

Independent Limited Assurance Report to Trane Technologies plc

ERM Certification & Verification Services Incorporated (“ERM CVS”) was engaged by Trane Technologies plc (“Trane Technologies”) to provide limited assurance in relation to the selected information set out below and presented in the Trane Technologies 2023 ESG Report (the “Report”).

Engagement summary

Whether the 2023 information and data for the following selected disclosures are fairly presented in the Report, in all material respects, in accordance with the reporting criteria.

Greenhouse Gas (GHG) Emissions

KPI	Units
Total Scope 1 GHG emissions	metric tons CO ₂ e
Total Scope 2 (location-based)	metric tons CO ₂ e
Total Scope 2 (market-based)	metric tons CO ₂ e
Biogenic emissions	metric tons CO ₂ e
Scope 3 GHG emissions from the following individual categories: <ul style="list-style-type: none"> Category 6 – Business Travel (Air Travel only) Category 11 – Use of Sold Products 	metric tons CO ₂ e

EHS Metrics

KPI	Units
Fossil Fuel and Other Direct Energy Used	Billion Kilojoule
Biogenic Energy Used	Billion Kilojoule
Electricity Used	Billion Kilojoule
Total Energy Used	Billion Kilojoule
Total Water Used	Million Cubic Meters
Water Used at Water-Stressed Locations	Million Cubic Meters
Total Hazardous Waste Disposed	Metric Tons
Total Non-hazardous Waste Recycled and Disposed	Metric Tons
Direct VOC Air Emissions	Metric Tons
Total Days Away from Work (DAFW)	Days per 200,000 hours
DAFW Employees – 200,000 Hours Basis	Days per 200,000 hours
DAFW Contingent & Temporary Labor – 200,000 Hours Basis	Days per 200,000 hours
Total DAFW – 1 Million Hours Basis	Days per 1,000,000 hours
DAFW Employees – 1 Million Hours Basis	Days per 1,000,000 hours
DAFW Contingent & Temporary Labor – 1 Million Hours	Days per 1,000,000 hours
Total Recordable Incident Rate	Cases per 200,000 hours
Number of Fatalities	Number
Occupational Illness Frequency Rate	Number
Individual Locations that operated during 2023 directly or indirectly on 100% renewable electricity	List of locations

Scope of our assurance engagement

Reporting period

1st January 2023 to 31st December 2023

Reporting criteria

- Trane Technologies' Basis of Reporting
- The GHG Protocol Corporate Accounting and Reporting Standard (WBCSD/WRI Revised Edition 2015) for Scope 1 and Scope 2 GHG emissions
- GHG Protocol Scope 2 Guidance (An amendment to the GHG Protocol Corporate Standard (WRI 2015) for Scope 2 GHG emissions
- The Corporate Value Chain (Scope 3) Accounting and Reporting Standard (WBCSD/WRI 2011) for Scope 3 GHG emissions
- Applicable U.S. Occupational, Safety and Health Administration (OSHA) Regulations
- GRI 403: OCCUPATIONAL HEALTH AND SAFETY

Assurance standard and level of assurance

We performed a limited assurance engagement, in accordance with the International Standard on Assurance Engagements ISAE 3000 (Revised) 'Assurance Engagements other than Audits or Reviews of Historical Financial Information' issued by the International Auditing and Assurance Standards Board (IAASB).

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for a reasonable assurance engagement and consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

Respective responsibilities

Trane Technologies is responsible for preparing the Report and for the collection and presentation of the information within it, and for the designing, implementing and maintaining of internal controls relevant to the preparation and presentation of the Report.

ERM CVS' responsibility is to provide a conclusion to Trane Technologies on the agreed scope based on our engagement terms with Trane Technologies, the assurance activities performed and exercising our professional judgement.

Our conclusion

Based on our activities, as described below, nothing has come to our attention to indicate that the 2023 data and information for the disclosures listed under 'Scope' above are not fairly presented in the Report, in all material respects, in accordance with the reporting criteria.

Summary of Greenhouse Gas (GHG) Emissions

Scope	Value	Units	ESG Report Page #
Scope 1 GHG emissions	206,381	Metric tons of CO ₂ e	104
Scope 2 GHG emissions (location-based)	125,851	Metric tons of CO ₂ e	104
Scope 2 GHG emissions (market-based)	40,963	Metric tons of CO ₂ e	104
Biogenic GHG emissions	73.31	Metric tons of CO ₂ e	105
Scope 3 GHG emissions – Business Air Travel	9,958	Metric tons of CO ₂ e	105
Scope 3 GHG emissions – Use of Sold Products	266,323,874	Metric tons of CO ₂ e	105

