure

**Mandatory enforcement of this internal carbon price within these business decision-making processes**

Yes, for some decision-making processes, please specify (For capital projects of over \$500K that result in an increase in CO2e emissions by greater than 500 metric tons, we apply an internal fee. )

**Explain how this internal carbon price has contributed to the implementation of your organization's climate commitments and/or climate transition plan**

For capital projects of over \$500K that result in an increase in CO2e emissions by greater than 500 metric tons, we apply an internal fee. Proceeds are then added to our

overall Environmental Sustainability Budget to fund reduction projects. Example: Our facility in Ireland executed a manufacturing expansion project that increased our carbon footprint by an estimated 734 metric tons. \$734,000 was therefore paid as an internal carbon fee to account for associated carbon emissions. This fee is being applied to fund sustainability projects such as on-site solar generation.

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## C12. Engagement

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### C12.1

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#### (C12.1) Do you engage with your value chain on climate-related issues?

- Yes, our suppliers
- Yes, our customers/clients
- Yes, other partners in the value chain

### C12.1a

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#### (C12.1a) Provide details of your climate-related supplier engagement strategy.

##### Type of engagement

Innovation & collaboration (changing markets)

##### Details of engagement

Collaborate with suppliers on innovative business models to source renewable energy

##### % of suppliers by number

2

##### % total procurement spend (direct and indirect)

73

##### % of supplier-related Scope 3 emissions as reported in C6.5

67

##### Rationale for the coverage of your engagement

Amgen's global network of suppliers is important to our ability to provide high-quality medicines reliably and efficiently; it also represents an opportunity to positively impact the communities and environments in which we operate. More than 90% of our GHG emissions come from our value chain, including suppliers, contract manufacturers, and distributors. The 73% of our suppliers by spend represents approximately 67% of our Scope 3 emissions. Recognizing the importance of our relationships with suppliers to achieve our mission, we have a Supplier Sustainability Program that is designed to monitor our suppliers' sustainability performance against a wide range of sustainability and Corporate Social Responsibility considerations, including as business ethics, labor and human rights, and environmental impacts, as outlined in our Supplier Code of Conduct. Amgen considers a number of factors including spend, business criticality. To track our key suppliers' carbon reduction activities, we are working with EcoVadis, the world's largest provider of business sustainability ratings.

Note Amgen also performs "Information collection (understanding supplier behavior)" and "Engagement & incentivization (changing supplier behavior)". Details of the engagement activities include: Collect climate change and carbon information at least annually from suppliers; Run an engagement campaign to educate suppliers about climate change; Provide training, support, and best practices on how to make credible renewable energy usage claims.

##### Impact of engagement, including measures of success

In 2022, we incorporated sustainability requirements into our procurement and supplier selection processes. Our SBTi Scope 3 supplier engagement target commits Amgen to engage with 73% of our suppliers by spend in key categories to assist and support their adoption of science-based targets by 2027. This engagement would cover suppliers responsible for approximately 67% of our Scope 3 emissions, as measured in 2019. All suppliers are required to adhere to our Supplier Code of Conduct, which includes reducing their environmental footprint through minimizing their use of natural resources and the environmental impact of their activities. The Supplier Sustainability Performance Assessment, conducted by an independent third party, provides the basis for increased understanding of suppliers' performance across a wide range of issues, including management of carbon emissions, while ensuring that these key suppliers are aware of our performance expectations. As of December 31, 2022, 45% of our targeted suppliers by spend had set science-based targets. To address the remaining Scope 3 emissions, we are continuing to engage with our suppliers and working to identify additional project-based opportunities in other categories, including business travel, employee commuting and transportation and distribution of our sold products.

##### Comment

In 2022, we established an enterprise-wide framework to work toward reducing carbon emissions from our value chain. Our first step was to look holistically across our value chain for priority areas and we identified purchased goods and services and capital goods as our Scope 3 focus. Next, we established a SBTi Scope 3 supplier engagement commitment. We are working through our supplier sustainability program and with others in our sector to encourage, educate, and support suppliers in setting reduction targets. This includes providing training tools and collaboration alliances to help encourage our suppliers to reduce their carbon emissions. We have also joined the Energize Program, which aims to accelerate the adoption of renewable energy and reduce GHG emissions among pharmaceutical suppliers. This first-of-its-kind industry program will train pharmaceutical suppliers on renewable energy adoption and increase access to renewable energy sourcing. This gives suppliers – who may not otherwise have the internal resources or expertise available – the opportunity to participate in the market for power purchase agreements (PPAs). We also continue to participate in the Pharmaceutical Supply Chain Initiative (PSCI) to promote responsible supply chain management and better business conditions across the industry. Through our involvement with the Responsible Health Initiative, a life science-specific forum established by EcoVadis, we are working to strengthen the sector's approach to supply chain management with a specific focus on environmental and social sustainability.

