Tenneco - Climate Change 2022



C0. Introduction

C0.1

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

Our company, Tenneco Inc., designs, manufactures, markets, and distributes products and services for light vehicle, commercial truck, off-highway, industrial, motorsport, and aftermarket customers. We manufacture innovative performance solutions, clean air and powertrain products and systems, and serve both original equipment ("OE") manufacturers and the repair and replacement markets worldwide. We were incorporated in Delaware in 1996.

Tenneco consists of four operating segments, Motorparts, Performance Solutions, Clean Air, and Powertrain:

• The Motorparts segment designs, manufactures, sources, markets, and distributes a broad portfolio of leading brand-name products in the global vehicle aftermarket while also servicing the original equipment service ("OES") market. Motorparts products are organized into categories, including shocks and struts, steering and suspension, braking, sealing, emissions control, engine, and maintenance. Motorparts products are marketed and sold under brand names including Monroe®, Champion®, Öhlins®, MOOG®, Walker®, Fel-Pro®, Wagner®, Ferodo®, Rancho®, Thrush®, National®, Sealed Power®, and others;

• The Performance Solutions segment designs, manufactures, markets, and distributes a variety of products and systems designed to optimize the ride experience to a global OE customer base, including noise, vibration, and harshness ("NVH") performance materials, advanced suspension technologies ("AST"), ride control, braking, and systems protection. Performance Solutions is agnostic to powertrain technologies;

• The Clean Air segment designs, manufactures, and distributes a variety of products and systems designed to reduce pollution and optimize engine performance, acoustic tuning, and weight on a vehicle for light vehicle, commercial truck, and off-highway OE customers; and

• The Powertrain segment designs, manufactures, and distributes a variety of OE powertrain products for light vehicle, commercial truck, off-highway, and industrial applications to OE customers for use in new vehicle production and OES parts to support their service and distribution channels.

C0.2

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

| | Start date | End date | Indicate if you are providing emissions data for past reporting | Select the number of past reporting years you will be providing emissions data |
|-------------------|-------------------|---------------------|---|--|
| | | | years | for |
| Reporting year | January 1 2021 | December 31 2021 | Yes | 2 years |

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

Argentina Australia Belgium Brazil Canada China Czechia France Germany Hungary India Italy Japan Mexico Morocco Philippines Poland Portugal Republic of Korea Romania Russian Federation South Africa Spain Sweden Thailand United Kingdom of Great Britain and Northern Ireland United States of America Viet Nam

C0.4

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

C0.5

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

C0.8

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

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

C1. Governance

C1.1

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

C1.1a

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

| Position of individual(s) | Please explain |
|------------------------------|--|
| Board-level committee | The Board oversees our corporate responsibility and sustainability in the annual ESG review. Management annually provides a comprehensive strategic review to the Board, including a discussion of the major risks faced by our company and our strategies to manage these risks, including those associated with economic, environmental and social topics. While ultimate oversight for ESG topics falls under the purview of the entire Board, each Board committee has various responsibilities connected to sustainability matters. For example, the Nominating and Governance Committee reviews, policies and strategies related to ESG, and reviews our quarterly progress, including as it relates to our annual Sustainability matters. For example, the Nominating and Governance Committee reviews, policies and strategies related to ESG, and reviews our quarterly progress, including as it relates to our annual Sustainability includes all climate-related issues. Tenneco's cross-functional ESG Council is chaired by the Global Director of Corporate ESG, advises management teams on progress and determines how to drive long-term stakeholder value. It is comprised of functional leaders from Environmental Health and Safety, Legal, Human Resources and Talent Management, Finance, Engineering, Supply Chain, and Logistics. Our Senior Vice President and Chief ESG Officer reports progress to the CEO, the Board, and its committee strequently. This role is a member of the executive management team, holds the ultimate responsibility of overseeing our sustainability goals and KPIs, drives a cross-functional ESG program and collaborates with other executive leaders to implement our sustainability. This enables a holistic approach to ESG, compliance, and risk management at Tenneco. In 2021, the Board and its committee supported management to make several major climate-related decisions: 1) Appointed a dedicated ESG team, including a Senior Vice President and Chief ESG Officer 2) Established the Energy and Supply Chain Councils to help operationalize our go |

C1.1b

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

| Frequency with which climate- related issues are a scheduled agenda item | Governance mechanisms into which climate- related issues are integrated | Scope of board- level oversight | Please explain |
|--|---|--|---|
| Scheduled – all meetings | Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding risk management policies Overseeing major capital expenditures, acquisitions and divestitures | <not Applicabl e></not | Our Board recognizes that, although risk management is primarily the responsibility of the company's management team, the Board plays a critical role in risk oversight, including the identification and management of risk. The Board's involvement in risk oversight involves the full Board and all three committees. In general, management provides an annual comprehensive strategic review to the Board, which includes a discussion of the major risks faced by our company and our strategies to manage these risks, including those associated with economic, environmental and social topics. In general, our SVP ESG provides a quarterly update on ESG matters and reports directly to the Nominating and Governance Committee who then reports to the full Board. Additionally, our SVP ESG provides updates to the Board directly, as needed. |

C1.1d

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

| | Board member(s) have competence on climate-related issues | Criteria used to assess competence of board member(s) on climate-related issues | Primary reason for no board-level competence on climate-related issues | Explain why your organization does not have at least one board member with competence or climate-related issues and any plans to address board-level competence in the future |
|----------|--|---|--|--|
| Row 1 | Yes | One of Tenneco's Board members has extensive experience in the lithium-ion battery manufacturing sector. Her leadership experience at the forefront of battery technology brings valuable insight into the future direction of the automotive industry to Tenneco, and into risks and opportunities related to the energy transition. Two other Board members come from companies with mature ESG programs, General Motors and CooperStandard. | <not applicable=""></not> | <not applicable=""></not> |

C1.2

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

| Name of the position(s) and/or committee(s) | Reporting line | Responsibility | Coverage of responsibility | Frequency of reporting to the board on climate-related issues |
|--|--|---|-------------------------------|--|
| Other C-Suite Officer, please specify (Senior Vice President and Chief Environmental Social and Governance (ESG) Officer) | , <not Applicable ></not | Both assessing and managing climate-related risks and opportunities | <not applicable=""></not> | Quarterly |
| Other C-Suite Officer, please specify (Executive Vice President, Chief Human Resources) | <not Applicable ></not | Both assessing and managing climate-related risks and opportunities | <not applicable=""></not> | As important matters arise |
| Other, please specify (Executive Leadership Team members.) | <not Applicable ></not | Both assessing and managing climate-related risks and opportunities | <not applicable=""></not> | As important matters arise |

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

Our Executive Leadership Team holds ultimate responsibility for climate-related issues within their oversight of ESG (environmental, social and governance) as a whole. The Executive Leadership Team is formed of C-Suite individuals with responsibility for oversight of our different business units (Motorparts, Clean Air, Powertrain and Performance Solutions), and operating/ support systems (HR, EHS & S, Communications, Supply Chain, Information and ESG). The Executive Leadership Team is responsible for the review, evaluation and update of our sustainability goals and key performance indicators within our business units.

Within the Executive Leadership Team, the Senior Vice President and Chief ESG Officer takes additional individual responsibility for driving our climate related response. This individual drives our ESG strategy enterprise goals, and reports directly to the CEO. The ESG council is led by the ESG Director and formed of functional leaders from Environmental Health and Safety, Legal, Human Resources, Talent Management, Finance, Engineering, Supply Chain and Logistics. The ESG council advises the Executive Leadership Team on progress and determines how to drive long-term shareholder value. The SVP and Chief ESG Officer's role enables a holistic approach to ESG, compliance and risk management and promotes alignment across Tenneco. Assessment, monitoring and alignment across Tenneco of climate-related risks and opportunities is a specific focus for this individual. The Executive Vice President, Chief Human Resource Officer (CHRO) oversees Tenneco's Environmental, Health, and Safety (EHS) activities and reports directly to the Chief Executive Officer. The role of VP of Environmental, Health & Safety, and Corporate Security was established as a direct report to the CHRO. This role leads the EHS division with direct oversight and responsibility of our climate-related operational goals, including our greenhouse gas reduction, energy efficiency and renewable energy goals, responsibility for developing strategies and implementing initiatives to ensure successful achievement of these goals. The EHS team is staffed with a Global Sustainability Leader and a Global Sustainability Analyst for leading and coordinating our climate related data collection. Climate-related data and performance reporting is collected at site and regional level (depending on the data type). This is in turn collated, reported and signed off by EHS leads of each of our four business units, who report performance and progress on climate-related issues via our Enterprise level EHS team through to the EVP, CHRO.

C1.3

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

| | Provide incentives for the management of climate-related issues | Comment |
|----------|--|---|
| Row 1 | Yes | Employees across the business have environmental and climate related targets integrated into their personal goals. Successful achievement of these targets and goals contribute to career development and progression, which could result in enhanced financial reward. |

C1.3a

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

| Entitled to incentive | Type of incentive | Activity incentivized | Comment |
|-----------------------------|----------------------|--|--|
| All employees | Monetary reward | Behavior change related indicator | One of Tenneco's core corporate values is "Make Tomorrow Better" – and one way we do that is through our Global Corporate Social Responsibility and Sustainability programme. During 2020, we have created a strategy and roadmap towards "Making Tomorrow Better" which is divided into three key pillars: People, Planet and Products. By way of monetary incentive, we recognize the contributions initiated and made by our employees around the world through the TEN10 program. This program celebrates those who exemplify leadership through our shared values out in their communities (this may be through participation in local events, fundraisers, or philanthropic contributions). As such, TEN10 awards may be made for community-based activities that are aligned with climate-related and environmental issues. Projects that result in decreased energy or water use, GHG emissions or less waste will also qualify for submission. Each year, we recognize ten individual finalities and one team as exceptional examples of our values in action. Winners received a \$1,000 check and a donation of \$10,000 to a cause of their choice, for a total of \$110,000 in donations. Their stories exemplify Tenneco culture, which is united by a common vision, shared values, and a commitment to always operate with the highest ethics and integrity everywhere we do business. |
| All employees | Monetary reward | Behavior change related indicator | Employees across the business have environmental and climate related targets integrated into their personal goals. Successful achievement of these targets and goals contribute to career development and progression, which could result in enhanced financial reward. |

C2. Risks and opportunities

C2.1

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

C2.1a

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

| | From | То | Comment |
|-----------------|---------|---------|--|
| | (years) | (years) | |
| Short- term | 0 | 3 | Tenneco's annual operating plan (AOP) includes detailed initiatives on revenue, margin, product development, and CapEx spending which are aligned with short-term regulatory risks and technology needs of the customer. |
| Medium- term | 3 | 10 | The business units' strategic plans identify and plan for opportunities in the 3-to-10-year timeframe using medium terms growth forecast projections for future regulations and technologies. |
| Long-term | 10 | 50 | Corporate strategic plan and portfolio decisions look at 10 + year growth forecast projections for clean air regulations and technologies. |

C2.1b

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

Those material risks and opportunities that pose the greatest financial and strategic risk to our business are sub-categorised (business, operational and financial; industry; intellectual property and legal risks and opportunities) and our responses to these are summarized in our annual public 10K reporting, per SEC guidelines. For our risks we rate, review and manage against several dimensions: risk impact, risk likelihood, risk velocity and our management preparedness for that risk should it happen.

