Welcome to your CDP Climate Change Questionnaire 2020

C0. Introduction

C0.1

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

At Thermo Fisher, everything we do begins with our Mission – to enable our customers to make the world healthier, cleaner and safer. We have a remarkable team of colleagues around the globe who are passionate about helping our customers address some of the world's greatest societal challenges. Thermo Fisher Scientific Inc. is the world leader in serving science, with annual revenue exceeding $25 billion.
Whether our customers are accelerating life sciences research, solving complex analytical challenges, improving patient diagnostics and therapies or increasing productivity in their laboratories, we are here to support them. Our global team of more than 75,000 colleagues delivers an unrivalled combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services and Patheon.
As the world leader in serving science, we are keenly aware of our responsibility to the global community. Our Corporate Social Responsibility ("CSR") strategy is our commitment to doing business the right way to enable a sustainable future for all stakeholders. Our approach is built on a framework of four key pillars - Operations, Colleagues, Communities and Environment - that reinforce our Mission, align with our strategy and are material to our stakeholders.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for

Reporting year	January 1, 2019	December 31, 2019	Yes	1 year

C0.3

(C0.3) Select the countries/areas for which you will be supplying data.

Australia
Austria
Belgium
Canada
China
Costa Rica
Czechia
Democratic People's Republic of Korea
Denmark
Finland
France
Germany
India
Israel
Italy
Japan
Lithuania
Malaysia
Mexico
Netherlands
New Zealand
Norway
Russian Federation

Singapore
Spain
Sweden
Switzerland
United Kingdom of Great Britain and Northern Ireland
United States Minor Outlying Islands
United States of America

C0.4

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

USD

C0.5

(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

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(s)	Please explain
Board-level committee	The nominating and corporate governance committee oversees the Company's corporate responsibility and sustainability efforts and associated risks

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	Please explain
Scheduled – some meetings	Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding risk management policies Monitoring implementation and performance of objectives Monitoring and overseeing progress against goals and targets for addressing climate-related issues	The Nominating and Corporate Governance Committee of the Board of Directors periodically reviews and reports to the Board of Directors on Thermo Fisher's corporate responsibility and sustainability efforts, including the impact of environmental and social issues on the company. Enterprise risk management is presented to the Board of Directors annually. This presentation includes climate change risk as it pertains to weather pattern risks for the company's operations globally. Individual risk topics are presented to the Board of Directors periodically at the Board's regularly scheduled meetings.

C1.2

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

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Other C-Suite Officer, please specify	Both assessing and managing climate-related risks and opportunities	Annually

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).

This position is located in the Legal department which oversees the Risk Management and EHS function for the Company. These positions perform these functions globally, and all of these functions are engaged in the sustainability of the company. These functions work in tandem with the Company's CSR department that sits within the Corporate Development and Strategy group.

Asset-related and weather-related risks are managed on a company-wide basis by the risk management department. In the case of acquisitions, the Company completes a risk assessment during the due diligence process so that potential risks are known prior to purchase. For example, the handling of greenhouse gases by potential acquisitions are identified and investigated during the due diligence process and a risk analysis is completed prior to acquisition.

Weather-related risk assessments use models and insurance industry information and focus on protecting Company assets (factories) from weather-related events that appear to be increasing in frequency and severity as a result of climate change. The necessity of this evaluation process was underscored by the impact recent wildfires had on the company's facilities in Northern California as well as the hurricanes in Puerto Rico and Houston in prior years. These events helped galvanize the company to develop more comprehensive and multidisciplinary emergency preparedness and disaster response plans.

The company's EHS policy states that "all locations must have an effective emergency response plan that is periodically tested, reviewed and updated." The policy also directs all employees to be responsible for minimizing our environmental impact and singles out leadership within the company as retaining ultimate responsibility for ensuring compliance.

The CSR Department, led by a C-level executive, complements these efforts by championing and partnering to drive cross-functional and cross-divisional initiatives, as well as collectingand analyzing company-wide data as it relates to climate change, specifically site and divisional energy usage

intensity, efficiency initiatives, renewable energy projects and opportunities, as well as employee-led environmental improvement efforts. This is done to ensure monitoring and success of GhG reduction efforts. In late 2019 a new, ambitious scope 1 and 2 GHG emissions reduction target of 30% by 2030 was set by the Company. Emissions are monitored and reported to senior leadership on a regular basis to ensure progress towards the 2030 target.

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	With the adoption of the Company's new GHG emissions reduction target in 2019, a yearly target was added into the Company's 2020 goals. The Company's goals cascade throughout the organization and are included in business goals and further down to employee goal setting. Our employee goal setting process is tied to performance reviews.

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	Type of incentive	Activity incentivized	Comment
Other, please specify VP, Risk Management	Monetary reward	Emissions reduction target	
Energy manager	Monetary reward	Emissions reduction target Energy reduction target Efficiency project	
Environment/Sustainability manager	Monetary reward	Emissions reduction project Emissions reduction target	

Corporate executive team	Monetary reward	Emissions reduction target	

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	1	4	this short-term definition comes from the company's operating budget terms.
Medium-term	5	9	This falls outside of annually reviewed budget timelines but within the long-term set goals of the company.
Long-term	10	11	This timeline corresponds to the company's long-term vision goals.