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### C12.1b

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**(C12.1b) Give details of your climate-related engagement strategy with your customers.**

**Type of engagement & Details of engagement**

Education/information sharing	Run an engagement campaign to educate customers about the climate change impacts of (using) your products, goods, and/or services
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**% of customers by number**

0

**% of customer - related Scope 3 emissions as reported in C6.5**

0

**Please explain the rationale for selecting this group of customers and scope of engagement**

Amgen recognizes the connection between environmental stresses and health as reported by the World Health Organization. In 2022, Amgen sponsored our second virtual Expert Voices roundtable with leading national news outlet Axios to hear how stakeholders, including customers, are addressing health challenges related to climate change, and to better understand how Amgen can collaborate to make an impact. The conversation evolved to focus on scalable solutions at the national and local level, all while keeping an eye towards solutions that benefit patients with respiratory diseases who are often most vulnerable.

**Impact of engagement, including measures of success**

Amgen is committed to working with our partners and customer to help patients live healthier lives, now and in the face of climate change. A community-based approach is imperative to developing successful solutions to address climate change.

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**C12.1d**

**(C12.1d) Give details of your climate-related engagement strategy with other partners in the value chain.**

As described elsewhere in this report, Amgen is working with our other leading biotechnology and pharmaceutical companies to support the decarbonization of the pharmaceutical value supply chain through multiple forums. For example, Amgen joined Schneider Electric's Energize program, which aims to accelerate the adoption of renewable energy and reduce greenhouse gas emissions among pharmaceutical suppliers. This program educates pharmaceutical suppliers on renewable energy adoption and helps to increase access to renewable energy sourcing. This gives suppliers – who may not otherwise have the internal resources or expertise available – the opportunity to participate in the market for power purchase agreements of renewable energy.

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**C12.2**

**(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process?**

Yes, climate-related requirements are included in our supplier contracts

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**C12.2a**

**(C12.2a) Provide details of the climate-related requirements that suppliers have to meet as part of your organization's purchasing process and the compliance mechanisms in place.**

**Climate-related requirement**

Implementation of emissions reduction initiatives

**Description of this climate related requirement**

We require that suppliers comply with all applicable environmental regulations, laws, codes, and other governmental requirements and authorizations. Suppliers must obtain and follow all associated operational and reporting requirements of required environmental permits, licenses, information registrations and restrictions. All suppliers are required to adhere to our Supplier Code of Conduct, which includes reducing their environmental footprint through minimizing their use of natural resources and the environmental impact of their activities.

**% suppliers by procurement spend that have to comply with this climate-related requirement**

100

**% suppliers by procurement spend in compliance with this climate-related requirement**

100

**Mechanisms for monitoring compliance with this climate-related requirement**

Supplier self-assessment  
Supplier scorecard or rating

**Response to supplier non-compliance with this climate-related requirement**

Exclude

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**Climate-related requirement**

Setting a science-based emissions reduction target

**Description of this climate related requirement**

We have set a SBTi Scope 3 supplier engagement target to engage with 73% of our suppliers by spend in key categories to assist and support their adoption of science-based targets by 2027. This would represent suppliers responsible for approximately 67% of our Scope 3 emissions. All suppliers are required to adhere to our Supplier Code of Conduct, which includes reducing their environmental footprint through minimizing their use of natural resources and the environmental impact of their activities.

**% suppliers by procurement spend that have to comply with this climate-related requirement**

73

**% suppliers by procurement spend in compliance with this climate-related requirement**

45

**Mechanisms for monitoring compliance with this climate-related requirement**

Supplier self-assessment  
Supplier scorecard or rating  
Other, please specify (Participation in Energize)

**Response to supplier non-compliance with this climate-related requirement**

Retain and engage

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**C12.3**

**(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?**

**Row 1**

**External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the climate**

Yes, our membership of/engagement with trade associations could influence policy, law, or regulation that may impact the climate  
Yes, we fund organizations or individuals whose activities could influence policy, law, or regulation that may impact the climate

**Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?**

Yes

**Attach commitment or position statement(s)**

Amgen To Achieve Carbon Neutrality By 2027\_ Amgen.pdf

**Describe the process(es) your organization has in place to ensure that your external engagement activities are consistent with your climate commitments and/or climate transition plan**

With our commitment to align our GHG emissions reduction goals in line with a 1.5°C future, Amgen has set carbon neutrality and supplier engagement targets that have been approved by the Science Based Targets initiative (SBTi) in August 2022. More generally, we have engaged consistently in broad, direct, governance-focused stockholder outreach since 2011. We consistently monitor and proactively solicit our investor's perspectives on Environment, Social, and Governance practices, including carbon neutrality, and share such perspectives with our Board. While we do not directly lobby for climate change, we believe we influence lawmakers and regulators by transparently setting, communicating, and delivering on ambitious environmental goals. We also provide support to organizations whose activities may influence policy, law, or regulation that may impact the climate. Given the wide range of issues addressed by these organizations, our positions will not always align entirely with those of the trade or industry organizations to which we belong.

