

LRQA Independent Assurance Statement Relating to Trane Technologies and Ingersoll Rand Industrial GHG & EHS Data Calendar Year 2019

Terms of engagement

Lloyd's Register Quality Assurance, Inc. (LRQA) was commissioned by Ingersoll Rand Company ("Ingersoll Rand") (now known as "Trane Technologies") to assure the greenhouse gas (GHG) Emissions Inventory and other Environmental, Health, and Safety (EHS) Data for the calendar year 2019 (hereafter referred to as "the Assertion").

On February 29, 2020, Ingersoll Rand (comprised of an Industrial and Climate segment) went through a re-structuring. The Climate segment became known as Trane Technologies. The Industrial segment ("Ingersoll Rand Industrial") combined with Gardner Denver Holdings, Inc. ("Gardner Denver") and formed a new company ("Ingersoll-Rand Inc."). This Assertion includes data for Trane Technologies, Ingersoll Rand Industrial and the combined total of the two. It does not include any Gardner Denver related data.

The Assertion relates to direct GHG emissions (Scope 1), energy indirect GHG emissions (Scope 2), other indirect GHG emissions (Scope 3) for employee business travel, and EHS data. The EHS data include Energy Use, Water Use, Waste Data, VOC emissions, Total Lost Time Incident Rate, Total Recordable Incident Rate, Number of Fatalities, and Occupational Illness Frequency Rate.

LRQA's responsibility is only to Trane Technologies and Ingersoll Rand Industrial. LRQA disclaims any liability or responsibility to others as explained in the end footnote. Ingersoll Rand is responsible 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 and Ingersoll Rand Industrial.

LRQA's approach

Our verification of the direct, energy indirect and other indirect GHG emissions has been conducted in accordance with ISO 14064-3:2006, '*Specification with guidance for validation and verification of greenhouse gas assertions*' to provide limited assurance that GHG emissions data as presented in the Assertion have been prepared in conformance with the World Resources Institute / World Business Council for Sustainable Development Greenhouse Gas Protocol: A corporate accounting and reporting standard, revised edition (hereafter referred to as the WRI/WBCSD GHG Protocol).

Our verification of the EHS data has been conducted in accordance with LRQA's Verification Approach to provide limited assurance that the EHS data as presented in the Assertion have been prepared taking into consideration Trane Technologies and Ingersoll-Rand Inc. internal reporting processes and procedures.

The following tasks were undertaken as part of the evidence gathering process for this verification engagement:

- review of organizational boundaries, operational boundaries, and data management processes,
- interviews with 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 2019.

Level of Assurance & Materiality

The opinion expressed in this Assurance Statement has been formed on the basis of a limited level of assurance and at a materiality of the professional judgment of the Verifier.

LRQA's Opinion

Based on LRQA's approach, nothing has come to our attention that would cause us to believe that the direct GHG emissions, energy indirect GHG emissions, other indirect GHG emissions and EHS data, as summarized in Tables 1 and 2 below, are not materially correct or have not been prepared in conformance with the reporting criteria, except for the following qualification:

- 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.

Signed,

Dated: March 6, 2020



Ivor John, PhD
LRQA Lead Verifier
On behalf of LRQA, Inc.
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Table 1. Summary of Trane Technologies & Ingersoll Rand Industrial GHG Emissions CY 2019

Scope	Metric Tonnes CO _{2e} Trane Technologies	Metric Tonnes CO _{2e} Ingersoll Rand Industrial	Metric Tonnes CO _{2e} Combined
Direct (Scope 1)	304,586	38,539	343,125
Energy Indirect (Scope 2) (Location-based)	154,027	44,015	198,042
Energy Indirect (Scope 2) (Market-based)	141,753	52,684	194,437
Scope 3 (Air Travel)			30,340

1. Ingersoll Rand Industrial data does not include any Gardner Denver related data.

Table 2. Summary of Trane Technologies & Ingersoll Rand Industrial EHS Metrics CY 2019

EHS Metrics	Value Trane Technologies	Value Ingersoll Rand Industrial	Value Combined	Unit
Fuel Energy Use	1,757	353	2,111	Billion Btu
Electricity Energy Use	1,090	347	1,437	Billion Btu
Total Energy Use (Fuel + Electricity)	2,847	701	3,548	Billion Btu
Water Use	769	55	824	Million Gall
Hazardous Waste Generated	958	548	1,507	Metric Tonnes
Non-Hazardous Waste Generated (including recyclables)	33,958	10,650	44,607	Metric Tonnes
Direct VOCs Emissions	269	35	304	Metric Tonnes
Days Away From Work Rate (DAFW) (per 200,000 hours)	0.10	0.07	0.09	
Days Away From Work Rate (DAFW) (per 200,000 hours) - Employees	0.09	0.08	0.09	
Days Away From Work Rate (DAFW) (per 200,000 hours) - Contingent & Temporary	0.11	0.00	0.08	
Days Away From Work Rate (DAFW) (per million hours)	0.49	0.35	0.46	
Days Away From Work Rate (DAFW) (per million hours) - Employees	0.46	0.38	0.44	
Days Away From Work Rate (DAFW) (per million hours) - Contingent & Temporary	0.53	0.00	0.42	
Total Recordable Incident Rate (TRIR)	0.88	0.57	0.81	
Number of fatalities	0	0	0	
Occupational Illness Frequency Rate	0.00	0.00	0.00	

1. Ingersoll Rand Industrial data does not include any Gardner Denver related data.

2. All three DAFW rates are expressed as rates per 200,000 hours and also as rates for 1 million hours.

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