Trane Technologies

2024 CDP Corporate Questionnaire 2024

Contents

C1. Introduction

(1.1) In which language are you submitting your response?

Select from:

☑ English

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

Select from:

☑ USD

(1.3) Provide an overview and introduction to your organization.

(1.3.2) Organization type

Select from:

☑ Publicly traded organization

(1.3.3) Description of organization

Trane Technologies is a global climate innovator that brings efficient and sustainable climate solutions to buildings, homes and transportation through our strategic brands Trane and Thermo King and an innovative, environmentally responsible portfolio of products and services, and connected intelligent controls. In 2023, we generated 17.68B in revenue primarily through the design, manufacture, sale and service of a diverse portfolio of innovative climate control products and services for Heating, Ventilation and Air Conditioning (HVAC), transport refrigeration and custom refrigeration solutions. We accomplish this through relentless investment in customer-driven product and service innovation to drive market outgrowth and generate powerful free cash flow. Growth is also a result of increasing revenues from services, parts, controls, and rentals and we continue to focus on margin expansion through pricing and improved productivity. Successful execution of these focus areas will allow us to maintain and grow our position as a global climate innovator creating comfortable, sustainable, and efficient environments. Since 2009, we have focused on long-term sustainability goals to advance our environmental performance. In 2019 we announced our 2030 commitments which include: The Gigaton Challenge, our pledge to reduce customer carbon emissions by one billion metric tons. This will require reducing emissions from products and services by 55% per thermal ton by 2030, a target that has been validated by the Science Based Targets initiative (SBTi). The Gigaton Challenge will be accomplished by: • Accelerating clean technologies that heat and cool buildings in sustainable ways • Increasing energy efficiency in buildings, homes, and transport environments • Reducing food loss in the global cold chain • Transitioning out of high-global warming potential refrigerants by 2030 (ahead of regulation) • Designing systems for circularity • Increasing access to cooling and fresh food Our Leading by Example commitment represents our operational goals: • Achieving carbon neutral operations •

Delivering zero waste to landfills • Becoming net positive with water use in water-stressed regions • Reducing absolute energy consumption by 10%, compared to the 2019 baseline Our Opportunity for All commitment focuses on expanding workforce diversity and creating pathways to green and STEM (Science, Technology, Engineering, and Math) careers. We will: • Achieve workforce diversity reflective of our communities • Achieve gender parity (50% women) in management and leadership roles • Maintain world-class safety metrics • Provide market-competitive wages, benefits, and leading wellness offerings for workforce • Invest 100 million in building sustainable futures for under-represented students • Dedicate 500,000 employee volunteer hours in our communities We also have pledged to achieve net-zero carbon emissions by 2050. In 2021, we submitted our net-zero targets to the Science Based Targets Initiative (SBTi) and received approval for these Scope 1, 2, and 3 targets in 2022.
[Fixed row]

(1.4) State the end date of the year for which you are reporting data. For emissions data, indicate whether you will be providing emissions data for past reporting years.

	End date of reporting year	Alignment of this reporting period with your financial reporting period	Indicate if you are providing emissions data for past reporting years
	12/31/2023	*Select from:* ☑ Yes	*Select from:* ☑ No

[Fixed row]

(1.4.1) What is your organization's annual revenue for the reporting period?

17677600000

(1.5) Provide details on your reporting boundary.

	Is your reporting boundary for your CDP disclosure the same as that used in your financial statements?
	Select from: ☑ Yes

[Fixed row]

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

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ No

ISIN code - equity

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

IE00BK9ZQ967

CUSIP number

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ Yes

(1.6.2) Provide your unique identifier

G8994E

Ticker symbol

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ Yes

(1.6.2) Provide your unique identifier

TT

SEDOL code

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

LEI number

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

D-U-N-S number

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ No

Other unique identifier

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ No

[Add row]

(1.7) Select the countries/areas in which you operate.

Select all that apply

☑ China
☑ Italy
☑ Spain
☑ Brazil
☑ Canada
☑ Thailand
☑ Puerto Rico
☑ Saudi Arabia
☑ United States of America
☑ United Kingdom of Great Britain and Northern Ireland
☑ France
☑ Mexico
☑ Czechia
☑ Germany
☑ Ireland

(1.8) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
	Select from: ☑ No, this is confidential data	*We currently do not provide geolocation data for all facilities.*

[Fixed row]

(1.24) Has your organization mapped its value chain?

(1.24.1) Value chain mapped

Select from:

☑ Yes, we have mapped or are currently in the process of mapping our value chain

(1.24.2) Value chain stages covered in mapping

Select all that apply

☑ Upstream value chain

☑ Downstream value chain

(1.24.3) Highest supplier tier mapped

Select from:

☑ Tier 1 suppliers

(1.24.4) Highest supplier tier known but not mapped

Select from:

☑ Tier 2 suppliers

(1.24.7) Description of mapping process and coverage

We regularly conduct a value chain mapping process to help us understand where risks and opportunities arise in our value chain.
[Fixed row]

(1.24.1) Have you mapped where in your direct operations or elsewhere in your value chain plastics are produced, commercialized, used, and/or disposed of?

	Plastics mapping	Primary reason for not mapping plastics in your value chain	Explain why your organization has not mapped plastics in your value chain
	Select from: ☑ No, but we plan to within the next two years	*Select from:* ☑ No standardized procedure	*We have not began conducting a value chain mapping specific to plastics.*

[Fixed row]

C2. Identification, assessment, and management of dependencies, impacts, risks, and opportunities

(2.1) How does your organization define short-, medium-, and long-term time horizons in relation to the identification, assessment, and management of your environmental dependencies, impacts, risks, and opportunities?

Short-term

(2.1.1) From (years)

1

(2.1.3) To (years)

3

(2.1.4) How this time horizon is linked to strategic and/or financial planning

This time horizon is aligned with our strategic and financial planning.

Medium-term

(2.1.1) From (years)

3

(2.1.3) To (years)

10

(2.1.4) How this time horizon is linked to strategic and/or financial planning

This time horizon is aligned with our strategic and financial planning.

Long-term

(2.1.1) From (years)

10

(2.1.2) Is your long-term time horizon open ended?

Select from:

☑ No

(2.1.3) To (years)

30

(2.1.4) How this time horizon is linked to strategic and/or financial planning

This time horizon is aligned with our strategic and financial planning.
[Fixed row]

(2.2) Does your organization have a process for identifying, assessing, and managing environmental dependencies and/or impacts?

	Process in place	Dependencies and/or impacts evaluated in this process
	Select from: ☑ Yes	*Select from:* ☑ Both dependencies and impacts

[Fixed row]

(2.2.1) Does your organization have a process for identifying, assessing, and managing environmental risks and/or opportunities?

	Process in place	Risks and/or opportunities evaluated in this process	Is this process informed by the dependencies and/or impacts process?
	Select from: ☑ Yes	*Select from:* ☑ Both risks and opportunities	*Select from:* ☑ Yes

[Fixed row]

(2.2.2) Provide details of your organization's process for identifying, assessing, and managing environmental dependencies, impacts, risks, and/or opportunities.

Row 1

(2.2.2.1) Environmental issue

Select all that apply

☑ Climate change

(2.2.2.2) Indicate which of dependencies, impacts, risks, and opportunities are covered by the process for this environmental issue

Select all that apply

☑ Dependencies

☑ Impacts

☑ Risks

☑ Opportunities

(2.2.2.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

☑ Downstream value chain

☑ End of life management

(2.2.2.4) Coverage

Select from:

☑ Full

(2.2.2.5) Supplier tiers covered

Select all that apply

☑ Tier 1 suppliers

(2.2.2.7) Type of assessment

Select from:

☑ Qualitative and quantitative

(2.2.2.8) Frequency of assessment

Select from:

☑ Annually

(2.2.2.9) Time horizons covered

Select all that apply

☑ Short-term

☑ Medium-term

☑ Long-term

(2.2.2.10) Integration of risk management process

Select from:

☑ Integrated into multi-disciplinary organization-wide risk management process

(2.2.2.11) Location-specificity used

Select all that apply

☑ Site-specific

☑ Local

☑ National

(2.2.2.12) Tools and methods used

Enterprise Risk Management

☑ Enterprise Risk Management

☑ Internal company methods

International methodologies and standards

☑ Life Cycle Assessment

Databases

☑ Nation-specific databases, tools, or standards

(2.2.2.13) Risk types and criteria considered

Acute physical

☑ Drought

☑ Wildfires

☑ Heat waves

☑ Cold wave/frost

☑ Heavy precipitation (rain, hail, snow/ice)

☑ Flood (coastal, fluvial, pluvial, ground water)

Chronic physical

☑ Changing precipitation patterns and types (rain, hail, snow/ice)

☑ Changing temperature (air, freshwater, marine water)

☑ Water stress

Policy

☑ Carbon pricing mechanisms

☑ Changes to international law and bilateral agreements

☑ Changes to national legislation

Market

☑ Changing customer behavior

Reputation

☑ Other reputation, please specify **:**Integrated into Enterprise Risk Intelligence using the description: The risk that actual or perceived incidents or actions (e.g. environmental damage) at Trane Technologies may lead to reputation or brand damage.

Technology

☑ Transition to lower emissions technology and products

Liability

☑ Other liability, please specify **:**For Trane Technologies, because our biggest climate-related impact is from the energy and refrigerant use of our products,. we address both future and current legal risk under current and emerging regulation.

(2.2.2.14) Partners and stakeholders considered

Select all that apply

☑ Customers

☑ Employees

☑ Investors

☑ Local communities

(2.2.2.15) Has this process changed since the previous reporting year?

Select from:

☑ No

(2.2.2.16) Further details of process

Trane Technologies Enterprise Risk Intelligence Committee (ERI) integrates climate related risk into its risk intelligence process and is a key part of our ESG oversight and management. Our ERI team works closely with our enterprise leadership team throughout the year to evaluate, manage, and plan risk management for the businesses upstream, downstream, and direct operations. We define our value chain stages through the guidance of the GHG Protocol. The Board of Directors' Sustainability, Corporate Governance, and Nominating Committee oversees the Company's sustainability efforts, including the development and implementation of policies relating to ESG issues. Members of this Committee monitor the Company's performance against its sustainability and ESG objectives, including the risks of climate change. The Technology and Innovation Committee within the Board of Directors also considers climate risk as they propose strategies for innovative solutions to address climate change, GHG emissions, and the need for products built with circularity and energy efficiency in the forefront. Our strategy to identify, assess, and manage climate risk takes place within our ESG management and oversight process.
[Add row]

(2.2.7) Are the interconnections between environmental dependencies, impacts, risks and/or opportunities assessed?

(2.2.7.1) Interconnections between environmental dependencies, impacts, risks and/or opportunities assessed

Select from:

☑ Yes

(2.2.7.2) Description of how interconnections are assessed

In 2022, Trane Technologies performed a quantitative and qualitative climate scenario analysis to identify and manage emerging and existing climate-related risks and opportunities to the business. Scenario analysis is used to enhance the resiliency of the organization through assessment of potential futures surrounding policy developments and market shifts, physical impacts, as well as interpreting the implications and impacts under different future scenarios. The climate scenario analysis for transition risks and opportunities included direct consolidated operations and excluded upstream and downstream suppliers, organizations, customers, and other operations not within direct consolidated control of Trane Technologies. The physical climate risk assessment included 45 priority locations around the world and their insured asset values, which included several facility types such as manufacturing, office, and research and development. Our Enterprise Risk Intelligence Committee integrates climate-related risks and opportunities into the risk management process and is a key part of ESG oversight and management. The Enterprise Risk Intelligence Committee works closely with the Enterprise Leadership Team throughout the year to evaluate, manage, and plan climate risk management for the businesses' upstream, downstream, and direct operations.
[Fixed row]

(2.3) Have you identified priority locations across your value chain?

(2.3.1) Identification of priority locations

Select from:

☑ Yes, we are currently in the process of identifying priority locations

(2.3.2) Value chain stages where priority locations have been identified

Select all that apply

☑ Direct operations

☑ Upstream value chain

(2.3.3) Types of priority locations identified

Sensitive locations

☑ Areas of limited water availability, flooding, and/or poor quality of water

Locations with substantive dependencies, impacts, risks, and/or opportunities

☑ Locations with substantive dependencies, impacts, risks, and/or opportunities relating to water

(2.3.4) Description of process to identify priority locations

We have identified priority locations through climate scenario planning as well as we are currently undergoing a nature LEAP assessment.

(2.3.5) Will you be disclosing a list/spatial map of priority locations?

Select from:

☑ No, we have a list/geospatial map of priority locations, but we will not be disclosing it

[Fixed row]

(2.4) How does your organization define substantive effects on your organization?

Risks

(2.4.1) Type of definition

Select all that apply

☑ Qualitative

☑ Quantitative

(2.4.2) Indicator used to define substantive effect

Select from:

☑ Other, please specify :represents (i) a reasonable possibility of potential misstatement of our financial statements and/or disclosures or any other matter deemed qualitatively significant

(2.4.3) Change to indicator

Select from:

☑ Absolute increase

(2.4.5) Absolute increase/ decrease figure

5000000

(2.4.6) Metrics considered in definition

Select all that apply

☑ Frequency of effect occurring

☑ Time horizon over which the effect occurs

☑ Likelihood of effect occurring

(2.4.7) Application of definition

We use a risk rating framework which is aligned to our overall risk assessment criteria we use for audit and compliance issues that we escalate to senior leadership. There are four issue categories within the framework: financial issues, operational issues, compliance issues, and IT issues. For example, Financial Issues are categorized as follows: High – represents (i) a reasonable possibility of potential misstatement of our financial statements and/or disclosures of greater than 3M for

the P&L and greater than 5M for the Balance Sheet, (ii) any matter of fraud committed by any member of senior management or any employee who plays a significant role in the financial reporting process, (iii) a significant deviation from our technical accounting and/or internal control policies, or (iv) any other matter deemed to be qualitatively significant to our system of internal control over financial reporting. Medium – represents (i) a reasonable possibility of potential misstatement of our financial statements and/or disclosures of greater than 500k and less than 3M for the P&L and greater than 1M and less than 5M for the Balance Sheet, (ii) a deviation from our technical accounting and/or internal control policies, or (iii) key controls are not operating as designed or do not exist, but mitigating controls exist and are operating effectively. Low - represents (i) a reasonable possibility of potential misstatement of our financial statements and/or disclosures of less than 500k for the P&L and less than 1M or the Balance Sheet, (ii) a deviation from our technical accounting and/or internal control policies, or (iii) controls are not operating as designed or do not exist, but mitigating controls exist and are operating effectively. We escalate issues to the Board when the significance of an issue, or combination of issues, in internal control over financial reporting is deemed to merit the attention by those responsible for the oversight of our financial reporting or an issue, or combination of issues, in internal control over financial reporting represents a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or detected on a timely basis.

Opportunities

(2.4.1) Type of definition

Select all that apply

☑ Qualitative

☑ Quantitative

[Add row]

(2.5) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

(2.5.1) Identification and classification of potential water pollutants

Select from:

☑ Yes, we identify and classify our potential water pollutants

(2.5.2) How potential water pollutants are identified and classified

Water pollutants of concern are identified as part of our wastewater discharge permitting process that is completed with local water authorities. We adopt and integrate pre-treatment and work practices to ensure our discharged effluent is compliant with the standards adopted for the parameters of concern.

[Fixed row]

(2.5.1) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.

Row 1

(2.5.1.1) Water pollutant category

Select from:

☑ Nitrates

(2.5.1.2) Description of water pollutant and potential impacts

Our factories with permitted wastewater pre-treatment systems have in some cases discharge limits assigned for nitrogen/nitrate species. Our monitoring indicates discharges are very low or below detectable levels for nitrogen related species. The pre-treatment systems discharge to the community wastewater treatment system for final treatment. Trane Technologies does not discharge pre-treated wastewater directly to receiving water bodies. The potential for environmental impact for discharged nitrates is very low.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

☑ Beyond compliance with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

(2.5.1.5) Please explain

Our operations are not a source of nitrogen related water contaminates.

Row 3

(2.5.1.1) Water pollutant category

Select from:

☑ Inorganic pollutants

(2.5.1.2) Description of water pollutant and potential impacts

Our manufacturing facilities with tertiary wastewater pre-treatment systems are permitted with the local water authorities for discharges of low concentrations of inorganic metals. The pre-treatment systems remove most of the metals from the process influent. The treated water/effluent is discharged to the community wastewater treatment system for final treatment. Trane Technologies does not discharge pre-treated wastewater directly to receiving water bodies. The potential for environmental impact for discharged inorganic materials is very low.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Beyond compliance with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

(2.5.1.5) Please explain

Trane Technologies operates all pre-treatment equipment above and beyond the regulatory standards. We utilize an internal discharge limit of 50% of the regulatory limit to ensure that we minimize the concentration of all regulated materials. We have further moved to utilizing of batch treatment equipment for most locations that allows us to confirm every batch of treated water is within the internal/50% lower discharge limit.

Row 4

(2.5.1.1) Water pollutant category

Select from:

☑ Phosphates

(2.5.1.2) Description of water pollutant and potential impacts

In some cases, Trane Technologies completes zinc phosphatizing to prepare water parts for painting. These locations all utilize tertiary pre-treatment systems that are permitted with the local water authorities for discharges of low concentrations of phosphates/phosphorous species. The pre-treatment systems remove most of the phosphates from the process influent. The treated water/effluent is discharged to the community wastewater treatment system for final treatment. Trane Technologies does not discharge pre-treated wastewater directly to receiving water bodies. The potential for environmental impact for discharged phosphorous related materials is very low.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

☑ Beyond compliance with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

(2.5.1.5) Please explain

Trane Technologies operates all pre-treatment equipment above and beyond the regulatory requirements. We utilize an internal discharge limit of 50% of the regulatory limit to ensure that we minimize the concentration of all regulated materials. We have further moved to utilizing of batch treatment equipment for most locations that allows us to confirm every batch of treated water is within the internal/50% lower discharge limit.

Row 5

(2.5.1.1) Water pollutant category

Select from:

☑ Oil

(2.5.1.2) Description of water pollutant and potential impacts

Our manufacturing facilities that generate process wastewater have the potential to discharge oily materials. We utilize both permitted and voluntary pre-treatment systems to remove oil before effluent is released to the community wastewater treatment system for final treatment. Trane Technologies does not discharge pre-treated wastewater directly to receiving water bodies. The potential for environmental impact from discharged oily materials is expected to be very low.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

☑ Resource recovery

☑ Beyond compliance with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

(2.5.1.5) Please explain

Trane Technologies operates all pre-treatment equipment above and beyond the regulatory standards. We utilize an internal discharge limit of 50% of the regulatory limit to ensure that we minimize the concentration of all regulated materials. We have further moved to utilizing batch treatment equipment for most locations that allows us to confirm that every batch of treated water is within the internal/50% lower discharge limit. Our locations also utilize oil spill and prevention measures (e.g., containment, good housekeeping, emergency response, etc.) to avoid oily materials impacting water.
[Add row]

C3. Disclosure of risks and opportunities

(3.1) Have you identified any environmental risks which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

Climate change

(3.1.1) Environmental risks identified

Select from:

☑ Yes, both in direct operations and upstream/downstream value chain

Water

(3.1.1) Environmental risks identified

Select from:

☑ No

(3.1.2) Primary reason why your organization does not consider itself to have environmental risks in your direct operations and/or upstream/downstream value chain

Select from:

☑ Evaluation in progress

(3.1.3) Please explain

We are currently undergoing a nature and water LEAP assessment.

Plastics

(3.1.1) Environmental risks identified

Select from:

☑ No

(3.1.2) Primary reason why your organization does not consider itself to have environmental risks in your direct operations and/or upstream/downstream value chain

Select from:

☑ Not an immediate strategic priority

(3.1.3) Please explain

We have not begun assessing risks related to plastics for our organization.
[Fixed row]

(3.1.1) Provide details of the environmental risks identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk1

(3.1.1.3) Risk types and primary environmental risk driver

Technology

☑ Other technology risk, please specify :Substitution of existing products and services with lower emissions options

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

In the case of aggressive climate action SSP1-1.9 (1.5ºC) or IEA APS, there could be high negative impact on sales of HVAC and transport solutions. Assuming Trane Technologies' share in the sector remaining constant, the enterprise valuation is expected to be roughly 13% lower as compared to the business-as-usual scenario. There may be significant requirement to rework manufacturing and product value offering due to rapid changes in demand in technology leading to a high impact on operating costs and R&D expenditures. Trane Technologies may see major investment requirements and costs associated with continual innovation to meet changing demands and policies for products. Trane Technologies may see significant change in the mix of priority products and markets due to changing demands for technology in efficient operation and energy use. Revenues are estimated to shrink by about 7% against the 2021 baseline due to changes in demand. Based on the climate scenario analysis conducted in 2022, Trane Technologies believes we are well prepared to seize opportunities arising from climate change. Our business strategy is aligned to sustainability megatrends and we stay abreast of emerging policy and regulations. We continually invest in innovation to develop industry-leading, sustainable solutions, and could see significant demand from customers for these products and services.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Decreased revenues due to reduced demand for products and services

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Unlikely

(3.1.1.14) Magnitude

Select from:

☑ Medium-low

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

989,800,000

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ Yes

(3.1.1.21) Anticipated financial effect figure in the medium-term – minimum (currency)

989800000

(3.1.1.22) Anticipated financial effect figure in the medium-term – maximum (currency)

989800000

(3.1.1.25) Explanation of financial effect figure

The above is an estimate based on: Based on aggressive climate scenario, revenues could potentially shrink 7% against our 2021 baseline. In 2021, revenues were 14.14b..07x14.14b 989,800,000

(3.1.1.26) Primary response to risk

Infrastructure, technology and spending

☑ Increase investment in R&D

(3.1.1.27) Cost of response to risk

252300000

(3.1.1.28) Explanation of cost calculation

In 2023, we spent 252.3M in sustainability-driven R&D focused on innovation.

