



LRQA Independent Assurance Statement

Relating to Panasonic Group's Environmental Data within its Sustainability Data Book 2023 for the fiscal year 2022

This Assurance Statement has been prepared for Panasonic Holdings Corporation in accordance with our contract.

Terms of Engagement

LRQA Limited ("LRQA") was commissioned by Panasonic Holdings Corporation ("the Company") to provide independent assurance on its environmental data within its Sustainability Data Book 2023 ("the report") for the fiscal year 2022 (from 1 April 2022 to 31 March 2023) against the assurance criteria below to a limited level of assurance and materiality of the professional judgement of the verifier using ISAE 3000 (Revised) and ISO 14064-3:2019 for greenhouse gas (GHG) emissions.

Our assurance engagement covered the Company's operations and activities relating the Company and its consolidated subsidiaries in Japan and overseas¹, and specifically the following requirements:

- Verifying conformance with the Company's reporting methodologies for the selected datasets:
- Evaluating the accuracy and reliability of data for only the selected indicators listed below:^{2 3}
 - CO₂ emissions in Business activities (tCO₂e)
 - GHG emissions other than CO₂ from energy use (tCO₂e)
 - Scope 1 GHG emissions (including the breakdown of the GHGs) (tCO₂e)
 - Scope 2 GHG emissions (including the breakdown of the GHGs) (tCO₂e)
 - CO₂ emissions for logistics (tCO₂e)⁴
 - Scope 3 GHG emissions Category.11 (Use of sold products) (tCO₂e)
 - Amount of renewable energy consumption in Business activities (GWh)⁵
 - Energy consumption in Business activity (GWh)
 - Amount of Total Wastes and revenue-generating waste (Tonnes)
 - Water consumption (m³)
 - Release / Transfer of Substances Requiring Management (Total) (Tonnes)⁶
 - Zeroization of CO₂ emissions (31 plants)⁷
 - Avoided CO₂ emissions to Society (tCO₂e)

¹ Energy consumption in Business activities, Energy-oriented CO₂ emissions among Scope 1 GHG emissions, Scope 2 GHG emissions cover 227 manufacturing sites and 72 non-manufacturing sites, and GHG emissions other than CO₂ from energy use, Amount of Total Wastes and revenue-generating waste, Water consumption, Release / Transfer of Substances Requiring Management (Total) cover 227 manufacturing sites in the Company and its consolidated subsidiaries in Japan and overseas. CO₂ emissions in Business activities means the sum of Scope 1 and Scope 2 GHG emissions.

² LRQA undertook a limited assurance engagement of the environmental data marked with "✓" within Sustainability Data Book 2023.

³ GHG quantification is subject to inherent uncertainty.

⁴ Only the logistics in Japan is covered.

⁵ These are the results for the entire Panasonic Group, including non-manufacturing sites.

⁶ Some consolidated subsidiaries that don't have data collection and aggregation systems in place are not in the scope.