**Primary reason for not engaging in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate**

<Not Applicable>

**Explain why your organization does not engage in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate**

<Not Applicable>

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**C12.3b**

**(C12.3b) Provide details of the trade associations your organization is a member of, or engages with, which are likely to take a position on any policy, law or regulation that may impact the climate.**

**Trade association**

Other, please specify (Clean Energy Buyers Association (a global coalition of energy partners))

**Is your organization's position on climate change policy consistent with theirs?**

Consistent

**Has your organization attempted to influence their position in the reporting year?**

Yes, we publicly promoted their current position

**Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position**

The Clean Energy Buyers Association (CEBA) is a membership association for energy customers seeking to procure clean energy across the U.S. Today, their membership of over 300 includes stakeholders from across the commercial and industrial sector, non-profit organizations, as well as energy providers and service providers. The Clean Energy Buyers Association's aspiration is to achieve a 90% carbon-free U.S. electricity system by 2030 and to cultivate a global community of energy customers driving clean energy. As a business trade association, CEBA activates a community of energy customers and partners to deploy market and policy solutions for a carbon-free energy system. CEBA's mission is directly aligned with Amgen's SBTi targets.

**Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)**

5000

**Describe the aim of your organization's funding**

Support the deployment of clean energy in the USA, in line with our SBTi commitments.

**Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?**

Yes, we have evaluated, and it is aligned

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C12.3c

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**(C12.3c) Provide details of the funding you provided to other organizations or individuals in the reporting year whose activities could influence policy, law, or regulation that may impact the climate.**

**Type of organization or individual**

Other, please specify (A global coalition for companies, institutions, and governments)

**State the organization or individual to which you provided funding**

Renewable Thermal Collaborative

**Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)**

10000

**Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate**

We are members of the Renewable Thermal Collaborative (RTC). The RTC is a global coalition for companies, institutions, and governments committed to scaling up renewable heating and cooling at their facilities, dramatically cutting carbon emissions. RTC members recognize the growing demand and necessity for renewable heating and cooling and the urgent need to meet this demand in a manner that delivers sustainable, cost-competitive options at scale. The goal of the RTC is to create a community of corporate buyers, establish policy support and establish a path of decarbonization. A sub-group within the RTC evaluates policy.

**Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?**

Yes, we have evaluated, and it is aligned

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**Type of organization or individual**

Other, please specify (A global coalition for biotechnology companies and their suppliers)

**State the organization or individual to which you provided funding**

Biophorum

**Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)**

58910

**Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate**

Amgen is a member of Biophorum. Biophorum has a sustainability working group with a mission to act as a voice of the industry to enable delivery of the industry's sustainability ambition quickly and effectively, and to lead innovative teams who have the capability and credibility to create consensus and ultimately drive real change that benefits people and planet. Biophorum recognizes that climate change resulting from greenhouse gas emissions are widely recognized as the biggest threats to global health. According to Biophorum, the healthcare sector is responsible for 4–5% of global emissions, more than 70% of which are driven by supply chains.

**Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?**

Yes, we have evaluated, and it is aligned

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**Type of organization or individual**

Other, please specify (A global coalition for biotechnology companies and their suppliers )

**State the organization or individual to which you provided funding**

Pharmaceutical Supply Chain Initiative (PCSI)

**Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)**

15000

**Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate**

Amgen is an associate member of the Pharmaceutical Supply Chain Initiative (PCSI), a group of pharmaceutical and healthcare companies who share a vision of better social, health, safety and environmental outcomes in the communities where we buy. PCSI created Principles for Responsible Supply Chain Management to articulate what the industry expects from the supply chain. These Principles address five areas of responsible business practice: ethics, labor, health & safety, environment, and management systems. In each area, the Principles set out the relevant practices any business operating within the pharmaceutical supply chain is expected to uphold. All members are expected to support and incorporate the Principles into their key supplier documents and agreements. Amgen's Supplier Code of Conduct is closely aligned with the Pharmaceutical Supply Chain Initiative (PCSI) Principles for Responsible Supply Chain Management.

**Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?**

Yes, we have evaluated, and it is aligned

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**C12.4**

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**(C12.4) Have you published information about your organization’s response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).**

**Publication**

In mainstream reports

**Status**

Complete

**Attach the document**

amgen-2022-esg-report.pdf

**Page/Section reference**

Environmental sustainability performance and strategy information is contained in pages 48 - 59 of the ESG Report. Governance is detailed on page 7.