(3.1.1.29) Description of response

Trane Technologies has taken various measures to reduce its risk for technology obsolescence, through R&D investment in energy efficient products, developing products that allow for use of lower GWP refrigerants, substitute materials and fuels, and other innovation research to prepare for shifting trends in technology. Trane Technologies is also using R&D to develop electrification solutions for comfort and process heating and refrigerated transport. In 2023, we spent 252.3M in sustainability-driven R&D focused on innovation.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk2

(3.1.1.3) Risk types and primary environmental risk driver

Acute physical

☑ Flooding (coastal, fluvial, pluvial, groundwater)

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

The analysis determined that Trane Technologies' direct operations are projected to experience impact as it relates to both acute physical risks and chronic physical risks from climate change under the insufficient climate action scenario, moderate climate action scenario, and aggressive climate action scenario. Trane Technologies locations are exposed to multiple physical hazards, with locations in China, the United States, India and Thailand exposed to the most severe physical risks. Across priority physical hazards, the greatest physical risk exposure across Trane Technologies' locations is to extreme heat, extreme cold, and extreme precipitation. Sea level rise may result in high rates of coastal flooding at certain facilities. Undertaking physical scenario analysis for Trane Technologies' priority facilities selected helps to indicate the degree of potential flooding which could lead to increase in operating costs and capital costs due to damages. The occurrence of one or more unexpected events including hurricanes, floods and other forms of severe weather could adversely affect our operations and financial performance. This could result in physical damage to and complete or partial closure of one or more of our plants, temporary or long-term disruption of our operations by causing business interruptions or by impacting the availability and cost of materials needed for manufacturing.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Disruption in production capacity

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Likely

(3.1.1.14) Magnitude

Select from:

☑ Medium

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

81900000

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ Yes

(3.1.1.21) Anticipated financial effect figure in the medium-term – minimum (currency)

81900000

(3.1.1.22) Anticipated financial effect figure in the medium-term – maximum (currency)

81900000

(3.1.1.25) Explanation of financial effect figure

Under the assumption of a medium time horizon for acute physical risks, each site is assigned an exposure rating from very low to very high. For sites that are considered very high risk for flooding, we have identified the 2022 Cost of Goods Sold (COGS) as: 81.9M. We estimate that this could be the potential impact if site with high flood risk were unable to operate.

(3.1.1.26) Primary response to risk

Compliance, monitoring and targets

☑ Implementation of environmental best practices in direct operations

(3.1.1.27) Cost of response to risk

0

(3.1.1.28) Explanation of cost calculation

There is no cost of response to this risk as it is rolled into our water management process.

(3.1.1.29) Description of response

Planning for an extreme weather event, and other crises, is managed as a risk in our Enterprise Risk Intelligence process and is consistent with our core corporate values. For example: The Trane Technologies Crisis Management Resource Guide and our Facility Crisis Management Plans, have been developed to help manage a crisis successfully at the local level by minimizing impact through a structured, timely and practiced response. Relative to water stress: Annually, we conduct a risk

assessment using the World Resources Institute (WRI) Aqueduct (TM) tool and designate sites that score medium-high or high for water stress. We consider physical risk quality and quantity, as well as regulatory and reputational risk. In 2023, 17 sites globally were considered to be in areas at risk. For these sites we have a 2030 target in place to reduce water consumption and to be net water positive. We have enterprise water management policies for water supply management, storm water management and wastewater discharge management. There is no cost of response to this risk as it is rolled into our water management process.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk3

(3.1.1.3) Risk types and primary environmental risk driver

Policy

☑ Carbon pricing mechanisms

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

The impact of climate change due to exposure to emerging GHG emissions regulations and taxation considering short term time horizons i.e. for the period 1-3 years is detailed below: Under the assumption of aggressive climate action SSP1-1.9 (1.5ºC) or IEA APS, there may be heightened costs associated with compliance with regulations and policies. If the carbon intensity of business stays constant, Trane Technologies may directionally incur carbon costs in Asia, the Americas and EMEA under SSP1-1.9 and under low energy demand. If Trane Technologies stays on a Net Zero by 2050 trajectory, carbon costs may be significantly reduced but still present. Trane Technologies may see significant increase in operating costs associated with meeting GHG emissions regulations in several areas (i.e. energy efficiency, building codification and requirements, materials regulation, refrigerants, carbon costs, emissions restrictions, net zero targets). Trane Technologies may

see reduction in demand for products dependent on fossil fuels and other high GWP materials. Based on the climate scenario analysis conducted in 2022, Trane Technologies believes we are well prepared to seize opportunities arising from climate change. Our business strategy is aligned to sustainability megatrends and we stay abreast of emerging policy and regulations. We continually invest in innovation to develop industry-leading, sustainable solutions, and could see significant demand for these products and services

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Increased compliance costs

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Unlikely

(3.1.1.14) Magnitude

Select from:

☑ Medium-low

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

265000000

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ Yes

(3.1.1.21) Anticipated financial effect figure in the medium-term – minimum (currency)

265000000

(3.1.1.22) Anticipated financial effect figure in the medium-term – maximum (currency)

265000000

(3.1.1.25) Explanation of financial effect figure

Under the assumption of aggressive climate action SSP1- 1.9 (1.5ºC) or IEA APS, if carbon intensity of the business stays constant, we estimate that Trane Technologies may potentially incur carbon costs of up to 265M.

(3.1.1.26) Primary response to risk

Engagement

☑ Align organization’s public policy engagement with its environmental strategy

(3.1.1.27) Cost of response to risk

0

(3.1.1.28) Explanation of cost calculation

This risk response is built into our advocacy strategy. We have a robust advocacy strategy that addresses the risk that global climate change may negatively affect Trane Technologies' operations due to changes in legislative and regulatory requirements or potential defunding of climate-related international agreements or initiatives. We have a commitment to reduce absolute energy consumption by 10% by 2030, commitment to be 100% renewable energy powered by 2040, as well as a SBTi approved net-zero commitment by 2050.

(3.1.1.29) Description of response

The projected outcomes in each of the foregoing scenarios is based only on the limited assumptions that have been provided and actual results under any or all of the scenarios could materially differ due to factors outside of the scope of these assumptions, or if the assumptions differ. This information should not be relied upon as a statement of, or revision to, any forward-looking guidance provided by the Company in conjunction with its SEC filings.
[Add row]

(3.1.2) Provide the amount and proportion of your financial metrics from the reporting year that are vulnerable to the substantive effects of environmental risks.

Climate change

(3.1.2.1) Financial metric

Select from:

☑ OPEX

(3.1.2.2) Amount of financial metric vulnerable to transition risks for this environmental issue (unit currency as selected in 1.2)

252000000

(3.1.2.3) % of total financial metric vulnerable to transition risks for this environmental issue

Select from:

☑ 1-10%

(3.1.2.4) Amount of financial metric vulnerable to physical risks for this environmental issue (unit currency as selected in 1.2)

0

(3.1.2.5) % of total financial metric vulnerable to physical risks for this environmental issue

Select from:

☑ Less than 1%

(3.1.2.7) Explanation of financial figures

The cost associated with development of energy efficient technologies and management of policy advocacy are accounted for in our sustainability-driven R&D. Our R&D spend in 2023 was 252m USD, therefore we believe this is what is vulnerable to the effects of transition risk within the reporting year.

[Add row]

(3.3) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

	Water-related regulatory violations	Comment
	Select from: ☑ No	*No fines, penalties, or enforcement orders occurred calendar year 2023.*

[Fixed row]

(3.5) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

Select from:

☑ No, and we do not anticipate being regulated in the next three years

(3.6) Have you identified any environmental opportunities which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

Climate change

(3.6.1) Environmental opportunities identified

Select from:

☑ Yes, we have identified opportunities, and some/all are being realized

Water

(3.6.1) Environmental opportunities identified

Select from:

☑ No

(3.6.2) Primary reason why your organization does not consider itself to have environmental opportunities

Select from:

☑ Evaluation in progress

(3.6.3) Please explain

We are currently undergoing a nature and water LEAP assessment.
[Fixed row]

(3.6.1) Provide details of the environmental opportunities identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp1

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Products and services

☑ Increased sales of existing products and services

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Under the assumption of aggressive climate action SSP1-1.9 (1.5ºC) there may be potential for high growth through aggressive new product development. The enterprise valuation of a company the size of Trane Technologies could shrink by approximately 27% under a low energy demand scenario thereby indicating a potential 27% market in new products that may be captured by Trane Technologies through development of low energy and low carbon emission products. Trane Technologies could see significant demand from customers for energy efficient products to meet regulatory requirements and policies. There may be an increase in revenue available to capture from aligning with requirements such as building codes for efficiency, emissions output of products, material sourcing, and other technological advancements. Utilizing these assumptions, we could envision an approximately 32% growth in revenue may be captured by investing in alternative technologies. Based on the climate scenario analysis conducted in 2022, Trane Technologies believes we are well prepared to seize opportunities arising from climate change. Our business strategy is aligned to sustainability megatrends and we stay abreast of emerging policy and regulations. We continually invest in innovation to develop industry-leading, sustainable solutions, and could see significant demand from customers for these products and services.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased revenues resulting from increased demand for products and services

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Likely (66–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium-high

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Increased revenues due to increased demand of products.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.19) Anticipated financial effect figure in the medium-term - minimum (currency)

7245000000

(3.6.1.20) Anticipated financial effect figure in the medium-term - maximum (currency)

7245000000

(3.6.1.23) Explanation of financial effect figures

The above is an estimate based on: More than 90 percent of our product portfolio directly addresses demands for greater energy efficiency with lower greenhouse gas (GHG) emissions in buildings, homes and transport markets around the world. We reported net revenues of 17.68B in 2023, with 41% of that calculated as clean revenue. We measure and track our progress towards an energy-efficient and low-emission product portfolio through revenue estimated as Clean Revenue, which is defined as revenue from products, services and solutions that directly or indirectly help decarbonize our customers' value chain. Our definition is based on Corporate Knights' definition, the green revenue classification from FTSE, and our internal expertise. We expect demand for our energy-efficient products and services will increase with effective product efficiency regulation. We estimate that 41 percent of our 2023 revenue is the gross potential financial impact. 41% x 17.68B 7.245B.

(3.6.1.24) Cost to realize opportunity

252299998

(3.6.1.25) Explanation of cost calculation

The cost associated with development of energy efficient technologies and management of policy advocacy are accounted for in our sustainability-driven R&D. Our R&D spend in 2023 was 252.3m USD, therefore that is the cost to realize this opportunity.

(3.6.1.26) Strategy to realize opportunity

Product development and innovation: Our portfolio most directly affects the environment during the in-use phase of the product's life cycle, so designing for energy efficient operation is paramount. Trane Technologies supports cost effective policies that facilitate market transition to more energy efficient technologies. We actively advocate for legislative efforts to facilitate the increased use of energy efficiency technologies in the residential and commercial sectors while fostering job creation. We define our customer carbon footprint as those emissions we are able to avoid through the use of our products when compared to a business as usual scenario. Increased demand for system-level building efficiency in the face of climate change has provided Trane Technologies an opportunity to lead by example through supporting customers decarbonization efforts. For example, in 2022, Trane launched CITY Advantage, a line of compact scroll water-cooled chillers and water-source heat pumps for commercial use. These new products use R454B, a low-GWP refrigerant that offers a 76% reduction in direct GWP against R410A and a 34% reduction against R32. The CITY Advantage line also helps customers move away from fossil fuel-based technologies and achieve an 11% better Seasonal Energy Efficiency Ratio (SEER) in cooling mode and up to 5% better Seasonal Coefficient of Performance (SCOP) in pure heating mode. These modular technologies help our small to medium business customers reduce their emissions footprint, increase efficiency, and lower operating costs.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp2

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Products and services

☑ Increased sales of existing products and services

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Changes in weather patterns and seasonal fluctuations affect certain segments of our business. Demand for certain segments of our products and services is influenced by weather conditions. For instance, Trane's sales of Heating, Ventilating and Air Conditioning equipment have historically tended to be seasonally higher in the second and third quarters of the year because, in the U.S. and other northern hemisphere markets, summer is the peak season for sales of air conditioning systems and services. Therefore, unseasonably warm trends during the summer season could positively affect certain segments of our business and impact overall results of operations.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased revenues resulting from increased demand for products and services

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Very likely (90–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium-high

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Increased revenues due to increased demand of products.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.17) Anticipated financial effect figure in the short-term - minimum (currency)

7245000000

(3.6.1.18) Anticipated financial effect figure in the short-term – maximum (currency)

7245000000

(3.6.1.23) Explanation of financial effect figures

The above is an estimate based on: Total Revenues (which includes Trane and American Standard Heating and Air Conditioning; energy services and building automation and Thermo King transport temperature control solutions) were 17.68B USD in 2023. We have calculated our Clean Revenue based on the Corporate Knights definition and methodology to be 41% of our total revenue. 41% of 17.68B is 7.245

(3.6.1.24) Cost to realize opportunity

252299998

(3.6.1.25) Explanation of cost calculation

The cost associated with development of energy efficient technologies and management is accounted for in our sustainability-driven R&D. Our R&D spend in 2023 was 252.3m USD, therefore that is the cost to realize this opportunity.

(3.6.1.26) Strategy to realize opportunity

Innovation and Growth: Our growth strategy is guided by the Trane Technologies business operating system, which is foundational to what we do and how we run the company. Our business operating system extends from strategy development, to how we connect with our customers and help make them successful to how Trane Technologies is paid for the customer value we create. Leveraging our business operating system, we use customer analytics tools to gain greater insight into our customers and competitors to make strategic choices about the most promising and profitable growth opportunities. Our Product Growth Teams (PGT) bring together leaders in product management, global integrated supply chain (GISC) and engineering to evaluate the entire value stream. Costs associated with development of energy efficient technologies are primarily in R&D. Our R&D spend in 2023 was 252.3M USD.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp3

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Products and services

☑ Increased sales of existing products and services

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

A little less than half of the world's population today lives in an urban environment, but trends suggest that an additional 350 million people will be added to the urban population over the next 15 years. This means that significant additions to urban capacity, in the form of housing, infrastructure and facilities, will be required to help cities keep up with a rapid influx of people. Driving innovation for developing markets is an issue of significant importance to our stakeholders and Trane Technologies. We are working strategically to increase our exposure to emerging markets. We are also strategically committed to addressing social and environmental imperatives to assist in expanding energy and other resource efficiency knowledge in developing regions. As a company that provides solutions for energy efficiency, economic productivity and greenhouse gas mitigation - through brands such as Trane and American Standard that provide heating, ventilation and air conditioning systems for commercial and residential buildings; and Thermo King, a leading provider of transport temperature control solutions, we are positioned to help meet these challenges. The expected population shift can lead to an increased demand for these products and solutions.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased revenues resulting from increased demand for products and services

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Likely (66–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium-high

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

Increased revenues due to increased demand of products.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.21) Anticipated financial effect figure in the long-term - minimum (currency)

4756000000

(3.6.1.22) Anticipated financial effect figure in the long-term – maximum (currency)

4756000000

(3.6.1.23) Explanation of financial effect figures

The above is an estimate based on: We expect the global socio-economic trend of increased urbanization will result in accelerated growth in developing markets. In 2023, our average revenue from innovation was 26.9% This 26.9% is Trane Technologies' Innovation Revenue metric. We define the metric as the revenue occurring in the current reporting year, derived from new solutions or new markets launched within the prior 36 months. 26.9% x 17.68B 4.756B.

(3.6.1.24) Cost to realize opportunity

252300000

(3.6.1.25) Explanation of cost calculation

The cost associated with development of energy efficient technologies and management is accounted for in our sustainability-driven R&D. Our R&D spend in 2023 was 252.3m USD, therefore that is the cost to realize this opportunity.

(3.6.1.26) Strategy to realize opportunity

To accelerate growth in emerging markets we are focusing on innovation to serve these markets. We use a three-step process to prioritize our investments in these markets. 1) we consider the macroeconomic and geopolitical conditions of an emerging market at the country level 2) we perform an analytical assessment of the current attractiveness of our business, considering competitors, customers and channels 3) we consider how the attractiveness of this business will evolve. We employ thousands of engineers at 14 engineering and technology centers globally, including facilities in India, Prague, Czech Republic and Shanghai, China. Our innovation effort have been particularly successful in China which makes up a majority of emerging market revenue. We have established large local teams with manufacturing facilities and strong local channel partners. For example: The Trane HVAC business in China is participating in the 'Coal to Electricity' program which is intended to significantly lower coal consumption for winter heating in North China, prevent air pollution and improve the air quality in China over the long term. [Add row]

(3.6.2) Provide the amount and proportion of your financial metrics in the reporting year that are aligned with the substantive effects of environmental opportunities.

Climate change

(3.6.2.1) Financial metric

Select from:

☑ Revenue

(3.6.2.2) Amount of financial metric aligned with opportunities for this environmental issue (unit currency as selected in 1.2)

4756000000

(3.6.2.3) % of total financial metric aligned with opportunities for this environmental issue

Select from:

☑ 21-30%

(3.6.2.4) Explanation of financial figures

In 2023, our average revenue from innovation was 26.9% This 26.9% is Trane Technologies' Innovation Revenue metric. We define the metric as the revenue occurring in the current reporting year, derived from new solutions or new markets launched within the prior 36 months. 26.9% x 17.68B 4.756B.
[Add row]

C4. Governance

(4.1) Does your organization have a board of directors or an equivalent governing body?

(4.1.1) Board of directors or equivalent governing body

Select from:

☑ Yes

(4.1.2) Frequency with which the board or equivalent meets

Select from:

☑ Quarterly

(4.1.3) Types of directors your board or equivalent is comprised of

Select all that apply

☑ Executive directors or equivalent

(4.1.4) Board diversity and inclusion policy

Select from:

☑ Yes, and it is publicly available

(4.1.5) Briefly describe what the policy covers

The Trane Technologies Code of Conduct includes diversity & inclusion and applies to our Board of Directors.

(4.1.6) Attach the policy (optional)

TT-code-of-conduct-en.pdf
[Fixed row]

(4.1.1) Is there board-level oversight of environmental issues within your organization?

	Board-level oversight of this environmental issue	Primary reason for no board-level oversight of this environmental issue	Explain why your organization does not have board-level oversight of this environmental issue
Climate change	*Select from:* ☑ Yes	*Select from:*	*Rich text input [must be under 2500 characters]*
Water	*Select from:* ☑ Yes	*Select from:*	*Rich text input [must be under 2500 characters]*
Biodiversity	*Select from:* ☑ No, and we do not plan to within the next two years	*Select from:* ☑ Not an immediate strategic priority	*Biodiversity has not been identified as a material issue for board-level oversight.*

[Fixed row]

(4.1.2) Identify the positions (do not include any names) of the individuals or committees on the board with accountability for environmental issues and provide details of the board's oversight of environmental issues.

Climate change

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ Chief Executive Officer (CEO)

☑ Board-level committee

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply

☑ Other policy applicable to the board, please specify **:**Board Committee Charter

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Scheduled agenda item in every board meeting (standing agenda item)

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Monitoring compliance with corporate policies and/or commitments

☑ Monitoring progress towards corporate targets

☑ Monitoring the implementation of a climate transition plan

☑ Approving and/or overseeing employee incentives

(4.1.2.7) Please explain

The Sustainability, Corporate Governance and Nominating Committee, which consists of non-employee directors, is responsible for considering and making recommendations to the Board of Directors concerning sustainability and corporate governance matters.

Water

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ Board-level committee

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ Yes

(4.1.2.3) Policies which outline the positions' accountability for this environmental issue

Select all that apply

☑ Other policy applicable to the board, please specify **:**Board Committee Charter

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Scheduled agenda item in every board meeting (standing agenda item)

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Monitoring compliance with corporate policies and/or commitments

☑ Monitoring progress towards corporate targets

(4.1.2.7) Please explain

The Sustainability, Corporate Governance and Nominating Committee, which consists of non-employee directors, is responsible for considering and making recommendations to the Board of Directors concerning sustainability and corporate governance matters.
[Fixed row]

(4.2) Does your organization's board have competency on environmental issues?

Climate change

(4.2.1) Board-level competency on this environmental issue

Select from:

☑ Yes

(4.2.2) Mechanisms to maintain an environmentally competent board

Select all that apply

☑ Consulting regularly with an internal, permanent, subject-expert working group
☑ Engaging regularly with external stakeholders and experts on environmental issues
☑ Integrating knowledge of environmental issues into board nominating process
☑ Regular training for directors on environmental issues, industry best practice, and standards (e.g., TCFD, SBTi)
☑ Having at least one board member with expertise on this environmental issue

(4.2.3) Environmental expertise of the board member

Experience
☑ Experience in an organization that is exposed to environmental-scrutiny and is going through a sustainability transition
☑ Active member of an environmental committee or organization

Water

(4.2.1) Board-level competency on this environmental issue

Select from:
☑ No, and we do not plan to within the next two years

(4.2.4) Primary reason for no board-level competency on this environmental issue

Select from:
☑ Other, please specify **:**We have not assessed competency on this environmental issue.

(4.2.5) Explain why your organization does not have a board with competence on this environmental issue

We have not assessed competency on this environmental issue.
[Fixed row]

(4.3) Is there management-level responsibility for environmental issues within your organization?

	Management-level responsibility for this environmental issue	Primary reason for no management-level responsibility for environmental issues	Explain why your organization does not have management-level responsibility for environmental issues
Climate change	*Select from:* ☑ Yes	*Select from:*	*Rich text input [must be under 2500 characters]*
Water	*Select from:* ☑ Yes	*Select from:*	*Rich text input [must be under 2500 characters]*
Biodiversity	*Select from:* ☑ No, but we plan to within the next two years	*Select from:* ☑ Not an immediate strategic priority	*We are in the process of our biodiversity mapping and development of our strategy.*

[Fixed row]

(4.3.1) Provide the highest senior management-level positions or committees with responsibility for environmental issues (do not include the names of individuals).