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

Value chain stage(s) covered Direct operations Upstream Downstream

Risk management process Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment Annually

Time horizon(s) covered

Medium-term Long-term

Description of process

Our company-wide Enterprise Risk Management (ERM) process is updated annually and fully refreshed every two years, and includes climate-related risks and opportunities as part of our review and management of forthcoming ESG issues. Our Audit committee reviews and discusses the company's major financial risk exposures, and the steps management has taken to monitor and control those exposures; reporting directly to the Board of Directors on the results of those discussions. Typically, the Audit Committee and Board of Directors review and ensure strategic response to our medium-term and long-term climate related risks and opportunities. Those material risks and opportunities that pose the greatest financial and strategic risk to our business are sub-categorised into different categories: business, operational and financial; industry: intellectual property and legal risks and opportunities. We assess risks against several dimensions; risk impact, risk likelihood, risk velocity and our management preparedness for that risk should it happen. Risks and opportunities related to our direct operations, and upstream and downstream considerations are taken into account. Examples of these are as follows: Direct operations- continuity of energy supply; natural disasters and severe weather causing supply chain and/or disruption to direct operations; change of after-market product mix in the face of severe winter weather; staff retention, Upstream- increasing/ volatile fuel and utility prices; stricter market level Government regulation around vehicles emissions and removal of fossil fuel vehicles from sale; climate related tax considerations; cost of current / future legal action around environmental waste / remediation and pollution control. Downstream- changing consumer demand for ICE (internal combustion engine vehicles) versus electrification; dependency on large customers that are changing their own product mix and operations to respond to climate-related risks and opportunities i.e. public declarations from OEMs seeking carbon neutrality by 2040 and phase out of fossil fuel vehicles by 2035; the opportunity posed through innovation in relation to future electrification, autonomy and shared mobility in vehicles. Rolling up into our integrated risk management approach, at a business unit and asset level, we manage a greater volume of more localised climate related risks and opportunities. These risks and opportunities are typically those that have a short- and medium-term horizon; and as such are reviewed more than once per year as the impacts are near term and require faster response. Our business unit EHS Leads and Business Unit Engineering leaders track and manage the outcomes of climate related risks and opportunities presented in our operations, upstream and downstream of our business for example: local energy supply issues. local environmental regulation: local product regulation; product development opportunities and direct / indirect change to consumer demand for our different lines, mitigation of climate change impacts in our supply chain. At an asset level, we manage climate-related risks and opportunities through our ISO accredited management systems. As of 2021, 84% of our global manufacturing sites are accredited to ISO 14001 (environmental) and 12% have ISO 50001 (energy). This enables local risks and opportunities to be monitored on a continuous improvement basis, ensuring internal and external audit of system content and controls, and providing a clear communication channel for escalation of risks and opportunities from asset level, through our business unit EHS Leads back to the central Enterprise level (if required). Our asset level response to impending risks and opportunities is key to us meeting our global climate related targets. Our responses to these risks are summarized in our annual public 10K reporting, per SEC guidelines. At the Executive Leadership Team level, through our Senior Vice President and Chief ESG Officer and Customer Relations teams, we interface with external stakeholders to our business, through which we identify emerging climate related risks and opportunities. These are explored for integration into our ERM system where they require management and response. These may be identified through: active engagement with our customers (the OEMs), active engagement with our upstream suppliers through conferences and action groups, response to guestions from investors at shareholder meetings, or customer requests through EcoVadis/CDP. Finally, in 2020 we also commissioned and completed an independently conducted ESG materiality assessment which helped us to prioritize our climate-related risks and opportunities alongside wider social and governance needs. This involved engagement with 40 cross-functional leaders from around our business to ensure the most up-to-date view has been formed. To ensure a holistic market view we included direct competitors, peers, customers and manufacturers from similar markets that we consider to embody best practice. Case study: Physical risk: Through our annual insurance review process, we receive asset level recommendations in respect of our risk exposure to physical risks such as flooding, storm damage, wider extreme weather and seismic events depending on property location. The risks are clearly categorised, ranked and loss expectancy / cost to address are calculated. We respond to the recommendations of this assessment as appropriate. Case study: Transition risk: Through our ERM system, we manage upstream environmental regulation. As such we are aware that according to the U.S. Environmental Protection Agency, we may be a potentially responsible party ("PRP") for the cost of remediating hazardous substances pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"). PRP designation typically requires the funding of site investigations and subsequent remedial activities. Many of the sites that are likely to be the costliest to remediate are often current or former commercial waste disposal facilities to which numerous companies sent wastes. Whilst we believe our exposure for liability at these sites is limited, on a global basis, we have also identified certain other present and former properties at which we may be responsible for cleaning up or addressing environmental contamination. As such we are seeking to resolve our responsibilities for those sites for which a claim has been received. As of December 31, 2021, we have an obligation to remediate or contribute towards the remediation of certain sites, including the sites discussed above at which it may be a PRP. Our estimated share of environmental remediation costs for all these sites is recognized in the consolidated balance sheets on a discounted basis. This is identified as \$31 million as of fiscal year end December 31, 2021.

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

| | Relevance & | Please explain |
|------------------------|---------------------------------|--|
| Current regulation | Relevant, always included | We have partnered with a third party to provide a regulatory registry framework for all countries we operate. This framework assesses legal and other requirements associated with our operations in respect of air emissions, climate change, renewable energy, waste management and emergency management. The assessment tools are updated annually. Products: Our Product Development and Launch system identifies regulatory risks and opportunities and considers these in the strategies and roadmap to develop new products through the Tenneco Product Launch System (TenPLUS). Operations: Current climate-related regulation is always relevant to Tenneco. As a global manufacturer, we need to comply with legislation across multiple markets around environmental pollution, emissions controls, protection, biodiversity, emissions and supply chain consideration. This is an integral part of our risk management process. By way of a specific example: Tenneco has operations in 28 different global markets, including Europe. For our largest European manufacturing facilities, where we are near or may exceed the future thresholds for this scheme, we are required to monitor, measure, and retire or trade allowances. As the cap on energy usage / generation capacity is lowered over time (hand in hand with associated emissions), the likelihood of us having to purchase extra carbon allowances increases. As such this climate related legislation is monitored as part of our EHS processes in Europe as it presents financial, operational and reputational risk to our European business. |
| Emerging regulation | Relevant, always included | Climate related regulation is constantly evolving and being updated. With a global footprint, we must stay abreast of our obligations across our direct operations, upstream and downstream supply chain and across both the short, medium and long term horizon. We have engaged with an EHS related network organization that provides on-going forecasting of environmental, health and safety related changes across the regulatory landscape. For example, jurisdictions around the world have announced plans to limit the production of new diesel and gasoline-powered vehicles in the future. The EU is being pushed by a number of member states to announce sales ban on fossil fuel vehicles by 2030; the UK has already stated this as part of its Green plan. This emerging regulation will impact the vehicles type the OEMS can sell in these jurisdictions in the short-medium turn horizon and as such presents both risk and opportunity to our Clean Air and Powertrain businesses. With this in mind we are regularly reviewing and updating our strategy across all business units to mitigate this risk. |
| Technology | Relevant, always included | Risk related to not keeping our technology ahead of demand for fuel and emissions economy requirements is constantly evolving. We monitor this risk through our core ERM process, and down through our Business Unit Chief Engineers. Each business unit will review customer feedback, assess market risk and forecasts, and translate customer and market technology requirements into product strategies, road maps and prioritized product plans. Failure to act on these risks may jeopardise contracts in place or risk our customers going to competitors. For example, ensuring we are on top of technology advancements, enables our customers to meet fuel economy regulations and reach their own emission targets for their sustainability programs. Strategies we have in place to mitigate technology risks include: • Supplying parts for all vehicle types, including hybrids and battery electric vehicles; • Reducing noise and vibrations for quieter engines; • Increasing engine efficiencies for commercial truck and off-highway segments; • Reducing copper usage and limiting friction in brakes; and • Reducing vehicle deterioration and waste. |
| Legal | Relevant, always included | This risk type is currently most applicable in terms of exposure to lawsuits related to our climate-related disclosures and in relation to environmental compliance within our operations. We consider this risk to be closely linked to reputational risk. As previously referenced, we have partnered with a third party to provide a regulatory registry framework for all countries in which we operate. This framework assesses legal and other requirements associated with air emissions, climate change, renewable energy, waste management and emergency management. The assessment tools are updated annually. We have engaged with an EHS related network organization that provides on-going forecasting of environmental, health and safety related changes across the regulatory landscape. Through this ERM system we manage upstream environmental regulation and the possibility of litigation. By way of example, we are aware that according to the U.S. Environmental Protection Agency we may be a potentially responsible party ("PRP") for the cost of remediating hazardous substances pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"). PRP designation typically requires the funding of site investigations and subsequent remedial activities. Many of the sites that are likely to be the costliest to remediate are often current or former commercial waste disposal facilities to which numerous companies sent wastes. We believe our exposure for liability at these sites is limited. On a global basis, we have also identified certain other present and former properties at which we may be responsible for cleaning up or addressing environmental contamination. As such we are seeking to resolve our responsibilities for which a claim has been received. As of December 31, 2021, we have an obligation to remediate or contribute towards the remediation of certain sites, including the sites discussed above at which it may be a PRP. Our estimated share of environmental remediation costs for all thes sits is recognized |
| Market | Relevant, always included | We assess climate risk across our market on a regular basis as we are impacted through exposure in our direct operations (increasing fuel and raw materials prices), upstream (changes to OEM product mix requirements due to their own exposure to regulatory requirements) and downstream (changes in end-consumer preference such as autonomous vehicles, move to electrification). For example, one of our major customers - General Motors (11% of 2021 net sales) recently joined other vehicle manufacturers, including Ford (10% of 2021 net sales), Nissan and Volvo, in committing to becoming carbon neutral after announcing its plans to reach carbon neutrality by 2040 and to stop selling gasoline powered light vehicles by 2035. To achieve these goals, General Motors is investing substantially in electrification. The increase dadoption of electrified powertrains could result in lower demand for some of our products. There has also been an increase in consumer preferences for car and ride sharing, as opposed to automobile ownership, which may result in a long-term reduction in the number of vehicles per capita. The evolution of the industry towards connectivity, autonomy, shared mobility and electrification has also attracted increased competition from entrants outside the traditional light vehicle industry. |
| Reputation | Relevant, always included | Protection of our brand and being recognized as a company with a high culture of integrity is important to us both externally and internally. If we do not manage this risk we may lose market share, fail to maintain the trust of internal and external stakeholders or fail to attract and retain talent in our business. Tenneco business units review customer feedback, assess reputational risk, and translate customer and market requirements into product strategies, road maps and prioritized product plans. Customer and market requirements are subject to and aligned with increasing regulations in fuel economies. For example, our reputation for being at the forefront of the market in relation to energy efficient products, Clean Air technology and the most efficient ICE components is particularly important where this helps our OEM customers to meet their own climate targets. Failure to support these plans could jeopardise future contracts and therefore revenue. |
| Acute physical | Relevant, always included | In addition to our active emergency preparedness plan which includes plans for all applicable climate related emergencies, we have partnered with a third party to provide real-time emergency event notifications which include natural disasters and acute climate updates. These events are monitored and assessed by our Security team for impact on our operations and shared/communicated appropriately. Given our global property portfolio, we are exposed to extreme weather events when they occur. Our Business Unit EHS Leads are also responsible for keeping track of properties where we are particularly vulnerable to the risk of hurricanes, floods and water security that could affect business operations, for example in the case of continuity of power supply, or concerning supply chain interruption. For example, within the Tenneco Business System, the Integrated Supply Chain element allows logistics to be optimized within our supply chains, which includes assessing physical risks which could disrupt the supply chain. As a second example, impacts from climate extremes such as heat, droughts, floods, cyclones and fires are also review as part of our annual insurance renewal process. |
| Chronic physical | Relevant, always included | Given our global property portfolio we are exposed to chronic weather events over prolonged periods of time. Our Business Unit EHS Leads keep track of properties where risk of long-term climatic changes such as sustained high temperatures could affect business operations, for example in the case of continuity of power supply or concerning supply chain interruption. For example, in India, some facilities are often exposed to prolonged high temperatures and local infrastructure weaknesses threaten the security of power supply. As such in this jurisdiction, we manage our response using onsite generation and support local grids by exporting spare capacity back. This ensures resilience for our business and provides wider support across the local grid connection, thus also benefiting communities around us. |

C2.3

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

C2.3a

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

Identifie

Risk 1

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

Risk type & Primary climate-related risk driver

Market Changing customer behavior

Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Tenneco is dependent on several major vehicle manufacturers such as General Motors and Ford for future revenue. During the fiscal year ended December 31, 2021 – these two customers accounted for 11% and 10% of net sales respectively. The loss of all or a substantial portion of our revenues from these, or our wider large-volume customers could have a material adverse impact on our business. Consumer preferences and government regulations also impact the demand for new light vehicle purchases equipped with our products. For example, if consumers increasingly prefer electric vehicles, demand for the vehicles equipped with our clean air and powertrain products could decrease. Circumstances that could result in a loss of revenues from our large-volume customers include, particularly with respect to original equipment (OE) light vehicle revenue: a) the transition away from the production of gasoline-powered vehicles (such as the most recent announcements by General Motors and Ford) b) transition to electrified powertrains, whether voluntary or mandated. We know that our key clients have recently committed to becoming carbon neutral by 2040 and to stop selling gasoline-powered light vehicles by 2035. The increased adoption of electrified powertrains could result in lower demand for some of our products. As a result Tenneco is developing and capitalizing on opportunities associated with hybrid and more fuel-efficient light vehicles, further diversifying our portfolio into commercial truck, off-highway and industrial production applications, as well as evolving with the electrification of the market.