**Content elements**

- Governance
- Strategy
- Emissions figures
- Emission targets
- Other metrics

**Comment**

**Publication**

In mainstream reports

**Status**

Complete

**Attach the document**

2022\_proxy\_statement.pdf

**Page/Section reference**

Environmental sustainability information (pages 31-36) and ESG goal included as part of our Company-wide performance goals within our annual incentive compensation plan (pages 50 and 67) are discussed in our 2023 Proxy Statement.

**Content elements**

- Governance
- Strategy
- Emission targets

**Comment**

**C12.5**

**(C12.5) Indicate the collaborative frameworks, initiatives and/or commitments related to environmental issues for which you are a signatory/member.**

	Environmental collaborative framework, initiative and/or commitment	Describe your organization’s role within each framework, initiative and/or commitment
Row 1	Other, please specify (SBTI)	In 2022, SBTi approved Amgen’s science-based greenhouse gas emission targets. These commitments include reducing absolute scope 1 and 2 GHG emissions 55% by 2027 from a 2019 base year. Amgen also commits to increase annual sourcing of renewable electricity from 29% in 2019 to 100% by 2027, and we aim to continue annually sourcing of 100% renewable electricity through at least 2030. Amgen further commits to engaging with 73% of its suppliers by spend covering upstream purchased goods and services and capital goods to assist and encourage their establishment of science-based targets by 2027. This would represent suppliers responsible for approximately 67% of our Scope 3 emissions, as measured in 2019.

**C15. Biodiversity**

**C15.1**

**(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?**

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity	Scope of board-level oversight
Row 1	Yes, both board-level oversight and executive management-level responsibility	We consider biodiversity to be the overarching principle of sustainability, and although we do not yet have specific biodiversity or nature-based targets, our Board of Directors, including through its applicable committees, is responsible for oversight of our business strategy and commitments that serve to also support biodiversity, such as our 2027 Environmental Sustainability commitments of carbon neutrality and water and waste reductions. We are closely tracking SBTN and TNFD developments.	<Not Applicable>

**C15.2**

**(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?**

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	No, but we plan to do so within the next 2 years	<Not Applicable>	<Not Applicable>

**C15.3**

**(C15.3) Does your organization assess the impacts and dependencies of its value chain on biodiversity?**

**Impacts on biodiversity**

**Indicate whether your organization undertakes this type of assessment**

No, but we plan to within the next two years

**Value chain stage(s) covered**

<Not Applicable>

**Portfolio activity**

<Not Applicable>

**Tools and methods to assess impacts and/or dependencies on biodiversity**

<Not Applicable>

**Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)**

<Not Applicable>

**Dependencies on biodiversity**

**Indicate whether your organization undertakes this type of assessment**

No, but we plan to within the next two years

**Value chain stage(s) covered**

<Not Applicable>

**Portfolio activity**

<Not Applicable>

**Tools and methods to assess impacts and/or dependencies on biodiversity**

<Not Applicable>

**Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)**

<Not Applicable>

**C15.4**

**(C15.4) Does your organization have activities located in or near to biodiversity- sensitive areas in the reporting year?**

Not assessed

**C15.5**

**(C15.5) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?**

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	No, we are not taking any actions to progress our biodiversity-related commitments, but we plan to within the next two years	<Not Applicable>

**C15.6**

**(C15.6) Does your organization use biodiversity indicators to monitor performance across its activities?**

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	No, we do not use indicators, but plan to within the next two years	Please select

**C15.7**

**(C15.7) Have you published information about your organization's response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).**

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
No publications	<Not Applicable>	<Not Applicable>

C16. Signoff

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C-FI

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(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

Not applicable

C16.1

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(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Director Engineering	Environment/Sustainability manager

SC. Supply chain module

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SC0.0

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(SC0.0) If you would like to do so, please provide a separate introduction to this module.

SC0.1

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(SC0.1) What is your company's annual revenue for the stated reporting period?

	Annual Revenue
Row 1	

SC1.1

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(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

SC1.2

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(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

SC1.3

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(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Allocation challenges	Please explain what would help you overcome these challenges
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SC1.4

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(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Yes

SC1.4a

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**(SC1.4a) Describe how you plan to develop your capabilities.**

We will evaluate life cycle emissions for our products and allocate emissions for products sold.

SC2.1

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**(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.**

SC2.2

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**(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?**

SC4.1

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**(SC4.1) Are you providing product level data for your organization's goods or services?**

Submit your response

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**In which language are you submitting your response?**

English

**Please confirm how your response should be handled by CDP**

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

**Please confirm below**

I have read and accept the applicable Terms