C2.1b

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

These are risks that could potentially have an impact on the business, both from a financial impact as well as from a reputational risk standpoint. Most regulatory risks and opportunities are considered material at the business unit level if they (1) have the ability to affect a product or product design in the pipeline, (2)will increase operating costs to the point where margins are eroded, (3) affect the reputation of the business, its products or services, or (4) require capital investment above the maximum that the general manager of a factory can approve. Significant risks and opportunities that can have a material financial impact on a business would be reported to senior leadership on a quarterly basis (or sooner).

C2.2

(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

Annually

Time horizon(s) covered

Short-term
Medium-term

Description of process

A robust risk assessment process represents a continuous cycle to ensure risks are systematically evaluated and managed. The current ERM framework takes the following approach: Identify, Assess, Control, Monitor, Improve, Report

C2.2a

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

	Relevance & inclusion	Please explain

Current regulation	Relevant, always included	There are a number of regulations that affect operational facility building codes in areas prone to climate risk. Currently the company's sites in Sweden are subject to regulation on carbon emissions. The country of Sweden is attempting to become carbon neutral and therefore has and is continuing to expect carbon reductions by all parties in the country. Our sites in the U.K. are subject to a carbon tax based on sites' fossil fuel usage.
Emerging regulation	Relevant, always included	Thermo Fisher anticipates more robust global regulation around GHG emissions due to the Paris Agreement and associated national reduction targets. Because the company operates in 52 countries around the world, many of which are attempting to reduce their carbon emissions, operations in those locations will be subject to legislation. The company's sites in Europe are increasingly subject to regulatory changes, specifically Sweden and the U.K. There is also a possibility of increased environmental regulation in Asian countries in which the company operates, such as India and China.
Technology	Relevant, always included	Technology plays a large role in the company's business continuity plan and is identified as a source of risk for the company within our annual 10-K filing.
Legal	Relevant, always included	The company has a fiduciary responsibility to shareholders and part of that duty is to manage risk in the company's portfolio. Climate change will affect how asset risk is managed.
Market	Relevant, sometimes included	The company considers market risk to be partially driven by reputational risk. If the company is seen as not responsive to perception of climate change there is a risk of financial impact.
Reputation	Relevant, always included	Reputation is important as it can determine market-share and customer loyalty based on company perception as it pertains to climate change.
Acute physical	Relevant, always included	The Company has a program for periodic inspection and audit of facilities in order to ensure they are prepared to withstand climate related threats. Thermo Fisher Scientific's insurance carrier also identifies and reports on weather and fire related risk.
Chronic physical	Relevant, sometimes included	Risks are primarily vetted around weather pattern shifts and associated changing building system needs to ensure sites adapt to those shifts.

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 bu siness.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical

Other, please specify

heat waves

Primary potential financial impact

Increased indirect (operating) costs

Company-specific description

With the rise in global temperatures the company anticipates there will be a greater need for climate control within operational facilities. This will involve greater strain on cooling systems with a possibility of more frequent maintenance as well as a need for greater efficiency within those systems. This is particularly true in sites acquired in 2017 that manufacture pharmaceuticals as they require precise temperature and air control for quality of product.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

The financial impact will occur when cooling systems will need to be installed or upgraded at company sites for greater capacity and/or efficiency.

Cost of response to risk

1,000,000

Description of response and explanation of cost calculation

Maintenance of all current cooling systems and budget for future installation and upgrade of systems.

Comment

This is an estimate of per year cost to maintain systems, including man hours and repairs to installed equipment.

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical

Increased severity and frequency of extreme weather events such as cyclones and floods

Primary potential financial impact

Increased capital expenditures

Company-specific description

In 2018 the company had sites in proximity to the California forest fires. The impact on production was minimal but HVAC systems were shut down in order to reduce the impact of smoke on indoor air quality. The company also has facilities in Puerto Rico that are at elevated risk due to more frequent and severe hurricanes. In order to make sure those sites remain operational the Company has taken steps to improve the facilities and improve reliability of power generation.

Time horizon

Short-term

Likelihood

More likely than not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

10,000,000

Potential financial impact figure – maximum (currency)

15,000,000

Explanation of financial impact figure

These numbers are based on one Puerto Rico facility only. Other efforts to reduce the impact of weather on facilities is subjective.

Cost of response to risk

1

Description of response and explanation of cost calculation

The company has rebuilt the sites in Puerto Rico with greater awareness of potential future risk. This includes contingency plans and back-up systems in place. We cannot anticipate future financial risk.

Comment

Some of these systems are still being put in place, such as solar panels and a CHP plant so the cost of management is not yet known.