Time horizon

Long-term

Likelihood Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure? Yes, a single figure estimate

Potential financial impact figure (currency) 4700000

Potential financial impact figure – minimum (currency) <Not Applicable>

Potential financial impact figure – maximum (currency) <Not Applicable>

Explanation of financial impact figure

The financial impact is calculated on the basis of 2021 figures with 37% of value-add revenue related to OE light vehicle ICE vehicles. Hypothetically, if there is a 1% decline of OE light vehicle ICE revenue converted to BEV (Battery Electric Vehicles), it could impact 1% of the enterprise Adjusted EBITDA related to OE light vehicle ICE revenue – or up to \$4.7 million (37% x \$1,273M x 1%).

Cost of response to risk

Description of response and explanation of cost calculation

Although for many years our business was primarily concerned with the ICE (Internal Combustion Engine) vehicle market, across all four of our business units we are now developing products that support the next generation of hybrid and battery electric vehicles. To mitigate loss of customers, and take into account increasing regulation, Tenneco is targeting a shift in value-add revenue mix; moving from the percentage attributable to original equipment (OE) light vehicle ICE (Internal Combustion Engine) products of 39% in 2020 to less than 20% over the long-term horizon. Please see our SEC filings, earnings and investor presentations for more information. Instead, we prioritize investments in light vehicle product lines and applications that have content growth opportunities in light vehicle BEV. For example, approximately a third of the new business pipeline for Performance Solutions focuses on battery electric vehicles or hybrids. In 2021, we launched programs for battery electric vehicles, including those that incorporate alternative fuels, because our diverse portfolio of products applies to vehicles with multiple fuel types and propulsion systems. These strategies are being deployed to maintain market share and mitigate the risk of losing our large-volume customers. Case study: in December 2021, Tenneco expanded its portfolio of Monroe® RideRefine™ add-on technologies for passive dampers to include a new tunable end-stop technology that supports global automakers' electrification and vehicle lightweighting strategies. The new Monroe RideRefine Hydraulic Compression Stop (HCS) improves ride comfort and body control by enabling a better trade-off between ride height and end-stop force, this technology helps manufacturers reduce the structural requirements of vehicles that typically carry heavier loads – including battery packs.

Comment

Information relating to the 'cost of response to risk' is not available

C2.4

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

C2.4a

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

Identifier

Opp1

Where in the value chain does the opportunity occur? Downstream

Opportunity type Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

The evolution of alternative powertrain technology, including the increased adoption of fully electric and hybrid powertrains, will also create further opportunities for increased ride performance and NVH (noise, vibration and harshness) capabilities, as consumers look for smoother, quieter, and more efficient rides. Engine downsizing and hybridization will lead to a proliferation of NVH requirements per platform as road noise and other NVH properties that were once masked by engine noise become more apparent to consumers. Furthermore, fully electric vehicles ("EVs") will likely have a suite of fundamentally different NVH, braking, and ride performance requirements. Our capabilities in the suspension, braking, and NVH performance materials categories provide the opportunity to develop solutions to maximize driving comfort, ride performance, and motion management for consumers worldwide in the increasing electrification and hybridization of the global vehicle fleet.

Time horizon

Medium-term

Likelihood Virtually certain

Magnitude of impact High

Are you able to provide a potential financial impact figure? No, we do not have this figure

Potential financial impact figure (currency) <Not Applicable>

Potential financial impact figure – minimum (currency) <Not Applicable>

Potential financial impact figure – maximum (currency) <Not Applicable>

Explanation of financial impact figure Information not available

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

We are well-positioned to align our business with this global change, because most of our products in our Performance Solutions and Motorparts business units are fuelagnostic and therefore can be used on hybrid and battery electric vehicles. Over the mid- to long-term future, we target over 80% of our revenues as unrelated to light vehicle internal combustion engines. By contributing fuel-agnostic components to these vehicles, we integrate our business with this advancing technology and continue to drive improvements in efficiency across the automotive industry. For example, product lines in our Performance Solutions business unit are agnostic to powertrain technology. We also actively develop product lines that are particularly suited to electric or electrified vehicles. Approximately a third of the new business pipeline for Performance Solutions focuses on battery electric vehicles or hybrids. In 2021, we have planned multiple launches of programs for battery electric vehicles, hybrids or ebike programs as we facilitate advancements in the industry. Case study 1: In December 2021, Tenneco expanded its portfolio of Monroe® RideRefine™ add-on technologies for passive dampers to include a new tunable end-stop technology that supports global automakers' electrification and vehicle lightweighting strategies. The new Monroe RideRefine Hydraulic Compression Stop (HCS) improves ride comfort and body control by enabling a better trade-off between ride height and end-stroke compression damping. It significantly reduces impact forces transferred to the vehicle body structure near the end of a damper's compression stroke. By controlling peak end-stop force, this technology helps manufacturers reduce the structural requirements of vehicles that typically carvy heavier loads – including battery packs. Case study 2: in March 2022, Tenneco announced a series of enhancements to its Premium control arms, including induction-hardened studs and carbon fiber-reinforced bearings. Induction-hardened studs provide added strengt

Comment

Cost of management is directly aligned with our business strategy and investment in research and development.

C3. Business Strategy

C3.1

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

Row 1

Transition plan

No, but our strategy has been influenced by climate-related risks and opportunities, and we are developing a transition plan within two years

Publicly available transition plan

<Not Applicable>

Mechanism by which feedback is collected from shareholders on your transition plan <Not Applicable>

...

Description of feedback mechanism <Not Applicable>

Frequency of feedback collection <Not Applicable>

Attach any relevant documents which detail your transition plan (optional) <Not Applicable>

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

Explain why climate-related risks and opportunities have not influenced your strategy <Not Applicable>

C3.2

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

| | | Use of climate- related scenario analysis to inform strategy | Primary reason why your organization does not use climate- related scenario analysis to inform its strategy | Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future |
|---|-----|--|---|---|
| F | Row | No, but we anticipate using qualitative and/or quantitative analysis in the next two years | Important but not an immediate priority | Tenneco has entered into a definitive agreement to be acquired by funds managed by affiliates of Apollo (NYSE: APO). Pending a consummation of the transaction, we will continue to focus on understanding and managing our climate-related impacts as a priority. For example, we expanded our assessment this year, by quantifying our wider supply chain impacts (scope 3), enabling us to understand in greater depth where our most significant climate related impacts are outside of the current boundary we consider. This will not only help us understand the magnitude of our impact, but also help us to identify the levers we can use to reduce this impact. We are considering committing to further targets and developing a detailed emission reduction strategy. As part of this journey, we expect to consider use of climate- related scenario analysis. |

C3.3

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

| Products and services | Have climate- related risks and opportunities influenced your strategy in this area? Yes | Description of influence Integration of environmental strategy with our business strategy is inherent to Tenneco's business elements: Sales and Commercial Operations, Product Development / Launch, Manufacturing Operations, and Integrated Supply Chain Management. Risks and opportunities identified in our four business systems inform overall business strategy. For example, the product management component of our Sales and Commercial operations reviews customer feedback, assesses reputation risk, and translates customer and market requirements into product strategies, road maps and prioritized product plans. Our customers face risks and opportunities driven by legislation, changes in consumer behaviour, and technology advances. More stringent fuel economy regulations and a change in consumer behaviour towards more fuel-efficient vehicles and fuel types presents us with opportunities to investigate, propose and develop new prototype products. Successful prototypes then migrate into Tenneco's Program Launch system. By way of a strategic product example – the Tenneco DLC (Diamond Like Coating) range of piston ring coatings, including CarboGlide and DuroGlide, provide the ultimate combination of low friction and exceptional durability in the most critical engine environments. DLC coated piston rings contribute to fuel economy savings up to 1.5%. In 2020, we also announced a new and exciting area of development in 'self- |
|---|---|---|
| Supply chain and/or value chain | Yes | healing' coatings, which have the ability to self-generate during engine operation. To meet the stakeholder expectations and maintain business continuity, we mitigate environmental and social risks in our supply chain and enforce our procurement standards. As part of our commitment to human rights, we perform due diligence and evaluate our suppliers periodically, and we comply with requirements related to conflict minerals. We also continue to enhance visibility along our supply chain, and we identify opportunities to improve our procurement efforts and mitigate risks of disruption. By limiting natural resource use and maintaining our standards, we strive to strengthen our supply chain, because cultivating a dependable and responsible supply chain is important to our ability to provide high-quality products for our customers. We strive to contribute to a more efficient, responsible supply chain. As part of our strategy, we aim to include our own suppliers in our efforts to increase sustainability and deliver value for our customers. By eliminating waste and reducing greenhouse gas emissions in our supply chain, we can increase our efficiency to generate savings along our value chain and improve our business success. To drive our sustainable growth, we continue to implement processes to track the performance of our suppliers while fostering a culture of innovation to support improvements. As we progress, we aim to collaborate with our suppliers to mitigate supply chain risks. Our goal is to have 100% of our top sustainability "high-risk" and/or "high-impact" suppliers complete a self-assessment questionnaire by the end of 2022. With this information, we will enable more responsible growth and targeted improvements for our suppliers. A specific example of climate-related risks influencing our supply chain strategy is in our usage of copper as a raw material in our monducts. As we strive to use lightweight materials in our manufacturing, we are ware of regulatory compliance related to minimizing copper |
| Investment in R&D | Yes | Tenneco's innovation strategy has focused to increase product range to support internal combustion and hybrid engine needs. Greenhouse gas emissions and vehicle propulsion efficiency are key defining opportunities and feature prominently in our future product road maps in support of our automotive industry customers. Our Product Development and Launch system identified regulatory risks and opportunities and considers these in the strategies and road map to develop new products through the Tenneco Product Launch System (TenPLUS). Our Innovation team developed a cross-functional, phase-gate business process to manage investment risk as well as gauge market acceptance and Technical Readiness Level (TRL) of new products under development. This program focuses on identifying regulatory market opportunities and increases the probability that our research and development investments will result in successful customer adoption At a high level, many of our innovations are driven by fuel economy standards (i.e. to reduce CO2, exhaust recovery, etc.) which will help us be prepared for regulations that will be in place in 2025. We design specialized coatings and components that reduce mass and friction and improve thermal and mechanical resistance, which support DEMs in reaching their goals for engine enhancements. For example, our light vehicle diesel steel pistons offer proven carbon emission reduction, and our IROX 2 polymer bearing coatings (PACE award winner) provide increased reliability to support higher-density, more efficient engines. Tenneco is involved with Powertrain components in multiple projects for hydrogen combustion engines. We are using our technological competence and testing capabilities to optimize the Powertrain and exhaust aftertreatment components specifically for the use with hydrogen, helping our customers to develop efficient and robust hydrogen combustion engines. Synthetic fuels for motor vehicles can play an important role in achieving near-zero emissions mobility by using renewable energy so |
| Operations | Yes | As one of the world's leading designers, manufacturers and marketers of automotive products for original equipment and aftermarket customers, what Tenneco makes matters. Tenneco have implemented strategic company values that outline what we stand for. These values are: Integrity Always, One Team, Make Tomorrow Better and Will to Win. To underpin our Make Tomorrow Better value, we developed a framework to align our strategic approach to sustainability and focus our efforts on our key impacts. Based on Tenneco's ESC priorities, we organized the pillars to define our future performance and recognize opportunities for improvement across our business. Our strategic, The Road to Making Tomorrow Better, reflects stakeholder input, our material topics and critical elements of our culture. We continue to operate with a foundation of responsibility and accountability as we implement our strategy to generate positive impacts related to three key pillars: People, Planet and Products. With the Planet pillar we focus on minimising our impact on the planet through operation eco-efficiency and renewable energy sourcing. This involves work throughout our operations to reduce energy use, GHG emissions and waste. Our environmental strategy focuses on reducing energy consumption and evaluating opportunities to incorporate renewable energy into our operations. We recognize our responsibility to reduce our contribution to climate change, and we continue to assess our strategy to mitigate climate-related risks. As a global organization with a significant footprint, we are focused on making improvements in energy efficiency and limiting emissions at our sites. |