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Executive Officer (CEO)

(4.3.1.2) Environmental responsibilities of this position

Policies, commitments, and targets

☑ Measuring progress towards environmental corporate targets

Strategy and financial planning

☑ Developing a business strategy which considers environmental issues

☑ Implementing a climate transition plan

Other

☑ Providing employee incentives related to environmental performance

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ Quarterly

(4.3.1.6) Please explain

(i) The Chair and CEO is the highest management-level position with responsibility for climate-related issues. Performance against our 2030 Sustainability Commitments and corporate strategy is reviewed in every Board meeting (6 times per year) as part of our strategy development and reporting of progress. (ii) Trane Technologies' Sustainability Office is managed by the Chief Technology and Sustainability Officer, a direct report to the Chair and CEO (iii) The Sustainability Office works with business leadership teams to accelerate sustainable innovation and technology-led growth strategies and promote an innovation-centric mindset for the organization.

Water

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Executive Officer (CEO)

(4.3.1.2) Environmental responsibilities of this position

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

☑ Measuring progress towards environmental corporate targets

☑ Setting corporate environmental targets

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ As important matters arise

(4.3.1.6) Please explain

The Board of Directors approved Trane Technologies' sustainability commitments, monitors progress, and has overall responsibility for ensuring the commitments are met. We have a 2030 net positive water commitment against a 2019 baseline which includes annual targets. Progress on sustainability commitments is publicly reported at least annually in the ESG report. In 2020, the Board of Directors approved a 2030 net positive water commitment and monitors progress towards that goal. Sustainability, including water reduction commitments, are overseen by our Sustainability, Corporate Governance and Nominating Committee of the Board (the "Committee") and the Enterprise Leadership Team. The Committee, on behalf of the Board, sets the strategic direction for Trane Technologies' sustainability approach. The Committee meets at least annually to evaluate the company's sustainability performance and is informed regularly by the company's EVP and Chief Technology and Sustainability Officer (CTO). The CTO has the role of providing these and other updates to this Committee on a regular basis.
[Add row]

(4.5) Do you provide monetary incentives for the management of environmental issues, including the attainment of targets?

Climate change

(4.5.1) Provision of monetary incentives related to this environmental issue

Select from:

☑ Yes

(4.5.2) % of total C-suite and board-level monetary incentives linked to the management of this environmental issue

20

(4.5.3) Please explain

To more closely align the annual short-term incentive compensation of our leaders to the value that we, as a Company, place on environmental sustainability and employee diversity and inclusion, we utilize an ESG modifier as a component of Trane Technologies' annual incentive program (AIM). This strategic modifier may adjust AIM payout amounts upward or downward by up to 20% based on performance against four equally weighted environmental sustainability and diversity and inclusion objectives: internal greenhouse gas reduction, external carbon emissions reduction, increase in gender representation in leadership and increase in racial/ethnic diversity representation in the U.S., in conjunction with the Committee's holistic review of the Company's key accomplishments and actions taken during the year to advance our ESG performance and progress towards our 2030 sustainability commitments.

Water

(4.5.1) Provision of monetary incentives related to this environmental issue

Select from:

☑ No, and we do not plan to introduce them in the next two years

(4.5.3) Please explain

Water is not included in our annual incentive matrix.
[Fixed row]

(4.5.1) Provide further details on the monetary incentives provided for the management of environmental issues (do not include the names of individuals).

Climate change

(4.5.1.1) Position entitled to monetary incentive

Board or executive level

☑ Board Chair

(4.5.1.2) Incentives

Select all that apply

☑ Bonus - % of salary

(4.5.1.3) Performance metrics

Targets

☑ Progress towards environmental targets

☑ Achievement of environmental targets

☑ Reduction in absolute emissions in line with net-zero target

Emission reduction

☑ Reduction in absolute emissions

(4.5.1.4) Incentive plan the incentives are linked to

Select from:

☑ Short-Term Incentive Plan, or equivalent, only (e.g. contractual annual bonus)

(4.5.1.5) Further details of incentives

To more closely align the annual short-term incentive compensation of our leaders to the value that we, as a Company, place on environmental sustainability and employee diversity and inclusion, we utilize an ESG modifier as a component of Trane Technologies' annual incentive program (AIM). This strategic modifier may adjust AIM payout amounts upward or downward by up to 20% based on performance against four equally weighted environmental sustainability and diversity and inclusion objectives: internal greenhouse gas reduction, external carbon emissions reduction, increase in gender representation in leadership and increase in racial/ethnic diversity representation in the U.S., in conjunction with the Committee's holistic review of the Company's key accomplishments and actions taken during the year to advance our ESG performance and progress towards our 2030 sustainability commitments.

(4.5.1.6) How the position's incentives contribute to the achievement of your environmental commitments and/or climate transition plan

The objectives of the executive compensation program are to utilize ESG-focused metrics to reward both financial and ESG performance. The executive compensation program: 1) aligns all entitled individuals' goals with those of the company 2) incentivizes higher engagement 3) encourages greater scrutiny/monitoring of progress and active management 4) provides an opportunity for employee recognition
[Add row]

(4.6) Does your organization have an environmental policy that addresses environmental issues?

	Does your organization have any environmental policies?
	Select from: ☑ Yes

[Fixed row]

(4.6.1) Provide details of your environmental policies.

Row 1

(4.6.1.1) Environmental issues covered

Select all that apply
☑ Climate change

(4.6.1.2) Level of coverage

Select from:
☑ Organization-wide

(4.6.1.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

☑ Downstream value chain

(4.6.1.4) Explain the coverage

Trane Technologies has several policies which address climate change including our EHS Policy, Energy Policy, Product Compliance & Stewardship Policy, as well as Sustainable Procurement Policy.

(4.6.1.5) Environmental policy content

Environmental commitments

☑ Commitment to comply with regulations and mandatory standards

☑ Commitment to take environmental action beyond regulatory compliance

☑ Commitment to stakeholder engagement and capacity building on environmental issues

Climate-specific commitments

☑ Commitment to 100% renewable energy

☑ Commitment to net-zero emissions

(4.6.1.6) Indicate whether your environmental policy is in line with global environmental treaties or policy goals

Select all that apply

☑ Yes, in line with the Paris Agreement

(4.6.1.7) Public availability

Select from:

☑ Publicly available

(4.6.1.8) Attach the policy

EHS-Policy-English.pdf

Row 2

(4.6.1.1) Environmental issues covered

Select all that apply

☑ Water

(4.6.1.2) Level of coverage

Select from:

☑ Organization-wide

(4.6.1.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

(4.6.1.4) Explain the coverage

Trane Technologies has several policies which address water including our EHS Policy, Product Compliance & Stewardship Policy, as well as Sustainable Procurement Policy.

(4.6.1.5) Environmental policy content

Environmental commitments

☑ Commitment to comply with regulations and mandatory standards

☑ Commitment to take environmental action beyond regulatory compliance

☑ Commitment to stakeholder engagement and capacity building on environmental issues

Water-specific commitments

☑ Commitment to reduce water consumption volumes

(4.6.1.6) Indicate whether your environmental policy is in line with global environmental treaties or policy goals

Select all that apply

☑ Yes, in line with Sustainable Development Goal 6 on Clean Water and Sanitation

(4.6.1.7) Public availability

Select from:

☑ Publicly available

(4.6.1.8) Attach the policy

EHS-Policy-English.pdf
[Add row]

(4.10) Are you a signatory or member of any environmental collaborative frameworks or initiatives?

(4.10.1) Are you a signatory or member of any environmental collaborative frameworks or initiatives?

Select from:

☑ Yes

(4.10.2) Collaborative framework or initiative

Select all that apply

☑ RE100
☑ Terra Carta
☑ UN Global Compact
☑ We Mean Business
☑ Race to Zero Campaign
☑ Science-Based Targets Initiative (SBTi)
☑ Task Force on Climate-related Financial Disclosures (TCFD)
☑ World Business Council for Sustainable Development (WBCSD)

(4.10.3) Describe your organization's role within each framework or initiative

Trane Technologies collaborates with like-minded organizations to accelerate progress toward a sustainable future. Our public commitments and involvement in coalitions hold us accountable as we make progress on our ambitious climate and Diversity & Inclusion goals. We list our Charters, Partnerships and Memberships in our 2023 ESG Report beginning on page 71.
[Fixed row]

(4.11) In the reporting year, did your organization engage in activities that could directly or indirectly influence policy, law, or regulation that may (positively or negatively) impact the environment?

(4.11.1) External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the environment

Select all that apply

☑ Yes, we engaged directly with policy makers

☑ Yes, we engaged indirectly through, and/or provided financial or in-kind support to a trade association or other intermediary organization or individual whose activities could influence policy, law, or regulation

(4.11.2) Indicate whether your organization has a public commitment or position statement to conduct your engagement activities in line with global environmental treaties or policy goals

Select from:

☑ Yes, we have a public commitment or position statement in line with global environmental treaties or policy goals

(4.11.3) Global environmental treaties or policy goals in line with public commitment or position statement

Select all that apply

☑ Paris Agreement

(4.11.4) Attach commitment or position statement

2023-Assurance-Statement.pdf

(4.11.5) Indicate whether your organization is registered on a transparency register

Select from:

☑ Yes

(4.11.6) Types of transparency register your organization is registered on

Select all that apply

☑ Non-government register

(4.11.7) Disclose the transparency registers on which your organization is registered & the relevant ID numbers for your organization

In 2023, InfluenceMap recognized Trane Technologies as a Corporate Climate Policy Engagement Leader for science-aligned climate policy influence. Trane Technologies was recognized as being in the top 5% of companies evaluated for positive and active climate policy engagements aligned with the Paris Climate Accords of 2015.

(4.11.8) Describe the process your organization has in place to ensure that your external engagement activities are consistent with your environmental commitments and/or transition plan

Trane Technologies supports climate and sustainability policies, frequently providing technical support and formal comments during the stakeholder comment period of public policy to support climate action. When necessary, we counter unproductive messaging from trade associations and other companies through our formal engagement with policymakers.
[Fixed row]

(4.11.1) On what policies, laws, or regulations that may (positively or negatively) impact the environment has your organization been engaging directly with policy makers in the reporting year?

Row 1

(4.11.1.1) Specify the policy, law, or regulation on which your organization is engaging with policy makers

- US federal buildings procurement changes to incorporate the social cost of carbon - Various US state efforts to update its energy codes and create an energy stretch code (WA, CO, CA, NY) - Various state legislation and national regulation to phase down HFCs (CA, WA, CO, NJ, NY, FL, NC, Environment Climate Change

Canada, and U.S. EPA). - ASHRAE building decarbonization task force and the creation of a new carbon standard - Implementation of US federal and state incentives - EU Building Performa

(4.11.1.2) Environmental issues the policy, law, or regulation relates to

Select all that apply

☑ Climate change

(4.11.1.3) Focus area of policy, law, or regulation that may impact the environment

Low-impact production and innovation

☑ Low environmental impact innovation and R&D

(4.11.1.4) Geographic coverage of policy, law, or regulation

Select from:

☑ Global

(4.11.1.6) Your organization's position on the policy, law, or regulation

Select from:

☑ Support with no exceptions

(4.11.1.8) Type of direct engagement with policy makers on this policy, law, or regulation

Select all that apply

☑ Regular meetings

☑ Ad-hoc meetings

☑ Participation in working groups organized by policy makers

☑ Participation in voluntary government programs

(4.11.1.9) Funding figure your organization provided to policy makers in the reporting year relevant to this policy, law, or regulation (currency)

0

(4.11.1.10) Explain the relevance of this policy, law, or regulation to the achievement of your environmental commitments and/or transition plan, how this has informed your engagement, and how you measure the success of your engagement

Enabling transitions to products with a low carbon footprint is essential to Trane Technologies' strategy.

(4.11.1.11) Indicate if you have evaluated whether your organization’s engagement on this policy, law, or regulation is aligned with global environmental treaties or policy goals

Select from:
☑ Yes, we have evaluated, and it is aligned

(4.11.1.12) Global environmental treaties or policy goals aligned with your organization's engagement on this policy, law or regulation

Select all that apply
☑ Paris Agreement
[Add row]

(4.11.2) Provide details of your indirect engagement on policy, law, or regulation that may (positively or negatively) impact the environment through trade associations or other intermediary organizations or individuals in the reporting year.

Row 1

(4.11.2.1) Type of indirect engagement

Select from:
☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

Global

☑ Other global trade association, please specify :Business Council for Sustainable Energy

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ Yes, we publicly promoted their current position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

The Business Council for Sustainable Energy (BCSE) is a coalition of companies and trade associations from the energy efficiency, natural gas and renewable energy sectors, and also includes independent electric power producers, investor-owned utilities, public power, commercial end-users and project developers and service providers for environmental markets. Industry leaders from the energy efficiency, renewable energy and natural gas sectors came together in 1992 to form a coalition dedicated to creating a more secure and sustainable energy future. Today, these sectors continue to work together to meet U.S. energy needs and revitalize the U.S. economy. The Business Council for Sustainable Energy works to: Enable policies that accelerate the deployment of energy efficiency, renewable energy resources and natural gas; Implement cost-effective programs and policies that recognize the environmental attributes of energy sources; Increase the efficiency of the economy and improve energy security; Encourage market-based initiatives for energy and environmental policies.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

0

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

Row 2

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via other intermediary organization or individual

(4.11.2.2) Type of organization or individual

Select from:

☑ Other, please specify **:**CEO-led organization

(4.11.2.3) State the organization or position of individual

The World Business Council for Sustainable Development (WBCSD)

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

(4.11.2.7) Indicate whether your organization attempted to influence the organization or individual's position in the reporting year

Select from:

☑ Yes, we publicly promoted their current position

(4.11.2.8) Describe how your organization's position is consistent with or differs from the organization or individual's position, and any actions taken to influence their position

The World Business Council for Sustainable Development (WBCSD) is comprised of over 200 of the world's leading sustainable businesses working collectively to accelerate the system transformations needed for a net zero, nature positive, and more equitable future by engaging executives and sustainability leaders from business and elsewhere to share practical insights on the obstacles and opportunities we currently face in tackling the integrated climate, nature and inequality sustainability challenge; by co-developing "how-to" CEO-guides from these insights; by providing science-based target guidance including standards and protocols; and by developing tools and platforms to help leading businesses in sustainability drive integrated actions to tackle climate, nature and inequality challenges across sectors and geographical regions.

(4.11.2.9) Funding figure your organization provided to this organization or individual in the reporting year (currency)

0

(4.11.2.11) Indicate if you have evaluated whether your organization's engagement is aligned with global environmental treaties or policy goals

Select from:

☑ Yes, we have evaluated, and it is aligned

(4.11.2.12) Global environmental treaties or policy goals aligned with your organization's engagement on policy, law or regulation

Select all that apply

☑ Paris Agreement

[Add row]

(4.12) Have you published information about your organization’s response to environmental issues for this reporting year in places other than your CDP response?

Select from:

☑ Yes

(4.12.1) Provide details on the information published about your organization’s response to environmental issues for this reporting year in places other than your CDP response. Please attach the publication.

Row 1

(4.12.1.1) Publication

Select from:

☑ In voluntary sustainability reports

(4.12.1.3) Environmental issues covered in publication

Select all that apply

☑ Climate change

☑ Water

☑ Biodiversity

(4.12.1.4) Status of the publication

Select from:

☑ Complete

(4.12.1.5) Content elements

Select all that apply

☑ Strategy
☑ Governance
☑ Emission targets
☑ Emissions figures
☑ Risks & Opportunities
☑ Value chain engagement
☑ Dependencies & Impacts
☑ Public policy engagement
☑ Water accounting figures
☑ Content of environmental policies

(4.12.1.6) Page/section reference

Full report is attached.

(4.12.1.7) Attach the relevant publication

2023-ESG-Report.pdf

(4.12.1.8) Comment

Our environmental, social and governance (ESG) report highlights the actions we take to manage and address opportunities where we can have the most significant impact. We are proud to report the meaningful advancements we've made toward our 2030 Sustainability Commitments and share the sustainable solutions we continue to provide our customers. This report aligns with leading ESG and sustainability reporting frameworks and covers our 2023 enterprise-wide information and data for Trane Technologies.
[Add row]

C5. Business strategy

(5.1) Does your organization use scenario analysis to identify environmental outcomes?

Climate change

(5.1.1) Use of scenario analysis

Select from:

☑ Yes

(5.1.2) Frequency of analysis

Select from:

☑ Every three years or less frequently

Water

(5.1.1) Use of scenario analysis

Select from:

☑ No, but we plan to within the next two years

(5.1.3) Primary reason why your organization has not used scenario analysis

Select from:

☑ Not an immediate strategic priority

(5.1.4) Explain why your organization has not used scenario analysis

Water has not been identified as a highly material issue for us.
[Fixed row]

(5.1.1) Provide details of the scenarios used in your organization’s scenario analysis.

Climate change

(5.1.1.1) Scenario used

Climate transition scenarios

☑ IEA APS

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Policy

☑ Market

☑ Reputation

☑ Technology

☑ Liability

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 1.6°C - 1.9°C

(5.1.1.7) Reference year

2020

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global regulation

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

Scenarios were selected based on the following factors: - Peer benchmarking and leading industry practices - Alignment with Trane Technologies' SBTi and net zero target of limiting global temperature rise to no more than 1.5C - Alignment with the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations; for the use of multiple different pathways for scenario analysis, including a 2C or lower scenario - Goal to evaluate Trane Technologies-specific future scenario impacts for energy use and demand - Scientifically backed scenarios for future modeling

(5.1.1.11) Rationale for choice of scenario

This scenario was selected to represent aggressive climate action scenario aligned with limiting global average temperature rise to 2C or below by the end of this century. Trane Technologies used the IEA's Announced Pledges Scenario (APS) as well as a NZE scenario.

Climate change

(5.1.1.1) Scenario used

Climate transition scenarios

☑ Customized publicly available climate transition scenario, please specify :Low Energy Demand IAMIC 1.5 C

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Policy

☑ Market

☑ Reputation

☑ Technology

☑ Liability

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 1.5°C or lower

(5.1.1.7) Reference year

2020

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025
☑ 2030
☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Climate change (one of five drivers of nature change)

Regulators, legal and policy regimes

☑ Global targets

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

Scenarios were selected based on the following factors: - Peer benchmarking and leading industry practices - Alignment with Trane Technologies' SBTi and net zero target of limiting global temperature rise to no more than 1.5C - Alignment with the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations; for the use of multiple different pathways for scenario analysis, including a 2C or lower scenario - Goal to evaluate Trane Technologies-specific future scenario impacts for energy use and demand - Scientifically backed scenarios for future modeling

(5.1.1.11) Rationale for choice of scenario

This scenario envisions significant energy use reduction due to technology and policy developments and shows the market opportunity that may be captured by transition to low energy technologies.

Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 8.5

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP5

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 4.0°C and above

(5.1.1.7) Reference year

2005

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Speed of change (to state of nature and/or ecosystem services)

☑ Climate change (one of five drivers of nature change)

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

Scenarios were selected based on the following factors: - Peer benchmarking and leading industry practices - Alignment with Trane Technologies' SBTi and net zero target of limiting global temperature rise to no more than 1.5C - Alignment with the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations; for the use of multiple different pathways for scenario analysis, including a 2C or lower scenario - Goal to evaluate Trane Technologies-specific future scenario impacts for energy use and demand - Scientifically backed scenarios for future modeling

(5.1.1.11) Rationale for choice of scenario

This scenario was selected to reflect insufficient climate action scenario with no action on climate policy and continued fossil fueled growth.

Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 7.0

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP3

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 3.5ºC - 3.9ºC

(5.1.1.7) Reference year

2005

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Speed of change (to state of nature and/or ecosystem services)

☑ Climate change (one of five drivers of nature change)

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

Scenarios were selected based on the following factors: - Peer benchmarking and leading industry practices - Alignment with Trane Technologies' SBTi and net zero target of limiting global temperature rise to no more than 1.5C - Alignment with the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations; for the use of multiple different pathways for scenario analysis, including a 2C or lower scenario - Goal to evaluate Trane Technologies-specific future scenario impacts for energy use and demand - Scientifically backed scenarios for future modeling

(5.1.1.11) Rationale for choice of scenario

This scenario was selected as the business-as-usual scenario with continuation of current policy, market and technology trends.

Climate change

(5.1.1.1) Scenario used

Physical climate scenarios

☑ RCP 2.6

(5.1.1.2) Scenario used SSPs used in conjunction with scenario

Select from:

☑ SSP1

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Organization-wide

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Acute physical

☑ Chronic physical

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ 1.6ºC - 1.9ºC

(5.1.1.7) Reference year

2005

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025

☑ 2030

☑ 2050

(5.1.1.9) Driving forces in scenario

Local ecosystem asset interactions, dependencies and impacts

☑ Speed of change (to state of nature and/or ecosystem services)

☑ Climate change (one of five drivers of nature change)

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

Scenarios were selected based on the following factors: - Peer benchmarking and leading industry practices - Alignment with Trane Technologies' SBTi and net zero target of limiting global temperature rise to no more than 1.5C - Alignment with the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations; for the use of multiple different pathways for scenario analysis, including a 2C or lower scenario - Goal to evaluate Trane Technologies-specific future scenario impacts for energy use and demand - Scientifically backed scenarios for future modeling

(5.1.1.11) Rationale for choice of scenario

This scenario was selected to represent aggressive climate action scenario with policy to keep temperature in line with 1.5 C.
[Add row]

(5.1.2) Provide details of the outcomes of your organization's scenario analysis.