Environmental Health and Safety (EHS) Metrics

Scope	Value	Units	ESG Report Page #
Fossil Fuel and Other Direct Energy Used	1,935	Billion kilojoules	105
Biogenic Energy Used	1.48	Billion kilojoules	105
Indirect Electricity Used	1,097	Billion kilojoules	105
Total Energy (Fuel + Biogenic + Electricity)	3,032	Billion kilojoules	105
Total Water Used	1.97	Million cubic meters	106
Water Used at Water-Stressed Locations	228,613	Cubic meters	106
Total Hazardous Waste Disposed	971	Metric tons	106

Total Non-hazardous Waste Recycled and Disposed	33,559	Metric tons	106
Direct VOCs	206.14	Metric tons	105
Total Days Away From Work (DAFW)	0.10	Per 200,000 hours	52 & 108
DAFW Employees	0.11	Per 200,000 hours	Not reported in ESG Report
DAFW Contingent & Temporary Labour	0.03	Per 200,000 hours	Not reported in ESG Report
Total DAFW	0.52	Per 1,000,000 hours	108
DAFW Employees	0.55	Per 1,000,000 hours	108
DAFW Contingent & Temporary Labour	0.17	Per 1,000,000 hours	108
Total Recordable Incident Rate	0.83	Per 200,000 hours	52 & 108
Number of Fatalities	0	N/A	108
Occupational Illness Frequency Rate	0	N/A	108

Sites Operating with 100% Renewable Electricity in 2023 (see page 106 of ESG Report)

Location	Type	Location	Type
Clarksville, TN-USA	Manufacturing	Trenton, NJ-USA	Manufacturing
Fairlawn, NJ-USA	Manufacturing	Tyler, TX-USA	Manufacturing
Ft. Smith, AR-USA	Manufacturing	Vidalia, GA-USA	Manufacturing
Grand Rapids MI-USA	Manufacturing	St. Peters, MO-USA	Distribution Center
Lynn Haven, FL-USA	Manufacturing	Atlanta, GA-USA	Distribution Center
Marietta, OH-USA	Manufacturing	Arecibo-Puerto Rico	Manufacturing
Newberry, SC-USA	Manufacturing	Freemont, OH-USA	Manufacturing
Noblesville, IN-USA	Manufacturing	Hastings, NE-USA	Manufacturing
Pueblo, CO-USA	Manufacturing	Barcelona-Spain	Manufacturing
Rushville, IN-USA	Manufacturing	Essen-Germany	Manufacturing
Waco, TX-USA	Manufacturing	Galway-Ireland	Manufacturing
Bari, Italy	Manufacturing	Kolin-Czech Republic	Manufacturing
Prague-Czech Republic	Technology Center	Shannon-Ireland	Distribution Center

Our assurance activities

Considering the level of assurance and our assessment of the risk of material misstatement of the Report, a multi-disciplinary team of sustainability and assurance specialists performed a range of procedures that included, but was not restricted to, the following:

- Conducting interviews with relevant staff to understand and evaluate the management systems and processes (including internal review and control processes) used for collecting and reporting the reported information;
- Reviewing a sample of corporate level qualitative and quantitative evidence supporting the reported information;
- Performing an analytical review of the year-end data submitted by all locations included in the consolidated 2023 group data for the reported information which included testing the completeness and mathematical accuracy of conversions and calculations, and consolidation in line with the stated reporting boundary;
- Conducting two virtual site visits to Trane Technologies facilities/production sites [Columbia, SC, USA and La Crosse, WI, USA] to review source data and local reporting systems and controls; and
- Evaluating the conversion and emission factors and assumptions used;

The limitations of our engagement

The reliability of the assured information is subject to inherent uncertainties, given the available methods for determining, calculating or estimating the underlying information. It is important to understand our assurance conclusions in this context.

Our independence, integrity and quality control

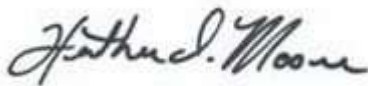
ERM CVS is an independent certification and verification body accredited by UKAS to ISO 17021:2015. Accordingly we maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. Our quality management system is at least as demanding as the relevant sections of ISQM-1 and ISQM-2 (2022).

ERM CVS applies a Code of Conduct and related policies to ensure that its employees maintain integrity, objectivity, professional competence and high ethical standards in their work. Our processes are designed and implemented to ensure that the work we undertake is objective, impartial and free from bias and conflict of interest. Our certified management system covers independence and ethical requirements that are at least as demanding as the relevant sections of the IESBA Code relating to assurance engagements.

ERM CVS has extensive experience in conducting assurance on environmental, social, ethical and health and safety information, systems and processes, and provides no consultancy-related services to Trane Technologies in any respect.

Emphasis of Matter

Without affecting the conclusion presented above, we draw attention to the inclusion of Non-hydrofluorocarbons (non-HFCs) and volatile organic compounds (VOCs) in the total direct (Scope 1) GHG emissions. The inclusion of these non-Kyoto greenhouse gases is not material.



Heather I. Moore
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April, 24, 2024

On behalf of:

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