C3.4

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

| | Financial planning elements that have been influenced | Description of influence |
|----------|--|---|
| Row 1 | Capital expenditures Capital allocation | Capital allocation: Capital allocation to our innovation strategy is increasingly important as technology evolves and customers continue to demand climate focused vehicle improvements. To drive our financial performance, we invest in research and development and strive to differentiate our business. We continue to illustrate the range of our capabilities and supply new technologies to enable the market transition as we incorporate modern advancements that support electrification and alternative fuels. During 2020 alone our Engineering, research and development costs were \$273m. Whilst not all of our R&D costs are directly attributable to technology innovations responding directly to climate change, this magnitude provides a proxy for the high level of investment in our response to evolving technology. By anticipating climate directed market needs, we offer innovative solutions to remain leaders in this transforming industry and drive value for our stakeholders through short term individual product enhancements through to our long term strategic business change (10-50 year horizon) as our business respond to the longer term transition to electrification. Capital Expenditure: Prior to expenditure on capital projects, at an asset level, we use a MOC (Management of Change) checklist process. The MOC checklist is used to evaluate the potential environmental, health and safety, resource usage implications of a capital project. Capital project must pass the MOC process before a Capital Appropriate Request is authorised. The MOC checklist is related to both our climate related risk and opportunities as the process may highlight where particular proposed capital expenditure could increase our climate related impacts (a risk), offering us an opportunity to review our specific purchasing decision to select equipment with comparatively better environmental performance (opportunity). For each project of significant investment, the requestor must highlight whether a project is likely to have an impact in terms of increase or |

C4. Targets and performance

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

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number Int 1

Year target was set 2021

-021

Target coverage Company-wide

Scope(s) Scope 1

Scope 2

Scope 2 accounting method Location-based

Scope 3 category(ies) <Not Applicable>

Intensity metric Metric tons CO2e per unit revenue

Base year 2019

Intensity figure in base year for Scope 1 (metric tons CO2e per unit of activity) 15.44254086

Intensity figure in base year for Scope 2 (metric tons CO2e per unit of activity) 66.4853206

Intensity figure in base year for Scope 3 (metric tons CO2e per unit of activity) <Not Applicable>

Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity) 81.927851

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure 100

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure 100

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this Scope 3 intensity figure <Not Applicable>

% of total base year emissions in all selected Scopes covered by this intensity figure 100

Target year 2030

Targeted reduction from base year (%) 30

Intensity figure in target year for all selected Scopes (metric tons CO2e per unit of activity) [auto-calculated] 57.3494957

% change anticipated in absolute Scope 1+2 emissions -30

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year for Scope 1 (metric tons CO2e per unit of activity) 13.41028807

Intensity figure in reporting year for Scope 2 (metric tons CO2e per unit of activity) 60.42317397

Intensity figure in reporting year for Scope 3 (metric tons CO2e per unit of activity) <Not Applicable>

Intensity figure in reporting year for all selected Scopes (metric tons CO2e per unit of activity) 73.83349044

% of target achieved relative to base year [auto-calculated] 32.9328812331068

Target status in reporting year Underway

Is this a science-based target?

No, and we do not anticipate setting one in the next 2 years

Target ambition

<Not Applicable>

Please explain target coverage and identify any exclusions

1. For the purposes of this long-term target our anticipated absolute reduction in scope 1 and 2 emissions is 30% on the basis of no assumed material change in revenue and the assumption that we will meet our target. 2. Note our intensity target is stated here per \$million revenue, not per single unit revenue - therefore the order of magnitude here will appear different to that in question 6.10 where the requirement is to display an intensity per single unit revenue

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

Our teams and business units across the company collaborate closely to achieve our goals for energy management and emissions reduction. In 2021, we formed the Energy Council and two associated working groups to drive renewable energy procurement and reduce overall energy consumption. At the front line, global operation teams maintain responsibility for energy management activities. In 2021, the working groups under the energy Council kicked off work to develop a Tenneco roadmap for a transition toward green energy and a playbook for implementing energy efficiency projects across our global operations. Thirteen pilot sites across the organization were selected for energy assessments to help identify opportunities for improvement. In addition to developing the energy efficiency playbook, the energy efficiency working group is focused on leveraging existing best practices across the organization as well as promoting and supporting energy reduction initiatives within the business segments. These initiatives will support Tenneco's progress toward our 2030 goals and will also prepare for longer-term goals that we are exploring, including carbon neutrality and science-based targets in alignment with the Paris Agreement.

List the emissions reduction initiatives which contributed most to achieving this target <Not Applicable>

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year? Target(s) to increase low-carbon energy consumption or production

Other alignets related to work(s)

Other climate-related target(s)

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

Target reference number Low 1

Year target was set

Target coverage Company-wide

Target type: energy carrier All energy carriers

Target type: activity Consumption

Target type: energy source Renewable energy source(s) only

Base year

Consumption or production of selected energy carrier in base year (MWh) 3732299.367

% share of low-carbon or renewable energy in base year 9.63

Target year

% share of low-carbon or renewable energy in target year 15

% share of low-carbon or renewable energy in reporting year 9.63

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

Target status in reporting year Underway

Is this target part of an emissions target? No

Is this target part of an overarching initiative? No. it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

The target covers all Tenneco's operations across all regions and sites. There is no exclusion.

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

In 2021, we formed the Energy Council and two associated working groups to drive renewable energy procurement and reduce overall energy consumption. At the front line, global operation teams maintain responsibility for energy management activities. As we pursue our renewable energy goals, we have upgraded our reporting systems to track renewable energy programs across the company. In 2021, the working groups under the Energy Council kicked off work to develop a Tenneco roadmap for a transition toward green energy across our global operations. Thirteen pilot sites across the organization were selected for energy assessments to help identify opportunities for improvement. These initiatives will support Tenneco's progress toward our 2030 goals and will also prepare for longer-term goals that we are exploring, including carbon neutrality and science-based targets in alignment with the Paris Agreement. Tenneco will achieve renewable electricity targets through Power Purchase Agreements, and where possible, by installing onsite solar generation. Case study: there were two facilities that installed rooftop solar photovoltaic panels in 2021. The Mondovi, Italy facility installed a one megawatt (MW) solar photovoltaic system and a combined heat and power plant (CHP) with a methane gas engine that helps with efficient heating and cooling in the facility. It is estimated that the installations will supply about 47% of the facility's overall energy demand and reduce 360 metric tons of carbon emissions annually. In Portugal, the Palmela facility installed a 102 kilowatts (kW) photovoltaic system on their rooftop. The project was accomplished through a 10-year energy contract, resulting in annual energy savings. Our effort and progress in pursuing renewable energy is recognized by our customers. Our Clean Air Team in Chengdu, china received the Volvo Sustainable Supply Chain Award for utilization of green power. In January 2021, the Chengdu team successfully switched all its electricity to 100 percent green energy, reducing

List the actions which contributed most to achieving this target <Not Applicable>

C4.2b

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

Target reference number Oth 1

Year target was set

Target coverage Company-wide

Target type: absolute or intensity Absolute

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

Energy consumption or efficiency

Target denominator (intensity targets only)

<Not Applicable>

Base year 2019

Figure or percentage in base year 4039291.439

Target year

2030

Figure or percentage in target year 2827504.0073

Figure or percentage in reporting year 3732299.367

% of target achieved relative to base year [auto-calculated] 25.3338220853904

Target status in reporting year Underway

Is this target part of an emissions target?

No, but the actions implemented to achieve this target will also contribute to the progress against emission targets

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

The target covers all Tenneco's operations across all regions and sites. There is no exclusion

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

In 2021, we formed the Energy Council and two associated working groups to drive renewable energy procurement and reduce overall energy consumption. At the front line, global operation teams maintain responsibility for energy management activities. In 2021, the working groups under the Energy Council kicked off work to develop a playbook for implementing energy efficiency projects across our global operations. Thirteen pilot sites across the organization were selected for energy assessments to help identify opportunities for improvement. In addition to developing the energy efficiency playbook, the energy efficiency working group is focused on leveraging existing best practices across the organization as well as promoting and supporting energy reduction initiatives within the business segments. These initiatives will support Tenneco's progress toward our 2030 goals and will also prepare for longer-term goals that we are exploring, including carbon neutrality and science-based targets in alignment with the Paris Agreement. We proactively pursue opportunities to reduce energy use and associated emissions. In October 2021, the Greenville, Michigan facility partnered with General Motors (GM) on energy efficiency opportunities through the concept of energy reduction and cost savings initiatives. Our plant in Napoleon, Ohio, has worked with the City of Napoleon and Efficiency Smart, a program that helps businesses use less energy and save money through energy efficiency strategies. Since the inception of the program, the plant has achieved a 30% reduction in energy use and culminated in \$2.5 million in total cost savings over the lifetime of the new and upgraded equipment for mergy assessments to all apartnered with the city of vergets. These projects show our collaborative approach to drive energy efficiency in operations. See we progress towards our goals, we will continue to invest in projects. These projects show our collaborative approach to drive energy efficiency in operations. As we progress towards our goals

List the actions which contributed most to achieving this target <Not Applicable>

C4.3

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

Yes

C4.3a

MWh

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

| | Number of initiatives | Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *) |
|---------------------------|-----------------------|--|
| Under investigation | 10 | 53513 |
| To be implemented* | 0 | 0 |
| Implementation commenced* | 0 | 0 |
| Implemented* | 41 | 5477 |
| Not to be implemented | 0 | 0 |

C4.3b

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

| Initiative category & Initiative type | |
|--|----------|
| Low-carbon energy generation | Solar PV |
| Estimated annual CO2e savings (metric tonnes CO2e) 360 | |
| Scope(s) or Scope 3 category(ies) where emissions savings occur Scope 2 (location-based) | |
| Voluntary/Mandatory Mandatory | |
| Annual monetary savings (unit currency – as specified in C0.4) 300000 | |
| Investment required (unit currency – as specified in C0.4) 0 | |
| Payback period <1 year | |
| Estimated lifetime of the initiative 6-10 years | |
| Comment Tenneco has invested in the development of a photovoltaic system at its Mondovi Plant | |

C4.3c

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

| Method | Comment |
|-------------------------------------|---|
| Financial optimization calculations | We select emission reduction activities where asset or overhead costs are reduced and the return on investment is favourable. |

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products? $\ensuremath{\mathsf{Yes}}$

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify (Our Business Unit engineering leaders help ensure adherence to appropriate methodologies to evaluate and label the products that are considered as low carbon, or enable third parties to avoid emissions)