Climate change

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply

☑ Risk and opportunities identification, assessment and management

☑ Strategy and financial planning

☑ Resilience of business model and strategy

☑ Capacity building

☑ Target setting and transition planning

(5.1.2.2) Coverage of analysis

Select from:

☑ Organization-wide

(5.1.2.3) Summarize the outcomes of the scenario analysis and any implications for other environmental issues

We address the question of how we are managing risk as it relates to climate change. Trane Technologies uses climate scenario analysis as one of many tools to assess potential impacts to the business. It enables enhanced preparedness for multiple futures under climate change and allows for consideration on level of impact climate change may have on operations, strategy, and financial planning. It also allows alignment for prioritization of strategy. Through climate scenario analysis we now better understand the impacts of climate-related risks and opportunities. Trane Technologies may experience impacts on its business due to acute and chronic physical risks due to climate change, along with technology obsolescence or decreased demand and exposure to emerging GHG emissions regulations and taxation in the transition to a low-carbon economy. The risk of technology substitution and obsolescence due to increased demand for low-emissions and fuel-flexible, machinery, equipment, and heaters/coolers could result in the following impacts to Trane Technologies; - Decreased demand for products that are obsolete due to regulation or demand shifts - Increased R&D expenditures in new technologies The risk of exposure to emerging GHG emissions regulations and taxation due to advances in environmental and carbon policies could result in the following impacts to Trane Technologies: - Increased costs of compliance, increased R&D investments and stranded assets for products which do not meet regulatory requirements for environmentally safe and low GWP materials. - Decreased demand for products and services that do not meet regulatory requirements, specifically the use of refrigerants/refrigerant products Based on the climate scenario analysis conducted in 2022, Trane Technologies believes we are well prepared to seize opportunities arising from climate change. A strategic choice that was made in

alignment with the results of the scenario assessment was to develop and publicly share our Net Zero Roadmap, a climate transition plan that is aligned with a 1.5C future, details our plan to achieve approved SBT net zero targets, and is the first in the industry to show the huge impact energy efficient and low GWP products can have.
[Fixed row]

(5.2) Does your organization's strategy include a climate transition plan?

(5.2.1) Transition plan

Select from:

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

(5.2.3) Publicly available climate transition plan

Select from:

☑ Yes

(5.2.4) Plan explicitly commits to cease all spending on, and revenue generation from, activities that contribute to fossil fuel expansion

Select from:

☑ No, and we do not plan to add an explicit commitment within the next two years

(5.2.6) Explain why your organization does not explicitly commit to cease all spending on and revenue generation from activities that contribute to fossil fuel expansion

Trane Technologies major levers for meeting Scope 3 SBTs include increasing sales of high efficiency equipment, expanding product mix to enable electrification, refrigerant transition management, and system-level energy efficiency.

(5.2.7) Mechanism by which feedback is collected from shareholders on your climate transition plan

Select from:

☑ We have a different feedback mechanism in place

(5.2.8) Description of feedback mechanism

We conduct an annual engagement process with stakeholders to collect insight and feedback on relevant ESG-related issues. We share our annual disclosures, including the annual ESG Report, externally, and request input from stakeholders on the disclosures and actions the Company is taking. Stakeholders are given the opportunity to respond or engage in further discussion with our executive management team. In addition, the Company routinely discusses ESG issues with various stakeholders for ongoing feedback and communication.

(5.2.9) Frequency of feedback collection

Select from:

☑ Annually

(5.2.10) Description of key assumptions and dependencies on which the transition plan relies

Our near-term science-based targets for Scope 1, 2 and 3 guide our emissions reduction efforts through 2030. As we take steps to meet our near-term goals, we also work toward achieving our long-term goal of net-zero emissions by 2050.

(5.2.11) Description of progress against transition plan disclosed in current or previous reporting period

•Reduced customer carbon footprint by 157 million mtCO2e since 2019. •Approximately 100 new products launched each year since 2020. •Reduced operational emissions intensity for Scope 1 and Market-based Scope 2 by 59% vs 2019. •In 2023, we launched a new Design for Sustainability and Circularity module as part of our product development process, and met our commitment for low-carbon steel to represent 20% of annual use. •Absolute energy use from our operations totaled approximately 3 trillion kilojoules — a 4% reduction since 2019, even as demand and production increased.

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

2023-ESG-Report.pdf

(5.2.13) Other environmental issues that your climate transition plan considers

Select all that apply

☑ No other environmental issue considered

[Fixed row]

(5.3) Have environmental risks and opportunities affected your strategy and/or financial planning?

(5.3.1) Environmental risks and/or opportunities have affected your strategy and/or financial planning

Select from:

☑ Yes, both strategy and financial planning

(5.3.2) Business areas where environmental risks and/or opportunities have affected your strategy

Select all that apply

☑ Products and services

☑ Upstream/downstream value chain

☑ Investment in R&D

☑ Operations

[Fixed row]

(5.3.1) Describe where and how environmental risks and opportunities have affected your strategy.

Products and services

(5.3.1.1) Effect type

Select all that apply

☑ Risks

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

Our climate commitment requires us to offer a full line of next generation, lower global warming potential products by 2030 without compromising safety or energy efficiency. From 2021-2024 we are introducing high efficiency products that will aim to help us meet our gigaton challenge, which is reducing our customer carbon footprint by 1 gigaton, which includes our Scope 3 product emissions. From 2022-2024 we also have strategies in place to transition from high GWP refrigerants in advance of new regulations that may establish lower emission standards. Also, there continues to be a lack of consistent climate legislation, which creates economic and regulatory uncertainty. Such regulatory uncertainty extends to future incentives for energy efficient buildings and vehicles and costs of compliance, which may impact the demand for our products, obsolescence of our products and our results of operations. An example of a substantial decision and product related investments we have made is in the development of Ecowise offerings, specifically in Trane CenTraVac chillers that can operate with either R-123 or with one of our next-generation refrigerants, R-514A or R-1233zd, both of which offer ultra-low GWP levels of less than 2. By offering multiple refrigerant options in our larger-tonnage chillers, we have the flexibility to better optimize solutions for our customers' application needs.

Upstream/downstream value chain

(5.3.1.1) Effect type

Select all that apply

☑ Risks

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

We source raw materials and certain critical parts from suppliers around the world. Many sourced goods from suppliers originate in countries that are prone to physical climate risks associated with severe weather events and climate related disruptions. We have robust management processes in place to monitor our supply base to detect any such disruptions, which requires substantial managerial and technology investments. We also require suppliers to report on climate related targets such as energy usage and GHG emissions as a part of our sourcing selection. We use risk management and assessment tools to create transparency to such risks in the supplier eco-system.

Investment in R&D

(5.3.1.1) Effect type

Select all that apply

☑ Risks

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

As regulations require changes in refrigerants, current products will have to be optimized or redesigned which increases our product development and marketing costs. Costs associated with refrigerant evaluation and development of technologies are primarily in R&D. As part of our global climate commitments we continue to invest in product-related research and development to catalyze the long-term reduction of GHG emissions industry-wide. One example is our strategic decision to invest in the development of lower GWP refrigerants like R-452B that can help the industry transition to lower GWP but still deliver strong safety and performance in a more sustainable way.

Operations

(5.3.1.1) Effect type

Select all that apply

☑ Risks

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

Trane Technologies understands the large role heating and cooling plays on the world's emissions (an estimated 15% of global emissions come from heating and cooling buildings) and therefore we have set strong goals based on climate science and aligned with SBTi. As part of our 2030 Sustainability Commitments, we are targeting carbon neutral operations, net positive water in water stressed areas and zero waste to landfill. In order to support the green energy transition we also have committed to achieving 10% absolute energy reduction by 2030 as well as 100% renewable energy by 2040. All of these commitments and related actions are to

enable a low carbon economy. These sustainability objectives for our operations have been incorporated as central tenets of our enterprise strategy. All businesses have incorporated these goals into their strategies. As an example, in 2023, we initiated an HVAC retrofit at our La Crosse, Wisconsin, facility using our own energy-efficient technology. With the installation of a Trane Thermal Battery storage-source heat pump system, the building is moving from natural gas-based steam heating to an advanced electric heating and cooling system, with the capability to store waste heat from the cooling process to use later to heat the building. Using this advanced integrated system will help reduce the overall energy intensity of the building by 28% and carbon emissions by 21 metric tons (mtCO2e) per year.
[Add row]

(5.3.2) Describe where and how environmental risks and opportunities have affected your financial planning.

Row 1

(5.3.2.1) Financial planning elements that have been affected

Select all that apply
☑ Revenues

(5.3.2.2) Effect type

Select all that apply
☑ Risks
☑ Opportunities

(5.3.2.3) Environmental issues relevant to the risks and/or opportunities that have affected these financial planning elements

Select all that apply
☑ Climate change

(5.3.2.4) Describe how environmental risks and/or opportunities have affected these financial planning elements

We have Strategic Business Unit (SBU) level targets for revenue and performance related to emissions reductions from our products and solutions. Each SBU develops a plan for meeting the target through our portfolio of products designed to lower environmental impact with next generation, low global warming potential refrigerants and high efficiency operation. As part of our annual and 3 year planning process, we focus our investment prioritization decisions on a variety of factors, including the impact of proposed investments on our ability to deliver on our sustainability commitments. Investments in products and plants are favorably considered if they advance our sustainability objectives. The businesses are encouraged to shift their product and service offerings that advance our commitments to energy

efficiency and sustainability through reduction of emissions. Our plans extend such prioritization beyond internal organic growth initiatives to include customer choices that favor reduction of greenhouse gas emissions, and also acquisition target evaluations. For example, we made a considerable investment in upgrading one of our manufacturing facilities in Trenton, NJ by installing solar panels at the plant location thereby reducing the energy consumption. This project was a material capital investment for the business that was evaluated, approved, and implemented as part of the financial planning process. We measure and track our progress towards an energy-efficient and low-emission product portfolio through revenue estimated as Clean Revenue, which is defined as revenue from products, services and solutions that directly or indirectly help decarbonize our customers' value chain. Our definition is based on Corporate Knights' definition, the green revenue classification from FTSE, and our internal expertise. We have calculated that 41% of our revenue in 2022 is considered Clean Revenue. 41% x 17.68B 7.245B.
[Add row]

(5.4) 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
	Select from: ☑ No, but we plan to in the next two years

[Fixed row]

(5.5) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

(5.5.1) Investment in low-carbon R&D

Select from:
☑ Yes

(5.5.2) Comment

In 2023, Trane Technologies invested approximately 252 million in sustainability-driven research and development centered on: • Product and system-level improvements such as increasing energy efficiency; • Advancing the electrification of heating and transport; • Developing and implementing low-global warming potential (GWP) refrigerants; • Reducing material content in products; • Designing products for circularity; and •Leveraging artificial intelligence (AI) solutions to increase energy efficiency.
[Fixed row]

(5.5.2) Provide details of your organization's investments in low-carbon R&D for capital goods products and services over the last three years.

Row 1

(5.5.2.1) Technology area

Select from:
☑ Other, please specify **:**R&D spend associated to innovating and deploying low GWP refrigerants for our refrigerant-bearing product portfolio, decarbonization through electrification, and efficient product offerings.

(5.5.2.2) Stage of development in the reporting year

Select from:
☑ Large scale commercial deployment

(5.5.2.3) Average % of total R&D investment over the last 3 years

100

(5.5.2.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

252000000

(5.5.2.5) Average % of total R&D investment planned over the next 5 years

100

(5.5.2.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

Our broad portfolio of energy-efficient and low-emission products reflects our commitment to decarbonization and our determination to deliver innovative solutions to our customers. Older products may contain high-global warming potential (GWP) refrigerants, require more energy for operations, or operate primarily on fossil fuels. These products increase our downstream emissions and our customers' emissions, which can negatively impact the climate. Furthermore, older products may cost our customers more to operate, which leaves less capital for reinvestment into human capital development and business operations, among other areas. We are committed to enhancing our customers' operations and mitigating the effects of climate change with industry-leading products. We take action to help our customers decarbonize through electrification, the use of low-GWP refrigerants, and providing efficient product solutions. We do not breakdown the % of R&D spend for different technology areas.

Row 2

(5.5.2.1) Technology area

Select from:

☑ Other, please specify **:**Cooling cart- food storage using passive cooling

(5.5.2.2) Stage of development in the reporting year

Select from:

☑ Applied research and development

(5.5.2.3) Average % of total R&D investment over the last 3 years

100

(5.5.2.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

252000000

(5.5.2.5) Average % of total R&D investment planned over the next 5 years

100

(5.5.2.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

In 2022, teams in India, China, Vietnam, the United States and Belgium worked on a solution to reduce food loss for street vendors in developing economies. The result of this collaboration is the cooling cart — a mobile pushcart with a canopy using passive cooling technology that helps street vendors keep fruits and vegetables fresh for longer periods, which significantly reduces food spoilage at the point of sale to the consumer. Throughout the design and validation stage, the design team consulted directly with local street vendors, community representatives, students, and government officials to understand street vendors' social and economic challenges. Through an iterative design and stakeholder engagement process, the teams developed a prototype that can reduce temperatures below the food cart canopy by up to 10 degrees. The cooling effect can help vendors extend the life of produce by several days. With more time to sell food, street vendors can reduce food loss while improving their net income. The cooling cart received promising field-testing results and positive feedback from street vendors in Kolar, India. Trane Technologies continues to partner with external stakeholders to scale this solution to more locations as part of our commitment to reducing food waste and creating Opportunity for All. We do not breakdown the % of R&D spend for different technology areas.

Row 3

(5.5.2.1) Technology area

Select from:

☑ Other, please specify **:**Thermal battery storage source heat pump system

(5.5.2.2) Stage of development in the reporting year

Select from:

☑ Full/commercial-scale demonstration

(5.5.2.3) Average % of total R&D investment over the last 3 years

100

(5.5.2.4) R&D investment figure in the reporting year (unit currency as selected in 1.2) (optional)

252000000

(5.5.2.5) Average % of total R&D investment planned over the next 5 years

100

(5.5.2.6) Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan

A first-of-its-kind solution to advance electrified, low-carbon heating in buildings, including in climates below 0 degree F. The innovative system accelerates building decarbonization by combining proven heat pump technologies and thermal energy storage tanks which store heat like a battery stores electric energy, resulting in optimal system efficiency. We do not breakdown the % of R&D spend for different technology areas.
[Add row]

(5.9) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

(5.9.1) Water-related CAPEX (+/- % change)

5

(5.9.2) Anticipated forward trend for CAPEX (+/- % change)

5

(5.9.3) Water-related OPEX (+/- % change)

0

(5.9.4) Anticipated forward trend for OPEX (+/- % change)

5

(5.9.5) Please explain

Limited investment in near term for water treatment systems.
[Fixed row]

(5.10) Does your organization use an internal price on environmental externalities?

	Use of internal pricing of environmental externalities	Environmental externality priced
	Select from: ☑ Yes	*Select all that apply* ☑ Carbon

[Fixed row]

(5.10.1) Provide details of your organization's internal price on carbon.

Row 1

(5.10.1.1) Type of pricing scheme

Select from:

☑ Shadow price

(5.10.1.2) Objectives for implementing internal price

Select all that apply

☑ Conduct cost-benefit analysis

☑ Incentivize consideration of climate-related issues in decision making

(5.10.1.3) Factors considered when determining the price

Select all that apply

☑ Scenario analysis

(5.10.1.4) Calculation methodology and assumptions made in determining the price

As an emitter of GHGs and manufacturer of products that emit GHGs, using a shadow price to assess, Trane Technologies faces risks of increases costs for operating across its large geographic footprint.

(5.10.1.5) Scopes covered

Select all that apply

☑ Scope 1

☑ Scope 2

(5.10.1.6) Pricing approach used – spatial variance

Select from:

☑ Uniform

(5.10.1.8) Pricing approach used – temporal variance

Select from:

☑ Static

(5.10.1.10) Minimum actual price used (currency per metric ton CO2e)

16

(5.10.1.11) Maximum actual price used (currency per metric ton CO2e)

16

(5.10.1.12) Business decision-making processes the internal price is applied to

Select all that apply

☑ Risk management

☑ Opportunity management

(5.10.1.13) Internal price is mandatory within business decision-making processes

Select from:

☑ No

(5.10.1.14) % total emissions in the reporting year in selected scopes this internal price covers

100

(5.10.1.15) Pricing approach is monitored and evaluated to achieve objectives

Select from:

☑ Yes

(5.10.1.16) Details of how the pricing approach is monitored and evaluated to achieve your objectives

We use an internal carbon shadow price to perform scenario assessments for climate transition planning. For example, for climate scenario assessment we chose to assess the risk from potential exposure to regulations and taxation due to advances in environmental and carbon policies as a relevant risk for analysis. Under the global energy transition to a lower-emissions economy, jurisdictions across the world are increasing scrutiny around emissions reporting and environmental regulation. This may require our products to meet certain requirements for emissions, potentially increasing manufacturing and associated reporting costs for select jurisdictions. Additionally, many jurisdictions around the world have instituted or considered instituting pricing carbon emissions. As manufacturer of certain products that emit GHGs, Trane Technologies faces risks of increases costs for operating across its large geographic footprint.
[Add row]

(5.11) Do you engage with your value chain on environmental issues?

	Engaging with this stakeholder on environmental issues	Environmental issues covered
Suppliers	*Select from:* ☑ Yes	*Select all that apply* ☑ Climate change ☑ Water
Customers	*Select from:*	*Select all that apply*

	Engaging with this stakeholder on environmental issues	Environmental issues covered
	☑ Yes	☑ Climate change
Investors and shareholders	*Select from:* ☑ Yes	*Select all that apply* ☑ Climate change
Other value chain stakeholders	*Select from:* ☑ Yes	*Select all that apply* ☑ Climate change

[Fixed row]

(5.11.1) Does your organization assess and classify suppliers according to their dependencies and/or impacts on the environment?

Climate change

(5.11.1.1) Assessment of supplier dependencies and/or impacts on the environment

Select from:

☑ Yes, we assess the dependencies and/or impacts of our suppliers

(5.11.1.2) Criteria for assessing supplier dependencies and/or impacts on the environment

Select all that apply

☑ Contribution to supplier-related Scope 3 emissions

(5.11.1.3) % Tier 1 suppliers assessed

Select from:

☑ 1-25%

(5.11.1.4) Define a threshold for classifying suppliers as having substantive dependencies and/or impacts on the environment

At Trane Technologies, we annually survey suppliers on their environmental impacts, focusing on energy, water, waste, and carbon emissions. We ensure alignment with our standards through periodic data collection, training workshops, and best practice webinars. We assess supplier capabilities by using tools like our Decision Matrix. Our Materials Transformation Analysis drives process improvements and ESG progress, such as adopting low GWP refrigerants and reusable packaging.

(5.11.1.5) % Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

Select from:

☑ 100%

(5.11.1.6) Number of Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

16651

Water

(5.11.1.1) Assessment of supplier dependencies and/or impacts on the environment

Select from:

☑ Yes, we assess the dependencies and/or impacts of our suppliers

(5.11.1.2) Criteria for assessing supplier dependencies and/or impacts on the environment

Select all that apply

☑ Impact on water availability

(5.11.1.3) % Tier 1 suppliers assessed

Select from:

☑ 1-25%

(5.11.1.4) Define a threshold for classifying suppliers as having substantive dependencies and/or impacts on the environment

At Trane Technologies, we annually survey suppliers on their environmental impacts, focusing on energy, water, waste, and carbon emissions. We ensure alignment with our standards through periodic data collection, training workshops, and best practice webinars. We assess supplier capabilities by using tools like our Decision Matrix. Our Materials Transformation Analysis drives process improvements and ESG progress, such as adopting low GWP refrigerants and reusable packaging.

(5.11.1.5) % Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

Select from:

☑ 100%

(5.11.1.6) Number of Tier 1 suppliers meeting the thresholds for substantive dependencies and/or impacts on the environment

16651
[Fixed row]

(5.11.2) Does your organization prioritize which suppliers to engage with on environmental issues?

Climate change

(5.11.2.1) Supplier engagement prioritization on this environmental issue

Select from:

☑ Yes, we prioritize which suppliers to engage with on this environmental issue

(5.11.2.2) Criteria informing which suppliers are prioritized for engagement on this environmental issue

Select all that apply

☑ Strategic status of suppliers

(5.11.2.4) Please explain

Our Preferred Supplier Program offers growth opportunities to suppliers that meet a set of sustainability criteria aligned with our core values. The criteria for becoming a preferred supplier are streamlined into five categories that include sustainability expectations such as consistent reporting on sustainability metrics, driving sustainability throughout the supplier's value chain, reducing carbon footprint and collaboratively working to design sustainable packaging, cubing and shipping routes.

Water

(5.11.2.1) Supplier engagement prioritization on this environmental issue

Select from:

☑ Yes, we prioritize which suppliers to engage with on this environmental issue

(5.11.2.2) Criteria informing which suppliers are prioritized for engagement on this environmental issue

Select all that apply

☑ Strategic status of suppliers

(5.11.2.4) Please explain

Our Preferred Supplier Program offers growth opportunities to suppliers that meet a set of sustainability criteria aligned with our core values. The criteria for becoming a preferred supplier are streamlined into five categories that include sustainability expectations such as consistent reporting on sustainability metrics, driving sustainability throughout the supplier's value chain, reducing carbon footprint and collaboratively working to design sustainable packaging, cubing and shipping routes.
[Fixed row]

(5.11.5) Do your suppliers have to meet environmental requirements as part of your organization's purchasing process?

Climate change

(5.11.5.1) Suppliers have to meet specific environmental requirements related to this environmental issue as part of the purchasing process

Select from:

☑ Yes, suppliers have to meet environmental requirements related to this environmental issue, but they are not included in our supplier contracts

(5.11.5.2) Policy in place for addressing supplier non-compliance

Select from:

☑ Yes, we have a policy in place for addressing non-compliance

(5.11.5.3) Comment

Our Business Partner Code of Conduct, Supplier Sustainability Expectations, and our Sustainable Procurement Policy have specific ESG requirements outlined. All Preferred Suppliers are required to meet preferred supplier requirements which include annual sustainability data reporting. We manage supplier sustainability data through Benchmark ESG/GensuiteTM, a reporting platform that provides visibility into supplier performance against our standards, including reporting on energy and GHG performance. In 2023, 100% of preferred suppliers were enrolled in the program.

Water

(5.11.5.1) Suppliers have to meet specific environmental requirements related to this environmental issue as part of the purchasing process

Select from:

☑ Yes, suppliers have to meet environmental requirements related to this environmental issue, but they are not included in our supplier contracts

(5.11.5.2) Policy in place for addressing supplier non-compliance

Select from:

☑ Yes, we have a policy in place for addressing non-compliance

(5.11.5.3) Comment

Our Business Partner Code of Conduct, Supplier Sustainability Expectations, and our Sustainable Procurement Policy have specific ESG requirements outlined. All Preferred Suppliers are required to meet preferred supplier requirements which include annual sustainability data reporting. We manage supplier sustainability data through Benchmark ESG/GensuiteTM, a reporting platform that provides visibility into supplier performance against our standards, including reporting on energy and GHG performance. In 2023, 100% of preferred suppliers were enrolled in the program.
[Fixed row]

(5.11.6) Provide details of the environmental requirements that suppliers have to meet as part of your organization's purchasing process, and the compliance measures in place.