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical

Changes in precipitation patterns and extreme variability in weather patterns

Primary potential financial impact

Increased insurance claims liability

Company-specific description

In 2018 due to the California wildfires company employees were impacted by property and other loss due to the fires. HVAC systems also were shut down in order to preserve indoor air quality at one site. Local site employees held a volunteer event and ran experiments with children who had been displaced by the fires to keep them occupied while they were in temporary shelters.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

There is no immediate financial impact figure because the scenario above did not impact Thermo Fisher financially, however there is a possibility that a wildfire could impact our sites and/or employees.

Cost of response to risk

Description of response and explanation of cost calculation

Comment

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Market

Increased cost of raw materials

Primary potential financial impact

Increased direct costs

Company-specific description

There is a risk of increase in prices for fuel and petroleum-based resins. Due to the carbon footprint of fossil fuels and the potential for steep increases if carbon pricing/accounting is implemented there is a risk that the company's cost of goods could rise significantly.

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

This is a hypothetical risk that has not yet impacted our commodities purchasing therefore it is not yet known what level of impact it will have on our business.

Cost of response to risk

1,000,000,000

Description of response and explanation of cost calculation

The company looks at ways to purchase or generate renewable energy within the portfolio to reduce fossil fuel pricing fluctuation at sites. The Company also has some hybrid and electric vehicles within the fleet that reduce reliance on fossil fuels for transport. With the highest R&D budget in the industry Thermo Fisher is also consistently looking for new solutions to product material risks.

Comment

The figure above is the company's annual R & D budget for 2019. This budget is used to develop new products and solutions to fossil fuel use.

C2.4

(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

(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

Products and services

Primary climate-related opportunity driver

Development of new products or services through R&D and innovation

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Thermo Fisher produces products which help customers to identify and monitor effects of climate change such as air quality, water quality, and other measures of climate change that can be scientifically observed. These products will become more necessary and the market is expected to grow as GHG regulation and study of climate change effects increase globally.

Time horizon

Long-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)

Potential financial impact figure – minimum (currency)

50,000,000

Potential financial impact figure – maximum (currency)

500,000,000

Explanation of financial impact figure

The financial impact is not yet known since these are forward looking statements.

Cost to realize opportunity

1,000,000,000

Strategy to realize opportunity and explanation of cost calculation

Thermo Fisher spends significant money annually on research and development, the highest in the industry. The total spent in 2019 was over $1 Billion.

Comment

2019 annual research and development budget was more than $1 Billion

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

Increased revenues resulting from increased production capacity

Company-specific description

Thermo Fisher uses a practical process improvement system to remove waste from processes around the company. This means all employees are expected to review and refine processes throughout the company on an ongoing basis to find efficiencies. This process improvement framework works well with the Company's efforts to reduce energy usage and is an in-place system ready to apply to energy reduction efforts and overall sustainability

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

200,000,000

Potential financial impact figure – maximum (currency)

400,000,000

Explanation of financial impact figure

The financial impact range is an estimate range for annual PPI savings based on numbers reported in our Company CSR report

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

This is an existing process improvement framework that the Company already utilizes when evaluating most potential projects

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

The lithium-ion battery market will exceed $100 billion by 2025, and such reliance has put greater focus on safety and efficiency. Poor battery performance can limit energy output, while potentially dangerous defects create an unacceptably small window of battery life between first use and landfill disposal. Scientists developing batteries for electric vehicles, mobile phones, energy systems and other innovations rely on our analytical instruments to improve storage potential and output, creating a more efficient, cleaner and safer energy source. They use our electron microscopy technologies to see structures at levels down to atomic scale, and spectroscopy tools to discover critical changes in materials that cause defects and inefficiency

Time horizon

Medium-term

Likelihood

Likely

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)

100,000,000,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

The lithium ion battery market is expected to exceed $100 billion by 2025. This is not to indicate that Thermo Fisher will achieve this revenue, rather that is the size of the expected market.

Cost to realize opportunity

1,000,000,000

Strategy to realize opportunity and explanation of cost calculation

This was the Company's 2019 R&D budget. Without innovation we will not be able to compete in this market.

Comment

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

Reduced indirect (operating) costs

Company-specific description

Thermo fisher plans to adopt greater use of renewable energy sources to provide electricity to the facilities in our portfolio. We anticipate that will protect us from potential risk of fossil fuel price fluctuation as well as maintain a stable and competitive price for electricity usage.

Time horizon

Medium-term

Likelihood

Very likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

200,000

Potential financial impact figure – maximum (currency)

4,000,000

Explanation of financial impact figure

The range above accounts for renewable electricity purchases from vendors in the UK and Germany that were negotiated in 2019. We cannot predict future pricing for renewable energy procurement, but we do anticipate adopting more renewable electricity.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

The Company regularly evaluates many opportunities for renewable energy such as a renewable energy purchase from the grid, PPAs and VPPAs Most renewable energy opportunities have little-to-no upfront cost; therefore, we cannot estimate the financial impact. Comment

C3. Business Strategy

C3.1

(C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning?