Type of product(s) or service(s)

| D | Other along any if (Automotive and statistics to find a finite sector interval |
|------|--|
| Road | Unter blease specify (Automotive broducts that contribute to the emiciency and/or emissions reduction) |

Description of product(s) or service(s)

Tenneco develops products that support the next generation of hybrid and battery electric vehicles while also enabling more efficient internal combustion engines with fewer emissions. Our business provides the products that enable the continued evolution of internal combustion engines and reduce emissions from exhaust gases. We also contribute to the transition to a low-carbon economy by delivering solutions that recover exhaust energy, reduce mass and backpressure, and improve fuel economy. We support long-lasting operating conditions that prevent fluid leakage or vehicle deterioration, which maintain vehicle lifespans to keep them out of landfills. Together, our products enable cleaner transportation and valuable efficiency increases from multiple angles of vehicle improvement. In 2021, we derived 41% of our revenue from Powertrain and Clean Air products designed to improve fuel efficiency and/or reduce emissions during their use phase. For example, our light vehicle diesel steel pistons offer proven carbon emission reduction, and our IROX 2 polymer bearing coatings provide increased reliability to support higher-density, more efficient engines.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s) No

Methodology used to calculate avoided emissions

<Not Applicable>

Life cycle stage(s) covered for the low-carbon product(s) or services(s) <Not Applicable>

Functional unit used

<Not Applicable>

Reference product/service or baseline scenario used <Not Applicable>

Life cycle stage(s) covered for the reference product/service or baseline scenario <Not Applicable>

Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario <Not Applicable>

Explain your calculation of avoided emissions, including any assumptions <Not Applicable>

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

41

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP? No

C5.1a

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

Row 1

Has there been a structural change? No

140

Name of organization(s) acquired, divested from, or merged with <Not Applicable>

Details of structural change(s), including completion dates <Not Applicable>

C5.1b

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

| | Change(s) in methodology, boundary, and/or reporting year definition? | Details of methodology, boundary, and/or reporting year definition change(s) |
|-------|---|--|
| Row 1 | Yes, a change in methodology | Use of EPA eGRiD emission factors for the calculation of scope 2 emissions in the United States. |

C5.1c

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

| | Base year recalculation | Base year emissions recalculation policy, including significance threshold |
|----------|----------------------------|---|
| Row 1 | Yes | We have re-calculated emissions for the two previous years (2019 and 2020) to reflect the new boundary. 2019 is Tenneco's base year, as this is the last representative year for the business (pre-pandemic). |

C5.2

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

Scope 1

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 269472

Comment

Scope 2 (location-based)

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 1160169

Comment

Scope 2 (market-based)

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 1324146.42

Comment

Note: Market- based emissions for 2019, 2020 and 2021 are conservative and assume residual mix or location-based conversion factors are applied in most instances (residual mix in Europe via AIB REDISS residual mix data, residual mix in the United States via Green-e residual mix data, and application of location-based conversion factors everywhere else globally, per the WRI GHG Scope 2 protocol conversion factors hierarchy). The application of Residual mix and location-based factors is due to lack of consolidated data across the current portfolio for EAC (Energy Attributed Certificates), green tariff info or other verifiable evidence of low or zero carbon energy, per the WRI GHG Scope 2 guidance on evidence quality.

Scope 3 category 1: Purchased goods and services

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 8761969.71

Scope 3 category 2: Capital goods

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 285588.381

Comment

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

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 343448.637

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 679788.328

Comment

Scope 3 category 5: Waste generated in operations

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 26122.558

Comment

Scope 3 category 6: Business travel

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 44432.16

Comment

Scope 3 category 7: Employee commuting

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 347152.48

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Scope 3 category 9: Downstream transportation and distribution

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 86868.176

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 1706054.923

Comment

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

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 197881.515

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 27860.148

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

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

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

The Greenhouse Gas Protocol: Scope 2 Guidance

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

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

US EPA Mandatory Greenhouse Gas Reporting Rule

US EPA Emissions & Generation Resource Integrated Database (eGRID)

Other, please specify (International Energy Agency)

C6. Emissions data

C6.1

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

Reporting year

Gross global Scope 1 emissions (metric tons CO2e) 241854.55

Start date January 1 2021

End date December 31 2021

Comment

Past year 1

Gross global Scope 1 emissions (metric tons CO2e) 226671.85

Start date January 1 2020

End date

December 31 2020

Comment

Figures reinstated following data improvements (more sites provided actual gas and fuel data, thus reducing the proportion of estimations) and extension of reporting scope (to include company car emissions).

Past year 2

Gross global Scope 1 emissions (metric tons CO2e)

269472.34

Start date

January 1 2019

End date December 31 2019

Comment

Figures reinstated following data improvements (more sites provided actual gas and fuel data, thus reducing the proportion of estimations) and extension of reporting scope (to include company car emissions).

C6.2

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

Row 1

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

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

C6.3

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

Reporting year

Scope 2, location-based 1089731.94

Scope 2, market-based (if applicable) 1022096.99

Start date January 1 2021

End date

December 31 2021

Comment

Past year 1

Scope 2, location-based 1017236.44

Scope 2, market-based (if applicable) 1153148.67

Start date January 1 2020

End date

December 31 2020

Comment

Figures reinstated following data improvements (more sites provided actual electricity data, thus reducing the proportion of estimations) and extension of reporting scope (to include heat emissions).

Past year 2

Scope 2, location-based 1160168.84

Scope 2, market-based (if applicable) 1324146.42

Start date

January 1 2019

End date

December 31 2019

Comment

Figures reinstated following data improvements (more sites provided actual electricity data, thus reducing the proportion of estimations) and extension of reporting scope (to include heat emissions).

C6.4

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

Yes

C6.4a

(C6.4a) Provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure.

Source

Fugitive Emissions

Relevance of Scope 1 emissions from this source

Emissions are not evaluated

Relevance of location-based Scope 2 emissions from this source No emissions from this source

Relevance of market-based Scope 2 emissions from this source (if applicable)

No emissions from this source

Explain why this source is excluded

Data for fugitive emissions not currently tracked by sites or available at the centrally. We believe the impact from fugitive emissions within Tenneco operations is minimal, however we plan to do a formal evaluation in near future.

Estimated percentage of total Scope 1+2 emissions this excluded source represents

<Not Applicable>

Explain how you estimated the percentage of emissions this excluded source represents <Not Applicable>

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 8174233.612

Emissions calculation methodology Hybrid method

Spend-based method Site-specific method

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

100 Please explain

Emissions are calculated using a hybrid methodology: spend-based calculations (Extended Environmental Input-Output model, for 99% of emissions) and process-based calculations (for water supply only)

Capital goods

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 229641.834

Emissions calculation methodology

Spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners 100

Please explain

Emissions are calculated using spend-based calculations (Extended Environmental Input-Output model)

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

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 414564.459

Emissions calculation methodology

Supplier-specific method Hybrid method Spend-based method Distance-based method

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

100

Please explain

For buildings (electricity, natural gas and other fuels), scope 3 emissions are calculated using process-based calculations: the relevant emission factors (from IEA and Defra databases) are applied to each site's energy data. For company cars, scope 3 emissions are calculated using a hybrid methodology: process-based calculations (when distance travelled is available, applying transport mode-specific emission factors from Defra) and spend-based calculations (Extended Environmental Input-Output model, when only spend data is available). All cradle-to-gate emissions are included, i.e. well-to-tank emissions and electricity transmission & distribution (including well-to-tank T&D).

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 554666.914

Emissions calculation methodology

Average data method Distance-based method

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

Please explain

68

Emissions are calculated using a process-based methodology. Well-to-tank emission factors from Defra are applied to logistics data including shipment weight, transport mode, origin and destination. Were logistics data is missing, the gap is filled using weight averages based on the rest of the dataset.

Waste generated in operations

Evaluation status Relevant, calculated

Emissions in reporting year (metric tons CO2e)

23300.328

Emissions calculation methodology

Waste-type-specific method

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

100

Please explain

Emissions are calculated using process-based calculations: the relevant Defra emission factors are applied to each site's waste data, i.e. waste volume, type and destination.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 8044.792

Emissions calculation methodology

Hybrid method Spend-based method Distance-based method

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

100 Please explain

Emissions are calculated using a hybrid methodology: process-based calculations (for flights only, with Defra well-to-tank factors applied to travel data, i.e. distance, flight type and class) and spend-based calculations (Extended Environmental Input-Output model, for all other transport modes).

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 257891.815

Emissions calculation methodology

Average data method

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

0

Please explain

Emissions are estimated based on market benchmarks (commuting habits in the USA and the UK: average distance travelled and transport mode) applied to Tenneco's headcount and the relevant well-to-tank Defra emission factors.

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Not relevant. Tenneco takes an operational control boundary, therefore emissions associated with the operation of all leased assets are already included under scope 1 and 2 inventory.

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 121123.368

Emissions calculation methodology

Average data method

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

Please explain

100

Emissions are estimated based on Upstream transportation emission data and high-level assumptions provided by Tenneco's Logistics team

Processing of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Category 10 emissions are excluded from the inventory. There are no emissions associated to the transformation of goods sold, as they are directly assembled into finished cars at the clients' facilities. The assembly process creates indirect emissions (generation of electricity used to power assembly machines), but there no visibility over this activity, and the extensive variety of product and customer types makes any assumption unmanageable. In addition, these indirect emissions are assumed to be small and decreasing, as most OEM customers are setting ambitious renewable electricity targets for their facilities.

Use of sold products

Evaluation status Relevant, calculated

Emissions in reporting year (metric tons CO2e)

Emissions calculation methodology Methodology for direct use phase emissions, please specify Other, please specify (Weight-based method)

Percentage of emissions calculated using data obtained from suppliers or value chain partners 100

Please explain

2013579.26

Emissions are estimated based on use-phase emissions of the end-product (e.g. car, truck, excavator, industrial engine, etc. - with data coming from LCA studies and Defra emission factor database), applied to Tenneco's products sold using a weight-based allocation rule. In scope are all the products that directly emit emissions during the use-phase, e.g. Ignition and Emission Control. All other product lines are excluded.

End of life treatment of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e) 183978.129

Emissions calculation methodology

Average data method Other, please specify (Volume-based proxy for products sold)

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

100

Please explain

Emissions are estimated based on Goods for Resale volumes (used as proxy for products sold), Defra waste emission factors and assumptions on end-of-life destination.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e) </br><Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Category 13 emissions are excluded from the inventory. Tenneco does not have any leased downstream assets

Franchises

Evaluation status Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e) <Not Applicable>

inter i ppliedore

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Category 14 emissions are excluded from the inventory. Tenneco does not have any franchises

Investments

Evaluation status Relevant, calculated

Emissions in reporting year (metric tons CO2e)

30753.007

Emissions calculation methodology

Average spend-based method

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

0

Please explain

Emissions are estimated based on total scope 1 & 2 emissions, applied to a ratio (Net assets of non-consolidated affiliates) / (Total assets - Total liabilities)

Other (upstream)

Evaluation status Please select

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Other (downstream)

Evaluation status Please select

Emissions in reporting year (metric tons CO2e) <Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>
Please explain

C6.5a

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

Past year 1

Start date January 1 2020

End date December 31 2020

Scope 3: Purchased goods and services (metric tons CO2e) 7387641.65

Scope 3: Capital goods (metric tons CO2e) 215287.269

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e) 279722.134

Scope 3: Upstream transportation and distribution (metric tons CO2e) 508959.013

Scope 3: Waste generated in operations (metric tons CO2e) 23504.097

Scope 3: Business travel (metric tons CO2e) 10201.288

Scope 3: Employee commuting (metric tons CO2e) 221595.304

Scope 3: Upstream leased assets (metric tons CO2e)

Scope 3: Downstream transportation and distribution (metric tons CO2e) 92709.413

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

Scope 3: Use of sold products (metric tons CO2e) 1651411.527

Scope 3: End of life treatment of sold products (metric tons CO2e) 161900.928

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e) 30366.106

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

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

Comment

CDP

Past year 2

Start date January 1 2019

End date December 31 2019

Scope 3: Purchased goods and services (metric tons CO2e) 8761969.71

Scope 3: Capital goods (metric tons CO2e) 285588.381

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e) 343448.637

Scope 3: Upstream transportation and distribution (metric tons CO2e) 679788.328

Scope 3: Waste generated in operations (metric tons CO2e) 26122.558

Scope 3: Business travel (metric tons CO2e) 44432.16

Scope 3: Employee commuting (metric tons CO2e) 347152.48

Scope 3: Upstream leased assets (metric tons CO2e)

Scope 3: Downstream transportation and distribution (metric tons CO2e) 86868.176

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

Scope 3: Use of sold products (metric tons CO2e) 1706054.923

Scope 3: End of life treatment of sold products (metric tons CO2e) 197881.515

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e) 27860.148

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

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

Comment

C6.7

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

C6.7a

(C6.7a) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

| | CO2 emissions from biogenic carbon (metric tons CO2) | Comment |
|-------|--|---------|
| Row 1 | 61.84 | |

C6.10

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

Intensity figure 0.0000738

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e) 1331586.49

Metric denominator

unit total revenue

Metric denominator: Unit total 18035000000

Scope 2 figure used Location-based

% change from previous year 8.72

Direction of change Decreased

Reason for change

Revenue went up from 2020 to 2021, while our sites were more energy efficient and engaged in more energy and emission reduction initiatives.