Climate change

(5.11.6.1) Environmental requirement

Select from:

☑ Regular environmental risk assessments (at least once annually)

(5.11.6.2) Mechanisms for monitoring compliance with this environmental requirement

Select all that apply

☑ Supplier self-assessment

(5.11.6.3) % tier 1 suppliers by procurement spend required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.4) % tier 1 suppliers by procurement spend in compliance with this environmental requirement

Select from:

☑ 1-25%

(5.11.6.7) % tier 1 supplier-related scope 3 emissions attributable to the suppliers required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.8) % tier 1 supplier-related scope 3 emissions attributable to the suppliers in compliance with this environmental requirement

Select from:

☑ 1-25%

(5.11.6.9) Response to supplier non-compliance with this environmental requirement

Select from:

☑ Retain and engage

(5.11.6.10) % of non-compliant suppliers engaged

Select from:

☑ 100%

(5.11.6.11) Procedures to engage non-compliant suppliers

Select all that apply

☑ Providing information on appropriate actions that can be taken to address non-compliance

(5.11.6.12) Comment

The Trane Technologies Business Partner Code of Conduct (BPCoC) sets forth our expectations for suppliers to operate ethically and in full compliance with our standards. We expect that suppliers also hold their own suppliers to these high standards. Beyond adhering to the ethical principles in the BPCoC, we encourage suppliers to meet the goals outlined in our Trane Technologies Supplier Sustainability Expectations, benefiting both our customers and the environment. We support our suppliers in applying best practices in areas such as resource conservation and packaging, among other topics. To facilitate this, we offer training and workshops, based on the needs and interests of our suppliers. For instance, we collaborate with key suppliers to improve our understanding of the specific emissions in the products we purchase and our suppliers' goals for reducing emissions. We manage supplier sustainability data through a third-party benchmark management system. Our Supplier Sustainability Survey, sent to all preferred suppliers, asks questions to understand sustainability initiatives and progress. The survey aims to understand how they manage energy, emissions, waste and water usage. This data allows us to identify opportunities to support them and implement action plans to help them continue making progress. We do not maintain relationships with suppliers who cannot uphold our BPCoC, meet quality expectations, or who violate labor standards.

Water

(5.11.6.1) Environmental requirement

Select from:

☑ Regular environmental risk assessments (at least once annually)

(5.11.6.2) Mechanisms for monitoring compliance with this environmental requirement

Select all that apply

☑ Supplier self-assessment

(5.11.6.3) % tier 1 suppliers by procurement spend required to comply with this environmental requirement

Select from:

☑ 100%

(5.11.6.4) % tier 1 suppliers by procurement spend in compliance with this environmental requirement

Select from:

☑ 1-25%

(5.11.6.5) % tier 1 suppliers with substantive environmental dependencies and/or impacts related to this environmental issue required to comply with this environmental requirement

Select from:

☑ 1-25%

(5.11.6.6) % tier 1 suppliers with substantive environmental dependencies and/or impacts related to this environmental issue that are in compliance with this environmental requirement

Select from:

☑ 1-25%

(5.11.6.9) Response to supplier non-compliance with this environmental requirement

Select from:

☑ Retain and engage

(5.11.6.10) % of non-compliant suppliers engaged

Select from:

☑ 100%

(5.11.6.11) Procedures to engage non-compliant suppliers

Select all that apply

☑ Providing information on appropriate actions that can be taken to address non-compliance

(5.11.6.12) Comment

The Trane Technologies Business Partner Code of Conduct (BPCoC) sets forth our expectations for suppliers to operate ethically and in full compliance with our standards. We expect that suppliers also hold their own suppliers to these high standards. Beyond adhering to the ethical principles in the BPCoC, we encourage suppliers to meet the goals outlined in our Trane Technologies Supplier Sustainability Expectations, benefiting both our customers and the environment. We support our suppliers in applying best practices in areas such as resource conservation and packaging, among other topics. To facilitate this, we offer training and workshops, based on the needs and interests of our suppliers. For instance, we collaborate with key suppliers to improve our understanding of the specific emissions in the products we purchase and our suppliers' goals for reducing emissions. We manage supplier sustainability data through a third-party benchmark management system. Our Supplier Sustainability Survey, sent to all preferred suppliers, asks questions to understand sustainability initiatives and progress. The survey aims to understand how they manage energy, emissions, waste and water usage. This data allows us to identify opportunities to support them and implement action plans to help them continue making progress. We do not maintain relationships with suppliers who cannot uphold our BPCoC, meet quality expectations, or who violate labor standards. [Add row]

(5.11.7) Provide further details of your organization's supplier engagement on environmental issues.

Climate change

(5.11.7.2) Action driven by supplier engagement

Select from:

☑ Emissions reduction

(5.11.7.3) Type and details of engagement

Capacity building

☑ Provide training, support and best practices on how to mitigate environmental impact

Financial incentives

☑ Feature environmental performance in supplier awards scheme

Information collection

☑ Collect GHG emissions data at least annually from suppliers

☑ Collect targets information at least annually from suppliers

☑ Collect water quantity information at least annually from suppliers (e.g., withdrawal and discharge volumes)

(5.11.7.4) Upstream value chain coverage

Select all that apply

☑ Tier 1 suppliers

(5.11.7.5) % of tier 1 suppliers by procurement spend covered by engagement

Select from:

☑ 1-25%

(5.11.7.6) % of tier 1 supplier-related scope 3 emissions covered by engagement

Select from:

☑ 1-25%

(5.11.7.9) Describe the engagement and explain the effect of your engagement on the selected environmental action

Engagement is in various ways - e.g. annual ESG surveys, expectation setting through supplier forums, dialogues during supplier business reviews, sustainability policy and code of conduct documents. Through this - we are creating a better awareness through broader supply-base and now beginning to target activities with the suppliers, where we see biggest potential.

(5.11.7.10) Engagement is helping your tier 1 suppliers meet an environmental requirement related to this environmental issue

Select from:

☑ Yes, please specify the environmental requirement :Effective environmental policy and conduct operations in a way that protects the environment. Obtain and keep current required environmental permits and meet applicable environmental rules, regulations and laws in the countries where they do business

(5.11.7.11) Engagement is helping your tier 1 suppliers engage with their own suppliers on the selected action

Select from:
☑ Unknown

Water

(5.11.7.2) Action driven by supplier engagement

Select from:
☑ No other supplier engagement
[Add row]

(5.11.9) Provide details of any environmental engagement activity with other stakeholders in the value chain.

Climate change

(5.11.9.1) Type of stakeholder

Select from:
☑ Customers

(5.11.9.2) Type and details of engagement

Education/Information sharing
☑ Educate and work with stakeholders on understanding and measuring exposure to environmental risks
☑ Run an engagement campaign to educate stakeholders about the environmental impacts about your products, goods and/or services
☑ Share information about your products and relevant certification schemes
☑ Share information on environmental initiatives, progress and achievements

Innovation and collaboration

☑ Align your organization’s goals to support customers’ targets and ambitions

(5.11.9.3) % of stakeholder type engaged

Select from:

☑ 100%

(5.11.9.4) % stakeholder-associated scope 3 emissions

Select from:

☑ 100%

(5.11.9.5) Rationale for engaging these stakeholders and scope of engagement

All customers are in scope for this engagement because our Gigaton Challenge aims to reduce our full customer carbon footprint by 1 gigaton of emissions. We do this by calculating emissions from all products sold within the reporting year, so every customer is crucial to success of the engagement.

(5.11.9.6) Effect of engagement and measures of success

Trane Technologies' "Gigaton Challenge" is our commitment to reduce one gigaton of emissions from our customer carbon footprint. Every year, Trane Technologies calculates the reduction in product emissions and emissions avoided through services for that year. Our goal is to have the cumulative annual contributions add up to 1 gigaton of GHG emissions (1 billion mtCO2e) by 2030. Our calculations cover our complete product portfolio of over a million configured and non-configured products. We made the conscious decision to set 2019 as our baseline year, rather than selecting an earlier year than 2019, because the planet needs our industry to change now. Our ambition is to make a significant impact as quickly as possible. At the conclusion of 2023, we had reduced our customer carbon footprint by 157 million mtCO2e since our baseline year of 2019, reflecting a successful measurement of our engagement.
[Add row]

C6. Environmental Performance - Consolidation Approach

(6.1) Provide details on your chosen consolidation approach for the calculation of environmental performance data.

Climate change

(6.1.1) Consolidation approach used

Select from:

☑ Financial control

(6.1.2) Provide the rationale for the choice of consolidation approach

We define our organizational boundary using the financial control approach and report on GHG emissions using the GHG Protocol. We believe this most accurately reflects the direct impact of our operational footprint.

Water

(6.1.1) Consolidation approach used

Select from:

☑ Financial control

(6.1.2) Provide the rationale for the choice of consolidation approach

We define our organizational boundary using the financial control approach. We believe this most accurately reflects the direct impact of our operational footprint

Plastics

(6.1.1) Consolidation approach used

Select from:

☑ Other, please specify **:**We have not chosen a consolidation approach for plastics.

(6.1.2) Provide the rationale for the choice of consolidation approach

We have not yet evaluated environmental impacts related to plastics.

Biodiversity

(6.1.1) Consolidation approach used

Select from:

☑ Other, please specify **:**We have not chosen a consolidation approach for biodiversity

(6.1.2) Provide the rationale for the choice of consolidation approach

We have not yet evaluated environmental impacts related to biodiversity.
[Fixed row]

C7. Environmental performance - Climate Change

(7.1) Is this your first year of reporting emissions data to CDP?

Select from:
☑ No

(7.1.1) 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?

(7.1.1.1) Has there been a structural change?

Select all that apply
☑ Yes, an acquisition

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

Acquired Hemler Scientific - Noblesville, IN, USA, and MTA S.p.A., and Nuvolo.

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

On May 2, 2023, we completed the acquisition of MTA S.p.A (MTA), a leading industrial process cooling technology business, which brings complementary, high-performing solutions to the comprehensive Commercial HVAC product and services portfolio. The results of the acquisition are reported within the EMEA and Americas segments. On May 12, 2023, we completed the acquisition of Helmer Scientific Inc (Helmer), a precision temperature cooling company in the life sciences vertical. The results of the acquisition are reported within the Americas segment. On November 2, 2023, we completed the acquisition of Nuvolo Technologies Corporation (Nuvolo), a global leader in modern, cloud-based enterprise asset management and connected workplace software and solutions. The results of the acquisition are reported within the Americas segment.
[Fixed row]

(7.1.2) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

(7.1.2.1) Change(s) in methodology, boundary, and/or reporting year definition?

Select all that apply

☑ Yes, a change in boundary

(7.1.2.2) Details of methodology, boundary, and/or reporting year definition change(s)

The boundary change is associated with the new business operations (Helmer Scientific, MTA, and Nuvolo) acquired during 2023. Trane Technologies collects sustainability related data (energy usage, water consumed, waste generated, etc.) as part of our New Facility Integration Standard Work.
[Fixed row]

(7.1.3) Have your organization's base year emissions and past years' emissions been recalculated as a result of any changes or errors reported in 7.1.1 and/or 7.1.2?

(7.1.3.1) Base year recalculation

Select from:

☑ Yes

(7.1.3.2) Scope(s) recalculated

Select all that apply

☑ Scope 1

☑ Scope 2, location-based

☑ Scope 2, market-based

(7.1.3.3) Base year emissions recalculation policy, including significance threshold

Trane Technologies' approach is to revise base year emissions for any mergers/acquisitions or divestitures.

(7.1.3.4) Past years' recalculation

Select from:

☑ Yes

[Fixed row]

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

Select all that apply

☑ ISO 14064-1

☑ The Greenhouse Gas Protocol: Scope 2 Guidance

☑ The Climate Registry: General Reporting Protocol

☑ The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

☑ US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources

☑ US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources

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

(7.3.1) Scope 2, location-based

Select from:

☑ We are reporting a Scope 2, location-based figure

(7.3.2) Scope 2, market-based

Select from:

☑ We are reporting a Scope 2, market-based figure

(7.3.3) Comment

Trane Technologies calculates annual, indirect Scope 2 GHG emissions for both location-based and market-based. Our calculations utilize the total electricity used to operate each facility within our GHG reporting framework. The electricity activity data for both sets of calculations includes the purchased electricity provided by our power suppliers, with adjustments incorporated to account for onsite photovoltaic electricity generation systems. The market-based calculations also accommodate Scope 2 GHG improvements realized through the purchase of 100% renewable/zero carbon electricity from some suppliers/locations and zero carbon electricity benefits from the retirement of Renewable Energy Credits. For location-based GHG emission factors, Trane Technologies utilizes the eGrid factors published by the US EPA for US locations and the annual electricity emissions factors available from the International Energy Agency (IEA). Market-based factors are obtained from our power suppliers where available or drawn from the various Residual Mix factor sets.
[Fixed row]

(7.4) 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?

Select from:
☑ No

(7.5) Provide your base year and base year emissions.

Scope 1

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

319240

(7.5.3) Methodological details

Scope 1 carbon calculated for direct usage of fossil fuels and fugitive losses of refrigerants from process/comfort cooling equipment. Scope 1 refrigerant carbon also calculated for losses at our manufacturing facilities during the charging/use of refrigerants added to finished goods during manufacturing. Fossil fuels consider material use at our factories as well as gasoline/diesel used by our sales & service vehicles. Carbon emissions are calculated using published carbon emission factors and the material usage or loss.

Scope 2 (location-based)

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

160592

(7.5.3) Methodological details

Scope 2 location-based emissions are calculated using purchased electricity data and the published emission factors. The factors are from either the US EPA eGRID factors or from the International Energy Association's annual factor reports.

Scope 2 (market-based)

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

123500

(7.5.3) Methodological details

Scope 2 market-based emissions are calculated using purchased electricity data and the published emission factors. The factors are collected from generation reports published by the power company who provides electricity to our locations. Where supplier factors are unavailable, residual mix factors are used.

Scope 3 category 1: Purchased goods and services

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

4137149

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 2: Capital goods

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.

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

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

61815.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 4: Upstream transportation and distribution

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

33907

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 5: Waste generated in operations

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

12144.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 6: Business travel

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

30340.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 7: Employee commuting

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

51164.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 8: Upstream leased assets

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

67000.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 9: Downstream transportation and distribution

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

101721

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 10: Processing of sold products

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.

Scope 3 category 11: Use of sold products

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

365000000.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

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

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

1863829.0

(7.5.3) Methodological details

We use GHG protocol to calculate emissions from this category.

Scope 3 category 13: Downstream leased assets

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.

Scope 3 category 14: Franchises

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.

Scope 3 category 15: Investments

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.

Scope 3: Other (upstream)

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.

Scope 3: Other (downstream)

(7.5.1) Base year end

12/31/2019

(7.5.3) Methodological details

We do not have emissions from this category.
[Fixed row]

(7.6) What were your organization’s gross global Scope 1 emissions in metric tons CO2e?

Reporting year

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

206381

(7.6.3) Methodological details

Scope 1 carbon calculated for direct usage of fossil fuels and fugitive losses of refrigerants from process/comfort cooling equipment. Scope 1 refrigerant carbon also calculated for losses at our manufacturing facilities during the charging/use of refrigerants added to finished goods during manufacturing. Fossil fuels consider

material use at our factories as well as gasoline/diesel used by our sales & service vehicles. Carbon emissions are calculated using published carbon emission factors and the material usage or loss.
[Fixed row]

(7.7) What were your organization’s gross global Scope 2 emissions in metric tons CO2e?

Reporting year

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO2e)

125851

(7.7.2) Gross global Scope 2, market-based emissions (metric tons CO2e) (if applicable)

40963

(7.7.4) Methodological details

Electricity carbon emissions are calculated based on the electricity used and the associated carbon emission factor. Market-based emissions are adjusted to account for renewable energy and renewable energy credits.
[Fixed row]

(7.8) Account for your organization’s gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

(7.8.1) Evaluation status

Select from:
☑ Relevant, calculated

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

5000000

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Spend-based method

☑ Average product method

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

0

(7.8.5) Please explain

We use a spend-based method as detailed in the Scope 3 calculation guidance for 'Purchased Goods and Services.'

Capital goods

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

We include capital good purchases in category 1.

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

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

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

58538

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average product method

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

0

(7.8.5) Please explain

We update the calculation for not relevant categories on a 5 year basis.

Upstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

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

32097

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Hybrid method

☑ Fuel-based method

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

100

(7.8.5) Please explain

Trane Technologies is a shipping partner of the EPA SmartWay (TM) program. SmartWay provides a comprehensive and well- recognized system for tracking, documenting and sharing information about fuel use and freight emissions across supply chains. Freight emissions are classified into two parts: upstream and downstream. Upstream is about 25% of our annual expenditure and downstream is about 75% of our annual expenditure. Because SmartWay data is broken down by carrier we have used spend to determine relative upstream and downstream emissions. SmartWay data is delayed, therefore the number represented here is from the prior reporting period (FY 2022).

Waste generated in operations

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

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

101767

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Waste-type-specific method

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

0

(7.8.5) Please explain

Trane Technologies manages data of waste production in operations. These are categorized as hazardous waste and non-hazardous waste. For each waste category there are different disposal types. Using emissions factors from GHG Protocol Scope 3 guidance for Waste Generated in Operations for each disposal method and the total weight of each stream of disposal method we calculated total carbon emissions. We update the calculation for not relevant categories on a 5 year basis.

Business travel

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

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

9958

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Supplier-specific method

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

100

(7.8.5) Please explain

.

Employee commuting

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

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

51164

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average data method

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

0

(7.8.5) Please explain

We have used the average data method as detailed in the Scope 3 calculation guidance for 'Employee Commuting'. We used the U.S. Census Bureau's annual American Community Survey 2011 on employee commuting. We have, for the lack of better information, assumed the same ratio for the rest of the world as well. We update the calculation for not relevant categories on a 5 year basis.

Upstream leased assets

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

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

53774

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Site-specific method

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

0

(7.8.5) Please explain

We have classified all our leased assets (office, warehouse, services) as Scope 3 based on the financial control approach. Using emissions factors taken from IEA (International Energy Agency) for average electricity consumption per square foot for a building type, we have calculated total emissions across all our facilities based on total area.

Downstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

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

96291

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Supplier-specific method

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

100

(7.8.5) Please explain

Trane Technologies is a shipping partner of the EPA SmartWay (TM) program. SmartWay provides a comprehensive and well- recognized system for tracking, documenting and sharing information about fuel use and freight emissions across supply chains. Freight emissions are classified into two parts: upstream and downstream. Upstream is about 25% of our annual expenditure and downstream is about 75% of our annual expenditure. Because SmartWay data is broken down by carrier we have used spend to determine relative upstream and downstream emissions. SmartWay data is delayed, therefore the number represented here is from the prior reporting period (FY 2022).

Processing of sold products

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Trane Technologies did not sell any intermediate products which required further processing in the reporting year.

Use of sold products

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

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

266000000

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

☑ Asset-specific method

☑ Site-specific method

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

0

(7.8.5) Please explain

We calculate all the emissions from each product sold, for the lifespan of that product. Emissions include energy sources as well as refrigerants and are location-specific. We have received third party assurance on this category.

End of life treatment of sold products

(7.8.1) Evaluation status

Select from:

☑ Not relevant, calculated

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

1765043

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

☑ Asset-specific method

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

0

(7.8.5) Please explain

We update the calculation for not relevant categories on a 5 year basis.

Downstream leased assets

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

We do not have downstream leased assets which generate emissions.

Franchises

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

We do not have franchises.

Investments

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

We do not have investments with emissions associated.

Other (upstream)

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

No other emissions.

Other (downstream)

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

No other emissions.
[Fixed row]

(7.9) Indicate the verification/assurance status that applies to your reported emissions.

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

[Fixed row]

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

Row 1

(7.9.1.1) Verification or assurance cycle in place

Select from:
☑ Annual process

(7.9.1.2) Status in the current reporting year

Select from:
☑ Complete

(7.9.1.3) Type of verification or assurance

Select from:
☑ Limited assurance

(7.9.1.4) Attach the statement

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(7.9.1.5) Page/section reference

Page 1

(7.9.1.6) Relevant standard

Select from:
☑ ISAE3000

(7.9.1.7) Proportion of reported emissions verified (%)

100
[Add row]

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

Row 1

(7.9.2.1) Scope 2 approach

Select from:

☑ Scope 2 location-based

(7.9.2.2) Verification or assurance cycle in place

Select from:
☑ Annual process

(7.9.2.3) Status in the current reporting year

Select from:
☑ Complete

(7.9.2.4) Type of verification or assurance

Select from:
☑ Limited assurance

(7.9.2.5) Attach the statement

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(7.9.2.6) Page/ section reference

Page 1

(7.9.2.7) Relevant standard

Select from:
☑ ISAE3000

(7.9.2.8) Proportion of reported emissions verified (%)

100

Row 1

(7.9.2.1) Scope 2 approach

Select from:

☑ Scope 2 market-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

☑ Annual process

(7.9.2.3) Status in the current reporting year

Select from:

☑ Complete

(7.9.2.4) Type of verification or assurance

Select from:

☑ Limited assurance

(7.9.2.5) Attach the statement

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(7.9.2.6) Page/ section reference

Page 1

(7.9.2.7) Relevant standard

Select from:

☑ ISAE3000

(7.9.2.8) Proportion of reported emissions verified (%)

100
[Add row]

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

Row 1

(7.9.3.1) Scope 3 category

Select all that apply

☑ Scope 3: Business travel

☑ Scope 3: Use of sold products

(7.9.3.2) Verification or assurance cycle in place

Select from:

☑ Annual process

(7.9.3.3) Status in the current reporting year

Select from:

☑ Complete

(7.9.3.4) Type of verification or assurance

Select from:

☑ Limited assurance

(7.9.3.5) Attach the statement

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(7.9.3.6) Page/section reference

(7.9.3.7) Relevant standard

Select from:
☑ ISAE3000

(7.9.3.8) Proportion of reported emissions verified (%)

100
[Add row]

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

Select from:
☑ Decreased

(7.10.1) 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 renewable energy consumption

(7.10.1.1) Change in emissions (metric tons CO2e)

14572

(7.10.1.2) Direction of change in emissions

Select from:
☑ Decreased

(7.10.1.3) Emissions value (percentage)

0.049

(7.10.1.4) Please explain calculation

Difference is 2023 vs 2022 Scope 2 market-based adjusted GHG. Annual numbers are calculated using site-specific MB emission factors and renewable energy change.