Yes, and we have developed a low-carbon transition plan

C3.1a

(C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?

Yes, qualitative and quantitative

C3.1b

(C3.1b) Provide details of your organization's use of climate-related scenario analysis.

Climate-related scenarios and models applied	Details
2DS Nationally determined contributions (NDCs)	Climate change is integrated into the Company's short-term and long-term business strategies. Short-term strategies focus on product-related issues, regulatory risks and opportunities, and weather-related risks. Long-term strategies are related to the Company's corporate social responsibility program, which is tasked with ensuring business sustainability. Both short-term and long-term strategies are linked to the Company's emission reduction targets. Short-term strategies are woven into the Company's business processes related to product development, annual operating plans,

	and plant operations/efficiencies. The most important aspects of the short-term strategy are related to managing regulatory risk and opportunity around the Company's products. These strategies are developed by cross-functional teams and, in some cases, through external collaborations. The Company is helping China improve its air quality with The Freedom System that uses the Company's unique atomic fluorescence technology, providing continuous monitoring of stack gases to detect mercury levels down to parts per trillion. Short-term strategies around plant operations and product development are enhanced by Practical Process Improvement (PPI). Our PPI Business System is a core operational discipline that supports business productivity, operational efficiency and sustainable growth. Through PPI-driven initiatives the Company has boosted productivity and reduced waste as a result of implementing electrical efficiency programs, developing reusable packaging, increasing recycling and reducing landfill impact, and improving space efficiency to reduce the need for new buildings as the Company grows. Our long-term business strategy around the construction of new facilities has been influenced by climate change. The Company has an overall strategy to consolidate smaller, less efficient operations into larger more efficient Centers of Excellence. Additional long-term strategy managed by the corporate social responsibility function includes managing opportunities to enhance the Company's reputation. This process is managed through periodic meetings of key employees. Externally, voluntary reporting is accomplished by the Company's corporate social responsibility report. The Company has continued to offer assistance to victims of natural disasters, including matching employee donations and hands-on volunteering through our community outreach teams. This program is thought to be increasingly important as climate change may increase the frequency of weather-related events such as hurricanes, wildfires and other catastrophic events. The long-term strategy to manage reputational opportunities through corporate social responsibility provides several competitive advantages. One of which is a commitment to reducing our GHG emissions so we can align with larger reduction efforts in a favourable and scientific way.

C3.1d

(C3.1d) 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	Yes, Thermo Fisher developed the greener product line to offer environmentally preferable alternatives to some products. Beyond that we are innovating to improve our shipping footprint and product end-of-life longevity
Supply chain and/or value chain	Yes	In 2019 for the first time we asked high-risk members of our supply chain to disclose CSR data via EcoVadis, including carbon footprint in an effort to increase awareness of this topic within our supply chain.
Investment in R&D	Evaluation in progress	Climate change is a force for innovation, and we spend over $1 billion dollars on R&D to develop new products to assist scientific work and enable company's trying to realize a lower carbon future.
Operations	Yes	The operations function within Thermo Fisher is part of the group of employees that will be responsible for energy efficiency and renewable energy purchase throughout the company in order to achieve our 2030 target

C3.1e

(C3.1e) 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 Capital expenditures Capital allocation	Unseasonable weather, extreme weather events, floods, or extreme heat all have an impact on direct operating costs at the Company's sites, Preparing a site for renewable energy installation or resiliency in the face of climate change tends to

		fall under capital expenditures. The Company's energy procurement team has allocated capital for renewable energy and retrofits throughout the company.

C3.1f

(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

Climate change is integrated into the Company's short-term and long-term business strategies. Both short-term and long-term strategies are linked to the Company's emission reduction targets.

In order to align on the accepted science on the detrimental effects of climate change, in 2019 Thermo Fisher approved a new greenhouse gas reduction target of 30% by the year 2030. This new target calibrates Thermo Fisher's goal with the United Nations Paris Climate Agreement which aims to limit worldwide average temperatures to well below a 2°C increase in order to avoid the worst effects of global warming.

The new target aligns with the pillars of the Company's overall strategy which are (1) continuously developing high-impact, innovative products and (2) delivering a unique value proposition to our customers. Our mission is to enable our customers to make the world healthier, cleaner, safer and in order for them to do that we must innovate and provide more environmentally friendly products with the same level of quality as other products on the market. Doing the right thing makes good business sense. Our stakeholders, customers, employees and shareholders want to be associated with a company that delivers outstanding performance, responsibly. As we strive to fulfil our Mission, Thermo Fisher recognizes our own obligation to global sustainability. Acting responsibly is the way we manage our operations and how we source, manufacture and ship our products.

C4. Targets and performance

C4.1

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

Absolute target

C4.1a

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

Target reference number

Abs 1

Year target was set

2019

Target coverage

Company-wide

Scope(s) (or Scope 3 category)

Scope 1+2 (location-based)

Base year

2018

Covered emissions in base year (metric tons CO2e)

513,900

Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)

100

Target year

2030

Targeted reduction from base year (%)

30

Covered emissions in target year (metric tons CO2e) [auto-calculated]

360,200.4

Covered emissions in reporting year (metric tons CO2e)

499,662

% of target achieved [auto-calculated]

9.658512317

Target status in reporting year

Underway

Is this a science-based target?