C7. Emissions breakdowns

C7.1

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

C7.1a

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

| Greenhouse gas | Scope 1 emissions (metric tons of CO2e) | GWP Reference |
|---|---|--|
| CO2 | 235167.73 | IPCC Fourth Assessment Report (AR4 - 100 year) |
| CH4 | 106.46 | IPCC Fourth Assessment Report (AR4 - 100 year) |
| N2O | 191.25 | IPCC Fourth Assessment Report (AR4 - 100 year) |
| Other, please specify (Remaining emissions from estimations where all GHGs are represented, but not possible to display individually) | 6389.11 | IPCC Fourth Assessment Report (AR4 - 100 year) |

C7.2

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

| Country/Region | Scope 1 emissions (metric tons CO2e) |
|---|--------------------------------------|
| Australia | 3682.3 |
| Belgium | 4185.81 |
| Brazil | 3317.21 |
| Canada | 3086.78 |
| China | 11180.48 |
| France | 5586.86 |
| Germany | 46466.85 |
| India | 7893.7 |
| Japan | 23.7 |
| Mexico | 27043.64 |
| Poland | 17742.89 |
| South Africa | 294.38 |
| Spain | 2505.23 |
| Thailand | 45.82 |
| United Kingdom of Great Britain and Northern Ireland | 5573.29 |
| United States of America | 73485.59 |
| Argentina | 1191.59 |
| Republic of Korea | 635.07 |
| Czechia | 5371.34 |
| Italy | 3800.77 |
| Philippines | 0.1 |
| Portugal | 3.64 |
| Romania | 2795.86 |
| Russian Federation | 2706.9 |
| Hungary | 555.76 |
| Turkey | 6289.54 |
| Other, please specify (Remaining emissions from estimations where all GHGs are represented, but not possible to display individually) | 6389.45 |

C7.3

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

C7.3a

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

| Business division | Scope 1 emissions (metric ton CO2e) |
|---|-------------------------------------|
| Clean Air Division | 23544.45 |
| Motorparts Division | 27759.7 |
| Powertrain Division | 115845.54 |
| Performance Solutions Division | 68219.94 |
| Corporate | 95.37 |
| Remaining emissions from estimations where all GHGs are represented, but not possible to display individually | 6389.55 |

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

| Country/Region | Scope 2, location-based (metric tons CO2e) | Scope 2, market-based (metric tons CO2e) |
|---|--|---|
| Argentina | 2541.34 | 2541.34 |
| Australia | 4703.59 | 4703.59 |
| Belgium | 4595.75 | 4155.58 |
| Brazil | 9298.77 | 9298.77 |
| Canada | 2101.6 | 2101.6 |
| China | 156351.14 | 155163.541 |
| Czechia | 22249.84 | 27146.096 |
| France | 2777.17 | 2522.692 |
| Germany | 119072.38 | 36850.857 |
| Hungary | 1962.74 | 2383.254 |
| India | 111623.88 | 80203.277 |
| Japan | 2218.38 | 2218.38 |
| Mexico | 101089.97 | 101089.97 |
| Poland | 109126.99 | 139454.573 |
| Portugal | 281.97 | 335.63 |
| Russian Federation | 13208.37 | 13208.37 |
| South Africa | 17354.32 | 17354.32 |
| Republic of Korea | 10736.6 | 10736.6 |
| Spain | 6304.18 | 8082.511 |
| Thailand | 11067.98 | 11067.98 |
| United Kingdom of Great Britain and Northern Ireland | 9382.01 | 9027.222 |
| United States of America | 268209.43 | 273228.026 |
| Viet Nam | 1375.29 | 1375.29 |
| Morocco | 808.94 | 808.94 |
| Italy | 8398.92 | 13435.736 |
| Philippines | 305.25 | 305.25 |
| Romania | 6527.8 | 5352.567 |
| Sweden | 156.12 | 914.382 |
| Taiwan, China | 3.6 | 3.6 |
| Turkey | 77571.5 | 77571.5 |
| Other, please specify (Remaining emissions from estimations where all GHGs are represented, but not possible to display individually) | 8326 | 9456 |

C7.6

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

C7.6a

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

| Business division | Scope 2, location-based (metric tons CO2e) | Scope 2, market-based (metric tons CO2e) |
|------------------------------------|--|--|
| Clean Air Division | 111879.52 | |
| Motorparts Division | 74998.71 | |
| Powertrain Division | 652717.72 | |
| Performance Solutions | 240165.4 | |
| Corporate | 1029.22 | |
| Corporate | 1029.22 | |
| Remaining emissions from estimates | 7912.15 | |

C7.9

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

C7.9a

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

| | Change in emissions (metric tons CO2e) | Direction of change | Emissions value (percentage) | Please explain calculation |
|--|---|--------------------------------------|------------------------------------|---|
| Change in renewable energy consumption | | <not Applicable ></not | | Revenue went up from 2020 to 2021, while our sites were more energy efficient and engaged in more energy and emission reduction initiatives. |
| Other emissions reduction activities | 316.02 | Decreased | 0.025 | Based on emission savings projects and activities completed in 2021. Number represents a portion of emission saved from reduction activities, as not all projects had an available savings estimate. |
| Divestment | 4679.53 | Decreased | 0.37 | Emissions avoided as a result of divestment of sites from the portfolio. |
| Acquisitions | 0 | No change | | N/A |
| Mergers | 0 | No change | | N/A |
| Change in output | 92673.55 | Increased | 7.45 | Total emissions reduction related to site closures, carbon reduction activities that are not separately quantifiable in the category. Following the decrease in work hours in 2020 related to the global COVID-19 pandemic, there was a 16.3% increase in the total global number of hours worked (as reported in our Sustainability report), in 2021 compared to 2020. This led to an increase in total emissions. |
| Change in methodology | 0 | No change | | Not able to currently attribute emissions directly to this reason due to lack of traceability of the precise changes at this time. |
| Change in boundary | 0 | No change | | Not able to currently attribute emissions directly to this reason due to lack of traceability of the precise changes at this time. |
| Change in physical operating conditions | 0 | No change | | Not able to currently attribute emissions directly to this reason due to lack of traceability of the precise changes at this time. |
| Unidentified | | <not Applicable ></not | | |
| Other | | <not Applicable</not | | |

C7.9b

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

Location-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy? More than 0% but less than or equal to 5%

C8.2

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

| | Indicate whether your organization undertook this energy-related activity in the reporting year |
|--|---|
| Consumption of fuel (excluding feedstocks) | Yes |
| Consumption of purchased or acquired electricity | Yes |
| Consumption of purchased or acquired heat | Yes |
| Consumption of purchased or acquired steam | Yes |
| Consumption of purchased or acquired cooling | Yes |
| Generation of electricity, heat, steam, or cooling | Yes |

C8.2a

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

| | Heating value | MWh from renewable sources | MWh from non-renewable sources | Total (renewable and non-renewable) MWh |
|---|----------------------------|----------------------------|--------------------------------|---|
| Consumption of fuel (excluding feedstock) | HHV (higher heating value) | 144.28 | 1303640.56 | 1303784.84 |
| Consumption of purchased or acquired electricity | <not applicable=""></not> | 352482.4 | 2042026.18 | 2394508.58 |
| Consumption of purchased or acquired heat | <not applicable=""></not> | 0 | 24720.02 | 24720.02 |
| Consumption of purchased or acquired steam | <not applicable=""></not> | 0 | 8288.67 | 8288.67 |
| Consumption of purchased or acquired cooling | <not applicable=""></not> | 0 | 7.49 | 7.49 |
| Consumption of self-generated non-fuel renewable energy | <not applicable=""></not> | 901.85 | <not applicable=""></not> | 901.85 |
| Total energy consumption | <not applicable=""></not> | 353528.53 | 3378682.92 | 3732211.45 |

C8.2b

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

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

C8.2c

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

Sustainable biomass

Heating value HHV

- Total fuel MWh consumed by the organization 144.3

144.0

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

- MWh fuel consumed for self-generation of steam <Not Applicable>
- MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

Other biomass

Heating value

HHV

Total fuel MWh consumed by the organization 87.92

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Please select

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

Coal

Heating value Please select

Total fuel MWh consumed by the organization

MWh fuel consumed for self-generation of electricity 0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

Oil

Heating value HHV

Total fuel MWh consumed by the organization 52079.12

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

Gas

Heating value

Total fuel MWh consumed by the organization 1249890.28

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

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

Heating value

Please select

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration 0

Comment

Total fuel

Heating value

HHV

Total fuel MWh consumed by the organization 1303872.75

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

Comment

C8.2d

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

| | Total Gross generation (MWh) | Generation that is consumed by the organization (MWh) | Gross generation from renewable sources (MWh) | Generation from renewable sources that is consumed by the organization (MWh) |
|-------------|---------------------------------|---|--|---|
| Electricity | 901.85 | 0 | 901.85 | 901.85 |
| Heat | 0 | 0 | 0 | 0 |
| Steam | 0 | 0 | 0 | 0 |
| Cooling | 0 | 0 | 0 | 0 |

C8.2e

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

Sourcing method

Direct procurement from an off-site grid- connected generator e.g. Power purchase agreement (PPA)

Energy carrier

Electricity

Low-carbon technology type Please select

Country/area of low-carbon energy consumption Germany

Tracking instrument used Please select

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh) 283235.69

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

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

Comment

Sourcing method Green electricity products from an energy supplier (e.g. green tariffs)

Energy carrier Electricity

Low-carbon technology type Please select

Country/area of low-carbon energy consumption China

Tracking instrument used Please select

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh) 2430.04

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

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

Comment

Sourcing method

Direct procurement from an off-site grid- connected generator e.g. Power purchase agreement (PPA)

Energy carrier

Low-carbon technology type Please select

Country/area of low-carbon energy consumption China

Tracking instrument used Please select

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh) 102.15

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

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

Comment

Sourcing method Unbundled energy attribute certificates (EACs) purchase

Energy carrier Electricity

Low-carbon technology type Please select

Country/area of low-carbon energy consumption Spain

Tracking instrument used Please select

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh) 4409.18

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

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

Comment

Sourcing method Unbundled energy attribute certificates (EACs) purchase

Energy carrier Electricity

Low-carbon technology type Please select

Country/area of low-carbon energy consumption United Kingdom of Great Britain and Northern Ireland Tracking instrument used Please select Low-carbon energy consumed via selected sourcing method in the reporting year (MWh) 19031.1 Country/area of origin (generation) of the low-carbon energy or energy attribute Please select Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering) Comment Sourcing method Direct procurement from an off-site grid- connected generator e.g. Power purchase agreement (PPA) Energy carrier Electricity Low-carbon technology type Please select Country/area of low-carbon energy consumption India Tracking instrument used Please select Low-carbon energy consumed via selected sourcing method in the reporting year (MWh) 43274.35 Country/area of origin (generation) of the low-carbon energy or energy attribute Please select Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering) Comment

C8.2g

(C8.2g) Provide a breakdown of your non-fuel energy consumption by country.