Other emissions reduction activities

(7.10.1.1) Change in emissions (metric tons CO2e)

28890

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

0.097

(7.10.1.4) Please explain calculation

Company-wide action to shift to use of lower global warming potential refrigerants charged to finished goods. Calculated by using the AR5 GWP factor and the associated refrigerant losses.

Divestment

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Not applicable.

Acquisitions

(7.10.1.1) Change in emissions (metric tons CO2e)

2294

(7.10.1.2) Direction of change in emissions

Select from:
☑ Increased

(7.10.1.3) Emissions value (percentage)

0.0077

(7.10.1.4) Please explain calculation

Acquisition of 6 new manufacturing facilities. These are small operations. Scope 1 and 2 calculated using fuels/energy usage and associated GHG emission factors.

Mergers

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Not applicable.

Change in output

(7.10.1.1) Change in emissions (metric tons CO2e)

9419

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

0.0317

(7.10.1.4) Please explain calculation

Sections of the global business operations decreased. Change in emissions calculated for current/previous year fuels/energy usage and associated GHG emission factors.

Change in methodology

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Not applicable.

Change in boundary

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Not applicable.

Change in physical operating conditions

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Not applicable.

Unidentified

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

Not applicable.

Other

(7.10.1.1) Change in emissions (metric tons CO2e)

5197

(7.10.1.2) Direction of change in emissions

Select from:
☑ Increased

(7.10.1.3) Emissions value (percentage)

0.0175

(7.10.1.4) Please explain calculation

This item is for the gasoline and diesel fuel used by the global sales and service fleet vehicles. Fuel usage increased for 2023 vs 2022. Emissions calculated based on fuel consumed and associated GHG emissions factors.
[Fixed row]

(7.10.2) Are your emissions performance calculations in 7.10 and 7.10.1 based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Select from:
☑ Market-based

(7.11) How do your total Scope 3 emissions for the reporting year compare to those of the previous reporting year?

Select from:
☑ Decreased

(7.11.1) For each Scope 3 category calculated in 7.8, specify how your emissions compare to the previous year and identify the reason for any change.

Purchased goods and services

(7.11.1.1) Direction of change

Select from:

☑ Decreased

(7.11.1.2) Primary reason for change

Select from:

☑ Change in output

(7.11.1.3) Change in emissions in this category (metric tons CO2e)

417721

(7.11.1.4) % change in emissions in this category

8.3

(7.11.1.5) Please explain

We currently use a spend based approach for category 1, we intend to use a hybrid approach in the upcoming years which will provide more clarity around reason of change.

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

(7.11.1.1) Direction of change

Select from:

☑ No change

(7.11.1.5) Please explain

No change in this category.

Upstream transportation and distribution

(7.11.1.1) Direction of change

Select from:

☑ Increased

(7.11.1.2) Primary reason for change

Select from:

☑ Change in output

(7.11.1.3) Change in emissions in this category (metric tons CO2e)

9486

(7.11.1.4) % change in emissions in this category

30

(7.11.1.5) Please explain

Trane Technologies is a shipping partner of the EPA SmartWay (TM) program. SmartWay provides a comprehensive and well- recognized system for tracking, documenting and sharing information about fuel use and freight emissions across supply chains. Freight emissions are classified into two parts: upstream and downstream. Upstream is about 25% of our annual expenditure and downstream is about 75% of our annual expenditure. Because SmartWay data is broken down by carrier we have used spend to determine relative upstream and downstream emissions. SmartWay data is delayed therefore, the number represented here is from the prior reporting period (FY 2022).

Waste generated in operations

(7.11.1.1) Direction of change

Select from:

☑ No change

(7.11.1.5) Please explain

No change in this category.

Business travel

(7.11.1.1) Direction of change

Select from:

☑ Increased

(7.11.1.2) Primary reason for change

Select from:

☑ Change in output

(7.11.1.3) Change in emissions in this category (metric tons CO2e)

3645

(7.11.1.4) % change in emissions in this category

57.7

(7.11.1.5) Please explain

Flights booked for business travel have increased.

Employee commuting

(7.11.1.1) Direction of change

Select from:

☑ No change

(7.11.1.5) Please explain

No change in this category.

Upstream leased assets

(7.11.1.1) Direction of change

Select from:

☑ Increased

(7.11.1.2) Primary reason for change

Select from:

☑ Change in output

(7.11.1.3) Change in emissions in this category (metric tons CO2e)

3300

(7.11.1.4) % change in emissions in this category

6.5

(7.11.1.5) Please explain

We increased leased asset space.

Downstream transportation and distribution

(7.11.1.1) Direction of change

Select from:

☑ Increased

(7.11.1.2) Primary reason for change

Select from:

☑ Change in supplier or distributor

(7.11.1.3) Change in emissions in this category (metric tons CO2e)

28458

(7.11.1.4) % change in emissions in this category

30

(7.11.1.5) Please explain

Trane Technologies is a shipping partner of the EPA SmartWay (TM) program. SmartWay provides a comprehensive and well- recognized system for tracking, documenting and sharing information about fuel use and freight emissions across supply chains. Freight emissions are classified into two parts: upstream and downstream. Upstream is about 25% of our annual expenditure and downstream is about 75% of our annual expenditure. Because SmartWay data is broken down by carrier we have used spend to determine relative upstream and downstream emissions. SmartWay data is delayed therefore, the number represented here is from the prior reporting period (FY 2022).

Use of sold products

(7.11.1.1) Direction of change

Select from:

☑ Decreased

(7.11.1.2) Primary reason for change

Select from:

☑ Change in product efficiency

(7.11.1.3) Change in emissions in this category (metric tons CO2e)

37000000

(7.11.1.4) % change in emissions in this category

12.2

(7.11.1.5) Please explain

The Gigaton Challenge is the first-of-its-kind climate commitment related to customer product use of any business-to-business company. It guides our mission to change the way the world heats and cools buildings and moves refrigerated cargo. To achieve our Gigaton Challenge, we are taking action to reduce our customer carbon emissions from the use of our products and services from a 2019 baseline through 2030. Two levers that aided in this emission reduction were high efficiency equipment sales and sales of equipment with lower GWP.

End-of-life treatment of sold products

(7.11.1.1) Direction of change

Select from:

☑ No change

(7.11.1.5) Please explain

No change in this category.
[Fixed row]

(7.12) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Select from:

☑ No

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

Select from:

☑ No

(7.16) Break down your total gross global Scope 1 and 2 emissions by country/area.

Brazil

(7.16.1) Scope 1 emissions (metric tons CO2e)

1051.11

(7.16.2) Scope 2, location-based (metric tons CO2e)

88

(7.16.3) Scope 2, market-based (metric tons CO2e)

567.06

Canada

(7.16.1) Scope 1 emissions (metric tons CO2e)

368.77

(7.16.2) Scope 2, location-based (metric tons CO2e)

69

(7.16.3) Scope 2, market-based (metric tons CO2e)

17.85

China

(7.16.1) Scope 1 emissions (metric tons CO2e)

4008.5

(7.16.2) Scope 2, location-based (metric tons CO2e)

21344

(7.16.3) Scope 2, market-based (metric tons CO2e)

20376.79

Czechia

(7.16.1) Scope 1 emissions (metric tons CO2e)

726.23

(7.16.2) Scope 2, location-based (metric tons CO2e)

1311

(7.16.3) Scope 2, market-based (metric tons CO2e)

0

France

(7.16.1) Scope 1 emissions (metric tons CO2e)

8477.37

(7.16.2) Scope 2, location-based (metric tons CO2e)

436

(7.16.3) Scope 2, market-based (metric tons CO2e)

483.31

Germany

(7.16.1) Scope 1 emissions (metric tons CO2e)

4137.85

(7.16.2) Scope 2, location-based (metric tons CO2e)

1307

(7.16.3) Scope 2, market-based (metric tons CO2e)

1500.22

Ireland

(7.16.1) Scope 1 emissions (metric tons CO2e)

2932.13

(7.16.2) Scope 2, location-based (metric tons CO2e)

1097

(7.16.3) Scope 2, market-based (metric tons CO2e)

0

Italy

(7.16.1) Scope 1 emissions (metric tons CO2e)

921.39

(7.16.2) Scope 2, location-based (metric tons CO2e)

622

(7.16.3) Scope 2, market-based (metric tons CO2e)

748.44

Mexico

(7.16.1) Scope 1 emissions (metric tons CO2e)

4369.93

(7.16.2) Scope 2, location-based (metric tons CO2e)

9924

(7.16.3) Scope 2, market-based (metric tons CO2e)

4498.48

Puerto Rico

(7.16.1) Scope 1 emissions (metric tons CO2e)

12201.91

(7.16.2) Scope 2, location-based (metric tons CO2e)

5621

(7.16.3) Scope 2, market-based (metric tons CO2e)

0

Saudi Arabia

(7.16.1) Scope 1 emissions (metric tons CO2e)

32.55

(7.16.2) Scope 2, location-based (metric tons CO2e)

0

(7.16.3) Scope 2, market-based (metric tons CO2e)

0

Spain

(7.16.1) Scope 1 emissions (metric tons CO2e)

413.59

(7.16.2) Scope 2, location-based (metric tons CO2e)

135

(7.16.3) Scope 2, market-based (metric tons CO2e)

0

Thailand

(7.16.1) Scope 1 emissions (metric tons CO2e)

1071.58

(7.16.2) Scope 2, location-based (metric tons CO2e)

630

(7.16.3) Scope 2, market-based (metric tons CO2e)

698.81

United Kingdom of Great Britain and Northern Ireland

(7.16.1) Scope 1 emissions (metric tons CO2e)

1604.1

(7.16.2) Scope 2, location-based (metric tons CO2e)

76

(7.16.3) Scope 2, market-based (metric tons CO2e)

136.97

United States of America

(7.16.1) Scope 1 emissions (metric tons CO2e)

156588.34

(7.16.2) Scope 2, location-based (metric tons CO2e)

82675

(7.16.3) Scope 2, market-based (metric tons CO2e)

11186.51
[Fixed row]

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

Select all that apply

☑ By business division

(7.17.1) Break down your total gross global Scope 1 emissions by business division.

	Business division	Scope 1 emissions (metric ton CO2e)
Row 1	*Blank row - will not delete*	*0*
Row 2	*Trane HVAC (Residential)*	*59436*
Row 3	*Thermo King (Transport)*	*23494*
Row 4	*Trane HVAC (Commercial)*	*67008*
Row 5	*Enterprise (corporate, engineering centers)*	*56443*

[Add row]

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

Select all that apply

☑ By business division

(7.20.1) 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)
Row 1	*Blank row - unable to delete*	*0*	*0*
Row 2	*Trane HVAC (Commercial)*	*73121*	*28213.4*
Row 3	*Enterprise (corporate, engineering centers)*	*10129*	*10728.52*
Row 4	*Trane HVAC (Residential)*	*28173*	*664.94*
Row 5	*Thermo King (Transport)*	*14427*	*1356.11*

[Add row]

(7.22) Break down your gross Scope 1 and Scope 2 emissions between your consolidated accounting group and other entities included in your response.

Consolidated accounting group

(7.22.1) Scope 1 emissions (metric tons CO2e)

206381

(7.22.2) Scope 2, location-based emissions (metric tons CO2e)

125851

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

40963

(7.22.4) Please explain

The consolidated accounting group is the rollup of Commercial, Residential, Enterprise, and Thermo King.

All other entities

(7.22.1) Scope 1 emissions (metric tons CO2e)

0

(7.22.2) Scope 2, location-based emissions (metric tons CO2e)

0

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

0

(7.22.4) Please explain

No other entities.
[Fixed row]

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

Select from:
☑ No

(7.27) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Row 1

(7.27.1) Allocation challenges

Select from:

☑ Customer base is too large and diverse to accurately track emissions to the customer level

[Add row]

(7.28) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

	Do you plan to develop your capabilities to allocate emissions to your customers in the future?	Describe how you plan to develop your capabilities
	Select from: ☑ Yes	*Our LCA and EPD strategy will enable us to better allocate emissions to the customer level.*

[Fixed row]

(7.29) What percentage of your total operational spend in the reporting year was on energy?

Select from:

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

(7.30) 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)	*Select from:* ☑ Yes
Consumption of purchased or acquired electricity	*Select from:*

	Indicate whether your organization undertook this energy-related activity in the reporting year
	☑ Yes
Consumption of purchased or acquired heat	*Select from:* ☑ No
Consumption of purchased or acquired steam	*Select from:* ☑ No
Consumption of purchased or acquired cooling	*Select from:* ☑ No
Generation of electricity, heat, steam, or cooling	*Select from:* ☑ Yes

[Fixed row]

(7.30.1) Report your organization’s energy consumption totals (excluding feedstocks) in MWh.

Consumption of fuel (excluding feedstock)

(7.30.1.1) Heating value

Select from:

☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

411

(7.30.1.3) MWh from non-renewable sources

533503

(7.30.1.4) Total (renewable and non-renewable) MWh

533914

Consumption of purchased or acquired electricity

(7.30.1.1) Heating value

Select from:
☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

211210

(7.30.1.3) MWh from non-renewable sources

97221

(7.30.1.4) Total (renewable and non-renewable) MWh

308431

Consumption of self-generated non-fuel renewable energy

(7.30.1.1) Heating value

Select from:
☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

3655

(7.30.1.4) Total (renewable and non-renewable) MWh

3655

Total energy consumption

(7.30.1.1) Heating value

Select from:
☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

215276

(7.30.1.3) MWh from non-renewable sources

630724

(7.30.1.4) Total (renewable and non-renewable) MWh

846000
[Fixed row]

(7.30.6) 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	*Select from:* ☑ No

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of heat	*Select from:* ☑ Yes
Consumption of fuel for the generation of steam	*Select from:* ☑ No
Consumption of fuel for the generation of cooling	*Select from:* ☑ No
Consumption of fuel for co-generation or tri-generation	*Select from:* ☑ No

[Fixed row]

(7.30.7) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

(7.30.7.1) Heating value

Select from:

☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

410.86

(7.30.7.8) Comment

Consumption of biodiesel, biopropane, and vegetable oil.

Other biomass

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.8) Comment

None.

Other renewable fuels (e.g. renewable hydrogen)

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.8) Comment

None.

Coal

(7.30.7.1) Heating value

Select from:

☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.8) Comment

None.

Oil

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

328578.12

(7.30.7.8) Comment

Consumption of aviation fuel, diesel, fuel oil, gasoline, propane, and propylene for factories and service fleet.

Gas

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

204925

(7.30.7.8) Comment

Natural gas for comfort and process heating.

Other non-renewable fuels (e.g. non-renewable hydrogen)

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.8) Comment

None.

Total fuel

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

533913.97

(7.30.7.8) Comment

Total for sustainabile biomass, oil-based fuels, and gas based fuels.
[Fixed row]

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

Electricity

(7.30.9.1) Total Gross generation (MWh)

8922.14

(7.30.9.2) Generation that is consumed by the organization (MWh)

7015.11

(7.30.9.3) Gross generation from renewable sources (MWh)

8922.14

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

7015.11

Heat

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

Steam

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

Cooling

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0
[Fixed row]

(7.30.16) Provide a breakdown by country/area of your electricity/heat/steam/cooling consumption in the reporting year.

Brazil

(7.30.16.1) Consumption of purchased electricity (MWh)

947.42

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:
☑ No

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

843.7

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

1791.12

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Canada

(7.30.16.1) Consumption of purchased electricity (MWh)

575.87

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

1731.29

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

2307.16

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

China

(7.30.16.1) Consumption of purchased electricity (MWh)

34552.81

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

3543.67

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

2858.13

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

40954.61

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Czechia

(7.30.16.1) Consumption of purchased electricity (MWh)

3185.96

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

991.18

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

4177.14

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

France

(7.30.16.1) Consumption of purchased electricity (MWh)

8493.77

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

10018.22

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

18511.99

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Germany

(7.30.16.1) Consumption of purchased electricity (MWh)

4178.68

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

8433.88

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

12612.56

(7.30.16.7) Provide details of the electricity consumption excluded

None Excluded.

Ireland

(7.30.16.1) Consumption of purchased electricity (MWh)

4110.81

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

1.07

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:
☑ No

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

3403.94

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

7515.82

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Italy

(7.30.16.1) Consumption of purchased electricity (MWh)

2175.82

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:
☑ No

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

1910

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

4085.82

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Mexico

(7.30.16.1) Consumption of purchased electricity (MWh)

24717.8

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

110.1

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

3966.99

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

28794.89

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Puerto Rico

(7.30.16.1) Consumption of purchased electricity (MWh)

7704.33

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

7704.33

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded

Saudi Arabi

(7.30.16.1) Consumption of purchased electricity (MWh)

0

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Spain

(7.30.16.1) Consumption of purchased electricity (MWh)

877.37

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:
☑ No

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

877.37

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

Thailand

(7.30.16.1) Consumption of purchased electricity (MWh)

1320.95

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:

☑ No

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

0

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

1320.95

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

United Kingdom of Great Britain and Northern Ireland

(7.30.16.1) Consumption of purchased electricity (MWh)

390.11

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

0

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:
☑ No

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

424.42

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

814.53

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.

United States of America

(7.30.16.1) Consumption of purchased electricity (MWh)

210260.45

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

3360.27

(7.30.16.3) Is some or all of this electricity consumption excluded from your RE100 commitment?

Select from:
☑ No

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

171903.83

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

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

385524.55

(7.30.16.7) Provide details of the electricity consumption excluded

None excluded.
[Fixed row]

(7.30.17) Provide details of your organization’s renewable electricity purchases in the reporting year by country/area.

Row 1

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ China

(7.30.17.2) Sourcing method

Select from:

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

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Solar

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

5297.76

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ China

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

Select from:

☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:
☑ 2023

(7.30.17.10) Supply arrangement start year

2020

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:
☑ No additional, voluntary label

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 2

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:
☑ Czechia

(7.30.17.2) Sourcing method

Select from:
☑ Unbundled procurement of Energy Attribute Certificates (EACs)

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Wind

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

3223.81

(7.30.17.5) Tracking instrument used

Select from:
☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:
☑ Czechia

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

Select from:
☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:
☑ 2023

(7.30.17.10) Supply arrangement start year

2020

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 3

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ Germany

(7.30.17.2) Sourcing method

Select from:

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

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Renewable electricity mix, please specify **:**Mix of wind and solar.

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

804.53

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ Germany

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

Select from:

☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2020

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 4

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ Italy

(7.30.17.2) Sourcing method

Select from:

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

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Wind

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

538.17

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ Italy

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

Select from:

☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2022

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 5

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ Ireland

(7.30.17.2) Sourcing method

Select from:

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

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Renewable electricity mix, please specify **:**Wind and solar

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

4110.98

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ Ireland

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

Select from:

☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2020

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 6

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:
☑ Mexico

(7.30.17.2) Sourcing method

Select from:
☑ Retail supply contract with an electricity supplier (retail green electricity)

(7.30.17.3) Renewable electricity technology type

Select from:
☑ Solar

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

14084.12

(7.30.17.5) Tracking instrument used

Select from:
☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ Mexico

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

Select from:
☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:
☑ 2023

(7.30.17.10) Supply arrangement start year

2022

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:
☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 7

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:
☑ Spain

(7.30.17.2) Sourcing method

Select from:

☑ Unbundled procurement of Energy Attribute Certificates (EACs)

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Wind

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

877.41

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ Spain

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

Select from:

☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2020

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Supply arrange with local power companies. Estimated commissioning year of generation facility.

Row 8

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ United States of America

(7.30.17.2) Sourcing method

Select from:

☑ Financial (virtual) power purchase agreement (VPPA)

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Wind

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

101053

(7.30.17.5) Tracking instrument used

Select from:

☑ US-REC

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ United States of America

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

Select from:

☑ Yes

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

2019

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2019

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

VPPA partnership with Texas-based windfarm. Partner from the 2019 inception.

Row 9

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ United States of America

(7.30.17.2) Sourcing method

Select from:

☑ Unbundled procurement of Energy Attribute Certificates (EACs)

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Renewable electricity mix, please specify :Solar and wind.

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

79368.41

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ United States of America

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

Select from:

☑ No

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

2020

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2019

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Purchased directedly or acquired RECs from electricity suppliers.. Estimated commissioning year of generation facility.

Row 10

(7.30.17.1) Country/area of consumption of purchased renewable electricity

Select from:

☑ United States of America

(7.30.17.2) Sourcing method

Select from:

☑ Project-specific contract with an electricity supplier

(7.30.17.3) Renewable electricity technology type

Select from:

☑ Solar

(7.30.17.4) Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1852.2

(7.30.17.5) Tracking instrument used

Select from:

☑ Contract

(7.30.17.6) Country/area of origin (generation) of purchased renewable electricity

Select from:

☑ United States of America

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

Select from:

☑ Yes

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

2019

(7.30.17.9) Vintage of the renewable energy/attribute (i.e. year of generation)

Select from:

☑ 2023

(7.30.17.10) Supply arrangement start year

2021

(7.30.17.11) Ecolabel associated with purchased renewable electricity

Select from:

☑ Green-e Certified(R) Renewable Energy

(7.30.17.12) Comment

Direct solar electricity supply arrangment from the local renewable electricity cooperative.
[Add row]

(7.30.19) Provide details of your organization’s renewable electricity generation by country/area in the reporting year.