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

Please explain (including target coverage)

This target was formulated using the Science Based Target setting tool (v. 1.1) and is designed to keep Thermo Fisher's portion of global GHG emissions well under the 2 degrees Celsius cap. We used the absolute contraction approach to calculate the target. This target is set for scope 1 and scope 2, thus will not be approved by the Science Based Target Initiative until we include scope 3.

C4.2

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

No other climate-related targets

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include th ose 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	3	
To be implemented*	7	1,239
Implementation commenced*	8	5,990
Implemented*	28	8,470
Not to be implemented	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 generation

Solar PV

Estimated annual CO2e savings (metric tonnes CO2e)

712

Scope(s)

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)

50,000

Payback period

4-10 years

Estimated lifetime of the initiative

16-20 years

Comment

Installation of solar panels onsite to reduce electricity needs from the grid

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Initiative category & Initiative type

Waste reduction and material circularity
Waste reduction

Estimated annual CO2e savings (metric tonnes CO2e)

100

Scope(s)

Scope 3

Voluntary/Mandatory

Voluntary

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

20,000

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

5,000

Payback period

<1 year

Estimated lifetime of the initiative

>30 years

Comment

All north American warehouse sites that hold and ship product sold through the Fisher website underwent a waste reduction program in 2019 hoping to achieve a 60% diversion rate from landfill. In 2020 these sites will attempt 90% diversion rates and apply for zero waste certification status

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Initiative category & Initiative type

Energy efficiency in buildings
Lighting

Estimated annual CO2e savings (metric tonnes CO2e)

5,080

Scope(s)

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

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

1,300,000

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

3,500,000

Payback period

1-3 years

Estimated lifetime of the initiative

6-10 years

Comment

Continued retrofitting of lighting throughout the Company's portfolio and upgrading to LEDs

C4.3c

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

Method	Comment
Employee engagement	The company has Green Teams that are site-level groups of employees who volunteer their time to encourage environmentally friendly practices throughout their sites. The company promotes an internal involvement campaign for Earth Day annually where employees can share their environmental commitment publicly and collaborate on environmentally focused projects.
Compliance with regulatory requirements/standards	The Carbon Reduction Commitment program is driving carbon reduction efforts (energy surveys, lighting retrofits, motor upgrades, etc.) in the U.K. In addition, governments in the U.K. and Germany have added mandatory facility energy survey programs to help businesses identify site-related efficiency project opportunities. Sweden is striving to be the first country to be 100% fossil fuel free. Since 2015, our sites throughout Sweden have implemented the following initiatives to reduce their overall environmental impact: Construction of biological wastewater treatment plant that treats 70,000 cubic meters of water annually. Construction of a BREEAM* certified distribution center in 2017. Provision of 22% of the sites' power usage by renewable energy sources–approx. 2,645 MWh.
Financial optimization calculations	The Company consults with third parties on emission reduction projects and these projects are reviewed internally. Detailed cost/savings and environmental impact analyses are performed, including investigation of the availability of utility rebates, federal and/or state incentives such as DSIRE in the U.S., and energy pricing escalation.

	Part of that program is using the vendors to help accurately track GHG data throughout the year and make it available for site leads to use internally via a site level energy dashboard to improve their energy efficiency and reduce overhead costs.
Dedicated budget for energy efficiency	There is a corporate level energy procurement team that has a budget allocated annually for energy efficiency projects. This is financial resource for sites that may not otherwise be able to cover the cost of an efficiency project via their regular CapEx or budget process.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.

Level of aggregation

Group of products

Description of product/Group of products

Green Leaf products - By incorporating principles of green chemistry and green engineering into our product design, we are minimizing chemical hazards, increasing reaction efficiency, and minimizing waste. Our greener product alternatives can help advance sustainability in the lab by minimizing the use of hazardous chemicals, minimizing waste and material consumption, and increasing energy efficiency. There are over 48 product categories represented and over 100 products are Energy Star certified. The company's TSX (an ultra-low temperature freezer that reduces energy consumption and CO2 emissions by 50% compared to conventional freezers by using a natural, SNAP compliant, refrigerant) became the first ENERGY STAR certified laboratory-grade refrigerator available on the market. The company made a pledge to the White House to reduce the use of HFCs by transitioning its entire cold storage platform to more environmentally friendly, natural refrigerants.

This transition will take place over a five-year period ending in 2020 and will provide a 49% reduction in CO2 emissions. In that same time period, the Company also plans to reduce the energy consumption of these products by more than 50%.

Are these low-carbon product(s) or do they enable avoided emissions?

