



LRQA Independent Assurance Statement

Relating to Trane Technologies GHG & EHS Data Calendar Year 2022

This Assurance Statement has been prepared for Trane Technologies (Trane Technologies Company LLC) in accordance with our contract.

Terms of Engagement

LRQA was commissioned by Trane Technologies to provide independent assurance on its assertion for the Calendar Year 2022 against the assurance criteria below to a limited level of assurance and a materiality based on the verifier's professional judgment using LRQA's verification procedure for non-GHG data and ISO 14064 - Part 3 for greenhouse gas (GHG) data. LRQA's verification procedure is based on current best practise and is in accordance with ISAE 3000 and ISAE 3410.

Our assurance engagement covered Trane Technologies' global operations and specifically the following requirements:

- Verifying conformance with World Resources Institute / World Business Council for Sustainable Development Greenhouse Gas Protocol: A corporate accounting and reporting standard, revised edition (otherwise referred to as the WRI/WBCSD GHG Protocol) for the GHG data¹;
- Reviewing whether the assertion has taken account of the GRI Standards for non-GHG data;
- Evaluating the accuracy and reliability of data and information for only the selected indicators listed below:
 - Direct (Scope 1), Energy Indirect (Scope 2) and Other Indirect (Scope 3) GHG emissions.
 - Scope 3 GHG emissions verified by LRQA only include Business Air Travel and Use of Sold Products.
 - Energy use;
 - Water consumption;
 - Waste generated;
 - Volatile Organic Compounds (VOCs); and
 - Safety Metrics.

LRQA's responsibility is only to Trane Technologies. LRQA disclaims any liability or responsibility to others as explained in the end footnote. Trane Technologies' responsibility is for collecting, aggregating, analysing and presenting all the data and information within the assertion and for maintaining effective internal controls over the systems from which the assertion is derived. Ultimately, the assertion has been approved by, and remains the responsibility of Trane Technologies.

LRQA's Opinion

Based on LRQA's approach, except for the effect of the matters described in the Basis for Qualified Opinion, nothing has come to our attention that would cause us to believe that Trane Technologies has not, in all material respects:

- Met the requirements of the criteria listed above; and
- Disclosed accurate and reliable performance data and information as summarized in Table 1 below.

¹ <http://www.ghgprotocol.org/>



The opinion expressed is formed on the basis of a limited level of assurance² and at the materiality of the professional judgement of the verifier.

Basis for Qualified Opinion

- Non-hydrofluorocarbons (HFCs) and volatile organic compounds (VOCs) are included in the total direct GHG emissions. The inclusion of these non-Kyoto greenhouse gases is not material.
- Emissions from on-site solar generation were calculated at the grid average rather than 0 kg CO2e/kWh from solar generation. This qualification is not material.

Table 1. Summary of GHG Emissions

Scope	Value	Units
Scope 1 GHG Emissions	237,639	Metric Ton CO2e
Scope 2 GHG Emissions (Location-based)	124,057	Metric Ton CO2e
Scope 2 GHG Emissions (Market-based)	55,708	Metric Ton CO2e
Scope 3 – Business Air Travel	6,313	Metric Ton CO2e
Scope 3 – Use of Products Sold	302	Million Metric Ton CO2e

Table 2. Summary of Environmental Health and Safety (EHS) Metrics

EHS Metrics	Value	Units
Fuel Energy	1,868	Billion BTU
Electricity	1,040	Billion BTU
Total (Fuel + Electricity)	2,908	Billion BTU
Total Water Used	647	Million Gallons
Water Used at Stressed Water Locations	61	Million Gallons
Hazardous Waste Generated	1,004	Metric Tons
Non-Hazardous Waste Generated (including recyclables)	32,655	Metric Tons
Direct VOC Air Emissions	220	Metric Tons
Total Days Away From Work (DAFW)	0.14	per 200,000 hours
DAFW Employees	0.13	per 200,000 hours
DAFW Contingent & Temporary	0.27	per 200,000 hours
Total DAFW	0.69	Per million hours
DAFW Employees	0.64	Per million hours
DAFW Contingent & Temporary	1.35	Per million hours
Total Recordable Incident Rate	0.8	per 200,000 hours
Number of Fatalities	0	
Occupational Illness Frequency Rate	0	

Table 3. Trane Technologies Sites Operating with 100% Renewable Electricity for CY 2021

Location	Type	Location	Type
MFG-Grand Rapids MI-USA	Manufacturing	WHSE - St. Peters, MO-USA	Warehouse

² The extent of evidence-gathering for a limited assurance engagement is less than for a reasonable assurance engagement. Limited assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a limited assurance engagement is lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.



Location	Type	Location	Type
MFG-Marietta, OH-USA	Manufacturing	MFG-Arecibo-Puerto Rico	Manufacturing
MFG-Newberry, SC-USA	Manufacturing	MFG-Fremont, OH-USA	Manufacturing
MFG-Pueblo, CO-USA	Manufacturing	MFG-Hastings, NE-USA	Manufacturing
MFG-Rushville, IN-USA	Manufacturing	MFG-Barcelona-Spain	Manufacturing
MFG-Waco, TX-USA	Manufacturing	MFG-Essen-Germany	Manufacturing
MFG-Bari, Italy	Manufacturing	MFG-Galway-Ireland	Manufacturing
RD-IRETC-Prague-Czech Republic	Technology Center	MFG-Kolin-Czech Republic	Manufacturing
MFG-Tyler, TX-USA	Manufacturing	WHSE-Shannon-Ireland	Warehouse
MFG-Vidalia, GA-USA	Manufacturing	WHSE-Atlanta, GA-USA	Warehouse

LRQA’s Approach

LRQA’s assurance engagements are carried out in accordance with our verification procedure. The following tasks were undertaken as part of the evidence gathering process for this assurance engagement:

- reviewing of organizational boundaries, operational boundaries, and data management processes,
- interviewing relevant staff of the organization responsible for managing data and records,
- completing a strategic assessment/risk analysis of each data set to determine an adequate sample, and
- verifying data and records at an aggregated level for Calendar Year 2022.

LRQA’s Standards, Competence and Independence

LRQA implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 *Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition* and ISO/IEC 17021 *Conformity assessment – Requirements for bodies providing audit and certification of management systems* that are at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants.

LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

Signed

Dated: 29 March 2023

Marisol Bacong
 LRQA Lead Verifier
 On behalf of LRQA, Inc.1330 Enclave Pkwy #200, Houston, TX 77077

LRQA reference: UQA00001715/5855772



LRQA, its affiliates and subsidiaries, and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

The English version of this Assurance Statement is the only valid version. LRQA assumes no responsibility for versions translated into other languages.

This Assurance Statement is only valid when published with the assertion to which it refers. It may only be reproduced in its entirety.

Copyright © LRQA, 2021.