Row 1

(7.30.19.1) Country/area of generation

Select from:

☑ China

(7.30.19.2) Renewable electricity technology type

Select from:

☑ Solar

(7.30.19.3) Facility capacity (MW)

5.5

(7.30.19.4) Total renewable electricity generated by this facility in the reporting year (MWh)

3979.89

(7.30.19.5) Renewable electricity consumed by your organization from this facility in the reporting year (MWh)

3453.67

(7.30.19.6) Energy attribute certificates issued for this generation

Select from:

☑ No

(7.30.19.8) Comment

Onsite, behind the meter solar generation.

Row 2

(7.30.19.1) Country/area of generation

Select from:

☑ United States of America

(7.30.19.2) Renewable electricity technology type

Select from:

☑ Solar

(7.30.19.3) Facility capacity (MW)

3.34

(7.30.19.4) Total renewable electricity generated by this facility in the reporting year (MWh)

4831.08

(7.30.19.5) Renewable electricity consumed by your organization from this facility in the reporting year (MWh)

3360.27

(7.30.19.6) Energy attribute certificates issued for this generation

Select from:

☑ No

(7.30.19.8) Comment

Onsite solar generation, power company owns the EACs.
[Add row]

(7.30.20) Describe how your organization's renewable electricity sourcing strategy directly or indirectly contributes to bringing new capacity into the grid in the countries/areas in which you operate.

Our renewable electricity sourcing strategy includes a combination of on-site and off-site projects. At select company sites where site conditions have been deemed appropriate, Trane Technologies has installed on-site solar photovoltaic projects that reduce our dependence on traditional grid-electricity. Additionally, in 2017 we entered into a power purchase agreement with a renewable energy developer that enabled the construction of a large scale off-site wind energy project, which began operations in 2019, that materially reduces our Scope 2 electricity-related emissions. We continue to evaluate additional opportunities for both on-site and off-site renewable energy projects and will continue to advance our electricity sourcing strategy in a manner that will continue to enable new renewable energy capacity to be deployed onto the electricity grid. During 2022, we partnered with renewable energy developers in China to purchase significant quantities of green electricity for two key factories. In additional, Trane Technologies has contracts in place for key locations to directly receive electricity generated by 3rd parties using 100% renewable systems. Where reasonable, we are paying the higher price per KWhr to acquire the zero-carbon electricity. This supports further greening of the power grid in locations where we operate.

(7.30.21) In the reporting year, has your organization faced barriers or challenges to sourcing renewable electricity?

(7.30.21.1) Challenges to sourcing renewable electricity

Select from:

☑ Yes, not specific to a country/area

(7.30.21.2) Challenges faced by your organization which were not country/area-specific

Trane Technologies has observed higher prices to invest in renewable energy partnerships, along with projects snapped up by organizations who are buying into much larger projects and contacts. Further challenges is the potential for changes in the regulatory landscape that can restrict utilization of renewable energy within smaller regional networks.
[Fixed row]

(7.34) Does your organization measure the efficiency of any of its products or services?

(7.34.1) Measurement of product/service efficiency

Select from:
☑ Yes

(7.34.2) Comment

The majority of the carbon footprint of our products is from the use of energy, specifically, electricity. Emissions from refrigerants are approximately 10% of the total carbon footprint. We are addressing efficiency with a target of reducing our customers' emissions by 1 billion metric tons CO2e by 2030. We have tracked product-use emissions reductions from energy and refrigerants against our 2020 commitment and will continue to do so through 2030. In the future, while we continue our transition away from high GWP refrigerants by 2030, using the EcoWise brand to communicate our progress, we will also focus on helping customers reduce their emissions. A portfolio with world-class energy efficiency products will help us do that.
[Fixed row]

(7.34.1) Provide details of the metrics used to measure the efficiency of your organization's products or services.

Row 1

(7.34.1.1) Category of product or service

Select from:
☑ Heating & cooling systems

(7.34.1.2) Product or service (optional)

Heating & cooling systems rated above min standard efficiency with next generation, low GWP refrigerant: Residential air conditioning units are rated according to their seasonal energy efficiency ratio (SEER). SEER indicates the relative amount of energy needed to provide a specific cooling output. Commercial systems are rated according to ASHRAE 90.1 standards.Transport Refrigeration Systems with higher efficiency & next gen refrigerant.

(7.34.1.3) % of revenue from this product or service in the reporting year

100

(7.34.1.4) Efficiency figure in the reporting year

252000000

(7.34.1.5) Metric numerator

Select from:

☑ tCO2e

(7.34.1.6) Metric denominator

Select from:

☑ metric ton of product

(7.34.1.7) Comment

157M refers to the product emissions (emissions per thermal ton) savings for 2023
[Add row]

(7.45) 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.

Row 1

(7.45.1) Intensity figure

13.99

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

247344

(7.45.3) Metric denominator

Select from:

☑ unit total revenue

(7.45.4) Metric denominator: Unit total

17.68

(7.45.5) Scope 2 figure used

Select from:

☑ Market-based

(7.45.6) % change from previous year

59

(7.45.7) Direction of change

Select from:

☑ Decreased

(7.45.8) Reasons for change

Select all that apply

☑ Change in renewable energy consumption

☑ Change in output

☑ Change in revenue

(7.45.9) Please explain

For 2023, the company reduced Scope 1 carbon driven by refrigerants change-over to lower global warming potential materials, while experiencing an increase in fuel used for the global service fleet. The company also increased consumption of renewable electricity used by the organization. The 2023 carbon intensity was also positively impacted by the higher company revenue vs 2022.
[Add row]

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

Select all that apply

☑ Absolute target

☑ Intensity target

(7.53.1) Provide details of your absolute emissions targets and progress made against those targets.

Row 1

(7.53.1.1) Target reference number

Select from:

☑ Abs 1

(7.53.1.2) Is this a science-based target?

Select from:

☑ Yes, and this target has been approved by the Science Based Targets initiative

(7.53.1.3) Science Based Targets initiative official validation letter

Decision Letter - Trane Technologies.pdf

(7.53.1.4) Target ambition

Select from:

☑ 1.5°C aligned

(7.53.1.5) Date target was set

02/08/2021

(7.53.1.6) Target coverage

Select from:

☑ Organization-wide

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

(7.53.1.9) Scope 2 accounting method

Select from:

☑ Market-based

(7.53.1.11) End date of base year

12/31/2019

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

319240

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

123500

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

0.000

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

442740.000

(7.53.1.33) Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

(7.53.1.34) Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

50

(7.53.1.54) End date of target

12/31/2030

(7.53.1.55) Targeted reduction from base year (%)

44

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

247934.400

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

206381

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

40963

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

247344.000

(7.53.1.78) Land-related emissions covered by target

Select from:

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

(7.53.1.79) % of target achieved relative to base year

100.30

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

Trane Technologies commits to reduce absolute scope 1 and 2 GHG emissions 50% by 2030 from a 2019 base year.

(7.53.1.83) Target objective

Trane Technologies commits to reach net-zero GHG emissions across the value chain by 2050 from a 2019 base year. This near term target is aligned with 1.5C.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

We are reducing our Scope 1 and 2 emissions generated from our operations by implementing electrification and efficiency solutions across our global facilities, including finding ways to reduce refrigerant losses. In 2023, we achieved a 44% reduction in Scope 1 and 2 absolute emissions from our 2019 baseline toward our science-based target goal of 50% reduction by 2030.

(7.53.1.85) Target derived using a sectoral decarbonization approach

Select from:

☑ No

[Add row]

(7.53.2) Provide details of your emissions intensity targets and progress made against those targets.

Row 1

(7.53.2.1) Target reference number

Select from:

☑ Int 1

(7.53.2.2) Is this a science-based target?

Select from:

☑ Yes, and this target has been approved by the Science Based Targets initiative

(7.53.2.3) Science Based Targets initiative official validation letter

2022-04-15_Trane Technologies Net Zero Approval Letter_D02.pdf

(7.53.2.4) Target ambition

Select from:

☑ 1.5°C aligned

(7.53.2.5) Date target was set

04/19/2022

(7.53.2.6) Target coverage

Select from:

☑ Organization-wide

(7.53.2.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

(7.53.2.8) Scopes

Select all that apply

☑ Scope 3

(7.53.2.10) Scope 3 categories

Select all that apply

☑ Category 11: Use of sold products

(7.53.2.11) Intensity metric

Select from:

☑ Other, please specify **:**Metric tons CO2e per cooling ton

(7.53.2.12) End date of base year

12/31/2019

(7.53.2.25) Intensity figure in base year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

365000000

(7.53.2.32) Intensity figure in base year for total Scope 3 (metric tons CO2e per unit of activity)

365000000.0000000000

(7.53.2.33) Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity)

365000000.0000000000

(7.53.2.46) % of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

100

(7.53.2.53) % of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

100

(7.53.2.54) % of total base year emissions in all selected Scopes covered by this intensity figure

90

(7.53.2.55) End date of target

12/31/2029

(7.53.2.56) Targeted reduction from base year (%)

55

(7.53.2.57) Intensity figure at end date of target for all selected Scopes (metric tons CO2e per unit of activity)

164250000.0000000000

(7.53.2.59) % change anticipated in absolute Scope 3 emissions

55

(7.53.2.72) Intensity figure in reporting year for Scope 3, Category 11: Use of sold products (metric tons CO2e per unit of activity)

309520000

(7.53.2.79) Intensity figure in reporting year for total Scope 3 (metric tons CO2e per unit of activity)

309520000.0000000000

(7.53.2.80) Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity)

309520000.0000000000

(7.53.2.81) Land-related emissions covered by target

Select from:

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

(7.53.2.82) % of target achieved relative to base year

27.64

(7.53.2.83) Target status in reporting year

Select from:

☑ Underway

(7.53.2.85) Explain target coverage and identify any exclusions

This target is our near-term target for SBTi, 1.5C aligned. The target is to reduce product use emissions in emissions per cooling ton by 55% by 2030 from a 2019 baseline. This is the near-term target that aligns with our SBTi approved net-zero target to reduce product use emissions (emissions per cooling ton) by 97% by 2050.

(7.53.2.86) Target objective

This target is our near-term target for SBTi, 1.5C aligned. The target is to reduce product use emissions in emissions per cooling ton by 55% by 2030 from a 2019 baseline. This is the near-term target that aligns with our SBTi approved net-zero target to reduce product use emissions (emissions per cooling ton) by 97% by 2050.

(7.53.2.87) Plan for achieving target, and progress made to the end of the reporting year

We plan to accelerate use of high efficiency equipment with an entire system-level approach to buildings, homes, and transport; utilizing climate management to further enhance energy efficiency, expand electrification, reduce costs, and strengthen regulatory resiliency. We also plan to transition equipment to lower GWP refrigerants ahead of regulations.

(7.53.2.88) Target derived using a sectoral decarbonization approach

Select from:

☑ No

[Add row]

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

Select all that apply

☑ Net-zero targets

(7.54.3) Provide details of your net-zero target(s).

Row 1

(7.54.3.1) Target reference number

Select from:

☑ NZ1

(7.54.3.2) Date target was set

04/19/2022

(7.54.3.3) Target Coverage

Select from:

☑ Organization-wide

(7.54.3.4) Targets linked to this net zero target

Select all that apply

☑ Abs1

☑ Int1

(7.54.3.5) End date of target for achieving net zero

01/01/2050

(7.54.3.6) Is this a science-based target?

Select from:

☑ Yes, and this target has been approved by the Science Based Targets initiative

(7.54.3.7) Science Based Targets initiative official validation letter

2022-04-15_Trane Technologies Net Zero Approval Letter_D02.pdf

(7.54.3.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

☑ Scope 3

(7.54.3.9) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

(7.54.3.10) Explain target coverage and identify any exclusions

This target includes our full Scope 1 and 2 emissions, no exclusions. This target also includes Scope 3 emissions from category 11, use of sold products, which includes over 98% of our Scope 3 emissions.

(7.54.3.11) Target objective

In 2022, we demonstrated our bold ambitions by becoming the first in our industry — and one of the first companies across all sectors — to set a long term net-zero target approved by the Science Based Targets initiative (SBTi). Our science-based targets align with the Paris Agreement's net-zero targets, which limit global temperature rise to no more than 1.5C. Our near-term science-based targets for Scope 1, 2 and 3 guide our emissions reduction efforts through 2030. As we take steps to meet our near-term goals, we also work toward achieving our long-term goal of net-zero emissions by 2050.

(7.54.3.12) Do you intend to neutralize any residual emissions with permanent carbon removals at the end of the target?

Select from:

☑ Unsure

(7.54.3.13) Do you plan to mitigate emissions beyond your value chain?

Select from:

☑ No, but we plan to within the next two years

(7.54.3.17) Target status in reporting year

Select from:

☑ Underway

(7.54.3.19) Process for reviewing target

Our Net-Zero roadmap represents Trane Technologies' decarbonization transition plan to achieve net-zero emissions across our value chain by 2050. Within our roadmap, our near-term science-based targets and our climate commitments guide our reduction of Scope 1 and 2 and 3 emissions.
[Add row]

(7.55) 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.

Select from:

☑ Yes

(7.55.1) 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	*15*	*`Numeric input*
To be implemented	*72*	*72000*
Implementation commenced	*5*	*67500*
Implemented	*23*	*33800*
Not to be implemented	*0*	*`Numeric input*

[Fixed row]

(7.55.2) Provide details on the initiatives implemented in the reporting year in the table below.

Row 1

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in buildings

☑ Heating, Ventilation and Air Conditioning (HVAC)

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

208

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

Select all that apply

☑ Scope 1

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

55000

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

3100000

(7.55.2.7) Payback period

Select from:

☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 11-15 years

(7.55.2.9) Comment

Upgrade to high efficiency HVAC equipment.

Row 2

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in buildings

☑ Lighting

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

276

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

Select all that apply

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

103000

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

1725000

(7.55.2.7) Payback period

Select from:

☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 11-15 years

(7.55.2.9) Comment

Extensive lighting & controls upgrades.

Row 3

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in production processes

☑ Compressed air

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

79

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

Select all that apply

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

0

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

15000

(7.55.2.7) Payback period

Select from:

☑ 1-3 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 11-15 years

(7.55.2.9) Comment

Optimization of compressed air systems.

Row 4

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in production processes

☑ Machine/equipment replacement

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

88

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

Select all that apply

☑ Scope 1

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

20000

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

515000

(7.55.2.7) Payback period

Select from:

☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 11-15 years

(7.55.2.9) Comment

Upgrade to high efficiency process equipment.

Row 5

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in production processes

☑ Process optimization

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

2.6

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

Select all that apply

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

0

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

0

(7.55.2.7) Payback period

Select from:

☑ <1 year

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 11-15 years

(7.55.2.9) Comment

Optimize process test equipment.

Row 6

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in production processes

☑ Product or service design

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

18

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

Select all that apply

☑ Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

1000

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

5000

(7.55.2.7) Payback period

Select from:

☑ 1-3 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:
☑ 6-10 years

(7.55.2.9) Comment

Reconstruct process equipment to reduce heat loss and energy consumption.

Row 7

(7.55.2.1) Initiative category & Initiative type

Fugitive emissions reductions
☑ Refrigerant leakage reduction

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

90

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

Select all that apply
☑ Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:
☑ Voluntary

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

27000

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

11500

(7.55.2.7) Payback period

Select from:

☑ 1-3 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 6-10 years

(7.55.2.9) Comment

Implement testing and administrative controls to reduce refrigerant losses durign OEM equipment manufacturing.

Row 8

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption

☑ Liquid biofuels

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

146

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

Select all that apply

☑ Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:
☑ Voluntary

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

0

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

180000

(7.55.2.7) Payback period

Select from:
☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:
☑ 11-15 years

(7.55.2.9) Comment

Shift from fossil based diesel to hydrotreated vegetable for equipment run testing. HVO is derived from sustainable bio sources

Row 9

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption
☑ Low-carbon electricity mix

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

198

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

Select all that apply

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

0

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

4700

(7.55.2.7) Payback period

Select from:

☑ 1-3 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 6-10 years

(7.55.2.9) Comment

Acquisition of renewable generated electricity

Row 10

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption

☑ Renewable hydrogen fuel cell

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

144

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

Select all that apply

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

0

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

36000

(7.55.2.7) Payback period

Select from:

☑ 1-3 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 11-15 years

(7.55.2.9) Comment

Adoption of hydrogen fuel cell technology for warehouse equipment

Row 11

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy consumption

☑ Solar PV

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

390

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

Select all that apply

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

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

0

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

750000

(7.55.2.7) Payback period

Select from:
☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:
☑ 16-20 years

(7.55.2.9) Comment

Implementation of onsite photovoltaic system

Row 12

(7.55.2.1) Initiative category & Initiative type

Non-energy industrial process emissions reductions
☑ Process material substitution

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

32200

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

Select all that apply

☑ Scope 1

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Mandatory

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

0

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

5500000

(7.55.2.7) Payback period

Select from:

☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 16-20 years

(7.55.2.9) Comment

Convert to low global warming potential refrigerants used in OEM manufacturing
[Add row]

(7.55.3) What methods do you use to drive investment in emissions reduction activities?

Row 1

(7.55.3.1) Method

Select from:

☑ Compliance with regulatory requirements/standards

(7.55.3.2) Comment

Our corporate Environment, Health and Safety Management Systems (EMS) requirements apply to all majority-owned operations worldwide. Our internal EMS is posted to the Company's Business Operating System (BOS) platform which governs and standardizes how all functions within the Company operate. The basis of our EMS is derived from our existing corporate operational excellence program and applies the same principles to EHS by incorporating tools that have already proven successful. Within our EMS also sits our Environment, Health and Safety policy, which has been signed by our Chair and CEO.

Row 3

(7.55.3.1) Method

Select from:

☑ Internal incentives/recognition programs

(7.55.3.2) Comment

Challenge Possible Awards recognize achievements in areas that support Trane Technologies' goals including energy efficiency and greenhouse gas emission reductions.To more closely align the annual short-term incentive compensation of our leaders to the value that we, as a Company, place on environmental sustainability and employee diversity and inclusion, we utilize an ESG modifier as a component of Trane Technologies' annual incentive program (AIM).

Row 4

(7.55.3.1) Method

Select from:

☑ Partnering with governments on technology development

(7.55.3.2) Comment

We are engaged with policymakers to bring solutions to topics that are material to our business, with two areas where the company is most active including energy and refrigerant policy. Trane Technologies supports cost-effective policies that facilitate market transition to more energy-efficient, climate friendly technologies. We actively participate in international forums, such as the United Nations Framework Convention on Climate Change and the Montreal Protocol, to help create an organized approach to global refrigerant transitions without compromising on energy efficiency. We are also working proactively with government agencies and refrigerant suppliers to help identify alternatives and facilitate a practical transition that reduces greenhouse gas emissions as early as possible.
[Add row]

(7.71) Does your organization assess the life cycle emissions of any of its products or services?

(7.71.1) Assessment of life cycle emissions

Select from:
☑ Yes

(7.71.2) Comment

In 2023, we piloted new methods and increased capabilities to deliver product life cycle assessments (LCAs) and Environmental Product Declarations (EPDs). We also launched an improved Design for Sustainability and Circularity module in our product development process.
[Fixed row]

(7.71.1) Provide details of how your organization assesses the life cycle emissions of its products or services.

(7.71.1.1) Products/services assessed

Select from:
☑ All existing and new products/services

(7.71.1.2) Life cycle stage(s) most commonly covered

Select from:
☑ Use stage

(7.71.1.3) Methodologies/standards/tools applied

Select all that apply

☑ GHG Protocol Product Accounting & Reporting Standard

(7.71.1.4) Comment

The majority of the carbon footprint of our products is from the use of energy, specifically, electricity. Emissions from refrigerants are approximately 10% of the total carbon footprint. We are addressing efficiency with a target of reducing our customers' emissions by 1 billion metric tons CO2e from business as usual by 2030. We have tracked product-use emissions reductions from energy and refrigerants since our 2020 commitment and will continue to do so through 2030. In the future, while we will continue our complete transition out of high GWP refrigerants by 2030, using the EcoWise brand to communicate our progress, we will also focus on helping customers reduce their emissions. A portfolio with world-class energy efficiency products will help us do that.
[Fixed row]

(7.73) Are you providing product level data for your organization's goods or services?

Select from:

☑ No, I am not providing data

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

Select from:

☑ Yes

(7.74.1) Provide details of your products and/or services that you classify as low-carbon products.

Row 1

(7.74.1.1) Level of aggregation

Select from:

☑ Group of products or services

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:

☑ The IEA Energy Technology Perspectives Clean Energy Technology Guide

(7.74.1.3) Type of product(s) or service(s)

Heat

☑ Other, please specify **:**Ecowise Portfolio

(7.74.1.4) Description of product(s) or service(s)

HVAC and refrigeration systems, products or initiatives designed to lower environmental impact with next generation, low global warming potential refrigerants and high efficiency operation are part of an exclusive product portfolio known as EcoWise. These products can be recognized by their use of the EcoWise name and logo in their communications and marketing materials.

(7.74.1.5) Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Select from:

☑ No

(7.74.1.13) Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

41
[Add row]

(7.79) Has your organization canceled any project-based carbon credits within the reporting year?

Select from:

☑ No

C9. Environmental performance - Water security

(9.1) Are there any exclusions from your disclosure of water-related data?

Select from:

☑ No

(9.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

Water withdrawals – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Monthly

(9.2.3) Method of measurement

Water withdrawals are measured by incoming water meters.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge an important issue at our sites. We track monthly water usage at the facility level utilizing water meters for incoming water to our facilities. We house the water usage data in our environmental data reporting platform (Benchmark ESGTM). We have established annual targets to reduce water use at our sites, and a 2030 goal to become "Net Positive" for water use at our water stressed locales. Water withdrawal volumes are obtained from flow meters for the site-specific source/supplier with reports provided either daily or monthly.

Water withdrawals – volumes by source

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Monthly

(9.2.3) Method of measurement

Water withdrawals are measured by incoming water meters.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge an important issue at our sites. We track monthly water usage at the facility level utilizing water meters for incoming water to our facilities. We house the water usage data in our environmental data reporting platform (Benchmark GensuiteTM). We have annual targets to reduce water use at our sites, and a 2030 goal to become "Net Positive" for water use at our water stressed locales. Water withdrawal volumes are obtained from flow meters for the site-specific source/supplier with reports provided either daily or monthly.