Low-carbon product and avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify

Due to a lack of environmental rating system for products in our industry Thermo Fisher developed a rigorous, science-based testing approach to determine any positive environmental aspects of specially designed products

% revenue from low carbon product(s) in the reporting year

6

Comment

All Green Leaf products are accompanied by a brief which describes the environmentally friendly aspects of the product and what testing it has undergone to receive the designation.

Level of aggregation

Group of products

Description of product/Group of products

ACT Label, a lab consumables product label, developed by My Green Labs. Several NUNC brand products have received the ACT Label

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify

My Green Lab ACT Label

% revenue from low carbon product(s) in the reporting year

1

Comment

ACT was a new eco-label developed by My Green Lab for laboratory consumable products in 2017. Thermo Fisher was one of the early adopters of this label and anticipates the products certified by this label will grow as the certification becomes more robust.

Level of aggregation

Product

Description of product/Group of products

Same-day bike delivery of orders in the San Diego area. In 2018, an on-demand delivery program was piloted for customers in Southern California. For this program we leveraged our Supply Center technology, infrastructure and support, which facilitates convenient and customizable solutions for the products our customers use most.
In addition to providing convenience to our customers, our Supply Centers save an estimated 700,000 pounds of packaging waste each year while also reducing our shipping and transaction costs.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

% revenue from low carbon product(s) in the reporting year

1

Comment

This describes a service, not a product, that avoids emissions by using a non-fossil fuel based transportation system where possible.

Level of aggregation

Group of products

Description of product/Group of products

This Paper Cooler is a fully curbside-recyclable, 100% paper-based container for shipping temperature sensitive products and is an environmentally preferable alternative to expanded polystyrene (EPS) coolers. It is fully recyclable alongside other paper and corrugated box materials. It eliminates difficult-to-recycle EPS waste, reducing disposal issues and is intended for overnight shipments

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify

replacing a styrofoam cooler with a 100% recyclable cardboard cooler

% revenue from low carbon product(s) in the reporting year

1

Comment

This product is a shipping method for products that need to be shipped at and maintain a constant temperature, not the product itself.

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start

January 1, 2018

Base year end

December 31, 2018

Base year emissions (metric tons CO2e)

155,257

Comment

Scope 2 (location-based)

Base year start

January 1, 2018

Base year end

December 31, 2018

Base year emissions (metric tons CO2e)

332, 949

Comment

Scope 2 (market-based)

Base year start

August 24, 2020

Base year end

Base year emissions (metric tons CO2e)

0

Comment

The company does not calculate emissions entirely via market-based methodology yet. Due to the maturity of the data, as evidenced by the external assurance being sought this year for scope 1 and 2 emissions, the company started using location-based conversion factors (e.g. IEA, eGrid, Defra) and where available appropriate market-based conversions. Thermo Fisher applied this more granular approach in 2019.

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissio ns.

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
The Greenhouse Gas Protocol: Scope 2 Guidance

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)

161,065

Start date

January 1, 2019

End date

December 31, 2019

Comment

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)

155,257

Start date

January 1, 2018

End date

December 31, 2018

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 have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure

Comment

The company does not calculate emissions entirely via market-based methodology yet. Due to the maturity of the data, as evidenced by the external assurance being sought this year for scope 1 and 2 emissions, the company started using the IEA location-based conversion factors and where available appropriate market-based conversions. Thermo Fisher applied this more granular approach in 2019.

C6.3

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

Reporting year

Scope 2, location-based

311,689

Start date

January 1, 2019

End date

December 31, 2019

Comment

Past year 1

Scope 2, location-based

332,949

Start date

January 1, 2018

End date

December 31, 2018

Comment

C6.4

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

No

C6.5

(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

Metric tonnes CO2e

Emissions calculation methodology

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

Please explain

Capital goods

Evaluation status

Relevant, not yet calculated

Please explain

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

Evaluation status

Relevant, calculated

Metric tonnes CO2e

Emissions calculation methodology

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

Please explain

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Metric tonnes CO2e

Emissions calculation methodology

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

Please explain

Waste generated in operations

Evaluation status

Relevant, calculated

Metric tonnes CO2e

Emissions calculation methodology

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

Please explain

Business travel

Evaluation status

Relevant, calculated

Metric tonnes CO2e

Emissions calculation methodology

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

Please explain

Employee commuting

Evaluation status

Relevant, not yet calculated

Please explain

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any upstream leased assets

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Metric tonnes CO2e

Emissions calculation methodology

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

Please explain

Processing of sold products

Evaluation status

Relevant, not yet calculated

Please explain

Use of sold products

Evaluation status

Relevant, not yet calculated

Please explain

The vast diversity of products sold by Thermo Fisher makes it difficult to quantify the usage footprint of sold products. However, we do realize that this is a metric that is relevant to our business and plan to develop a preliminary assessment of product usage and carbon emissions in 2020.

End of life treatment of sold products

Evaluation status

Relevant, not yet calculated

Please explain

The vast diversity of products sold by Thermo Fisher makes it difficult to quantify the end of life footprint of sold products. However, we do consider this a relevant metric to our business and plan to develop a preliminary assessment of product end of life carbon emissions in 2020.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

We do not have any downstream leased assets

Franchises

Evaluation status

Not relevant, explanation provided

Please explain

The Company does not have any franchises.