⁷ The scope is 33 plants at 31 location which are PANASONIC ECO TECHNOLOGY CENTER CO.,LTD. (PETEC), PANASONIC ENERGY (WUXI) CO.,LTD. (PECW), PANASONIC ENERGY (SUZHOU) CO.,LTD. (PECSZ), PANASONIC MANUFACTURING(BEIJING) CO.,LTD. (PMFBJ), PANASONIC ENERGY (THAILAND) CO.,LTD. (PECTH), PANASONIC DO BRASIL LTD (PANABRAS) (includes 3 factories (San Jose, Extrema, Manaus)), PANASONIC CENTROAMERICANA S.A. (PCA), PANASONIC CENTER TOKYO (PC TOKYO), PANASONIC AUTOMOTIVE SYSTEMS CO.,LTD. (MATSUMOTO AREA) (PAS MATSUMOTO), PANASONIC AUTOMOTIVE SYSTEMS CO.,LTD (TSURUGA AREA) (PAS TSURUGA), PANASONIC AUTOMOTIVE SYSTEMS CO.,LTD (SHIRAKAWA AREA) (PAS SHIRAKAWA), PANASONIC AUTOMOTIVE SYSTEMS CO.,LTD (YOKOHAMA BUILDING) (PAS YOKOHAMA), PANASONIC ENERGY CO.,LTD. (SUMOTO) (PEC SUMOTO), PANASONIC ENERGY HIGASHIURA CO.,LTD. (PEC HIGASHIURA), PANASONIC ENERGY NANDAN CO.,LTD. (PEC NANDAN), PANASONIC ELECTRONIC DEVICES(JIANGMEN)CO., LTD. (PEDJM), PANASONIC INDUSTRIAL DEVICES (TIANJIN) CO.,LTD. (PIDTJ), PANASONIC INDUSTRIAL DEVICES MATERIALS (GUANGZHOU) CO.,LTD. (PIDMGZ), PANASONIC INDUSTRIAL DEVICES SUNX (SUZHOU) CO., LTD. (PIDSXSZ), PANASONIC AUTOMOTIVE SYSTEMS DALIAN CO.,LTD. (PASDL), PANASONIC AUTOMOTIVE SYSTEMS (SUZHOU) CO.,LTD. (PASSZ), PANASONIC AUTOMOTIVE SYSTEMS ASIA PACIFIC CO.,LTD. (PASAP), PANASONIC AUTOMOTIVE SYSTEMS MALAYSIA SDN.BHD. (PASM), PANASONIC ENERGY INDIA CO.,LTD. (PECIN), PANASONIC AUTOMOTIVE SYSTEMS MONTERREY MEXICO S.A. (PASMT), PANASONIC AUTOMOTIVE SYSTEMS DE MEXICO S.A.DE C.V. (PASM), PANASONIC AUTOMOTIVE SYSTEMS REYNOSA MEXICO S.A. D (PASRY), PANASONIC ENERGY MEXICO,S.A. DE. C.V. (PEMX), PANASONIC AUTOMOTIVE SYSTEMS CZECH,S.R.O. (PASCZ).



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

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the Company has not, in all material respects:

- Met the requirements of the criteria listed above
- Disclosed accurate and reliable environmental data

The opinion expressed is formed on the basis of a limited level of assurance⁸ and at the materiality of the professional judgement of the verifier.

LRQA's Approach

LRQA's assurance engagements are carried out in accordance with ISAE 3000 (Revised) and ISO 14064-3:2019 for GHG emissions. The following tasks were undertaken as part of the evidence gathering process for this assurance engagement:

- Auditing the Company's data management systems to confirm that there were no significant errors, omissions or misstatements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions and systems, including those for internal verification.
- Interviewing with those key people responsible for compiling the data and drafting the report.
- Sampling datasets and traced activity data back to aggregated levels;
- Verifying the historical environmental data and records for the fiscal year 2022; and
- Visiting PANASONIC ENERGY NANDAN CO.,LTD. and Panasonic Ecology Systems Guangdong Co., Ltd. to confirm the data collection processes, record management practices, and to physically check the main facilities in the scope of the site.
- In order to achieve practically zero CO₂ emissions, verified that each site has achieved full renewable energy use through the use of renewable energy contracts or non-fossil certificates for electricity, and each site has achieved carbon neutrality by using available carbon credits for carbon offset.⁹

Observations

It is expected the company to actively seek opportunities for further improvement through the information from sites and other means to ensure efficient and accurate aggregation and calculation of environmental data.

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 17021-1 *Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part1: Requirements* 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.

⁸ 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.

⁹ The Company's total GHG emissions are offset by the carbon credit. While LRQA confirmed that these offset credits have been obtained by the Company and offset appropriately, but LRQA has not taken any action against the provider of these carbon credits and expresses no opinion as to whether the offset credits will result in a reduction in CO₂.



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.

LRQA is the Company's certification body for ISO 9001, ISO14001, IATF16949 and AS9100. These certification services do not compromise LRQA's independence or impartiality with respect to the assurance services that LRQA provides to the Company.

Signed

Dated: 22 July 2023

A handwritten signature in black ink, appearing to read 'Ichiro Ueno', written in a cursive style.

Ichiro Ueno
LRQA Lead Verifier
On behalf of LRQA Limited
10th Floor, Queen's Tower A, 2-3-1 Minatomirai, Nishi-ku, Yokohama, JAPAN

LRQA reference: YKA00001141

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