Country/area

Argentina Consumption of electricity (MWh)

8824.15

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated] 8824.15

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Australia

Consumption of electricity (MWh) 6838.62

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 6838.62

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Belgium

Consumption of electricity (MWh) 27668.82

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 27668.82

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Brazil

Consumption of electricity (MWh) 89069.47

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 89069.47

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Canada

Consumption of electricity (MWh) 16191.13

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 16191.13

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area China

Consumption of electricity (MWh) 246850.3

Consumption of heat, steam, and cooling (MWh) 5610.06

Total non-fuel energy consumption (MWh) [Auto-calculated] 252460.36

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Czechia

Consumption of electricity (MWh) 44852.3

Consumption of heat, steam, and cooling (MWh) 10588.53

Total non-fuel energy consumption (MWh) [Auto-calculated] 55440.83

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area

Denmark

Consumption of electricity (MWh) 81.6

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 81.6

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area France

Consumption of electricity (MWh) 51620.47

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated] 51620.47

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Germany

Consumption of electricity (MWh) 341266.1

Consumption of heat, steam, and cooling (MWh) 4483.46

Total non-fuel energy consumption (MWh) [Auto-calculated] 345749.56

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Hungary

Consumption of electricity (MWh) 8570.99

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 8570.99

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area India

Consumption of electricity (MWh) 153731.98

Consumption of heat, steam, and cooling (MWh)

Total non-fuel energy consumption (MWh) [Auto-calculated] 153731.98

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area

Italy

Consumption of electricity (MWh) 29356.83

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 29356.83

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Japan

Consumption of electricity (MWh) 4538.44

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated] 4538.44

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Mexico

Consumption of electricity (MWh) 253741.94

Consumption of heat, steam, and cooling (MWh) 0 Total non-fuel energy consumption (MWh) [Auto-calculated] 253741.94

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Morocco

Consumption of electricity (MWh) 1157.47

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 1157.47

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Philippines

Consumption of electricity (MWh) 452

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 452

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Poland

Consumption of electricity (MWh) 163389.5

Consumption of heat, steam, and cooling (MWh)

Total non-fuel energy consumption (MWh) [Auto-calculated] 163389.5

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Portugal

Consumption of electricity (MWh) 1187.81

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 1187.81

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Romania

Consumption of electricity (MWh) 18910.31

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 18910.31

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Russian Federation

Consumption of electricity (MWh) 29182.05 Consumption of heat, steam, and cooling (MWh) 12334.17

Total non-fuel energy consumption (MWh) [Auto-calculated] 41516.22

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Singapore

Consumption of electricity (MWh) 12.86

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 12.86

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area South Africa

Consumption of electricity (MWh) 18529.2

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 18529.2

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Republic of Korea

Consumption of electricity (MWh) 20755.26

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 20755.26

Is this consumption excluded from your RE100 commitment? <Not Applicable>

Country/area Spain

Consumption of electricity (MWh) 31647.78

Consumption of heat, steam, and cooling (MWh) 0

Total non-fuel energy consumption (MWh) [Auto-calculated] 31647.78

Is this consumption excluded from your RE100 commitment? <Not Applicable>

C9. Additional metrics

C9.1

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

C10. Verification

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

| | Verification/assurance status |
|--|--|
| Scope 1 | No third-party verification or assurance |
| Scope 2 (location-based or market-based) | No third-party verification or assurance |
| Scope 3 | No third-party verification or assurance |

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5? No, but we are actively considering verifying within the next two years

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)? No, but we anticipate being regulated in the next three years

C11.1d

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

This EU's Emissions Trading System (EU ETS) is only applicable to a select number of sites across our European portfolio and not applicable to all Tenneco operations.

We have an operational estate for which we will likely need to formally purchase EU emissions allowances in the next three years (currently the key estates eligible for the cap-and-trade system have operated within their emissions targets and EU Commission free allowances; as such not yet needing to purchase our own allowances). We are aware, however, given we monitor energy usage and generation capacity across our estate closely, that we will likely need to make EU ETS allowances purchases for sites in the near future if we are not able to reduce emissions sufficiently, in line with the reducing emissions cap.

In addition, Tenneco expect to be regulated by the upcoming Carbon Border Adjustment Mechanism (CBAM) which is designed to function in parallel with the EU's Emissions Trading System (EU ETS).

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period? No

C11.3

(C11.3) Does your organization use an internal price on carbon? No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues? Yes, our suppliers Yes, our customers/clients

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

Type of engagement

Engagement & incentivization (changing supplier behavior)

Details of engagement

Other, please specify (Environmental topics are integrated into supplier evaluation processes)

% of suppliers by number

15

% total procurement spend (direct and indirect)

79

0

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

Rationale for the coverage of your engagement Tenneco is firmly committed to ethical business practices and to full compliance with all applicable laws, regulations, and rules, including those concerning anti-bribery/anticorruption, antitrust, trade, and conflicts of interest. In 2021, Tenneco published a new Supplier Code of Conduct that outlines our requirements to our suppliers including

corruption, antitrust, trade, and conflicts of interest. In 2021, Tenneco published a new Supplier Code of Conduct that outlines our requirements to our suppliers including environmental, social and governance topics. Tenneco requires suppliers to commit to those same standards, as embodied in Tenneco's Supplier Code of Conduct, which includes environmental sustainability requirements.

Impact of engagement, including measures of success

We strive to contribute to a more efficient, responsible supply chain. As part of our strategy, we aim to include our own suppliers in our efforts to increase sustainability and deliver value for our customers. By reducing waste and greenhouse gas emissions in our supply chain, we can increase our efficiency to generate savings along our value chain and improve our business success. We screen our direct material suppliers during the onboarding process using specific environmental criteria. To drive our sustainable growth, we continue to implement processes to track the performance of our suppliers while fostering a culture of innovation to support improvements. As we progress, we aim to collaborate with our suppliers to mitigate supply chain risks. Our goal is to have 100% of our top sustainability "high-risk" and/or "high-impact" suppliers complete a sustainability self-assessment questionnaire by the end of 2022. With this information, we will enable more responsible growth and targeted improvements for our suppliers. As part of our supplier training programme also encourage all our suppliers to take the AIAG Supply Chain Sustainability Knowledge Assessment and the AIAG Supply Chain Sustainability e-Learning.

Comment

Tenneco is firmly committed to ethical business practices and to full compliance with all applicable laws, regulations, and rules, including those concerning anti-bribery/anticorruption, antitrust, trade, and conflicts of interest. Tenneco requires suppliers to commit to those same standards, as embodied in Tenneco's Supplier Code of Conduct (available on our website).

Type of engagement

Engagement & incentivization (changing supplier behavior)

Details of engagement

Other, please specify (Environmental topics are integrated into supplier evaluation processes)

% of suppliers by number

15

% total procurement spend (direct and indirect)

79

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

0

Rationale for the coverage of your engagement

Tenneco is firmly committed to ethical business practices and to full compliance with all applicable laws, regulations, and rules, including those concerning anti-bribery/anticorruption, antitrust, trade, and conflicts of interest. In 2021, Tenneco published a new Supplier Code of Conduct that outlines our requirements to our suppliers including environmental, social and governance topics. Tenneco requires suppliers to commit to those same standards, as embodied in Tenneco's Supplier Code of Conduct, which includes environmental sustainability requirements.

Impact of engagement, including measures of success

We strive to contribute to a more efficient, responsible supply chain. As part of our strategy, we aim to include our own suppliers in our efforts to increase sustainability and deliver value for our customers. By reducing waste and greenhouse gas emissions in our supply chain, we can increase our efficiency to generate savings along our value chain and improve our business success. We screen our direct material suppliers during the onboarding process using specific environmental criteria. To drive our sustainable growth, we continue to implement processes to track the performance of our suppliers while fostering a culture of innovation to support improvements. As we progress, we aim to collaborate with our suppliers to mitigate supply chain risks. Our goal is to have 100% of our top sustainability "high-risk" and/or "high-impact" suppliers complete a sustainability self-assessment questionnaire by the end of 2022. With this information, we will enable more responsible growth and targeted improvements for our suppliers. As part of our supplier training programme also encourage all our suppliers to take the AIAG Supply Chain Sustainability Knowledge Assessment and the AIAG Supply Chain Sustainability e-Learning.

Comment

Tenneco is firmly committed to ethical business practices and to full compliance with all applicable laws, regulations, and rules, including those concerning anti-bribery/anticorruption, antitrust, trade, and conflicts of interest. Tenneco requires suppliers to commit to those same standards, as embodied in Tenneco's Supplier Code of Conduct (available on our website).

C12.1b

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

Type of engagement & Details of engagement

| Education/information sharing | Share information about your products and relevant certification schemes (i.e. Energy STAR) |
|-------------------------------|---|
|-------------------------------|---|

% of customers by number

3

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

0

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

In addition to general communications like our Supplier Code of Conduct with our supply base, we have more focused engagement with our largest customers that represent the majority of our business revenue. Our customers must align with current and emerging technologies for fuel efficiency standards. As a part of our marketing strategy, we share information and educate our customers on the technical innovation features of our products that improve fuel efficiencies. Additionally, for large customers we have engaged and participated in their partnership, training and collaboration programmes on environmental sustainability issues.

Impact of engagement, including measures of success

Impact of our engagement is measured by our revenue and sales. Our track record of growth which outpaces the industry standard demonstrates the success of our communication and engagement with customers on topics related to the innovative nature of our energy efficient components. Examples of our engagements with large clients include: 1) We participate in Ford's Partnership for a Cleaner Environment program annually 2) Host customer technology days and step-level meeting with customers annually 3) Participate in customer Sustainability initiatives, e.g., BMW Sustainability Training for Suppliers, Scania Sustainability Supplier Day annually 4) Participate in Automotive REACH Task Force annually as a result of our efforts across our environmental, social and governance work, we have been accoladed as one of America's Most Responsible Companies 2021 for which we are in the top 300 out of the assessed 2000 largest public companies in the U.S.

Type of engagement & Details of engagement

Collaboration & Other, please specify (We collaborate with customers to advance solutions for more efficient vehicle technologies. This includes not only electric vehicles, but hydrogen and synthetic fuel solutions as well.)

% of customers by number

3

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

0

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

In addition to general communications like our Supplier Code of Conduct with our supply base, we have more focused engagement with our largest customers that represent the majority of our business revenue. Besides electrification, the use of so-called "green hydrogen", produced with renewable energy, is a viable solution to achieve climate-neutral mobility. Hydrogen can be used as fuel in combustion engines and in fuel cells. Synthetic fuels for motor vehicles can play an important role in achieving near-zero emissions mobility by using renewable energy sources to create a closed CO2 cycle when viewed from a holistic "well-to-wheel" perspective. Developing a climate-neutral alternative to petroleum-based fuels allows Tenneco's Clean Air experts to better manage remaining pollutants through the aftertreatment process while offering the potential for reducing overall emissions. Synthetically produced, climate-neutral synthetic fuels (e-fuels) are particularly suitable for vehicles with traditional ICEs as well as alternative powertrains such as hybrids. Additionally, the e-fuels can be made available to consumers by using mostly existing, well-developed fuel distribution and filling station infrastructure with only minor adjustments, making the technology even more appealing as a near-term, fast-to-market solution.