Investments

Evaluation status

Not relevant, explanation provided

Please explain

Other (upstream)

Evaluation status

Please explain

Other (downstream)

Evaluation status

Please explain

C6.7

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

No

C6.10

(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

19,562.4

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

499,662

Metric denominator

unit total revenue

Metric denominator: Unit total

25,500,000,000

Scope 2 figure used

Location-based

% change from previous year

3

Direction of change

Decreased

Reason for change

Retro commissioning projects around the company as well as reduction in overall CO2 conversion factors globally

C7. Emissions breakdowns

C7.1

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

No

C7.2

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

Country/Region	Scope 1 emissions (metric tons CO2e)
Belgium	225
Canada	8,714
China	36
Czechia	453
Denmark	275
France	2,799

Germany	2,433
India	761
Italy	21,715
Lithuania	2,043
Netherlands	2,656
New Zealand	239
United Kingdom of Great Britain and Northern Ireland	13,107
United States of America	105,603
United States Minor Outlying Islands	5

C7.3

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

By business division

C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO2e)

Analytical Instruments	3,122
Corporate Offices	533
Laboratory Products and Services	115,833
Life Sciences Solutions	32,482
Specialty Diagnostics	9,095

C7.5

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

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
Australia	2,113			
Belgium	490			
Canada	1,569			
China	9,224			
Czechia	7,128			
Denmark	1,598			
Finland	1,305			
France	557			
Germany	10,650			
India	5,887			
Israel	278			
Italy	8,381			

Japan	789			
Lithuania	719			
Malaysia	273			
Mexico	8,550			
Netherlands	9,434			
New Zealand	428			
Norway	16			
Singapore	4,814			
Republic of Korea	957			
Spain	35			
Sweden	194			
Switzerland	174			
United Kingdom of Great Britain and Northern Ireland	15,096			
United States of America	208,357			
Austria	5,240			
United States Minor Outlying Islands	11,234			

C7.6

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

By business division

C7.6a

(C7.6a) Break down your total gross global Scope 2 emissions by business division.

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Analytical Instruments	34,921	34,921
Specialty Diagnostics	25,600	25,600
Laboratory Products and Services	326,047	345,927
Life Sciences Solutions	77,103	77,103
Corporate Offices	9,062	9,062

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

C7.9b

(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?

Location-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

C8.2b

(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	No
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.

C8.2d

(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the repo rting 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	4,151	4,151	4,151	4,151
Heat				
Steam	12,650.06	12,650.06	0	0
Cooling				

C9. Additional metrics

C9.1

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

C10. Verification

C10.1

(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	No third-party verification or assurance

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

Moderate assurance

Attach the statement

2020-08-24_ThermoFisherAssurance_statement_V2.0.pdf

Page/ section reference

Relevant standard

AA1000AS

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

Moderate assurance

Attach the statement

2020-08-24_ThermoFisherAssurance_statement_V2.0.pdf

Page/ section reference

Relevant standard

AA1000AS

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?

No, but we are actively considering verifying within the next two years

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.

UK carbon price floor

C11.1c

(C11.1c) Complete the following table for each of the tax systems you are regulated by.

UK carbon price floor

Period start date

June 1, 2018

Period end date

June 30, 2019

% of total Scope 1 emissions covered by tax

8

Total cost of tax paid

64,160

Comment

C11.1d

(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

The energy procurement team has a dedicated annual budget to finance efficiency projects in the portfolio and those funds can be used for projects in the U.K. to reduce reliance on fossil fuels through efficiency measures. In Q3 2019 Thermo Fisher contracted with an electricity provider to buy all electricity to sites located in the UK from certified renewable energy sources.

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?

No

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

Yes, our suppliers

Yes, our customers

Yes, other partners in the value chain

C12.1a

(C12.1a) Provide details of your climate-related supplier engagement strategy.

Type of engagement

Information collection (understanding supplier behavior)

Details of engagement

Collect climate change and carbon information at least annually from suppliers

% of suppliers by number

% total procurement spend (direct and indirect)

% of supplier-related Scope 3 emissions as reported in C6.5

Rationale for the coverage of your engagement

These suppliers are considered most at risk of non-compliance

Impact of engagement, including measures of success

Most had never reported on these metrics before. We asked them to submit via EcoVadis

Comment

This program is mentioned in our assurance letter attached to this module

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement

Education/information sharing

Details of engagement

Share information about your products and relevant certification schemes (i.e. Energy STAR)

% of customers by number

17

% of customer - related Scope 3 emissions as reported in C6.5

Please explain the rationale for selecting this group of customers and scope of engagement

We engage with larger customers who have their own environmental sustainability metrics that need to be satisfied. They look to us for education on our product lines and better product choices they could make to achieve their sustainability targets as well as collaborate on efficient shipping methods.