Water withdrawals quality

(9.2.1) % of sites/facilities/operations

Select from:

☑ Not relevant

(9.2.4) Please explain

Trane Technologies facilities comply with all applicable federal, state, provisional, and local water quality regulations and permits/licenses regarding water withdrawals and wastewater discharges. Water Withdrawals Quality is not relevant for Trane Technologies, and we do not expect this water aspect to be relevant in the future, given routine water withdrawals are received from local water suppliers who manage and treat community water provided to all customers to potable water quality standards per local regulations. As such Trane Technologies does not routinely monitor the quality of incoming water. Trane Technologies maintains awareness of potential impacts to the quality of locally supplied water and will consider monitoring of incoming water quality if water quality is at risk due to global climate change or other factors.

Water discharges – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Discharge measurement monitoring varies by location based on the frequency of water discharged. Some locations monitor continuously while other locations monitoring on a batch discharge basis.

(9.2.3) Method of measurement

Water discharges are measured utilizing flow meters as required per local regulations.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform (Benchmark ESGTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water

Water discharges – volumes by destination

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Discharge measurement monitoring varies by location based on the frequency of water discharged. Some locations monitor continuously while other locations monitoring on a batch discharge basis.

(9.2.3) Method of measurement

Water discharges are measured utilizing flow meters as required per local regulations.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform (Benchmark GensuiteTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water.

Water discharges – volumes by treatment method

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Discharge measurement monitoring varies by location based on the frequency of water discharged. Some locations monitor continuously while other locations monitoring on a batch discharge basis.

(9.2.3) Method of measurement

Water discharges are measured utilizing flow meters as required per local regulations.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform (Benchmark GensuiteTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water.

Water discharge quality – by standard effluent parameters

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Measurement frequencies vary by parameter and pre- treatment system type. Frequencies are defined through the discharge issued by the local water authority.

(9.2.3) Method of measurement

Effluent parameters are measured using benchtop methods as well as sampling and analytical reference methods promulgated by the federal oversight agencies for the country which our factories operate.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform (Benchmark GensuiteTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water.

Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Measurement frequencies vary by parameter and pre- treatment system type. Frequencies are defined through the discharge issued by the local water authority.

(9.2.3) Method of measurement

Where required by local regulations, specific substance monitoring, parameters are measured using benchtop methods as well as sampling and analytical reference methods promulgated by the federal oversight agencies for the country which our factories operate.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform (Benchmark GensuiteTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water.

Water discharge quality – temperature

(9.2.1) % of sites/facilities/operations

Select from:

☑ 76-99

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**The frequency of temperature monitoring varies by the type of wastewater pre-treatment system and the applicable provisions under local regulations.

(9.2.3) Method of measurement

Temperature probes/measurement tools.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform (Benchmark GensuiteTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water.

Water consumption – total volume

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Monthly

(9.2.3) Method of measurement

Water discharges are measured utilizing flow meters as required per local regulations.

(9.2.4) Please explain

Trane Technologies considers water quality for both intake and discharge as an important issue at all of our sites. Our manufacturing facilities track their water discharges. We consolidate/report internal water usage and discharges at the facility level on a monthly basis using our environmental data management platform

(Benchmark GensuiteTM). The system's Water Watch module also tracks compliance with environmental permits related to our water discharge limits. We take aggressive action when approaching a discharge limit to adjust systems to avoid an exceedance. We set an internal limit to be below 50% of our permit level at our facilities globally. Our process discharge waters are first internally treated and then discharged onto the community water treatment systems with the final water released back to the environment at the same or higher quality as the withdrawn water.

Water recycled/reused

(9.2.1) % of sites/facilities/operations

Select from:

☑ Not relevant

(9.2.4) Please explain

Because Trane Technologies has limited processes in place for closed loop/water re-use systems, Water Recycled/Reused is not currently relevant, but could become relevant in the future should out processes which use water re-use systems were to increase. Trane Technologies does monitoring the quality of the circulated water for the few operating systems including reverse osmosis and rain water harvesting We are studying options to increase usage of closed loop systems in our operations as part of our 2030 Net Positive water use goal.

The provision of fully-functioning, safely managed WASH services to all workers

(9.2.1) % of sites/facilities/operations

Select from:

☑ 76-99

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Management frequency varies by business operation and their specific WASH program.

(9.2.3) Method of measurement

Measurement method varies by business operation and their specific WASH program.

(9.2.4) Please explain

Creating and sustaining a safety-focused, zero-incident culture is a top priority for everyone at Trane Technologies. This commitment starts with our CEO and permeates the entire organization. In responding to this year's employee engagement survey, 93% of employees stated they believe Trane Technologies is committed to employee safety. Fully functioning WASH services are part of our standard operating procedures which include an annual effectiveness assessment to confirm WASH services meet company requirements. WASH processes are assessed for each company location by the local staff. The WASH reviews are included as part of the annual water management system effectiveness assessment required per internal company procedures.
[Fixed row]

(9.2.2) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

Total withdrawals

(9.2.2.1) Volume (megaliters/year)

1968.78

(9.2.2.2) Comparison with previous reporting year

Select from:
☑ Lower

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:
☑ Increase/decrease in efficiency

(9.2.2.4) Five-year forecast

Select from:
☑ Lower

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in efficiency

(9.2.2.6) Please explain

Approximately 75% of water withdrawn is used for non-contact manufacturing purposes. Such water is withdrawn and return to the water authorities free of contamination from Trane Technologies business activities. The 2023 water withdrawals is 20% lower vs 2022. When comparing 2023 water withdrawals against 2019, Trane Technologies water withdrawals is down by 33%. Trane Technologies commits to a 2030 goal to become "Net Positive" for water use at our water stressed sites.

Total discharges

(9.2.2.1) Volume (megaliters/year)

1968.78

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ Lower

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in efficiency

(9.2.2.4) Five-year forecast

Select from:

☑ Lower

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in efficiency

(9.2.2.6) Please explain

Trane Technologies discharged 8% of total water withdrawn (188 megaliters) as pre-treated process wastewater with this effluent directed to third-party/ community wastewater treatment facilities. The balance of the discharged water (2,260 megaliters) is non-contact water with a small portion discharged as sanitary wastewater directed to community wastewater treatment facilities. Overall discharges are lower in 2023 vs 2022 by approximately 39%.

Total consumption

(9.2.2.1) Volume (megaliters/year)

0

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in efficiency

(9.2.2.4) Five-year forecast

Select from:

☑ About the same

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in efficiency

(9.2.2.6) Please explain

Trane Technologies' sites in general return the water received from local suppliers. Our consumption is based on a company-wide calculation of withdrawals minus discharges. Our operations are not significant water consumers and do not generally experience any material evaporative or other water losses. Our total consumption will decrease in the future between 5 and 10 percent based on the reduction in water withdrawn in stressed water regions combined with the implementation of closed-loop process water systems. Trane Technologies does not incorporate water into wastes, crops, or products. We do not store water for controlled or future uses.
[Fixed row]

(9.2.4) Indicate whether water is withdrawn from areas with water stress, provide the volume, how it compares with the previous reporting year, and how it is forecasted to change.

(9.2.4.1) Withdrawals are from areas with water stress

Select from:
☑ Yes

(9.2.4.2) Volume withdrawn from areas with water stress (megaliters)

228.61

(9.2.4.3) Comparison with previous reporting year

Select from:
☑ Lower

(9.2.4.4) Primary reason for comparison with previous reporting year

Select from:
☑ Increase/decrease in efficiency

(9.2.4.5) Five-year forecast

Select from:
☑ Higher

(9.2.4.6) Primary reason for forecast

Select from:

☑ Other, please specify **:**Trane Technologies uses the WRI Aqueduct tool. WRI update the tool in late 2023. Additional Trane Technologies sites will be reclassified as located in water stressed locales for 2024. This will increase the water usage in stressed locales.

(9.2.4.7) % of total withdrawals that are withdrawn from areas with water stress

11.61

(9.2.4.8) Identification tool

Select all that apply

☑ WRI Aqueduct

(9.2.4.9) Please explain

Trane Technologies uses the WRI Aqueduct tool. WRI update the tool in late 2023. Additional Trane Technologies sites will be reclassified as located in water stressed locales for 2024. This will increase the water usage in stressed locales. Trane Technologies is commited to operate at net water positive for water usage for stressed locations.
[Fixed row]

(9.2.7) Provide total water withdrawal data by source.

Fresh surface water, including rainwater, water from wetlands, rivers, and lakes

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Our Monterrey, Mexico manufacturing site began capturing rainwater for onsite use. Monterrey's total water usage accounts for less than 1 percent of total company water withdrawals which is considered negligible and therefore not relevant. No other locations are directly consuming freshwater or harvesting rainwater.

Brackish surface water/Seawater

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Trane Technologies does not withdraw seawater or brackish surface water.

Groundwater – renewable

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

A small number of Trane Technologies locations have onsite wells to serve as a backup water supply. Water is not routinely drawn from these wells. On a worse case basis, water from these wells would account to less than 1% (entire source) vs our total water withdrawals, which is negligible and therefore not relevant.

Groundwater – non-renewable

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Trane Technologies locations do not withdrawal groundwater from non-renewable sources. This question is not relevant to our water consumption.

Produced/Entrained water

(9.2.7.1) Relevance

Select from:

☑ Relevant but volume unknown

(9.2.7.5) Please explain

Our business operations do not produce water, nor do our products or processes entrain water. This water source is not applicable to Trane Technologies.

Third party sources

(9.2.7.1) Relevance

Select from:

☑ Relevant

(9.2.7.2) Volume (megaliters/year)

1968.78

(9.2.7.3) Comparison with previous reporting year

Select from:

☑ Lower

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.7.5) Please explain

Trane Technologies is predominately supplied water from municipal suppliers. The withdrawal volumes are defined using onsite flow meters or from water suppliers' invoices. Total water withdrawals is lower for 2023 vs 2022, by 20%. The water withdrawals are 33% lower for 2023 vs 2019. Trane Technologies commits to a 2030 goal to become "Net Positive" for water use at our water stressed sites.

[Fixed row]

(9.2.8) Provide total water discharge data by destination.

Fresh surface water

(9.2.8.1) Relevance

Select from:
☑ Not relevant

(9.2.8.5) Please explain

Water withdrawn by Trane Technologies is not directly discharged to surface water bodies.

Brackish surface water/seawater

(9.2.8.1) Relevance

Select from:
☑ Not relevant

(9.2.8.5) Please explain

Water withdrawn by Trane Technologies is not directly discharged to surface water bodies.

Groundwater

(9.2.8.1) Relevance

Select from:
☑ Not relevant

(9.2.8.5) Please explain

Water withdrawn by Trane Technologies is not discharged to groundwater.

Third-party destinations

(9.2.8.1) Relevance

Select from:
☑ Relevant

(9.2.8.2) Volume (megaliters/year)

228.59

(9.2.8.3) Comparison with previous reporting year

Select from:
☑ Lower

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:
☑ Increase/decrease in efficiency

(9.2.8.5) Please explain

This is relevant because water withdrawn by Trane Technologies is returned to local municipal water suppliers. When comparing to the 2022, our water discharged decreased in 2023 by 39%. Our 2023 discharge compared to 2019 is down by 40%.
[Fixed row]

(9.2.9) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

Tertiary treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

161.32

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Lower

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in efficiency

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 21-30

(9.2.9.6) Please explain

A number of Trane Technologies' manufacturing locations phosphatize metal substrates prior to surface coating. Process wastewater is collected and treated using muti-stage operations to remove solids, metals, and other regulated parameters. The treatment standards are defined by a combination of federal and local regulatory standards. The pre-treated water is discharged to the community wastewater treatment system.

Secondary treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

9.83

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Lower

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in efficiency

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 11-20

(9.2.9.6) Please explain

Trane Technologies also utilizes pre-treatment systems to remove organics or other general solids to meet regulatory standards. These permitted units discharge the treated water onto the community wastewater treatment systems. Our secondary treatment systems are required per local regulations and our designed to ensure water is continuously pre-treated to the applicable regulatory standards.

Primary treatment only

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Not relevant

(9.2.9.6) Please explain

Trane Technologies also treats very small quantities of plant wastewater using simple oil/water type systems prior to the water release to the community wastewater treatment system. This pretreatment is completed to meet general discharge standards under local/city ordinances. This level of treatment is prescribed per local water ordinance. Trane Technologies operated during 2023 with full compliance of these local requirements (regulatory standards).

Discharge to the natural environment without treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Not relevant

(9.2.9.6) Please explain

Trane Technologies does not discharge water to the natural environment.

Discharge to a third party without treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

1732.2

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Lower

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in efficiency

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 51-60

(9.2.9.6) Please explain

Only a small portion of water used by Trane Technologies requires treatment with regard to regulatory standards. During 2022, 92% of water withdrawn is used for non-industrial purposes and is discharged to a third party without treatment.

Other

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Not relevant

(9.2.9.6) Please explain

We have no other form of treatment.
[Fixed row]

(9.2.10) Provide details of your organization’s emissions of nitrates, phosphates, pesticides, and other priority substances to water in the reporting year.

(9.2.10.1) Emissions to water in the reporting year (metric tons)

1.88

(9.2.10.2) Categories of substances included

Select all that apply

☑ Nitrates

☑ Phosphates

☑ Priority substances listed under the EU Water Framework Directive

(9.2.10.3) List the specific substances included

Trane Technologies locations with tertiary pre- treatment systems are limited or potentially on discharges of nitrates/nitrogen species, phosphates/phosphorous compounds, Cadmium, Lead, and polyaromatic hydrocarbons.

(9.2.10.4) Please explain

The total mass of materials discharged is calculated using the tertiary wastewater discharge volumes and the associated discharge concentration of the substances described. The general calculation for mass discharged is Mass per Year Annual Discharge Volume (liters/year) X Species Discharge Concentration (mg/L). The individual masses for each species are summed to estimate the total mass discharged. Milligrams are converted to metric tons by dividing by 1,000,000,000.
[Fixed row]

(9.3) In your direct operations and upstream value chain, what is the number of facilities where you have identified substantive water-related dependencies, impacts, risks, and opportunities?

Direct operations

(9.3.1) Identification of facilities in the value chain stage

Select from:

☑ No, we have assessed this value chain stage but did not identify any facilities with water-related dependencies, impacts, risks, and opportunities

(9.3.4) Please explain

Trane Technologies processes and products are not water intensive. For example, our products are heavy users of energy sources and refrigerants therefore we have dedicated risk mitigation focused on that, but majority of our products do not require water to operate. Water is necessary for staff consumption as well as used for parts washing and product testing at some of our manufacturing operations. All Trane Technologies manufacturing sites are required to implement an Environmental Health and Safety Management System (EMS) and identify their aspects and impacts of their operations. The impact of our operations on water quantity and quality is one potential impact that is evaluated during this process. Water quantity and quality concerns are managed on an individual facility basis through the use of the site's EMS.

Upstream value chain

(9.3.1) Identification of facilities in the value chain stage

Select from:

☑ No, we have assessed this value chain stage but did not identify any facilities with water-related dependencies, impacts, risks, and opportunities

(9.3.4) Please explain

While risks are present, recent interactions with suppliers suggest the water risks do not present a significant likelihood of an adverse impact on their operations. We requested suppliers to disclose if they were located in water-stressed regions and found that a vast majority of our supply base is not. In most cases, Trane Technologies' preferred suppliers have developed and implemented sustainability programs that include aspects for water supplies and quality necessary for their business needs.
[Fixed row]

(9.4) Could any of your facilities reported in 9.3.1 have an impact on a requesting CDP supply chain member?

Select from:

☑ We do not have this data but we intend to collect it within two years

(9.5) Provide a figure for your organization's total water withdrawal efficiency.

	Revenue (currency)	Total water withdrawal efficiency	Anticipated forward trend
	17.68	*0.01*	*Company total water intensity is expected to decrease moving forward due to water use reduction projects and revenue growth.*

[Fixed row]

(9.13) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances
	Select from: ☑ Unknown

[Fixed row]

(9.14) Do you classify any of your current products and/or services as low water impact?

	Products and/or services classified as low water impact	Definition used to classify low water impact	Please explain
	Select from: ☑ Yes	*Water usage as compared to a baseline unit or alternative equipment*	*We are currently undergoing EPDs for specific product lines which will provide more insight on the quantification of water impact.*

[Fixed row]

(9.15) Do you have any water-related targets?

Select from:

☑ Yes

(9.15.1) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

Water pollution

(9.15.1.1) Target set in this category

Select from:

☑ No, but we plan to within the next two years

(9.15.1.2) Please explain

Trane Technologies is evaluating the update elements in our EHS Policy to include in a new standalone Water Management Policy. The update is expected to include new elements related to water pollution prevention.

Water withdrawals

(9.15.1.1) Target set in this category

Select from:

☑ Yes

Water, Sanitation, and Hygiene (WASH) services

(9.15.1.1) Target set in this category

Select from:

☑ No, but we plan to within the next two years

(9.15.1.2) Please explain

Trane Technologies is evaluating the update elements in our EHS Policy to include in a new standalone Water Management Policy. The update may include WASH program aspects.

Other

(9.15.1.1) Target set in this category

Select from:

☑ Yes

[Fixed row]

(9.15.2) Provide details of your water-related targets and the progress made.

Row 1

(9.15.2.1) Target reference number

Select from:

☑ Target 1

(9.15.2.2) Target coverage

Select from:

☑ Organization-wide (direct operations only)

(9.15.2.3) Category of target & Quantitative metric

Other

☑ Other, please specify :Operate at net water positive for Trane Technologies facilities located in water stressed regions.

(9.15.2.4) Date target was set

01/01/2020

(9.15.2.5) End date of base year

12/31/2019

(9.15.2.6) Base year figure

310836

(9.15.2.7) End date of target year

12/31/2029

(9.15.2.8) Target year figure

0

(9.15.2.9) Reporting year figure

228613

(9.15.2.10) Target status in reporting year

Select from:

☑ Underway

(9.15.2.11) % of target achieved relative to base year

26

(9.15.2.12) Global environmental treaties/initiatives/ frameworks aligned with or supported by this target

Select all that apply

☑ Sustainable Development Goal 6

(9.15.2.13) Explain target coverage and identify any exclusions

We commit to achieving net-positive water use in water-stressed areas by 2030. According to the World Resources Institute, a Trane Technologies facility is considered water-stressed if it has a risk score of three or more for Physical Risks Quantity, Physical Risks Quality, Regulatory and Reputational Risks or Overall Risk. Out of our 50 sites reporting water usage, 17 operate in water-stressed areas, and these numbers continue to increase as water becomes more scarce. These sites account for 12% of our total water use in 2023.
[Add row]

C11. Environmental performance - Biodiversity

(11.2) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

	Actions taken in the reporting period to progress your biodiversity-related commitments
	Select from: ☑ No, we are not taking any actions to progress our biodiversity-related commitments, but we plan to within the next two years

[Fixed row]

(11.3) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?
	Select from: ☑ No, we do not use indicators, but plan to within the next two years

[Fixed row]

(11.4) Does your organization have activities located in or near to areas important for biodiversity in the reporting year?

	Indicate whether any of your organization's activities are located in or near to this type of area important for biodiversity	Comment
Legally protected areas	*Select from:* ☑ Not assessed	*We plan to assess our sites for biodiversity impacts within the next two years.*
UNESCO World Heritage sites	*Select from:* ☑ Not assessed	*We plan to assess our sites for biodiversity impacts within the next two years.*
UNESCO Man and the Biosphere Reserves	*Select from:* ☑ Not assessed	*We plan to assess our sites for biodiversity impacts within the next two years.*
Ramsar sites	*Select from:* ☑ Not assessed	*We plan to assess our sites for biodiversity impacts within the next two years.*
Key Biodiversity Areas	*Select from:* ☑ Not assessed	*We plan to assess our sites for biodiversity impacts within the next two years.*
Other areas important for biodiversity	*Select from:* ☑ Not assessed	*We plan to assess our sites for biodiversity impacts within the next two years.*

[Fixed row]

C13. Further information & sign off

(13.1) Indicate if any environmental information included in your CDP response (not already reported in 7.9.1/2/3, 8.9.1/2/3/4, and 9.3.2) is verified and/or assured by a third party?

	Other environmental information included in your CDP response is verified and/or assured by a third party
	Select from: ☑ Yes

[Fixed row]

(13.1.1) Which data points within your CDP response are verified and/or assured by a third party, and which standards were used?

Row 1

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

☑ Climate change

☑ Water

(13.1.1.2) Disclosure module and data verified and/or assured

Environmental performance – Climate change

☑ Other data point in module 7, please specify :Scope 1 emissions, Scope 2 emissions (market-based and location based) Scope 3 emissions (Business travel and Use of sold products)

(13.1.1.3) Verification/assurance standard

General standards

☑ ISAE 3000

(13.1.1.4) Further details of the third-party verification/assurance process

The Reporting criteria is as follows: •Trane Technologies' Basis of Reporting • The GHG Protocol Corporate Accounting and Reporting Standard (WBCSD/WRI Revised Edition 2015) for Scope 1 and Scope 2 GHG emissions • GHG Protocol Scope 2 Guidance (An amendment to the GHG Protocol Corporate Standard (WRI 2015) for Scope 2 GHG emissions • The Corporate Value Chain (Scope 3) Accounting and Reporting Standard (WBCSD/WRI 2011) for Scope 3 GHG emissions

(13.1.1.5) Attach verification/assurance evidence/report (optional)

2023-Assurance-Statement.pdf
[Add row]

(13.3) Provide the following information for the person that has signed off (approved) your CDP response.

(13.3.1) Job title

Executive Vice President and Chief Financial Officer

(13.3.2) Corresponding job category

Select from:

☑ Chief Financial Officer (CFO)
[Fixed row]

(13.4) Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.

Select from:

☑ Yes, CDP may share our Disclosure Submission Lead contact details with the Pacific Institute