Impact of engagement, including measures of success

We continue to advance solutions for more efficient vehicle technologies, and our overall business still benefits from the market transitions because of the range of our capabilities. As we enhance efficiency by supplying components for light electric vehicles, we have the flexibility to continue improving efficiency through the internal combustion engine in the commercial truck and off-highway segment. An increasing portion of our business supports this growing segment that may not become electric as quickly as the light vehicle segment.

C12.2

(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process? Yes, climate-related requirements are included in our supplier contracts (C12.2a) Provide details of the climate-related requirements that suppliers have to meet as part of your organization's purchasing process and the compliance mechanisms in place.

Climate-related requirement

Implementation of emissions reduction initiatives

Description of this climate related requirement

Our Supplier Code of Conduct outlines our expectations and requirements when onboarding suppliers. The supplier code includes specifics on environmental sustainability, including: Energy Use and Emissions: Implement an energy reduction strategy that includes increasing its use of renewable energy to support Tenneco's objective to reduce greenhouse gas and emissions through the supply chain. Even if not specifically referenced within our contracts, the supplier code of conduct is typically referenced within our Terms and Conditions

% suppliers by procurement spend that have to comply with this climate-related requirement

79

% suppliers by procurement spend in compliance with this climate-related requirement

79

Mechanisms for monitoring compliance with this climate-related requirement Supplier scorecard or rating

Response to supplier non-compliance with this climate-related requirement Retain and engage

C12.3

(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?

Row 1

Direct or indirect engagement that could influence policy, law, or regulation that may impact the climate Yes, we engage indirectly through trade associations

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement? No, and we do not plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

Describe the process(es) your organization has in place to ensure that your engagement activities are consistent with your overall climate change strategy Activities are coordinated with the ESG team and/or Council

Primary reason for not engaging in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate <Not Applicable>

Explain why your organization does not engage in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate <Not Applicable>

C12.3b

(C12.3b) Provide details of the trade associations your organization engages with which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Other, please specify (Motor & Equipment Manufacturers Association (MEMA))

Is your organization's position on climate change consistent with theirs? Consistent

Has your organization influenced, or is your organization attempting to influence their position? We have already influenced them to change their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

MEMA represents more than 1,000 members that manufacture motor vehicle components and systems for the original equipment and aftermarket segments of the light vehicle and heavy-duty industries. One of MEMA's divisions, The Association for Sustainable Manufacturing, contributes to the Energy & Environment policy agenda through letters, comment and testimony. Recently, Tenneco has participated in the working group that developed a comment letter for the SEC's proposed climate disclosure rule.

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement? No, we have not evaluated

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication

In voluntary sustainability report

Status Complete

Attach the document

tenneco-2021-sustainability-report.pdf

Page/Section reference

Sections - 'Our Governance' / 'Our Planet' / "Supply Chain Management"; Our Products

Content elements

Governance Strategy Risks & opportunities Emissions figures Emission targets

Comment

Publication In mainstream reports

Status

Complete
Attach the document

2021-form-10-k.pdf

Page/Section reference

Sections: 'Safe Harbor', 'Business' 'Risk factors' and 'Management's Discussion and Analysis of Financial Condition and Results of Operations'.

Content elements Governance Strategy Risks & opportunities

Comment

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

| | Board-level oversight and/or executive management-level responsibility for biodiversity-related issues | Description of oversight and objectives relating to biodiversity | Scope of board-level oversight |
|----------|--|---|-----------------------------------|
| Row 1 | Please select | <not applicable=""></not> | <not applicable=""></not> |

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

| | Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity | Biodiversity-related public commitments | Initiatives endorsed |
|-------|---|---|---------------------------|
| Row 1 | Please select | <not applicable=""></not> | <not applicable=""></not> |

C15.3

(C15.3) Does your organization assess the impact of its value chain on biodiversity?

| | Does your organization assess the impact of its value chain on biodiversity? | Portfolio |
|-------|--|---------------------------|
| Row 1 | Please select | <not applicable=""></not> |

C15.4

(C15.4) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

| | Have you taken any actions in the reporting period to progress your biodiversity-related commitments? | Type of action taken to progress biodiversity- related commitments |
|-------|---|--|
| Row 1 | Please select | <not applicable=""></not> |

C15.5

(C15.5) Does your organization use biodiversity indicators to monitor performance across its activities?

| | Does your organization use indicators to monitor biodiversity performance? | Indicators used to monitor biodiversity performance |
|-------|--|---|
| Row 1 | Please select | Please select |

C15.6

(C15.6) Have you published information about your organization's response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Attach the document and indicate where in the document the relevant biodiversity information is located

Report type Content elements

C16. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

C16.1

(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

| | Job title | Corresponding job category |
|-------|------------------------------------|------------------------------------|
| Row 1 | Chief Sustainability Officer (CSO) | Chief Sustainability Officer (CSO) |

SC. Supply chain module

SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

SC0.1

(SC0.1) What is your company's annual revenue for the stated reporting period?

| | Annual Revenue |
|-------|----------------|
| Row 1 | 18035000000 |

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Requesting member BMW AG

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 8706.76

Uncertainty (±%)

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member BMW AG

Scope of emissions Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 39230.35

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member Daimler Truck AG

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 4353.38

Uncertainty (±%) 100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Daimler Truck AG

Scope of emissions

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 19615.17

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

riease select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Ford Motor Company

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 18139.09

Uncertainty (±%)

100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Ford Motor Company

Scope of emissions Scope 2

Allocation level

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 81729.9

Uncertainty (±%) 100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

General Motors Company

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

· · · · · · · ·

Emissions in metric tonnes of CO2e 21766.91

Uncertainty (±%)

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

General Motors Company

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 98075.87

Uncertainty (±%)

100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Mercedes-Benz Group AG

Scope of emissions Scope 1

Allocation level

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 10641.6

Uncertainty (±%)

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer. A percentage of 1.7% 2020 Value Added Revenue has been applied to estimate emissions assosiated with this customer - due to restricted visability on customers with VA revenue below 1.7% of Tenneco's total 2020 VA revenue.

Requesting member Mercedes-Benz Group AG

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 47948.21

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer. A percentage of 1.7% 2020 Value Added Revenue has been applied to estimate emissions assosiated with this customer - due to restricted visability on customers with VA revenue below 1.7% of Tenneco's total 2020 VA revenue.

Requesting member

Mitsubishi Motors Corporation

Scope of emissions Scope 1

Allocation level

Please select

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 2015.45

Uncertainty (±%)

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Mitsubishi Motors Corporation

Scope of emissions Scope 2

Allocation level

Company wide

Allocation level detail

Emissions in metric tonnes of CO2e 9081.1

9001.1

Uncertainty (±%)

100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Nissan Motor Co., Ltd.

Scope of emissions Scope 1

Allocation level

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 2015.45

Uncertainty (±%) 100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Nissan Motor Co., Ltd.

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail <Not Applicable>

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Emissions in metric tonnes of CO2e 9081.1

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Renault Group

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 2015.45

Uncertainty (±%)

100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member Renault Group

Renault Group

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 9081.1

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member Stellantis N.V.

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 15720.55

Uncertainty (±%)

100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer. A percentage of 1.7% 2020 Value Added Revenue has been applied to estimate emissions assosiated with this customer - due to restricted visability on customers with VA revenue below 1.7% of Tenneco's total 2020 VA revenue.

Requesting member Stellantis N.V.

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 70832.58

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer. A percentage of 1.7% 2020 Value Added Revenue has been applied to estimate emissions assosiated with this customer - due to restricted visability on customers with VA revenue below 1.7% of Tenneco's total 2020 VA revenue.

Requesting member

Toyota Motor Corporation

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 4837.09

Uncertainty (±%) 100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Toyota Motor Corporation

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 21794.64

Uncertainty (±%) 100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Advance Auto Parts Inc

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 4111.53

Uncertainty (±%)

100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Advance Auto Parts Inc

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 18525.44

Uncertainty (±%)

100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

Please select

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

CNH Industrial NV Scope of emissions

Scope 1

Allocation level Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 4111.53

Uncertainty (±%)

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member CNH Industrial NV

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 18525.44

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Jaguar Land Rover Automotive plc

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 4111.53

Uncertainty (±%)

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Jaguar Land Rover Automotive plc

Scope of emissions Scope 2

Allocation level

Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 18525.44

Uncertainty (±%)

100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Magna International Inc

Scope of emissions Scope 1

Allocation level

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 4111.53

Uncertainty (±%) 100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Magna International Inc.

Scope of emissions Scope 2

Allocation level Company wide

Allocation level detail

Emissions in metric tonnes of CO2e 18525.44

10020111

Uncertainty (±%) 100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Robert Bosch GmbH

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e

4111.53

Uncertainty (±%)

100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Robert Bosch GmbH

Scope of emissions Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 18525.44

Uncertainty (±%)

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member Volvo Car Group

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 4111.53

Uncertainty (±%) 100

Major sources of emissions

Verified

Please select

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member

Volvo Car Group

Scope of emissions

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e 18525.44

Uncertainty (±%) 100

Major sources of emissions

Electricity used to drive production equipment. Production equipment includes boilers, chillers, thermal oxidizers, furnaces/ovens, air compressors, pumps, and motors.

Verified

Please select

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

Requesting member Walmart, Inc.

Scope of emissions Scope 1

Allocation level Company wide

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e

4111.53

Uncertainty (±%) 100

Major sources of emissions

Natural gas used to drive production and other equipment, including furnaces, ovens, boilers, and thermal oxidizers.

Verified

No

Allocation method

Other, please specify (Allocation based on percentage of 2021 Value Added Revenue in line with 2021 emissions totals. Where not possible to attribute exact Value Added Revenue an assumption has been made.)

Market value or quantity of goods/services supplied to the requesting member

Unit for market value or quantity of goods/services supplied Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

The Greenhouse Gas (GHG) Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) provides the overarching methodology for Tenneco's GHG inventory. The operational control approach is used to define the Scope 1 and Scope 2 emissions included in our inventory. The GHG sources listed above are from Scope 1 and 2 reporting for vehicles and facilities. Scope 2 emissions reported are location-based. Allocations were generated to quantify customer level emissions as requested, however variability in this approach exists as current metric tracking capabilities include total company wide emissions instead of by customer.

SC1.2

(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

SC1.3

(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

| Allocation challenges | Please explain what would help you overcome these challenges |
|---|---|
| Diversity of product lines makes accurately accounting for each product/product line cost ineffective | The operations of our businesses and support lines are highly integrated, utilizing a central shared services infrastructure for many functions. As a result, the only feasible means for us to allocate emissions to our customers is to use corporate level data, rather than business line or facility level data. |

SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future? Yes

SC1.4a

(SC1.4a) Describe how you plan to develop your capabilities.

We are currently in the process of integrating a new environmental software platform in which we believe will be able to allocate the emissions to our customers. This is however a complex process that require us to track production percentages for customer and therefore will not be available in the short term.

SC2.1

(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.

SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives? Yes

SC2.2a

(SC2.2a) Specify the requesting member(s) that have driven organizational-level emissions reduction initiatives, and provide information on the initiatives.

Requesting member

Please select

Initiative ID Please select

Group type of project Please select

Type of project Please select

Description of the reduction initiative

Example of our engagements include: 1) We participate in Ford's Partnership for a Cleaner Environment program annually 2) Host customer technology days and steplevel meeting with customers annually 3) Participate in customer Sustainability initiatives, e.g., BMW Sustainability Training for Suppliers, Scania Sustainability Supplier Day annually 4) Participate in Automotive REACH Task Force annually

Emissions reduction for the reporting year in metric tons of CO2e

Would you be happy for CDP supply chain members to highlight this work in their external communication? Please select

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services? No, I am not providing data

Submit your response

In which language are you submitting your response? English

Please confirm how your response should be handled by CDP

| | I understand that my response will be shared with all requesting stakeholders | Response permission |
|---------------------------------------|---|---------------------|
| Please select your submission options | Yes | Public |

Please confirm below

I have read and accept the applicable Terms