Impact of engagement, including measures of success

In 2019 educational presentations were made to clients totaling over $10 billion in revenue for the year.

Type of engagement

Collaboration & innovation

Details of engagement

Other, please specify

Specific carbon reduction initiatives in collaboration with customers

% of customers by number

25

% of customer - related Scope 3 emissions as reported in C6.5

Please explain the rationale for selecting this group of customers and scope of engagement

Requests for collaboration are usually customer driven and therefore we are responding to individual customer needs.

Impact of engagement, including measures of success

Customer retention

C12.1d

(C12.1d) Give details of your climate-related engagement strategy with other partners in the value chain.

Thermo Fisher regularly engages the company's employees by raising awareness about environmental sustainability and enabling individuals to plan, implement, and participate in energy efficiency initiatives. Some of our sites around the world have employee-led Green Teams that identify opportunities to enhance energy efficiency, reduce waste, and raise awareness among their colleagues. For example, in 2019 engaged colleagues in Germany piloted a renewable electricity purchase pilot at one site that was successful and expanded to a renewable electricity purchase contract for all Company sites in the country. At another site in the Czech Republic a site led initiative to install solar panels at the site was initiated with installation of the panels completed in 2020.
Additionally, Thermo Fisher offers incentives and encourages employees to engage in behaviours that reduce greenhouse gas emissions such as carpooling, using electric vehicles, and taking public transit. We have several sites with bike share programs that have been initiated within the past two years. Our site in Brno, Czech Republic received the Cycle-Friendly Employer Certification, a European standard. Certain sites have also installed electric car charging stations onsite for employee use.
Thermo Fisher engages with external partners as well. In 2019 the company signalled its increasing commitment to responsible citizenship by signing on to the U.N. Global Compact.

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

Direct engagement with policy makers
Trade associations

C12.3a

(C12.3a) On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate position	Details of engagement	Proposed legislative solution
Other, please specify monitoring GHG emissions and	Support	A representative of the Company sits on the board of the ICAC, We work with major manufacturing and business associations to ensure that they're advocating U.S. climate policies that are pragmatic and	The Company works with legislators, regulators, trade associations and industry to ensure that the most effective public

environmental policy		technologically feasible. The Company is a member of the EWG of BUSINESSEUROPE and a member of AQUILA. In China, we are an active member of the China Association of Environmental Protection Industry, China Society for Environmental Science and the AmCham China Environmental Industry Forum for technology exchange and policy advocacy. We work with the U.S. Embassy in Beijing and the U.S.-China Energy Cooperation Program to participate in seminars to provide tools and solutions for industry leaders to solve environmental issues. We also participated in the environmental policy and standards discussions with China's Ministry of Environmental Protection. We support the EDF in China on its research efforts. The goals of this partnership are providing technical guidance on GhG emission solutions and promoting the carbon trade. We also work with the China Automobile Technology Research Center, providing technical assistance in standards development for VOC emission control. Lastly, in China we are a part of the Joint International Clean Technology Promotion Mission, organized by Chinese government to help Chinese companies in chemical engineering, equipment manufacturing, electronic, pharma production, grain & oil and other industries, to develop themselves in a responsible way. In India, as a member of the U.S.-India Strategic Partnership Forum to raise awareness of the need for improved air quality, and we are partnering with the NITI Aayog ; the Ministry of Environment, Forests, and Climate Change; and the Central Pollution Control Board to aid in the development of air quality guidelines that improve monitoring for pollutants, such as PoPs. We also work closely with petroleum refineries, Coal India and the National Thermal Power Corporation to monitor sulfur content in petroleum products, and CO2, CO, CH4, SO2,	policies, regulations, and directives are implemented to control and mitigate harmful emissions.

		NOX, mercury and chlorine emissions from coal-based power plants. Around the world, the Company is engaged with foreign governments to deploy upgraded national air quality monitoring systems.	

C12.3b

(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?

No

C12.3f

(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

The government relations department communicates engagement activities as required to employees involved in climate change strategy development and implementation.

C12.4

(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 voluntary sustainability report

Status

Underway – previous year attached

Attach the document

Link to online CSR Report.docx

Page/Section reference

Thermo Fisher Scientific's full CSR Report is available online only this year. We only provide a truncated version in PDF format. We only print on demand to reduce the carbon footprint of our report. The Report can be found on our external website: https://www.thermofisher.com/us/en/home/about-us/corporate-social-responsibility.html
The Environment section of the report is here: https://www.thermofisher.com/us/en/home/about-us/corporate-social-responsibility/environment.html

Content elements

Governance
Strategy
Emissions figures
Emission targets
Other metrics

Comment

Publication

In mainstream reports

Status

Complete

Attach the document

Link to 2020 Proxy

Page/Section reference

Page 32 - Strategy
Page 34 -Emissions target

Content elements

Governance
Strategy
Emission targets
Other metrics

Comment

C15. Signoff

C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	SVP, Strategy and Corporate Development	Other C-Suite Officer