



Greenhouse gas emissions Verification Statement

21 December 2023

HAGIWARA ELECTRIC HOLDINGS CO., LTD.

Japan Management Association
GHG Certification Center
Senior Executive: Masahiro Hirakawa



1. Objective and Scope of Verification

Japan Management Association GHG Certification Center (JMACC) was commissioned by HAGIWARA ELECTRIC HOLDINGS CO., LTD. (hereinafter, referred to as “the Organization”) to conduct independent verification on a limited level of assurance. The scope of verification is the following greenhouse gas (GHG) emissions within the organizational boundary^{*1} in its fiscal year 2022 Monitoring Report (hereinafter, referred to as “the Report”) from 1 April 2022 to 31 March 2023.

- 1) SCOPE 1 GHG emissions;
Direct CO₂ emissions within the organizational boundary by using city gas and gasoline
- 2) SCOPE 2 GHG emissions;
Indirect CO₂ emissions within the organizational boundary by using electricity
- 3) SCOPE 3 GHG emissions;
CO₂ emissions within the category 1, 2, 3, 4, 5, 6 and 7 of SCOPE 3^{*2}

The objective of this verification is to confirm that the monitoring data in the Organization’s applicable scope have been correctly calculated and reported in line with the criteria of the monitoring procedure^{*3}, and to express our views as a third party. The Organization’s responsibility is to prepare the Report and report the monitoring data, and JMACC’s responsibility is to express our views on the monitoring data of the Report as a third party.

2. Procedure of Verification

The Report was verified by JMACC in accordance with requirement of ISO14064-3:2019 (Greenhouse gases Part 3: Specification with guidance for the verification and validation of greenhouse gas statements), and following processes were implemented:

- Assessment regarding to the information to specify the GHG emissions in the Report, monitoring procedure, monitoring system, and related documents
- Interviews with persons in charge of preparing the Report
- Verifying the evidence for confirmation of the accuracy of GHG emissions by sampling

3. Conclusion of Verification

Within the scope of the verification activities employing the methodologies mentioned above, nothing has come to our attention that caused us to believe that the Organization's GHG emissions in the Report were not calculated and reported in conformance with the criteria.

SCOPE	Verified GHG emissions (t-CO ₂ e)		Organizational boundary ^{※1}
SCOPE 1	288		HAGIWARA ELECTRIC HOLDINGS CO., LTD.
SCOPE 2^{※4}	Location-based 887	Market-based 969	HAGIWARA ELECTRONICS CO., LTD. HAGIWARA TECHNO SOLUTIONS CO., LTD. HAGIWARA HOKUTO TECHNO CO., LTD. Hagiwara America, Inc. Hagiwara (Shanghai) Co., Ltd. Hagiwara Electric Europe GmbH Singapore Hagiwara Pte. Ltd.
SCOPE 3	614,549		See below
Breakdown of SCOPE 3			
Category 1 ^{※5}	604,577		HAGIWARA ELECTRIC HOLDINGS CO., LTD. HAGIWARA ELECTRONICS CO., LTD.
Category 2	622		HAGIWARA TECHNO SOLUTIONS CO., LTD.
Category 3	193		HAGIWARA ELECTRIC HOLDINGS CO., LTD. HAGIWARA ELECTRONICS CO., LTD. HAGIWARA TECHNO SOLUTIONS CO., LTD. HAGIWARA HOKUTO TECHNO CO., LTD.
Category 4	8,732		HAGIWARA ELECTRONICS CO., LTD. HAGIWARA TECHNO SOLUTIONS CO., LTD.
Category 5	110		HAGIWARA ELECTRIC HOLDINGS CO., LTD.
Category 6	98		HAGIWARA ELECTRONICS CO., LTD.
Category 7	217		HAGIWARA TECHNO SOLUTIONS CO., LTD.
SCOPE1,2,3 (Total of above)	SCOPE 2: Location-based 615,724	SCOPE 2: Market-based 615,806	Organizational boundary^{※1} See above

NOTE:

- ※1 : Organizational boundary : HAGIWARA ELECTRIC Group (Total 16 sites)
- HAGIWARA ELECTRIC HOLDINGS CO., LTD. : Headquarters
 - HAGIWARA ELECTRONICS CO., LTD. : Headquarters, Kansai Sales Division, Miyoshi Distribution Center
 - HAGIWARA TECHNO SOLUTIONS CO., LTD. : Headquarters, Tokyo Branch, Kansai Branch, Kyushu Residence, Nisshin Office, Toyota Distribution Center, Nagoya Distribution Center
 - HAGIWARA HOKUTO TECHNO CO., LTD. : Nagoya Office (Headquarters)
 - Hagiwara America, Inc. : Headquarters
 - Hagiwara (Shanghai) Co., Ltd. : Headquarters
 - Hagiwara Electric Europe GmbH : Headquarters
 - Singapore Hagiwara Pte. Ltd. : Headquarters
- ※2 : Categories of SCOPE 3 are 1, 2, 3, 4, 5, 6 and 7 :
- Category 1 (Purchased goods and services) : Purchased raw materials, parts, goods, materials, services and major indirect expenses etc.
 - Category 2 (Capital goods) : Increased tangible fixed assets(facilities, equipment, buildings, vehicles, software etc.)
 - Category 3 (Fuel- and energy-related activities not included in Scope 1 or Scope 2) : Fuel and electricity consumption
 - Category 4 (Transport and distribution (upstream)) : Domestic / overseas shipping transportation
 - Category 5 (Waste generated in operations) : Industrial waste and non-industrial waste generated in operations within the organizational boundary
 - Category 6 (Business travel) : Business travel via public transportation by employees
 - Category 7 (Employee commuting) : Employee commuting to the worksites
- ※3 : Monitoring procedure of SCOPE 1, 2 and 3 : “Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver.2.5) ” , “Database of emissions unit values for Greenhouse Gas Emissions throughout the Supply Chain (ver.3.3) ” , and the “2022 Monitoring procedures” prepared by the Organization.
- ※4 : Emission factor for electricity consumption :
- Japan : Adjusted emission factor under GHG emissions reporting system of Japan
- Overseas : “Database of emissions unit values for Greenhouse Gas Emissions throughout the Supply Chain (ver.3.3) ”
- ※5 : Organizational boundary of major expenses for indirect department is the total of 23 sites of group companies including 16 sites in ※1.